

AIA CAD Layer Guidelines

TABLE OF CONTENTS

Key: = Section contains a downloadable Microsoft Excel document

0.0 Introduction

- 0.1 Overview
- 0.2 A Brief History of the CAD Layer Guidelines

1.0 Layer Name Format

- 1.1 Hierarchy of Data Fields
- 1.2 Before You Begin
- 1.3 Discipline Designator, Level 1
- 1.4 Discipline Designator, Level 2
- 1.5 Major Group
- 1.6 Minor Group
- 1.7 Status (Phase)

2.0 Drawing View Layer List

- 2.1 Drawing View Field Codes
- 2.2 Drawing View Layer Names

3.0 Annotation Layer List

- 3.1 Annotation Field Codes
- 3.2 Annotation Layer Names

4.0 Appendix A - List of Discipline Designators, Major and Minor Groups, and Status Fields



- 4.1 Discipline Designators
- 4.2 Major Groups
- 4.3 Minor Groups
- 4.4 Status Fields

5.0 Appendix B - Common Layer Lists by Discipline

- 5.1 Architectural Layer List
- 5.2 Civil Layer List
- 5.3 Contractor/Shop Drawing Layer List
- 5.4 Electrical Layer List
- 5.5 Distributed Energy Layer List
- 5.6 Equipment Layer List

- 5.7 Fire Protection Layer List
- 5.8 General Layer List
- 5.9 Geotechnical Layer List
- 5.10 Hazardous Materials Layer List
- 5.11 Interiors Layer List
- 5.12 Landscape Layer List
- 5.13 Mechanical Layer List
- 5.14 Operations Layer List
- 5.15 Plumbing Layer List
- 5.16 Process Layer List
- 5.17 Resource Layer List
- 5.18 Structural Layer List
- 5.19 Survey/Mapping Layer List
- 5.20 Telecommunications Layer List
- 5.21 Other Disciplines Layer List

6.0 Appendix C - Complying with NCS and ISO 13567

- 6.1 Overview
- 6.2 Field Codes
- 6.3 Field Codes and Language
- 6.4 ISO 13567 Conformance
- 6.5 Field Names and Definitions
- 6.6 "Discipline Designator" vs. "Agent Responsible"
- 6.7 "Agent Responsible" and Professional Liability
- 6.8 "Discipline Designator" and the Building Life Cycle
- 6.9 "Discipline Designator" and ISO 13567 Conformance
- 6.10 Field Code Restrictions
- 6.11 NCS and ISO 13567 Implementation Options
- 6.12 NCS and ISO 13567 Implementation Guidelines

0.0 Introduction

0.1 OVERVIEW

Virtually all vector-based CAD systems support the concept of layers. This function allows building design information to be organized in a systematic fashion, facilitates the visual display of the information on a computer screen, and allows the information to be efficiently converted to the conventional print media of drawings. Efficient use of layers can reduce document preparation time and improve document coordination. Organizing data by layers allows a single CAD file to contain a wealth of information about a building or facility. By turning selected layers on or off, data can be created, reviewed and edited according to a hierarchy that simulates the physical organization of building systems, the relative position of building elements, or the sequence of construction.

0.2 A BRIEF HISTORY OF CAD LAYER GUIDELINES (CLG)

The American Institute of Architects (AIA) published the first edition of *CAD Layer Guidelines* in 1990. The early success of the first edition and rapidly evolving technology resulted in the second edition being published in 1997. The most significant change between the first and second editions was the elimination of the "short" layer name

format and the adoption of the long layer name format as a single standard. The second edition also included additional layer field codes for remodeling projects, added new discipline designations for interiors, telecommunications, and other disciplines, and improved the method of organizing drawing annotation.

In July 1997, the AIA agreed to incorporate *CAD Layer Guidelines* into the emerging *United States National CAD Standard*® (NCS), a project of the National Institute of Building Sciences (NIBS). The AIA and NIBS were joined in that effort by the Construction Specifications Institute (CSI) and what is now known as the CADD/GIS Technology Center of the U.S. Army Corps of Engineers. CSI and CADD/GIS Technology Center agreed to incorporate their own publications, the *Uniform Drawing System* and the *Plotting Guidelines*, respectively, into the NCS. These four constituent publishers, as they came to be known, were joined by a number of building design and construction industry organizations in developing and publishing the NCS.

In March 1999, the U.S. National CAD Standard Project Committee (NCS Project Committee) formally accepted *CAD Layer Guidelines, Second Edition* (with minor amendments) as a constituent document of the NCS Version 1.0, published in July 1999. The NCS Project Committee immediately set to work on publication of Version 2.0, which was published in 2002.

Considerable confusion resulted from the lack of "alignment" between the "Second Edition" of *CAD Layer Guidelines* and "Version 1.0" of the NCS. Because *CAD Layer Guidelines, Second Edition* was published before, and later incorporated into, the NCS Version 1.0, this could not be avoided. With publication of the NCS Version 2.0, this problem was corrected by giving the constituent document an entirely new name. For the first time, "AIA" became part of the title of the publication, and the numbered "editions" were abandoned. As a result, this publication became known as *AIA CAD Layer Guidelines: U.S. National CAD Standard - Version 2.0.* Subsequent editions of the NCS adopted the same nomenclature.

1.0 Layer Name Format

1.1 HIERARCHY OF DATA FIELDS

The layer name format is organized as a hierarchy. This arrangement allows users to select from a number of options for naming layers according to the level of detailed information desired. Layer names consist of distinct data fields separated from one another by dashes. A detailed list of abbreviations, or field codes, is prescribed to define the content of layers. Most field codes are mnemonic English abbreviations of construction terminology that are easy to remember.

There are four defined layer name data fields: Discipline Designator, Major Group, two Minor Groups, and Status. The Discipline Designator and Major Group fields are mandatory. The Minor Group and Status fields are optional. Each data field is separated from adjacent fields by a dash ("-") for clarity.

The complete NCS layer name format, showing the Discipline Designator, the Major Group, two Minor Groups, and the Status fields.



1.2 BEFORE YOU BEGIN

The NCS allows you to select from a number of format options for creating layer names. It is recommended that you select the options that you wish to use for layer names on a given project, and then apply the resulting format consistently for all layer names on that project.

NOTE: For conceptual conformance to ISO 13567, Organization and Naming of Layers for CAD, the layer name format and length must be the same for all layers on a given project. See <u>CLG Appendix C - Complying with NCS and ISO 13567, CLG section 6.0</u> for information about ISO conformance. Δ

1.3 DISCIPLINE DESIGNATOR, LEVEL 1

The Discipline Designator denotes the category of subject matter contained on the specified layer. The Discipline Designator is a two-character field. The first character is the discipline character, and the second character is an optional modifier. The Discipline Designator is described in greater detail in UDS Section 1.3. For a complete list of Discipline Designators see CLG Section 4.1 and UDS Appendix A - Discipline Designators, UDS Section 1.6.

LEVEL 1 DISCIPLINE DESIGNATORS Architectural Α В Geotechnical С Civil D Process Ε Electrical F Fire Protection G General Hazardous Materials Н 1 Interiors L Landscape Mechanical M 0 Operations Р Plumbing Q Equipment R Resource S Structural Т Telecommunications ٧ Survey / Mapping W Distributed Energy Χ Other Disciplines Ζ Contractor / Shop Drawings A typical layer name showing the required data fields only.

Note that only the mandatory discipline character is shown, creating a Level 1 Discipline Designator.



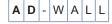
1.4 DISCIPLINE DESIGNATOR, LEVEL 2

The optional second character is used to further define the discipline character. As an example, the Level 2 Discipline Designators for Architectural are shown:

Designator	Description	
A	Architectural	
AD	Architectural Demolition	
AE	Architectural Elements	
AF	Architectural Finishes	
AG	Architectural Graphics	
Al	Architectural Interiors	
AS	Architectural Site	
AJ	User Defined	
AK	User Defined	
	· · · · · · · · · · · · · · · · · · ·	

A typical layer name showing the required data fields only.

Note that the mandatory Level 1 discipline character is supplemented by the optional discipline modifier to create a Level 2 Discipline Designator.



For a complete list of Discipline Designators see <u>CLG Appendix A - List of Discipline Designators</u>, <u>Major and Minor Groups</u>, <u>and Status Fields</u>, <u>CLG section 4.1</u> and <u>UDS Appendix A - Discipline Designators</u>, <u>UDS section 1.6</u>.

1.5 MAJOR GROUP

The major group is a four-character field that identifies a major building system. The prescribed Major Group field codes (four-character abbreviations) shown on the Layer List are logically grouped with specific discipline designators. However, any Major Group may be combined with any prescribed Discipline Designator, provided that the definition of the Major Group remains unchanged.

A typical layer name showing the required data fields only. The mandatory Major Group field is highlighted:



Therefore, any reasonable combination of the prescribed Discipline Designators and Major Groups is permitted.

NOTE: The NCS recognizes that there will be instances where user-defined Major Group field codes will be required. The NCS set of Major Group field codes is not intended to be all inclusive. There will be instances when project specific Major Groups will need to be created. In these cases Major Group field codes are allowed, however, they must contain four alphabetic and/or numeric characters and/or "~", and must be fully documented on the NCS Compliance Disclosure Statement for the project or identified as project specific in the standard supplement in which they are used.

NOTE: For conceptual conformance to ISO 13567, Organization and Naming of Layers for CAD, the use of the Major Group "ANNO" is not permitted. See $\underline{CLG\ Appendix\ C}$ - Complying with NCS and ISO 13567, CLG section 6.0 for information about ISO conformance. Δ

1.6 MINOR GROUP

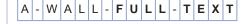
This is an optional, four-character field to further define the Major Groups. For example, *A-WALL-FULL* denotes *Architectural, Wall, Full-height.* A second minor group may be used for still further delineation of the data contained on a layer. For example, *A-WALL-FULL TEXT* indicates *Architectural, Wall, Full-height, Text.*

The prescribed Minor Group field codes (four-character abbreviations) shown on the Layer List are logically grouped with specific Major Groups. However, any Minor Group may be used to modify any Major Group, provided that the definition of the Minor Group remains unchanged. Therefore, any reasonable combination of the prescribed Major and Minor Groups is permitted.

A typical layer name showing one optional Minor Group field:



A typical layer name showing two optional Minor Group fields:



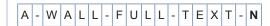
NOTE: User-defined Minor Group field codes are permitted. They must contain four alphabetic and/or numeric characters and/or "~", and must be fully documented on the NCS Compliance Disclosure Statement for the project on which they are used.

NOTE: For conceptual conformance to ISO 13567, Organization and Naming of Layers for CAD, the use of certain Minor Group field codes is restricted. See <u>CLG Appendix C - Complying with NCS and ISO 13567, CLG section 6.0</u> for information about ISO conformance. Δ

1.7 STATUS (PHASE)

The status field is an optional single-character field that distinguishes the data contained on the layer according to the status of the work or the construction phase. The prescribed field codes for this field are as follows:

A typical layer name showing the location of the optional Status field:



STATUS FIELD COD	DES

Α	Abandoned
D	Existing to demolish
E	Existing to remain
F	Future work
M	Items to be moved
N	New work
T	Temporary work
Χ	Not in contract
1-9	Phase numbers

NOTE: For conceptual conformance to ISO 13567, Organization and Naming of Layers for CAD, this field may be used to denote either "Status" OR "Phase," but not BOTH. See <u>CLG Appendix C - Complying with NCS and ISO</u> 13567, CLG section 6.0 for information about ISO conformance. Δ

2.0 Drawing View Layer List

2.1 DRAWING VIEW FIELD CODES

The Drawing View field codes are specialized codes for layers that are organized primarily by drawing type, rather than by major building system. The field codes DETL, ELEV, and SECT may also be used as Minor Group field codes to modify a major building system.

For data sets that are organized by drawing type, an optional alphanumeric Minor Group field code, ANNN, is prescribed to further distinguish drawings within a single CAD file. This Minor Group may be used ONLY to modify the prescribed Drawing View Major Groups; it may not be used to modify any other Major Group. The format of ANNN is also prescribed. It must consist of a single alphabetic character followed by a three-digit number between 001 and 999. The definition of ANNN is not prescribed; it must be defined by the user. The definition must be documented on the NCS Compliance Disclosure Statement for the project on which it is used.

The Minor Group field codes IDEN, MBND, MCUT, OTLN, and PATT may be used to modify any Major or Minor Group in the Layer List. The definitions of these prescribed field codes cannot be changed. See <u>CLG Sections 1.5</u> and <u>1.6</u> for rules and options governing the use of field codes.

2.2 DRAWING VIEW LAYER NAMES

Layer Name	Description
□□-DETL	Detail
oo-ELEV	Elevation
□□-SECT	Section
ANNN	Drawing View Major Group: optional number ($\bf A$ = letter, $\bf NNN$ = number between 001 and 999)
oo-ooo-ANNN-IDEN	Drawing View Major Group: optional number: identification tags
oo-ooo- ANNN -MBND	Drawing View Major Group: optional number: material beyond cut
oo-ooo-ANNN-MCUT	Drawing View Major Group: optional number: material cut by the view
oo-ooo-ANNN-OTLN	Drawing View Major Group: optional number: outline
oo-ooo- ANNN- PATT	Drawing View Major Group: optional number: textures and hatch patterns

3.0 Annotation Layer List

3.1 ANNOTATION FIELD CODES

Annotation consists of text, dimensions, notes, sheet borders, detail references and other elements on CAD drawings that do not represent physical aspects of a building. Use of the Major Group ANNO allows all annotation to be placed in a defined group of layers.

The Layer Names shown below provide examples for the use of Minor Group field codes for annotation. **These**Minor Groups may be used to modify any Major or Minor Group in the Layer List. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

3.2 ANNOTATION LAYER NAMES

Layer Name	Description
□□-ANNO	Annotation
00-000-BRNG	Bearings and distance labels (survey coordinates)
00-000-DIMS	Dimensions
00-000-IDEN	Identification tags
00-000-KEYN	Keynotes
00-000-LABL	Labels
00-000-LEGN	Legends, symbol keys
00-000-LOGO	Company logo
00-000-MARK	Markers, break marks, leaders
oo-ooo-MATC	Match lines
oo-ooo-NOTE	Notes
00-000-NPLT	Non-plotting graphic information
00-000-PROS	Date/Time/File name stamp
00-000-RDME	Read-me layer (not plotted)
00-000-REDL	Redlines
00-000-REFR	Reference, external files
00-000-REVC	Revision clouds
00-000-REVS	Revision indicators and text
SCHD	Schedules
00-000-STMP	Professional stamps
00-000-SYMB	Reference symbols
00-000-TABL	Data tables
00-000-TEXT	Text
00-0000-TITL	Drawing or detail titles
00-0000-TTLB	Border and title block

4.0 Appendix A - List of Discipline Designators, Major and Minor Groups, and Status Fields

The CLG states that "any Major Group may be combined with any prescribed Discipline Designator, provided that the definition of the Major Group remains unchanged" and "any Minor Group may be used to modify any Major Group, provided that the definition of the Minor Group remains unchanged." Therefore the following alphabetical list of all Discipline Designators, Major and Minor Groups, and Status Fields regardless of discipline has been compiled for easy reference.

• 4.1 Discipline Designators

• 4.3 Minor Groups

• 4.2 Major Groups

• 4.4 Status Fields

4.1 DISCIPLINE DESIGNATORS

DOWNLOAD SPREADSHEET

Designator	Description
Α	Architectural
AD	Architectural Demolition
AE	Architectural Elements
AF	Architectural Finishes
AG	Architectural Graphics
Al	Architectural Interiors
AJ	User Defined
AK	User Defined
AS	Architectural Site
В	Geotechnical
BJ	User Defined
BK	User Defined
С	Civil
CD	Civil Demolition
CG	Civil Grading
CI	Civil Improvements
CJ	User Defined
CK	User Defined
CN	Civil Nodes
CP	Civil Paving
CS	Civil Site
СТ	Civil Transportation
CU	Civil Utilities
D	Process
DA	Process Airs
DC	Process Chemicals
DD	Process Demolition
DE	Process Electrical
DG	Process Gases
DI	Process Instrumentation

DK User Defined DL Process Liquids DM Process Liquids DM Process Oils DM Process Oils DP Process Oils DP Process Piping DQ Process Equipment DR Process Stepina and Reclaims DS Process Stile DV Process Vacuum DW Process Waters DX Process Stury E Electrical ED Electrical Demolition EI Electrical Electrical Electrical Electrical Electrical Instrumentation EJ User Defined EK User Defined EL Electrical Site ET Electrical Site ET Electrical Site ET Electrical Telecommunications EY Electrical Telecommunications EY Electrical Telecommunication FA Fire Detection and Alarm FJ User Defined FK User Defined FG General GG General GG General Geomerational GJ User Defined FK User Defined	DJ	User Defined
DM Process HPM Gases DO Process Oils DP Process Piping DQ Process Equipment DR Process Stand Reclaims DS Process Stite DV Process Vacuum DW Process Waters DX Process Sturry E Electrical ED Electrical Demolition EI Electrical Instrumentation EJ User Defined EL Electrical Lighting EP Electrical Site ET Electrical Site ET Electrical Telecommunications EY Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined FK User Defined GG General GG General GG General GG General Resource H Hazardous Materials Abestos HC Hazardous Materials Chemicals HU User Defined HK User Defined HK User Defined HK User Defined	DK	User Defined
DO Process Oils DP Process Piping DQ Process Equipment DR Process Equipment DR Process Site DV Process Site DV Process Vacuum DW Process Waters DX Process Silary E Electrical ED Electrical Demolition EI Electrical Instrumentation EJ User Defined EL Electrical Lighting EP Electrical Site ET Electrical Site ET Electrical Telecommunications EY Electrical Auxiliary Systems F Fire Protection FA Fire Defened FK User Defined GC General GC General Resource H Hazardous Materials Asbestos HC Hazardous Materials Chemicals HU User Defined HK User Defined HK User Defined	DL	Process Liquids
DP Process Piping DQ Process Equipment DR Process Drains and Reclaims DS Process Site DV Process Vacuum DW Process Waters DX Process Shaust DY Process Shaust DY Process Shaust DY Process Shaust DY Process Chaust DY Process Chaust DY Process Chaust DY Process Chaust DY Process Shury E Electrical ED Electrical Demolition EI Electrical Instrumentation EJ User Defined EK User Defined EK User Defined EL Electrical Lighting EP Electrical Site ET Electrical Site ET Electrical Telecommunications EY Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined FK User Defined FK User Defined GG General GC General Contractual GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Chemicals HJ User Defined HK User Defined	DM	Process HPM Gases
DQ Process Equipment DR Process Drains and Reclaims DS Process Site DV Process Site DV Process Vacuum DW Process Waters DX Process Surry E Electrical ED Electrical Demolition EI Electrical Instrumentation EJ User Defined EL Electrical Lighting EP Electrical Telecommunications EY Electrical Telecommunications EY Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined GC General GC General Contractual GJ User Defined GR General Resource H Hazardous Materials Chemicals HJ User Defined HK User Defined HK User Defined HK User Defined	DO	Process Oils
DR Process Drains and Reclaims DS Process Site DV Process Site DV Process Vacuum DW Process Waters DX Process Exhaust DY Process Slurry E Electrical ED Electrical Demolition EI Electrical Instrumentation EJ User Defined EK User Defined EL Electrical Lighting EP Electrical Site ET Electrical Telecommunications EY Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined GG General GG General GG General Contractual GI General Resource H Hazardous Materials Chemicals HJ User Defined HK User Defined HK User Defined HK User Defined	DP	Process Piping
DS Process Site DV Process Vacuum DW Process Waters DX Process Exhaust DY Process Slurry E Electrical ED Electrical Demolition EI Electrical Instrumentation EJ User Defined EK User Defined EL Electrical Lighting EP Electrical Site ET Electrical Site ET Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined FK User Defined GG General GC General Contractual GJ User Defined GK User Defined GR General Resource H HAzardous Materials HA Hazardous Materials Asbestos HC Hazardous Materials Chemicals HJ User Defined	DQ	Process Equipment
DV Process Vacuum DW Process Waters DX Process Exhaust DY Process Slurry E Electrical ED Electrical Demolition EI Electrical Instrumentation EJ User Defined EK User Defined EL Electrical Lighting EP Electrical Power ES Electrical Site ET Electrical Telecommunications EY Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined FK User Defined GC General Contractual GJ General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials HJ User Defined HK User Defined	DR	Process Drains and Reclaims
DW Process Waters DX Process Exhaust DY Process Slurry E Electrical ED Electrical Demolition EI Electrical Instrumentation EJ User Defined EK User Defined EL Electrical Lighting EP Electrical Power ES Electrical Site ET Electrical Telecommunications EY Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined FK User Defined GG General GG General GG General Contractual GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Asbestos HC Hazardous Materials Chemicals HJ User Defined HK User Defined HK User Defined	DS	Process Site
DX Process Exhaust DY Process Slurry E Electrical ED Electrical Demolition EI Electrical Instrumentation EJ User Defined EK User Defined EL Electrical Lighting EP Electrical Site ET Electrical Telecommunications EY Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined FX Fire Suppression G General GC General Contractual GJ User Defined GK User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Chemicals HJ User Defined HK User Defined HK User Defined HK User Defined	DV	Process Vacuum
DY Process Slurry E Electrical ED Electrical ED Electrical Demolition EI Electrical Instrumentation EJ User Defined EK User Defined EL Electrical Lighting EP Electrical Site ET Electrical Site ET Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined FX Fire Suppression G General GC General Contractual GJ User Defined GK User Defined GK User Defined GK User Defined H Hazardous Materials Asbestos HC Hazardous Materials Chemicals HJ User Defined HK User Defined HK User Defined	DW	Process Waters
E Electrical ED Electrical Demolition EI Electrical Instrumentation EJ User Defined EK User Defined EL Electrical Lighting EP Electrical Power ES Electrical Site ET Electrical Telecommunications EY Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined FX Fire Suppression G General GC General Contractual GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials Asbestos HC Hazardous Materials Chemicals HJ User Defined HK User Defined HK User Defined	DX	Process Exhaust
ED Electrical Demolition EI Electrical Instrumentation EJ User Defined EK User Defined EL Electrical Lighting EP Electrical Power ES Electrical Site ET Electrical Telecommunications EY Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined FX Fire Suppression G General GC General Contractual GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Asbestos HC Hazardous Materials Chemicals HJ User Defined HK User Defined HK User Defined	DY	Process Slurry
EI Electrical Instrumentation EJ User Defined EK User Defined EL Electrical Lighting EP Electrical Power ES Electrical Site ET Electrical Telecommunications EY Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined FX Fire Suppression G General GC General Contractual GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials Asbestos HC Hazardous Materials Chemicals HJ User Defined HK User Defined HK User Defined	E	Electrical
EK User Defined EK User Defined EL Electrical Lighting EP Electrical Power ES Electrical Site ET Electrical Telecommunications EY Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined FX Fire Suppression G General GC General Contractual GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Chemicals HJ User Defined HK User Defined HK User Defined HK User Defined	ED	Electrical Demolition
EK User Defined EL Electrical Lighting EP Electrical Power ES Electrical Site ET Electrical Telecommunications EY Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined FX Fire Suppression G General GC General Contractual GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Chemicals HJ User Defined HK User Defined HK User Defined	El	Electrical Instrumentation
EL Electrical Lighting EP Electrical Power ES Electrical Site ET Electrical Telecommunications EY Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined FX Fire Suppression G General GC General Contractual GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Chemicals HJ User Defined HK User Defined HK User Defined	EJ	User Defined
EP Electrical Power ES Electrical Site ET Electrical Telecommunications EY Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined FX Fire Suppression G General GC General Contractual GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Chemicals HJ User Defined HK User Defined HK User Defined	EK	User Defined
ES Electrical Site ET Electrical Telecommunications EY Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined FX Fire Suppression G General GC General Contractual GI General Informational GJ User Defined GR User Defined GR User Defined H Hazardous Materials HA Hazardous Materials Chemicals HJ User Defined HK User Defined HK User Defined	EL	Electrical Lighting
ET Electrical Telecommunications EY Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined FX Fire Suppression G General GC General Contractual GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Chemicals HJ User Defined HK User Defined User Defined HK User Defined	EP	Electrical Power
EY Electrical Auxiliary Systems F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined FX Fire Suppression G General GC General Contractual GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Chemicals HJ User Defined HK User Defined HK User Defined	ES	Electrical Site
F Fire Protection FA Fire Detection and Alarm FJ User Defined FK User Defined FX Fire Suppression G General GC General Contractual GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Chemicals HJ User Defined User Defined User Defined	ET	Electrical Telecommunications
FA Fire Detection and Alarm FJ User Defined FK User Defined FX Fire Suppression G General GC General Contractual GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Chemicals HJ User Defined HK User Defined User Defined	EY	Electrical Auxiliary Systems
FJ User Defined FK User Defined FX Fire Suppression G General GC General Contractual GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Chemicals HJ User Defined HK User Defined	F	Fire Protection
FK User Defined FX Fire Suppression G General GC General Contractual GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Chemicals HJ User Defined HK User Defined	FA	Fire Detection and Alarm
FX Fire Suppression G General GC General Contractual GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Chemicals HJ User Defined HK User Defined	FJ	User Defined
G General GC General Contractual GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Asbestos HC Hazardous Materials Chemicals HJ User Defined HK User Defined	FK	User Defined
GC General Contractual GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Asbestos HC Hazardous Materials Chemicals HJ User Defined HK User Defined	FX	Fire Suppression
GI General Informational GJ User Defined GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Asbestos HC Hazardous Materials Chemicals HJ User Defined HK User Defined	G	General
GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Asbestos HC Hazardous Materials Chemicals HJ User Defined HK User Defined	GC	General Contractual
GK User Defined GR General Resource H Hazardous Materials HA Hazardous Materials Asbestos HC Hazardous Materials Chemicals HJ User Defined HK User Defined	GI	General Informational
GR General Resource H Hazardous Materials HA Hazardous Materials Asbestos HC Hazardous Materials Chemicals HJ User Defined HK User Defined	GJ	User Defined
H Hazardous Materials HA Hazardous Materials Asbestos HC Hazardous Materials Chemicals HJ User Defined HK User Defined	GK	User Defined
HA Hazardous Materials Asbestos HC Hazardous Materials Chemicals HJ User Defined HK User Defined	GR	General Resource
HC Hazardous Materials Chemicals HJ User Defined HK User Defined	Н	Hazardous Materials
HJ User Defined HK User Defined	HA	Hazardous Materials Asbestos
HK User Defined	HC	Hazardous Materials Chemicals
	HJ	User Defined
HL Hazardous Materials Lead	HK	User Defined
	HL	Hazardous Materials Lead

HR Hazardous Materials Refrigerants I Interior ID Interior Demolition IF Interior Furnishings IG Interior Graphics IJ User Defined IK User Defined IN Interior Design L Landscape LD Landscape Demolition LG Landscape Grading LI Landscape Irrigation LJ User Defined LK User Defined LK User Defined LL Landscape Irrigation LJ User Defined LL Landscape Ilrighting LP Landscape Planting LR Landscape Planting LR Landscape Site M Mechanical MD Mechanical Demolition MJ Mechanical Instrumentation MJ User Defined MK User Defined MC User Defined P Plumbing PD Plumbing Pping PD Plumbing Pping PP Plumbing PP Plumbing Pping PP Plumbing Pping PP Plumbing Pping PP Plumbing Equipment PS Plumbing Site Q Equipment PS Plumbing Site Q Equipment PS Plumbing Site	HP	Hazardous Materials PCB
ID Interior Demolition IF Interior Furnishings IG Interior Graphics IJ User Defined IK User Defined IK User Defined IN Interior Design L Landscape LD Landscape LD Landscape Grading LI Landscape Irrigation LJ User Defined LK User Defined LK User Defined LK User Defined LK Landscape Irrigation LJ User Defined LK Landscape Lighting LP Landscape Planting LR Landscape Site M Mechanical MD Mechanical Demolition MH Mechanical Instrumentation MJ User Defined MK User Defined MK User Defined MK User Defined MC User Defined P Plumbing PD Plumbing PD Plumbing PD Plumbing PD Plumbing PD Plumbing PP Plumbing PP Plumbing PP Plumbing PP Plumbing Equipment PS Plumbing Site Q Equipment	HR	Hazardous Materials Refrigerants
IF Interior Furnishings IG Interior Graphics IJ User Defined IK User Defined IK User Defined IN Interior Design L Landscape LD Landscape Demolition LG Landscape Grading LI Landscape Irrigation LJ User Defined LK User Defined LK User Defined LK Landscape Irrigation LJ User Defined LL Landscape Lighting LP Landscape Planting LR Landscape Planting LR Landscape Site M Mechanical MD Mechanical Demolition MH Mechanical HVAC MI Mechanical Instrumentation MJ User Defined MK User Defined MK User Defined MMK User Defined MPP Mechanical Site O Operations OJ User Defined OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PK User Defined PK User Defined PL Plumbing PP Plumbing Piping PP Plumbing Equipment PS Plumbing Site Q Equipment	I	Interior
IG Interior Graphics IJ User Defined IK User Defined IN Interior Design L Landscape LD Landscape Demolition LG Landscape Grading LI Landscape Irrigation LJ User Defined LK User Defined LK User Defined LL Landscape Irrigation LJ Landscape Irrigation LJ Landscape Panting LR Landscape Planting LR Landscape Planting LR Landscape Site M Mechanical MD Mechanical Demolition MH Mechanical HVAC MI Mechanical Instrumentation MJ User Defined MK User Defined MK User Defined MK User Defined MP Mechanical Site O Operations OJ User Defined OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PK User Defined PL Plumbing PP Plumbing Piping PP Plumbing Ppiping PQ Plumbing Equipment PS Plumbing Site Q Equipment	ID	Interior Demolition
IV User Defined IK User Defined IN Interior Design L Landscape LD Landscape Demolition LG Landscape Grading LI Landscape Irrigation LJ User Defined LK User Defined LK User Defined LL Landscape Lighting LP Landscape Planting LR Landscape Planting LR Landscape Site M Mechanical MD Mechanical Demolition MH Mechanical Instrumentation MJ User Defined MK User Defined MK User Defined MS Mechanical Site O Operations OJ User Defined P Plumbing PD Plumbing Demolition PJ User Defined PL Plumbing PP Plumbing PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	IF	Interior Furnishings
IK User Defined IN Interior Design L Landscape LD Landscape Demolition LG Landscape Grading LI Landscape Irrigation LJ User Defined LK User Defined LK User Defined LL Landscape Lighting LP Landscape Planting LR Landscape Relocation LS Landscape Site M Mechanical MD Mechanical Demolition MH Mechanical Instrumentation MJ User Defined MK User Defined MK User Defined MC User Defined DC User Defined	IG	Interior Graphics
IN Interior Design L Landscape LD Landscape Demolition LG Landscape Grading LI Landscape Irrigation LJ User Defined LK User Defined LL Landscape Lighting LP Landscape Planting LR Landscape Relocation LS Landscape Site M Mechanical MD Mechanical Demolition MH Mechanical Instrumentation MJ User Defined MK User Defined MK User Defined MP Mechanical Site O Operations OJ User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PK User Defined PK User Defined PR Plumbing PP Plumbing PP Plumbing PP Plumbing PP Plumbing PP Plumbing Piping PQ Plumbing Site Q Equipment	IJ	User Defined
L Landscape LD Landscape Demolition LG Landscape Grading LI Landscape Irrigation LJ User Defined LK User Defined LL Landscape Planting LP Landscape Planting LR Landscape Relocation LS Landscape Site M Mechanical MD Mechanical Demolition MH Mechanical Instrumentation MJ User Defined MK User Defined MMR User Defined MMR Mechanical Plping MS Mechanical Site O Operations OJ User Defined P Plumbing PD Plumbing PD Plumbing PP Plumbing PP Plumbing PP Plumbing PP Plumbing PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	IK	User Defined
LD Landscape Demolition LG Landscape Grading LI Landscape Irrigation LJ User Defined LK User Defined LL Landscape Lighting LP Landscape Planting LR Landscape Site M Mechanical MD Mechanical Demolition MH Mechanical Instrumentation MJ User Defined MK User Defined MK User Defined MO Mechanical Plying MS Mechanical Site O Operations OJ User Defined OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PK User Defined PC Plumbing PP Plumbing Piping PP Plumbing Equipment PS Plumbing Site Q Equipment	IN	Interior Design
LI Landscape Grading LI Landscape Irrigation LJ User Defined LK User Defined LL Landscape Lighting LP Landscape Planting LR Landscape Relocation LS Landscape Site M Mechanical MD Mechanical Demolition MH Mechanical Instrumentation MJ User Defined MK User Defined MK User Defined MP Mechanical Piping MS Mechanical Site O Operations OJ User Defined OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PL Plumbing PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	L	Landscape
LI Landscape Irrigation LJ User Defined LK User Defined LL Landscape Lighting LP Landscape Planting LR Landscape Relocation LS Landscape Site M Mechanical MD Mechanical Demolition MH Mechanical Instrumentation MJ User Defined MK User Defined MMR Mechanical Piping MS Mechanical Site O Operations OJ User Defined P Plumbing PD Plumbing PD Plumbing PP Plumbing Piping PP Plumbing Equipment PS Plumbing Site Q Equipment	LD	Landscape Demolition
LJ User Defined LK User Defined LL Landscape Lighting LP Landscape Planting LR Landscape Relocation LS Landscape Site M Mechanical MD Mechanical Demolition MH Mechanical Instrumentation MJ User Defined MK User Defined MMP Mechanical Piping MS Mechanical Site O Operations OJ User Defined OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PL Plumbing PP Plumbing Piping PP Plumbing Equipment PS Plumbing Site Q Equipment	LG	Landscape Grading
LK User Defined LL Landscape Lighting LP Landscape Planting LR Landscape Relocation LS Landscape Site M Mechanical MD Mechanical Demolition MH Mechanical Instrumentation MJ User Defined MK User Defined MR Mechanical Piping MS Mechanical Site O Operations OJ User Defined OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PL Plumbing PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	LI	Landscape Irrigation
LL Landscape Lighting LP Landscape Planting LR Landscape Relocation LS Landscape Site M Mechanical MD Mechanical Demolition MH Mechanical Instrumentation MJ User Defined MK User Defined MM Mechanical Piping MS Mechanical Site O Operations OJ User Defined OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PP Plumbing Piping PP Plumbing Equipment PS Plumbing Site Q Equipment	LJ	User Defined
LP Landscape Planting LR Landscape Relocation LS Landscape Site M Mechanical MD Mechanical Demolition MH Mechanical Instrumentation MJ User Defined MK User Defined MP Mechanical Piping MS Mechanical Site O Operations OJ User Defined OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PK User Defined PL Plumbing PP Plumbing PP Plumbing PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	LK	User Defined
LR Landscape Relocation LS Landscape Site M Mechanical MD Mechanical Demolition MH Mechanical Instrumentation MJ User Defined MK User Defined MP Mechanical Piping MS Mechanical Site O Operations OJ User Defined OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PL Plumbing PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	LL	Landscape Lighting
LS Landscape Site M Mechanical MD Mechanical Demolition MH Mechanical Instrumentation MI Mechanical Instrumentation MJ User Defined MK User Defined MP Mechanical Piping MS Mechanical Site O Operations OJ User Defined OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PL Plumbing PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	LP	Landscape Planting
MD Mechanical Demolition MH Mechanical HVAC MI Mechanical Instrumentation MJ User Defined MK User Defined MP Mechanical Piping MS Mechanical Site O Operations OJ User Defined OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PK User Defined PR Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PL Plumbing PP Plumbing PP Plumbing PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	LR	Landscape Relocation
MD Mechanical Demolition MH Mechanical HVAC MI Mechanical Instrumentation MJ User Defined MK User Defined MP Mechanical Piping MS Mechanical Site O Operations OJ User Defined OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PK User Defined PH User Defined PH Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PL Plumbing PP Plumbing Piping PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	LS	Landscape Site
MH Mechanical HVAC MI Mechanical Instrumentation MJ User Defined MK User Defined MP Mechanical Piping MS Mechanical Site O Operations OJ User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PK User Defined PL Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PK User Defined PL Plumbing PD Plumbing Equipment PD Plumbing Piping PD Plumbing Piping PD Plumbing Equipment PS Plumbing Site Q Equipment	M	Mechanical
MI Mechanical Instrumentation MJ User Defined MK User Defined MP Mechanical Piping MS Mechanical Site O Operations OJ User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PK User Defined PL Plumbing PD Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PK User Defined PL Plumbing PP Plumbing PP Plumbing Piping PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	MD	Mechanical Demolition
MK User Defined MP Mechanical Piping MS Mechanical Site O Operations OJ User Defined OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PL Plumbing PD Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PK User Defined PL Plumbing PD Plumbing Piping PD Plumbing Piping PD Plumbing Piping PD Plumbing Equipment PS Plumbing Site Q Equipment	MH	Mechanical HVAC
MK User Defined MP Mechanical Piping MS Mechanical Site O Operations OJ User Defined OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PL Plumbing PD Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PK User Defined PL Plumbing PP Plumbing Piping PP Plumbing Piping PP Plumbing Equipment PS Plumbing Site Q Equipment	MI	Mechanical Instrumentation
MP Mechanical Piping MS Mechanical Site O Operations OJ User Defined OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PL Plumbing PD Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PK User Defined PL Plumbing PP Plumbing Piping PP Plumbing Equipment PS Plumbing Site Q Equipment	MJ	User Defined
MS Mechanical Site O Operations OJ User Defined OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PL Plumbing PP Plumbing PP Plumbing PO Plumbing PK User Defined PL Plumbing PP Plumbing Piping PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	MK	User Defined
O Operations OJ User Defined OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PL Plumbing PD Plumbing PD Plumbing PJ User Defined PK User Defined PL Plumbing PP Plumbing Piping PP Plumbing Equipment PS Plumbing Site Q Equipment	MP	Mechanical Piping
OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PL Plumbing PP Plumbing PP Plumbing PP Plumbing PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	MS	Mechanical Site
OK User Defined P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PL Plumbing PP Plumbing PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	0	Operations
P Plumbing PD Plumbing Demolition PJ User Defined PK User Defined PL Plumbing PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	OJ	User Defined
PD Plumbing Demolition PJ User Defined PK User Defined PL Plumbing PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	OK	User Defined
PJ User Defined PK User Defined PL Plumbing PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	Р	Plumbing
PK User Defined PL Plumbing PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	PD	Plumbing Demolition
PL Plumbing PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	PJ	User Defined
PP Plumbing Piping PQ Plumbing Equipment PS Plumbing Site Q Equipment	PK	User Defined
PQ Plumbing Equipment PS Plumbing Site Q Equipment	PL	Plumbing
PS Plumbing Site Q Equipment	PP	Plumbing Piping
Q Equipment	PQ	Plumbing Equipment
	PS	Plumbing Site
QA Equipment Athletic	Q	Equipment
	QA	Equipment Athletic

QB	Equipment Bank
QC	Equipment Dry Cleaning
QD	Equipment Detention
QE	Equipment Educational
QF	Equipment Food service
QH	Equipment Hospital
QJ	User Defined
QK	User Defined
QL	Equipment Laboratory
QM	Equipment Maintenance
QP	Equipment Parking Lot
QR	Equipment Retail
QS	Equipment Site
QT	Equipment Theatrical
QV	Equipment Video / Photographic
QY	Equipment Security
R	Resource
RA	Resource Architectural
RC	Resource Civil
RE	Resource Electrical
RJ	User Defined
RK	User Defined
RM	Resource Mechanical
RR	Resource Real Estate
RS	Resource Structural
S	Structural
SB	Structural Substructure
SD	Structural Demolition
SF	Structural Framing
SJ	User Defined
SK	User Defined
SS	Structural Site
T	Telecommunications
TA	Telecommunications Audio Visual
TC	Telecommunications Clock and Program
TI	Telecommunications Intercom
TJ	User Defined
TK	User Defined
TM	Telecommunications Monitoring
TN	Telecommunications Data Networks

TT	Telecommunications Telephone
TY	Telecommunications Security
V	Survey / Mapping
VA	Survey / Mapping Aerial
VC	Survey / Mapping Computated Points
VF	Survey / Mapping Field
VI	Survey / Mapping Digital
VJ	User Defined
VK	User Defined
VN	Survey / Mapping Node Points
VS	Survey / Mapping Staked Points
VU	Survey / Mapping Combined Utilities
W	Distributed Energy
WC	Distributed Energy Civil
WD	Distributed Energy Demolition
WI	Distributed Energy Interconnection
WJ	User Defined
WK	User Defined
WP	Distributed Energy Power
WS	Distributed Energy Structural
WT	Distributed Energy Telecommunications
WY	Distributed Energy Auxiliary Systems
X	Other Disciplines
XJ	User Defined
XK	User Defined
Z	Contractor/Shop Drawings
ZJ	User Defined
ZK	User Defined
	· · · · · · · · · · · · · · · · · · ·

4.2 MAJOR GROUPS

Major Group Layer Name	Description
ACCS	Access
ACID	Acid waste systems
AERI	Aerial Survey
AFFF	Aqueous film-forming foam system
AFLD	Airfields
AIR~	Air
ALGN	Alignment
ALRM	Alarm system

AREA AUXL Auxiliary systems BARR Barrer BCST Broadcast related system (radio or TV) BEAM Beams BELL Bell system BLDG Buildings and primary structures BLIN Baseline BNDY Political boundaries BORE Borings BRCG Bracing BRDG Bridge BRIN Brine systems BRKL Break / fault lines BRLN Building restriction line BZNA Buffer zone area CABL Cable systems CATY Cable television system CCTV Closed-circuit television system CEME CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock System CMPA Compressed / processed air systems CODE CODE Code compilance plan CONY CONY CONY CONY CONY CONY CONY CONY	ANNO	Annotation
BARR Barrier BCST Broadcast related system (radio or TV) BEAM Beams BELL Bell system BLIDG Buildings and primary structures BLIN Baseline BNDY Political boundaries BORE Borings BRCG Bracing BRDG Bridge BRIN Brine systems BRKL Break / fault lines BRLN Building restriction line BZNA Buffer zone area CABL Cable systems CATH Cathodic Protection System CATV Cable television system CCTV Closed-circuit television system CEME Cemetery CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPA Compressed / processed air systems CODE Code compliance plan COLS Columns COMM Communications CRPT Carpet / Carpet tiles CSWK Casework CARPT Carpet / Carpet tiles CSWK Casework CARPT Carpet / Carpet tiles CSWK Casework CARPT Carpet / Carpet tiles CSWK Casework CARD Control points	AREA	Area
BCST Broadcast related system (radio or TV) BEAM Beams BELL Bell system BLDG Buildings and primary structures BLIN Baseline BNDY Political boundaries BORE Borings BRCG Bracing BRDG Bridge BRIN Brine systems BRKL Break / fault lines BRLN Building restriction line BZNA Buffer zone area CABL Cable systems CATH Cathodic Protection System CCTV Closed-circuit television system CCTV Closed-circuit television system CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CODE Code compliance plan COLS COLUMNS COMM Communications COMM Communications CONV Conveying systems CRPT Carpet / Carpet tiles CSWK Casework CRPT Carpet / Carpet tiles CSWK Casework CTRL Control points	AUXL	Auxiliary systems
BEAM Beams BELL Bell system BLDG Buildings and primary structures BLIN Baseline BNDY Political boundaries BORE Borings BRCG Bracing BRDG Bridge BRIN Brine systems BRKL Break / fault lines BRLN Building restriction line BZNA Buffer zone area CABL Cable systems CATH Cathodic Protection System CCTV Closed-circuit television system CCTV Closed-circuit television system CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CODE Code compliance plan COLS Columns COMM Communications CONV Conveying systems CCNT Controls and instrumentation CONV Carpet / Carpet files CRPT Carpet / Carpet files CRPT Carpet / Carpet files CSWK Casework CTRL Control points	BARR	Barrier
BELL Bell system BLDG Buildings and primary structures BLIN Baseline BNDY Political boundaries BORE Borings BRCG Bracing BRDG Bridge BRIN Brine systems BRKL Break / fault lines BRLN Building restriction line BZNA Buffer zone area CABL Cable systems CATH Cathodic Protection System CCTV Closed-circuit television system CCTV Closed-circuit television system CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CODE Code compliance plan CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / Carpet tiles CSWK Casework CTRL Control points	BCST	Broadcast related system (radio or TV)
BLDG Buildings and primary structures BLIN Baseline BNDY Political boundaries BORE Borings BRCG Bracing BRDG Bridge BRIN Brine systems BRKL Break / fault lines BRLN Building restriction line BZNA Buffer zone area CABL Cable systems CATH Cathodic Protection System CATV Cable television system CCTV Closed-circuit television system CCTV Closed-circuit television system CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CODE Code compliance plan COLS Columns COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / Carpet tiles CSWK Casework CTRL Control points	BEAM	Beams
BLIN Baseline BNDY Political boundaries BORE Borings BRCG Bracing BRDG Bridge BRIN Brine systems BRKL Break / fault lines BRLN Building restriction line BZNA Buffer zone area CABL Cable systems CATH Cathodic Protection System CATV Cable television system CCTV Closed-circuit television system CCTV Closed-circuit television system CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CODE Code compliance plan COLS COLS COMM Communications CMPT Controls and instrumentation CONV Conveying systems CRPT Carpet / Carpet tiles CSWK Casework CTRL Control points	BELL	Bell system
BNDY Political boundaries BORE Borings BRCG Bracing BRDG Bridge BRIN Brine systems BRKL Break / fault lines BRLN Building restriction line BZNA Buffer zone area CABL Cable systems CATH Cathodic Protection System CATV Cable television system CCTV Closed-circuit television system CCTV Closed-circuit television system CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CNDW Condenser water systems CO2S CO2 system COLS Columns COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / Carpet tiles CSWK Casework CTRL Control points	BLDG	Buildings and primary structures
BORE Borings BRCG Bracing BRDG Bridge BRIN Brine systems BRKL Break / fault lines BRLN Building restriction line BZNA Buffer zone area CABL Cable systems CATH Cathodic Protection System CATV Cable television system CCTV Closed-circuit television system CCHM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CNDW Condenser water systems CO2S CO2 system COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / Carpet tiles CSWK Casework CTRL Control points	BLIN	Baseline
BRCG Braing BRDG Bridge BRIN Brine systems BRKL Break / fault lines BRLN Building restriction line BZNA Buffer zone area CABL Cable systems CATH Cathodic Protection System CATV Cable television system CCTV Closed-circuit television system CEME Cemetery CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CNDW Condenser water systems CODE Code compliance plan COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	BNDY	Political boundaries
BRDG Bridge BRIN Brine systems BRKL Break / fault lines BRLN Building restriction line BZNA Buffer zone area CABL Cable systems CATH Cathodic Protection System CATV Cable television system CCTV Closed-circuit television system CEME Cemetery CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Condenser water systems COS CO2 system CODE Code compliance plan COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	BORE	Borings
BRIN Brine systems BRKL Break / fault lines BRLN Building restriction line BZNA Buffer zone area CABL Cable systems CATH Cathodic Protection System CATV Cable television system CCTV Closed-circuit television system CEME Cemetery CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CNDW Condenser water systems CO2S CO2 system CODE Code compliance plan COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	BRCG	Bracing
BRKL Break / fault lines BRLN Building restriction line BZNA Buffer zone area CABL Cable systems CATH Cathodic Protection System CATV Cable television system CCTV Closed-circuit television system CEME Cemetery CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CNDW Condenser water systems CO2S CO2 system CODE Code compliance plan COMM Communications CONT Controls and instrumentation CCNV Carpet / carpet / carpet tiles CSWK Casework CTRL Control points	BRDG	Bridge
BRLN Building restriction line BZNA Buffer zone area CABL Cable systems CATH Cathodic Protection System CATV Cable television system CCTV Closed-circuit television system CEME Cemetery CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CNDW Condenser water systems CO2S CO2 system CODE Code compliance plan COMM Communications CONT Controls and instrumentation CNPT Carpet / carpet tiles CSWK Casework CTRL Control points	BRIN	Brine systems
BZNA Buffer zone area CABL Cable systems CATH Cathodic Protection System CATV Cable television system CCTV Closed-circuit television system CEME Cemetery CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CNDW Condenser water systems CO2S CO2 system CODE Code compliance plan COMM Communications CONT Controls and instrumentation CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	BRKL	Break / fault lines
CATH Cathodic Protection System CATV Cable television system CCTV Closed-circuit television system CEME Cemetery CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CNDW Condenser water systems CO2S CO2 system CODE Code compliance plan COMM Communications CONT Controls and instrumentation CRPT Carpet / carpet tiles CSWK Casework CTRL COttrol points	BRLN	Building restriction line
CATH Cathodic Protection System CATV Cable television system CCTV Closed-circuit television system CEME Cemetery CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CNDW Condenser water systems CO2S CO2 system COBE Code compliance plan COLS Columns COMM Communications CONT Controls and instrumentation CONV Conveying systems CSWK Casework CTRL Control points	BZNA	Buffer zone area
CATV Cable television system CCTV Closed-circuit television system CEME Cemetery CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CNDW Condenser water systems CO2S CO2 system CODE Code compliance plan COLS Columns COMM Communications CONT Controls and instrumentation CONV Conveying systems CSWK Casework CTRL Control points	CABL	Cable systems
CCTV Closed-circuit television system CEME Cemetery CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CNDW Condenser water systems CO2S CO2 system CODE Code compliance plan COLS Columns COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	CATH	Cathodic Protection System
CEME Cemetery CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CNDW Condenser water systems CO2S CO2 system CODE Code compliance plan COLS Columns COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	CATV	Cable television system
CHAN Navigable channels CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CNDW Condenser water systems CO2S CO2 system COBE Code compliance plan COLS Columns COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	CCTV	Closed-circuit television system
CHEM Chemical CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CNDW Condenser water systems CO2S CO2 system CODE Code compliance plan COLS Columns COMM Communications CONT Controls and instrumentation CONV Corveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	CEME	Cemetery
CHIM Chimneys and stacks CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CNDW Condenser water systems CO2S CO2 system CODE Code compliance plan COLS Columns COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	CHAN	Navigable channels
CLNG Ceiling CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CNDW Condenser water systems CO2S CO2 system CODE Code compliance plan COLS Columns COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	CHEM	Chemical
CLOK Clock system CMPA Compressed / processed air systems CMPR Computer CNDW Condenser water systems CO2S CO2 system CODE Code compliance plan COLS Columns COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	CHIM	Chimneys and stacks
CMPA Compressed / processed air systems CMPR Computer CNDW Condenser water systems CO2S CO2 system CODE Code compliance plan COLS Columns COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	CLNG	Ceiling
CMPR Computer CNDW Condenser water systems CO2S CO2 system CODE Code compliance plan COLS Columns COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	CLOK	Clock system
CNDW Condenser water systems CO2S CO2 system CODE Code compliance plan COLS Columns COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	CMPA	Compressed / processed air systems
CO2S CO2 system CODE Code compliance plan COLS Columns COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	CMPR	Computer
CODE Code compliance plan COLS Columns COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	CNDW	Condenser water systems
COLS Columns COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	CO2S	CO2 system
COMM Communications CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	CODE	Code compliance plan
CONT Controls and instrumentation CONV Conveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	COLS	Columns
CONV Conveying systems CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	COMM	Communications
CRPT Carpet / carpet tiles CSWK Casework CTRL Control points	CONT	Controls and instrumentation
CSWK Casework CTRL Control points	CONV	Conveying systems
CTRL Control points	CRPT	
	CSWK	Casework
	CTRL	Control points
	CWTR	Chilled water systems

DECK Detail DETL Detail DFLD Drain fields DIAG Diagrams DICT Dictation system DOMW Domestic water systems DOOR DOOR DRAN Drains DRIV Driveways DTCH Ditches or washes DUAL Dual temperature systems DUST Dust and fume collection systems ELEC Electrical system, telecom plan ELEV Elevation ELHT Electric heat EMCS Energy monitoring control system ENER Energy management systems EQPM Equipment EROS Erosion and sediment control ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Fume hood FURN Fume hood FURN Fume hood FURN Fume hood GRAD Grade line	DATA	Data / LAN system
DFLD Drain fields DIAG Diagrams DICT Dictation system DOMW Domestic water systems DOOR Doors DRAN Drains DRIV Driveways DTCH Ditches or washes DUAL Dual temperature systems DUST Dust and fume collection systems ELEC Electrical system, telecom plan ELEV Elevation ELHT Electric heat EMCS Energy monitoring control system ENER Energy management systems EQPM Equipment EROS Erosion and sediment control ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fume hood FURN Furnishings GAS- Gas GATE Gate GRID Grids Grids Grids Grids Critical Systems	DECK	Deck
DIAG Diagrams DICT Dictation system DOMW Domestic water systems DOOR Doors DRAN Drains DRIV Driveways DTCH Ditches or washes DUAL Dual temperature systems DUST Dust and fume collection systems ELEC Electrical system, telecom plan ELEV Elevation ELHT Electric heat EMCS Energy monitoring control system ENER Energy management systems EQPM Equipment EROS Erosion and sediment control ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FURE Fure hood FURN Furnishings GAS- Gas GAS- Gas GATE Gate GRID Grids Grids	DETL	Detail
DICT Dictation system DOMW Domestic water systems DOOR Doors DRAN Drains DRIV Driveways DTCH Ditches or washes DUAL Dual temperature systems DUST Dust and fume collection systems ELEC Electrical system, telecom plan ELEV Elevation ELHT Electric heat EMCS Energy monitoring control system ENER Energy management systems EQPM Equipment EROS Erosion and sediment control ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fume hood FURN Furnishings GAS- Gas GATE Gate GRID Grids FIGIS Grids	DFLD	Drain fields
DOMW Domestic water systems DOOR Doors DRAN Drains DRIV Driveways DTCH Ditches or washes DUAL Dual temperature systems DUST Dust and fume collection systems ELEC Electrical system, telecom plan ELEV Elevation ELHT Electric heat EMCS Energy monitoring control system ENER Energy management systems EQPM Equipment EROS Erosion and sediment control ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FILHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FURN Furnishings GAS~ Gas GATE Gate GRID Grids GRID Grids	DIAG	Diagrams
DOOR Doors DRAN Drains DRIV Driveways DTCH Ditches or washes DUAL Dual temperature systems DUST Dust and fume collection systems ELEC Electrical system, telecom plan ELEV Elevation ELHT Electric heat EMCS Energy monitoring control system ENER Energy management systems EQPM Equipment EROS Erosion and sediment control ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FILHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FURN Furnishings GAS~ Gas GATE Gate GIAZ Glazing GLYC Glycol systems GRID Grids FIGS	DICT	Dictation system
DRAN Drains DRIV Driveways DTCH Ditches or washes DUAL Dual temperature systems DUST Dust and fume collection systems ELEC Electrical system, telecom plan ELEV Elevation ELHT Electric heat EMCS Energy monitoring control system ENER Energy management systems EQPM Equipment EROS Erosion and sediment control ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FURE Gate GAS~ Gas GATE Gate GIAZ Glazing GLYC Glycol systems GRID Grids FIGE FIRE Grids Trunk Trunkshings GRID Grids Grids FIGH FI	DOMW	Domestic water systems
DRIV Driveways DTCH Ditches or washes DUAL Dual temperature systems DUST Dust and fume collection systems ELEC Electrical system, telecom plan ELEV Elevation ELHT Electric heat EMCS Energy monitoring control system ENER Energy management systems EQPM Equipment EROS Erosion and sediment control ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems GAS~ Gas GATE Gate GIAZ Glazing GLYC Grids EILEC Electrical systems ELEC Electrical system, telecom plan ELEV Elevation ELEV Elevation FUAL Divided plan ELEV Elevation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems GRID Grids	DOOR	Doors
DTCH Ditches or washes DUAL Dual temperature systems DUST Dust and fume collection systems ELEC Electrical system, telecom plan ELEV Elevation ELHT Electric heat EMCS Energy monitoring control system ENER Energy management systems EQPM Equipment EROS Erosion and sediment control ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GIAZ Glazing GIYC Glycol systems GRID Grids	DRAN	Drains
DUAL Dual temperature systems DUST Dust and fume collection systems ELEC Electrical system, telecom plan ELEV Elevation ELHT Electric heat EMCS Energy monitoring control system ENER Energy management systems EQPM Equipment EROS Erosion and sediment control ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GRID Grids ELIT Electrical systems Electrical systems ELEC Elevation FLOR Floor FURN Grids Grids Grids Grids	DRIV	Driveways
DUST Dust and fume collection systems ELEC Electrical system, telecom plan ELEV Elevation ELHT Electric heat EMCS Energy monitoring control system EMCS Energy management systems EQPM Equipment EROS Erosion and sediment control ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GRID Grids	DTCH	Ditches or washes
ELEC Electrical system, telecom plan ELEV Elevation ELHT Electric heat EMCS Energy monitoring control system ENER Energy management systems EQPM Equipment EROS Erosion and sediment control ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GRID Grids ENER General systems	DUAL	Dual temperature systems
ELEV Elevation ELHT Electric heat EMCS Energy monitoring control system ENER Energy management systems EQPM Equipment EROS Erosion and sediment control ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Grids Energy monitorine and systems Electric heat Energy monitoring systems Evaluation Energy monitoring systems Electric heat Energy monitoring systems Evaluation Energy monitoring systems Electric heat Energy monitoring systems Evaluation Energy monitoring systems Evaluation E	DUST	Dust and fume collection systems
ELHT Electric heat EMCS Energy monitoring control system ENER Energy management systems EQPM Equipment EROS Erosion and sediment control ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Grids	ELEC	Electrical system, telecom plan
EMCS Energy monitoring control system ENER Energy management systems EQPM Equipment EROS Erosion and sediment control ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems FRID Erosion and sediment control Equipment Example and equipment Equipment Equipment Equipment Equipment Example and equipment Equipment Example and e	ELEV	Elevation
ENER Energy management systems EQPM Equipment EROS Erosion and sediment control ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems FRIOS Erosion and sediment control Equipment Systems Example Syst	ELHT	Electric heat
EQPM Equipment EROS Erosion and sediment control ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems FRID Easements Evacuation plan Example and exam	EMCS	Energy monitoring control system
EROS Erosion and sediment control ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems FRIM Ervacuation plan Example Evacuation plan Evacuati	ENER	Energy management systems
ESMT Easements EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems FRICE Evacuation plan Ev	EQPM	Equipment
EVAC Evacuation plan EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems GRID Grids	EROS	Erosion and sediment control
EXHS Exhaust system FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems GRID Grids	ESMT	Easements
FENC Fences FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems FIRE Fire protection FIRE Fine protection FORD Grids	EVAC	Evacuation plan
FIRE Fire protection FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FURE Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems GRID Grids	EXHS	Exhaust system
FLHA Flood hazard area FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems GRID Grids	FENC	Fences
FLOR Floor FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems GRID Grids	FIRE	Fire protection
FNDN Foundation FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems GRID Grids	FLHA	Flood hazard area
FNSH Finishes FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems GRID Grids	FLOR	Floor
FRAM Braced frame or moment frame FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems GRID Grids	FNDN	Foundation
FSTN Fasteners and connections FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems GRID Grids	FNSH	Finishes
FUEL Fuel systems FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems GRID Grids	FRAM	Braced frame or moment frame
FUME Fume hood FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems GRID Grids	FSTN	Fasteners and connections
FURN Furnishings GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems GRID Grids	FUEL	Fuel systems
GAS~ Gas GATE Gate GLAZ Glazing GLYC Glycol systems GRID Grids	FUME	Fume hood
GATE Gate GLAZ Glazing GLYC Glycol systems GRID Grids	FURN	Furnishings
GLAZ Glazing GLYC Glycol systems GRID Grids	GAS~	Gas
GLYC Glycol systems GRID Grids	GATE	Gate
GRID Grids	GLAZ	Glazing
	GLYC	Glycol systems
GRLN Grade line	GRID	Grids
	GRLN	Grade line

GRND	Ground system
HALN	Halon
HWTR	Hot water heating system
HVAC	HVAC systems
HYDR	Hydraulic structure
IGAS	Inert gas
INGR	Ingrants
INST	Instrumentation system
INTC	Intercom / PA systems
IRRG	Irrigation
JNTS	Joints
JOIS	Joists
LAND	Land
LEGN	Legend, symbols keys
LEVE	Levee
LGAS	Laboratory gas systems
LIQD	Liquid
LITE	Lighting
LNTL	Lintels
LOCN	Limits of construction
LTNG	Lightning protection system
MACH	Machine shop
MAJQ	Major equipment
MDGS	Medical gas systems
MILL	Millwork
MINQ	Minor equipment
MKUP	Make-up air systems
MNTG	Mounting system
MPIP	Miscellaneous piping systems
NGAS	Natural gas systems
NODE	Node
NURS	Nurse call system
OBST	Obstructions
OIL~	Oil
OTGR	Outgrants
PADS	Pads
PERC	Perc testing
PGNG	Paging system
PHON	Telephone system
PIPE	Piping

POND Ponds POWR Powe PRKG Parkin PROC Proce	and landscape material s or ng lots ess systems ctor system
POND Ponds POWR Powe PRKG Parkin PROC Proce PROJ Project	ng lots ess systems ctor system
POWR Power PRKG Parkin PROC Proces	ng lots ess systems ctor system
PRKG Parkii PROC Proce PROJ Projec	ng lots ess systems ctor system
PROC Proce PROJ Projec	ess systems ctor system
PROJ Projec	ctor system
PROP Prope	erty
·	
PROT Fire p	protection system
PRTN Partiti	ions
PVMD Photo	ovoltaic modules
PVMT Paver	ment
RAIL Railro	pad
RAIR Relief	f air systems
RCOV Energ	gy recovery systems
REFG Refrig	geration systems
RIGG Riggin	ng / automation systems
RIVR River	
ROAD Road	ways
ROOF Roof	
RRAP Ripra	p
RUNW Runw	vay
RWAY Right	-of-way
SECT Section	on
SERT Secur	rity system
SGHT Sight	distance
SIGN Sign	
SITE Site for	eatures
SLAB Slab	
SLUR Slurry	
SMOK Smok	e extraction systems
SOIL Soils	
SOUN Sound	d system
SPCL Speci	al systems
SPFX Enter	tainment special effects system
SPKL Sprint	kler
SSWR Sanita	ary sewer
STEM Steam	n system
STIF Stiffer	ner

STRM	Storm sewer
STRS	Stairs
SURV	Survey
SWLK	Sidewalks
TEST	Test equipment
TILE	Tile
TINN	Triangulated irregular network
ТОРО	Topographic feature
TRAL	Trails or paths
TRAN	Transmission system
TRUS	Trusses
TVAN	Television antenna system
TVVS	Television and video system
UNID	Unidentified site objects
UTIL	Utilities
VACU	Vacuum
VIDO	Entertainment projection systems
WALL	Walls
WATR	Water supply
WETL	Wetlands
WIND	Wind powered
WWAY	Waterway

4.3 MINOR GROUPS

Minor Group Layer Name	Description
025Y	25-year mark
04FT	Four feet high
050Y	50-year mark
06FT	Six feet high
100Y	100-year mark
200Y	200-year mark
AA~~	Agitation air-system
ABLT	Anchor bolts
ABOV	Above
ABUT	Abutment
ACCS	Access
ACFU	Fused ac
ACTL	Aerial horizontal and vertical control points
ACNF	Unfused ac

AGGR	Exposed aggregate
AIR~	Air
ALOC	Allocation
ALRM	Alarm
ALUM	Aluminum
AMEX	Ammonia exhaust-system
AMW~	Ammonia waste-system
ANNN	Optional number (A = letter, NNN = number between 001 and 999)
ANNO	Annotation
ANOD	Sacrificial anode
AR~~	Argon-system
ARB~	Argon bulk-system
ARC~	Regenerative caustic-system
AREX	Arsenic exhaust-system
ASPH	Asphalt
BA~~	Breathable air-system
BACK	Back
BAFL	Baffle block and splash pad
BARR	Barrier
BASN	Stilling and settling basin
BBAC	Battery backup
BEDS	Perennial and annual beds
BENT	Top of bent
BFW~	Boiler feed water-system
BKRS	Breakers
BLBD	Boiler blow down piping
BLDG	Building points
BLIN	Baseline
BMRK	Benchmarks
BNDY	Boundary
BOLD	Bold lines
BORO	Borough
BOT1	Bottom group 1
BOT2	Bottom group 2
вотв	Bottom of bank
вотм	Bottom
BOXD	Mixing box, dual duct
BOXS	Mixing box, single duct
BRCK	Brick
BRDG	Bridge

BRGX	Bridging
BRKL	Break lines
BRNG	Bearings and distance labels
BROW	Brush row points
BRSH	Brush points
BUOY	Buoy
BUSH	Bushes and shrubs
BUSS	Bus duct
BUSW	Busways
BUT~	Butane-system
BWTR	Breakwater
C~~~	Caustic-system
CA~~	Compressed air-system
CABL	Cable
CAIR	Compressed air
CARS	Cars and other vehicles
CATV	Cable television
CAVI	Cavity
CBOX	Combiner box
CD~~	Condensate drain-system
CDA~	Clean dry air-system
CDFF	Ceiling diffusers
CHIM	Chimney
CIPR	Culvert inlet protection
CIRC	Circuits
CITY	City
CLAS	Classifications
CLDA	Cold air
CLG~	Chlorine gas-system
CLHD	Ceiling heads
CLNG	Ceiling
CLV~	Chlorine vacuum-system
CLW~	Concentrated lead waste-system
CMTL	Corrugated metal
CMUW	Concrete masonry unit
CMW~	Concentrated metals waste-system
CNDS	Condensate piping
CNDT	Diversionary/bypass conduit/culvert
CNMB	Circuit numbers
CNTE	Construction entrance

CNTR CNTY County COAX Coax cable COFF Coffer dam CONC Concrete CONI Coniferous trees CONS Conservation CORP Corporation COVR Coverage CPIP Cold water piping CRIT Critical CRKT Crickets CSTG Construction/Grading CSWK Casework CTLA Controlled access CTLJ Control joint CTNR Container or planter CUPW Copper plating waste-system CURR Impress current CURW CURW Copper slurry waste-system CUSW COPPER curve CURW Copper slurry waste-system CUSW COPPER chemical vacuum-system DACL De-Authorized channel limits, anchorages, etc. DAM- DAM DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK DECK DECK DECK DECK DECK DECK DECK	CNTJ	Construction joint
COAX Coax cable COFF Coffer dam CONC Concrete CONI Coniferous trees CONS Conservation CORP Corporation COVR Coverage CPIP Cold water piping CRIT Critical CSTG Construction/Grading CSWK Casework CTLA Controlled access CTLJ Control joint CTNR Container or planter CUPW Copper plating waste-system CURR CURR Impress current CURV CURR CURV CURV CURV CURV CURV CURV	CNTR	Center
COFF Coffer dam CONC Concrete CONI Coniferous trees CONS Conservation CORP Corporation COVR Coverage CPIP Cold water piping CRIT Critical CRKT Crickets CSTG Construction/Grading CSWK Casework CTLA Controlled access CTLJ Control joint CTNR Container or planter CUPW Copper plating waste-system CURB Curb CURR Impress current CURV Curve CURW Copper slurny waste-system CUSW Copper slurny waste-system CV Chemical vacuum-system DACL De-Authorized channel limits, anchorages, etc. DAM- Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV- Developer-system DEV- Developer-system DEV- Developer-system DEVC Devices DFEE Disposed fee DIAG Diagrams	CNTY	County
CONC CONI Coniferous trees CONS Conservation CORP Corporation COVR Coverage CPIP Cold water piping CRIT Critical CRKT Crickets CSTG Construction/Grading CSWK Casework CTLA Controlled access CTLJ Control joint CURR CUPW Copper plating waste-system CURB CURB CURC CURC CURC CURC CURC CURC	COAX	Coax cable
CONI Conferous trees CONS Conservation CORP Corporation COVR Coverage CPIP Cold water piping CRIT Critical CRKT Crickets CSTG Construction/Grading CSWK Casework CTLA Controlled access CTLJ Control joint CTNR Container or planter CUPW Copper plating waste-system CURB Curb CURR Impress current CURV Curve CURW Copper slurry waste-system CUSW Copper slurry waste-system CUSW Copper slurry waste-system DACL De-Authorized channel limits, anchorages, etc. DAM~ Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV~ Developer-system DEV~ Developer-system DEVC Devices DFEE Disposed fee DIAG Diagrams	COFF	Coffer dam
CONS CORP CORP Corporation COVR Coverage CPIP Cold water piping CRIT Critical CRKT Crickets CSTG Construction/Grading CSWK Casework CTLA Controlled access CTLJ Control joint CTNR Container or planter CUPW Copper plating waste-system CURB CURR Impress current CURV CURV Curve CURW Copper slurry waste-system CUSW COPPEr slurry waste-system DACL DAM~ DAM DASP Description attributes for survey points DATA Data DCFU Fused dc DDIV Drainage divides DECK DEVC DEVC DEVC DEVC DEVC DEVC DEVC DEVC	CONC	Concrete
CORP Corporation COVR Coverage CPIP Cold water piping CRIT Critical CRKT Crickets CSTG Construction/Grading CSWK Casework CTLA Control joint CTNR Container or planter CUPW Copper plating waste-system CURB Curb CURR Impress current CURV Curve CURW Copper surry waste-system CUSW Copper surry waste-system CUSW Copper surry waste-system CUSW Copper surry waste-system DACL De-Authorized channel limits, anchorages, etc. DAM~ Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV~ Developer-system DEVC Devices DFEE Disposed fee DIAG Diagrams	CONI	Coniferous trees
COVR Coverage CPIP Cold water piping CRIT Critical CRKT Crickets CSTG Construction/Grading CSWK Casework CTLA Controlled access CTLJ Control joint CTNR Container or planter CUPW Copper plating waste-system CURB Curb CURR Impress current CURV Curve CURW Copper rinse waste-system CURW Copper slurry waste-system CUSW Copper slurry waste-system CUSW Copper slurry baste-system CUSW Copper slurry baste-system CURW Copper slurry baste-system CURW Copper slurry baste-system CURW Copper slurry baste-system CUSW Copper slurry baste-system CUSW Copper slurry baste-system CUSW Copper slurry baste-system CURW Copper slurry baste-system DACL De-Authorized channel limits, anchorages, etc. DAM- Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DECK Deck DEPR Depression DEV- Developer-system DEV- Developer-system DEVC Devices DFEE Disposed fee DIAG Diagrams	CONS	Conservation
CPIP Cold water piping CRIT Critical CRKT Crickets CSTG Construction/Grading CSWK Casework CTLA Controlled access CTLJ Control joint CTNR Container or planter CUPW Copper plating waste-system CURB Curb CURR Impress current CURT Curtain CURV Curve CURW Copper slurry waste-system CUSW Copper slurry waste-system CV~~ Chemical vacuum-system DACL De-Authorized channel limits, anchorages, etc. DAM~ Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV~ Devices DFEE Disposed fee DIAG Diagrams	CORP	Corporation
CRIT Critical CRKT Crickets CSTG Construction/Grading CSWK Casework CTLA Controlled access CTLJ Control joint CTNR Container or planter CUPW Copper plating waste-system CURB Curb CURR Impress current CURT Curtain CURV Curve CURW Copper slurry waste-system CUSW Copper slurry waste-system CV~~ Chemical vacuum-system DACL De-Authorized channel limits, anchorages, etc. DAM~ Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV~ Devices DFEE Disposed fee DIAG Diagrams	COVR	Coverage
CRKT Crickets CSTG Construction/Grading CSWK Casework CTLA Controlled access CTLJ Control joint CTNR Container or planter CUPW Copper plating waste-system CURB Curb CURR Impress current CURV Curve CURW Copper rinse waste-system CURW Copper slurry waste-system CV~~ Chemical vacuum-system DACL De-Authorized channel limits, anchorages, etc. DAM~ Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DCNF Unfused dc DECK Deck DEPR Depression DEV~ Developer-system DEV~ Devices DFEE Disposed fee DIAG Diagrams	CPIP	Cold water piping
CSTG Construction/Grading CSWK Casework CTLA Controlled access CTLJ Control joint CTNR Container or planter CUPW Copper plating waste-system CURB Curb CURR Impress current CURT Curtain CURV Curve CURW Copper rinse waste-system CUSW Copper slurry waste-system CV~~ Chemical vacuum-system DACL De-Authorized channel limits, anchorages, etc. DAM~ Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV~ Developer-system DEVC Desposed fee DIAG Diagrams	CRIT	Critical
CSWK Casework CTLA Controlled access CTLJ Control joint CTNR Container or planter CUPW Copper plating waste-system CURB CURR Impress current CURV CURV CURV CURV CURW Copper rinse waste-system CUSW COpper slurry waste-system CV~~ Chemical vacuum-system DACL De-Authorized channel limits, anchorages, etc. DAM~ Dam DASP Description attributes for survey points DATA DATA DATA DATA DOFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK DECK DECK DECK DECK DECK DECK DECK	CRKT	Crickets
CTLA Controlled access CTLJ Control joint CTNR Container or planter CUPW Copper plating waste-system CURB Curb CURR Impress current CURV Curve CURW Copper rinse waste-system CUSW Copper slurry waste-system CUSW Copper slurry waste-system CV~~ Chemical vacuum-system DACL De-Authorized channel limits, anchorages, etc. DAM~ Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV~ Developer-system DEVC Devices DFEE Disposed fee DIAG Diagrams	CSTG	Construction/Grading
CTLJ Control joint CTNR Container or planter CUPW Copper plating waste-system CURB Curb CURR Impress current CURT Curtain CURV Curve CURW Copper rinse waste-system CUSW Copper slurry waste-system CV~~ Chemical vacuum-system DACL De-Authorized channel limits, anchorages, etc. DAM~ Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV~ Devices DFEE Disposed fee DIAG Diagrams	CSWK	Casework
CTNR Container or planter CUPW Copper plating waste-system CURB Curb CURR Impress current CURT Curtain CURV Curve CURW Copper rinse waste-system CUSW Copper slurry waste-system CV~~ Chemical vacuum-system DACL De-Authorized channel limits, anchorages, etc. DAM~ Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV~ Developer-system DEVC Devices DFEE Disposed fee DIAG Diagrams	CTLA	Controlled access
CUPW Copper plating waste-system CURB CURR Impress current CURT Curtain CURV Curve CURW Copper rinse waste-system CUSW Copper slurry waste-system CV~~ Chemical vacuum-system DACL De-Authorized channel limits, anchorages, etc. DAM~ DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK DECK DECK DEPR Depression DEV~ Developer-system DEVC Devices DFEE Disposed fee DIAG Diagrams	CTLJ	Control joint
CURR Impress current CURT Curtain CURV Curve CURW Copper rinse waste-system CUSW Copper slurry waste-system CV~~ Chemical vacuum-system DACL De-Authorized channel limits, anchorages, etc. DAM~ Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV~ Developer-system DEV~ Devices DFEE Disposed fee DIAG Diagrams	CTNR	Container or planter
CURT Curtain CURV Curve CURW Copper rinse waste-system CUSW Copper slurry waste-system CV~~ Chemical vacuum-system DACL De-Authorized channel limits, anchorages, etc. DAM~ Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV~ Developer-system DEVC Devices DFEE Disposed fee DIAG Diagrams	CUPW	Copper plating waste-system
CURV Curve CURW Copper rinse waste-system CUSW Copper slurry waste-system CV~~ Chemical vacuum-system DACL De-Authorized channel limits, anchorages, etc. DAM~ Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV~ Devices DFEE Disposed fee DIAG Diagrams	CURB	Curb
CURV Curve CURW Copper rinse waste-system CUSW Copper slurry waste-system CV~~ Chemical vacuum-system DACL De-Authorized channel limits, anchorages, etc. DAM~ Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV~ Devices DFEE Disposed fee DIAG Diagrams	CURR	Impress current
CURW Copper rinse waste-system CUSW Copper slurry waste-system CV~~ Chemical vacuum-system DACL De-Authorized channel limits, anchorages, etc. DAM~ Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV~ Developer-system DEVC Devices DFEE Disposed fee DIAG Diagrams	CURT	Curtain
CUSW Copper slurry waste-system CV~~ Chemical vacuum-system DACL De-Authorized channel limits, anchorages, etc. DAM~ Dam DASP Description attributes for survey points DATA DATA DATA DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK DEPR Depression DEV~ Developer-system DEVC DFE Disposed fee DIAG Diagrams	CURV	Curve
CV~~ Chemical vacuum-system DACL De-Authorized channel limits, anchorages, etc. DAM~ Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV~ Developer-system DEVC Devices DFEE Disposed fee DIAG Diagrams	CURW	Copper rinse waste-system
DACL De-Authorized channel limits, anchorages, etc. DAM~ Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK DECK DEPR Depression DEV~ Developer-system DEVC DFE Disposed fee DIAG Diagrams	CUSW	Copper slurry waste-system
DAM~ Dam DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV~ Developer-system DEVC Devices DFEE Disposed fee DIAG Diagrams	CV~~	Chemical vacuum-system
DASP Description attributes for survey points DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV~ Developer-system DEVC Devices DIAG Diagrams	DACL	De-Authorized channel limits, anchorages, etc.
DATA Data DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK DECK DEPR Depression DEV~ Developer-system DEVC DEVC Devices DFEE Disposed fee DIAG Diagrams	DAM~	Dam
DCFU Fused dc DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV~ Developer-system DEVC Devices DFEE Disposed fee DIAG Diagrams	DASP	Description attributes for survey points
DCNF Unfused dc DDIV Drainage divides DECK Deck DEPR Depression DEV~ Developer-system DEVC Devices DFEE Disposed fee DIAG Diagrams	DATA	Data
DDIV Drainage divides DECK Deck DEPR Depression DEV~ Developer-system DEVC Devices DFEE Disposed fee DIAG Diagrams	DCFU	Fused dc
DECK DEPR Depression DEV~ Developer-system DEVC Devices DFEE Disposed fee DIAG Diagrams	DCNF	Unfused dc
DEPR Depression DEV~ Developer-system DEVC Devices DFEE Disposed fee DIAG Diagrams	DDIV	Drainage divides
DEV~ Developer-system DEVC Devices DFEE Disposed fee DIAG Diagrams	DECK	Deck
DEVC Devices DFEE Disposed fee DIAG Diagrams	DEPR	Depression
DFEE Disposed fee DIAG Diagrams	DEV~	Developer-system
DIAG Diagrams	DEVC	Devices
	DFEE	Disposed fee
DIMS Dimensions	DIAG	Diagrams
	DIMS	Dimensions

DIRC DI reclaim-system DIS- De-lonized water supply-system DISC Discharge DIWP DI polishing loop-system DLPH Dolphin DLW- Dilute waste-system DMPR Fire, smoke, volume damper DOCK Decks, docks, floats, piers DOOR Equipment doors DRAN Drainage slope indications DRIP Drip irrigation tubing DRIV Driveway points DRNS Drains DSCO Disconnect switches DTCH Ditches or washes DUCT Ductwork DVDK Diversion dike DVDR Thin dividers EASP Elevation attributes for survey points EDGE Edge EDGR Planting bed edger EFAN Equipment with electric fans EG~ Ethylene glycol-system EGW~ Ethylene glycol-system EMER Emergency ENCL Equipment with piping, ductwork and electricity EPIP Equipment EQUI Equipment EXCR. Evergeen trace broadleaf. EV~ Equipment ENCR. Equipment ENCR. Equipment ENCR. Equipment ENCR. Equipment ENCR. Equipment EXCR. Eq	DIR~	De-Ionized water return-system
DISC Discharge DIWP DI polishing loop-system DLPH Dolphin DLW~ Dilute waste-system DMPR Fire, smoke, volume damper DOCK Decks, docks, floats, piers DOOR Equipment doors DRAN Drainage slope indications DRIP Drip irrigation tubing DRIV Driveway points DRNS Drains DSCO Disconnect switches DTCH Ditches or washes DUCT Ductwork DVDK Diversion dike DVDR Thin dividers EASP Elevation attributes for survey points EDGE Edge EDGR Planting bed edger EFAN Equipment with electric fans EG~ Ethylene glycol-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment with piping, ductwork and electricity EPIP Equipment EQMM Equipment EQMM Equipment EQMM Equipment EQMM Equipment EGMM Equipment with piping and electricity EQMM Equipment EQUI Equipment ESMT Easement EV~~ Equipment vacuum-system	DIRC	DI reclaim-system
DIWP DI polishing loop-system DLPH Dolphin DLW~ Dilute waste-system DMPR Fire, smoke, volume damper DOCK Decks, docks, floats, piers DOOR Equipment doors DRAN Drainage slope indications DRIP Drip irrigation tubing DRIV Driveway points DRNS Drains DSCO Disconnect switches DTCH Ditches or washes DUCT Ductwork DVDK Diversion dike DVDR Thin dividers EASP Elevation attributes for survey points EDGE Edge EDGR Planting bed edger EFAN Equipment with electric fans EG~ Ethylene glycol-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EQPM Equipment EQUI Equipment EASH Easement EV~~ Equipment vacuum-system	DIS~	De-lonized water supply-system
DLPH Dolphin DLW~ Dilute waste-system DMPR Fire, smoke, volume damper DOCK Decks, docks, floats, piers DOOR Equipment doors DRAN Drainage slope indications DRIP Drip irrigation tubing DRIV Driveway points DRNS Drains DSCO Disconnect switches DTCH Ditches or washes DUCT Ductwork DVDK Diversion dike DVDR Thin dividers EASP Elevation attributes for survey points EDGE Edge EDGR Planting bed edger EFAN Equipment with electric fans EG~ Ethylene glycol-system ELEC Electrical ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EQPM Equipment EQUI Equipment EASH Easement EV~~ Equipment ESMT Easement EV~~ Equipment vacuum-system	DISC	Discharge
DLW~ Dilute waste-system DMPR Fire, Smoke, volume damper DOCK Decks, docks, floats, piers DOOR Equipment doors DRAN Drainage slope indications DRIP Drip irrigation tubing DRIV Driveway points DRNS Drains DSCO Disconnect switches DTCH Ditches or washes DUCT Ductwork DVDK Diversion dike DVDR Thin dividers EASP Elevation attributes for survey points EDGE EDGR Planting bed edger EFAN Equipment with electric fans EG~ Ethylene glycol-system ELEC Electrical ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EQPM Equipment EQUI Equipment EQUI Equipment EASH Easement EX~ Equipment EASH Easement ESMT Easement EV~~ Equipment vacuum-system	DIWP	DI polishing loop-system
DMPR Fire, smoke, volume damper DOCK Decks, docks, floats, piers DOOR Equipment doors DRAN Drainage slope indications DRIP Drip irrigation tubing DRIV Driveway points DRNS Drains DSCO Disconnect switches DTCH Ditches or washes DUCT Ductwork DVDK Diversion dike DVDR Thin dividers EASP Elevation attributes for survey points EDGE Edge EDGR Planting bed edger EFAN Equipment with electric fans EG~~ Ethylene glycol-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment EQPM Equipment EQUI Equipment EASH Easement EV~~ Equipment each system ESMT Easement EV~~ Equipment vacuum-system	DLPH	Dolphin
DOCK Decks, docks, floats, piers DOOR Equipment doors DRAN Drainage slope indications DRIP Drip irrigation tubing DRIV Driveway points DRNS Drains DSCO Disconnect switches DTCH Ditches or washes DUCT Ductwork DVDK Diversion dike DVDR Thin dividers EASP Elevation attributes for survey points EDGE Edge EDGR Planting bed edger EFAN Equipment with electric fans EG~~ Ethylene glycol waste-system ELEC Electrical ELEV Elevation EMER Emergency ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment EQMM Equipment EQMM Equipment EQMM Equipment EASH Easement EX~~ Easement EV~~ Equipment vacuum-system	DLW~	Dilute waste-system
DOOR Equipment doors DRAN Drainage slope indications DRIP Drip irrigation tubing DRIV Driveway points DRNS Drains DSCO Disconnect switches DTCH Ditches or washes DUCT Ductwork DVDK Diversion dike DVDR Thin dividers EASP Elevation attributes for survey points EDGE Edge EDGR Planting bed edger EFAN Equipment with electric fans EG~ Ethylene glycol-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment with piping, ductwork and electricity EPIP Equipment EQUI Equipment ESMT Easement EV~ Equipment eaclosures Equipment eaclosures EASP Equipment with piping and electricity EASP Equipment eaclosures EQUI Equipment EASP Equipment eaclosures EQUI Equipment EASP Equipment EASP Edevation EASP Edevation EASP Edevation EASP Edupment with piping and electricity EQUI Equipment EASP Equipment EASP Equipment EASP Edupment Edupment EASP Edupment Edupment Edupment Edupment EASP Edupment Edupment Edupment Edupment Edupment Edupment EASP Edupment EASP Edupment Edupment Edupment Edupment Edupment	DMPR	Fire, smoke, volume damper
DRAN Drainage slope indications DRIP Drip irrigation tubing DRIV Driveway points DRNS Drains DSCO Disconnect switches DTCH Ditches or washes DUCT Ductwork DVDK Diversion dike DVDR Thin dividers EASP Elevation attributes for survey points EDGE Edge EDGR Planting bed edger EFAN Equipment with electric fans EG~ Ethylene glycol-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EQPM Equipment EQUI Equipment EATH Earth ESMT Easement EV~~ Equipment vacuum-system	DOCK	Decks, docks, floats, piers
DRIV Drip irrigation tubing DRIV Driveway points DRNS Drains DSCO Disconnect switches DTCH Ditches or washes DUCT Ductwork DVDK Diversion dike DVDR Thin dividers EASP Elevation attributes for survey points EDGE Edge EDGR Planting bed edger EFAN Equipment with electric fans EG~~ Ethylene glycol-system EGW~ Ethylene glycol waste-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment EQPM Equipment EQUI Equipment EATH Earth ESMT Easement EV~~ Equipment vacuum-system	DOOR	Equipment doors
DRNS Drains DSCO Disconnect switches DTCH Ditches or washes DUCT Ductwork DVDK Diversion dike DVDR Thin dividers EASP Elevation attributes for survey points EDGE Edge EDGR Planting bed edger EFAN Equipment with electric fans EG~~ Ethylene glycol-system EGW~ Ethylene glycol waste-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EQPM Equipment EQUI Equipment EATH Earth ESMT Easement EV~~ Equipment vacuum-system	DRAN	Drainage slope indications
DRNS Drains DSCO Disconnect switches DTCH Ditches or washes DUCT Ductwork DVDK Diversion dike DVDR Thin dividers EASP Elevation attributes for survey points EDGE Edge EDGR Planting bed edger EFAN Equipment with electric fans EG~~ Ethylene glycol-system EGW~ Ethylene glycol waste-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment EQUI Equipment EATH Earth ESMT Easement EV~~ Equipment vacuum-system	DRIP	Drip irrigation tubing
DSCO Disconnect switches DTCH Ditches or washes DUCT Ductwork DVDK Diversion dike DVDR Thin dividers EASP Elevation attributes for survey points EDGE EDGR Planting bed edger EFAN Equipment with electric fans EG~~ Ethylene glycol-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment EQUI Equipment EQUI Equipment EATH EARTH EARTH EARTH EASMT Easement EV~~ Equipment vacuum-system	DRIV	Driveway points
DTCH Ditches or washes DUCT Ductwork DVDK Diversion dike DVDR Thin dividers EASP Elevation attributes for survey points EDGE Edge EDGR Planting bed edger EFAN Equipment with electric fans EG~~ Ethylene glycol-system EGW~ Ethylene glycol waste-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment EQUI Equipment ESMT Easement EV~~ Equipment vacuum-system	DRNS	Drains
DUCT Ductwork DVDK Diversion dike DVDR Thin dividers EASP Elevation attributes for survey points EDGE Edge EDGR Planting bed edger EFAN Equipment with electric fans EG~~ Ethylene glycol-system EGW~ Ethylene glycol waste-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment EQUI Equipment EXTERNATE Eastem ESMT Easement EV~~ Equipment vacuum-system	DSCO	Disconnect switches
DVDK Diversion dike DVDR Thin dividers EASP Elevation attributes for survey points EDGE Edge EDGR Planting bed edger EFAN Equipment with electric fans EG~~ Ethylene glycol-system EGW~ Ethylene glycol waste-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment EQUI Equipment EATH Earth ESMT Easement EV~~ Equipment vacuum-system	DTCH	Ditches or washes
DVDR Thin dividers EASP Elevation attributes for survey points EDGE Edge EDGR Planting bed edger EFAN Equipment with electric fans EG~~ Ethylene glycol-system EGW~ Ethylene glycol waste-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment EQPM Equipment EQUI Equipotential ERTH Earth ESMT Easement EV~~ Equipment vacuum-system	DUCT	Ductwork
EASP Elevation attributes for survey points EDGE Edge EDGR Planting bed edger EFAN Equipment with electric fans EG~~ Ethylene glycol-system EGW~ Ethylene glycol waste-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment EQPM Equipment EQUI Equipment ESMT Easement EV~~ Equipment vacuum-system	DVDK	Diversion dike
EDGE Edge EDGR Planting bed edger EFAN Equipment with electric fans EG~~ Ethylene glycol-system EGW~ Ethylene glycol waste-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment EQUI Equipment ERTH Earth ESMT Easement EV~~ Equipment vacuum-system	DVDR	Thin dividers
EDGR Planting bed edger EFAN Equipment with electric fans EG~~ Ethylene glycol-system EGW~ Ethylene glycol waste-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment EQUI Equipment EQUI Equipment ESMT Easement EV~~ Equipment vacuum-system	EASP	Elevation attributes for survey points
EFAN Equipment with electric fans EG~~ Ethylene glycol-system EGW~ Ethylene glycol waste-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment EQUI Equipment EQUI Equipment ESMT Easement EV~~ Equipment vacuum-system	EDGE	Edge
EG~~ Ethylene glycol-system EGW~ Ethylene glycol waste-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment EQPM Equipment EQUI Equipment ESMT Easement EV~~ Equipment vacuum-system	EDGR	Planting bed edger
EGW~ Ethylene glycol waste-system ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment with piping and electricity EQPM Equipment EQUI Equipment ERTH Earth ESMT Easement EV~~ Equipment vacuum-system	EFAN	Equipment with electric fans
ELEC Electrical ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment with piping and electricity EQPM Equipment EQUI Equipotential ERTH Earth ESMT Easement EV~~ Equipment vacuum-system	EG~~	Ethylene glycol-system
ELEV Elevation EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment with piping and electricity EQPM Equipment EQUI Equipotential ERTH Earth ESMT Easement EV~~ Equipment vacuum-system	EGW~	Ethylene glycol waste-system
EMER Emergency ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment with piping and electricity EQPM Equipment EQUI Equipotential ERTH Earth ESMT Easement EV~~ Equipment vacuum-system	ELEC	Electrical
ENCL Equipment enclosures ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment with piping and electricity EQPM Equipment EQUI Equipotential ERTH Earth ESMT Easement EV~~ Equipment vacuum-system	ELEV	Elevation
ENGR Engineering Information EPDU Equipment with piping, ductwork and electricity EPIP Equipment with piping and electricity EQPM Equipment EQUI Equipotential ERTH Earth ESMT Easement EV~~ Equipment vacuum-system	EMER	Emergency
EPDU Equipment with piping, ductwork and electricity EPIP Equipment with piping and electricity EQPM Equipment EQUI Equipotential ERTH Earth ESMT Easement EV~~ Equipment vacuum-system	ENCL	Equipment enclosures
EPIP Equipment with piping and electricity EQPM Equipment EQUI Equipotential ERTH Earth ESMT Easement EV~~ Equipment vacuum-system	ENGR	Engineering Information
EQPM Equipment EQUI Equipotential ERTH Earth ESMT Easement EV~~ Equipment vacuum-system	EPDU	Equipment with piping, ductwork and electricity
EQUI Equipotential ERTH Earth ESMT Easement EV~~ Equipment vacuum-system	EPIP	Equipment with piping and electricity
ERTH Earth ESMT Easement EV~~ Equipment vacuum-system	EQPM	Equipment
ESMT Easement EV~~ Equipment vacuum-system	EQUI	Equipotential
EV~~ Equipment vacuum-system	ERTH	Earth
11-16	ESMT	Easement
EVCD Evergroop troop broadloof	EV~~	Equipment vacuum-system
Every lees broadlear	EVGR	Evergreen trees-broadleaf
EVTR Elevator cars and equipment	EVTR	Elevator cars and equipment
EWAT Edge of water	EWAT	Edge of water

EXIT Exit EXPJ Expansion joint EXTI Extinguishers EXTR Exterior FACE Face FALT Fault/break lines FDPL Flood plain FDTA Field data FEE~ Fee FEED Feeders FENC Fences FEND Fender FIBR Fiber optics cable FILE File cabinets FINE Fine lines	EXHS	Exhaust air
EXTI Extinguishers EXTR Exterior FACE Face FALT Fault/break lines FDPL Flood plain FDTA Field data FEE~ Fee FEED Feeders FENC Fences FEND Fender FIBR Fiber optics cable FILE Fill and cover material	EXIT	Exit
EXTR Exterior FACE Face FALT Fault/break lines FDPL Flood plain FDTA Field data FEE~ Fee FEED Feeders FENC Fences FEND Fender FIBR Fiber optics cable FILE File cabinets FILL Fall for the second	EXPJ	Expansion joint
FACE Face FALT Fault/break lines FDPL Flood plain FDTA Field data FEE~ Fee FEED Feeders FENC Fences FEND Fender FIBR Fiber optics cable FILE File cabinets FILL Fill and cover material	EXTI	Extinguishers
FALT Fault/break lines FDPL Flood plain FDTA Field data FEE~ Fee FEED Feeders FENC Fences FEND Fender FIBR Fiber optics cable FILE File cabinets FILL Fill and cover material	EXTR	Exterior
FDPL Flood plain FDTA Field data FEE~ Fee FEED Feeders FENC Fences FEND Fender FIBR Fiber optics cable FILE File cabinets FILL Fill and cover material	FACE	Face
FDTA Field data FEE~ Fee FEED Feeders FENC Fences FEND Fender FIBR Fiber optics cable FILE File cabinets FILL Fill and cover material	FALT	Fault/break lines
FEE~ Fee FEED Feeders FENC Fences FEND Fender FIBR Fiber optics cable FILE File cabinets FILL Fill and cover material	FDPL	Flood plain
FEED Feeders FENC Fences FEND Fender FIBR Fiber optics cable FILE File cabinets FILL Fill and cover material	FDTA	Field data
FENC Fences FEND Fender FIBR Fiber optics cable FILE File cabinets FILL Fill and cover material	FEE~	Fee
FEND Fender FIBR Fiber optics cable FILE File cabinets FILL Fill and cover material	FEED	Feeders
FIBR Fiber optics cable FILE File cabinets FILL Fill and cover material	FENC	Fences
FILE File cabinets FILL Fill and cover material	FEND	Fender
FILL Fill and cover material	FIBR	Fiber optics cable
	FILE	File cabinets
FINE Fine lines	FILL	Fill and cover material
	FINE	Fine lines
FIRE Fire protection	FIRE	Fire protection
FISH Fish ladder/passage	FISH	Fish ladder/passage
FIXD Fixed	FIXD	Fixed
FIXT Fixtures	FIXT	Fixtures
FLDR Floor drains	FLDR	Floor drains
FLLW Flow	FLLW	Flow
FLNE Fire lane	FLNE	Fire lane
FLOR Floor	FLOR	Floor
FLOW Flowline	FLOW	Flowline
FLPL Flagpole	FLPL	Flagpole
FLUM Flume	FLUM	Flume
FLYS Fly station	FLYS	Fly station
FNSH Finishes	FNSH	Finishes
FORC Force main	FORC	Force main
FREE Freestanding	FREE	Freestanding
FRMG Framing	FRMG	Framing
FTNG Footings	FTNG	Footings
FTPT Area footprints	FTPT	Area footprints
FULL Full-height	FULL	Full-height
FURN Furnishings	FURN	Furnishings
FW~~ Fire water-system	FW~~	Fire water-system
GAGE Gauge	GAGE	Gauge
GCVR Ground cover	GCVR	Ground cover

GGEP Gas general piping GLAZ Glazing GNDW Ground water GPRP Gas process piping GRAL Guard rail GRBM Grade beams GRID Grid GRIL Grilles GRND Ground GRTG Grating GRVL Gravel H2~~ Hydrogen-system H2O2 Hydrogen peroxide-system	
GNDW Ground water GPRP Gas process piping GRAL Guard rail GRBM Grade beams GRID Grid GRIL Grilles GRND Ground GRTG Grating GRVL Gravel H2~~ Hydrogen-system	
GPRP Gas process piping GRAL Guard rail GRBM Grade beams GRID Grid GRIL Grilles GRND Ground GRTG Grating GRVL Gravel H2~~ Hydrogen-system	
GRAL Guard rail GRBM Grade beams GRID Grid GRIL Grilles GRND Ground GRTG Grating GRVL Gravel H2~~ Hydrogen-system	
GRBM Grade beams GRID Grid GRIL Grilles GRND Ground GRTG Grating GRVL Gravel H2~~ Hydrogen-system	
GRID Grid GRIL Grilles GRND Ground GRTG Grating GRVL Gravel H2~~ Hydrogen-system	
GRIL Grilles GRND Ground GRTG Grating GRVL Gravel H2~~ Hydrogen-system	
GRND Ground GRTG Grating GRVL Gravel H2~~ Hydrogen-system	
GRTG Grating GRVL Gravel H2~~ Hydrogen-system	
GRVL Gravel H2~~ Hydrogen-system	
H2~~ Hydrogen-system	
H2O2 Hvdrogen peroxide-system	
HCDA High pressure clean dry air-system	
HCL~ Hydrochloric acid-system	
HDIR Hot DI return-system	
HDIS Hot DI supply-system	
HDLN Hidden line	
HDRC Hot DI reclaim-system	
HE~~ Helium-system	
HEAD Door and window headers	
HF~~ Hydrofluoric acid-system	
HFW~ Hydrofluoric waste-system	
HIDD Objects or lines hidden from view	
HOLE Holes	
HORZ Horizontal	
HOSE Hoses	
HOTA Hot air	
HPDR High pH DI return-system	
HPDS High pH DI supply-system	
HPIP Hot water/high-pressure piping	
HPN2 High purity nitrogen-system	
HPO2 High purity oxygen-system	
HRAL Handrails/guard rails	
HRDW Hardware	
HSSS Hollow structural steel	
HTCH Hatch	
HTEX Heat exhaust-system	
HV~~ House vacuum-system	

HVA~	Arsenic house vacuum-system
HVAC	HVAC systems
HVPT	Horizontal/vertical
HWAL	Headwall
HYDT	Hydrants and connections
IA~~	Instrument air-system
ICW~	Industrial city water-system
IDEN	Identification tags
INEG	Ingress/egress
INPR	Inlet protection
INST	Instrumentation
INTK	Intake
INTR	Interior
IPA~	Isopropyl alcohol-system
IW~~	Industrial waste-system
JACK	Jacks
JAMB	Door and window jambs
JBOX	Junction box
JNTC	Control joint
JNTE	Expansion joint
KEYN	Keynotes
LABL	Labels
LADD	Ladders and ladder assemblies
LATL	Lateral line
LCHE	Leak check helium-system
LDTA	Laboratory data
LEAS	Lease
LEGN	Legend, symbol keys
LEVL	Level changes
LFEE	Disposed less than fee
LICN	License
LIMI	Limit of earthwork
LINE	Lines
LINK	Chain link
LMTA	Limited access
LO~~	Lube oil-system
LOGO	Company logo
LONG	Longitudinal
LOWR	Lower
LPG~	Liquid petroleum gas-system

	Low-pressure piping
LQPG	Liquid petroleum gas
LSCP	Landscape
LTRL	Lateral pipe
MAIN	Mainline
MAJR	Major
MARK	Markers, break marks, leaders
MATC	Match lines
MBND	Material beyond cut
MCUT	Material cut by the view
MEDM	Medium lines
MESH	Mesh or wire
METL	Metal
MHOL	Manhole
MINR	Minor
MISC	Miscellaneous
MKUP	Make-up water
MLCH	Mulches-organic and inorganic
MNTG	Mounting system
MOOR	Mooring
MOVE	Movable
MPIP	Medium-pressure piping
MRKG	Pavement markings
MRKR	Marker
MSNW	Masonry
MULT	Multi-conductor cable
MVNG	Moving/Suspended
MW~~	Metals waste-system
N2~~	Nitrogen-system
N2O~	Nitrous oxide-system
NAID	Navigation aids
NATL	National
NFEE	Non-fee
NG~~	Natural gas-system
NGAS	Natural gas line
NITG	Nitrogen
NOTE	Notes
NOVR	Non-overflow structure
NOXG	Nitrous oxide
NPLT	Non-plotting graphic information

NPW~	Non-potable water-system
NPWR	Non-potable water reuse-system
NSBR	Noise barrier
O2~~	Oxygen-system
OA~~	Outside air-system
OBJT	Objects
OCCP	Occupant or employee names
ODFF	Other diffusers
OFA~	Oil-free air-system
OFST	Offset zones
OGEP	Oil general piping
OIW~	Organic industrial waste-system
OLW~	Organic liquid waste-system
OPNG	Openings
OPNX	Opening indication
OPRP	Oil process piping
OSW~	Organic solvent waste-system
OTHD	Other heads
OTLN	Outline
OVHD	Overhead
OXYG	Pure O2
PA~~	Plant air-system
PADM	Pad-mounted
PADS	Pads
PALM	Palm trees
PANL	Panels
PASP	Point number attributes for survey points
PATT	Texture or hatch patterns
PAVR	Unit pavers
PCAP	Pile caps
PCST	Pre-cast concrete
PCWR	Cooling water return-system
PCWS	Cooling water supply-system
PENE	Penetrations
PENS	Penstock
PEQP	Process equipment
PERI	Perimeter
PERM	Permanent
PHON	Telephone line
PHOS	Phosphoric acid-system

PIER Drilled piers PILE Piles PIPE Piping PLAY Play structures PLNT Plants PLYW Plywood PMIT Permit PNHS Penthouse PNLS System panels PNPT Panel points POCC Point of common coupling POI~ Poles POLE Poles POLM Pole-mounted POND Retention pond POOL Pools and spas POST Posts Process piping	
PIPE Piping PLAY Play structures PLNT Plants PLYW Plywood PMIT Permit PNHS Penthouse PNLS System panels PNPT Panel points POCC Point of common coupling POI~ Poles POLE Poles POND Retention pond POOL Pools and spas POST Posts	
PLAY Play structures PLNT Plants PLYW Plywood PMIT Permit PNHS Penthouse PNLS System panels PNPT Panel points POCC Point of common coupling POI~ Poles POLE Poles POLM Pole-mounted POND Retention pond POOL Pools and spas POST Posts	
PLYW Plywood PMIT Permit PNHS Penthouse PNLS System panels PNPT Panel points POCC Point of common coupling POI~ Point of interconnection POLE Poles POLM Pole-mounted POND Retention pond POOL Pools and spas POST Posts	
PLYW Plywood PMIT Permit PNHS Penthouse PNLS System panels PNPT Panel points POCC Point of common coupling POI~ Point of interconnection POLE Poles POLM Pole-mounted POND Retention pond POOL Pools and spas POST Posts	
PMIT Permit PNHS Penthouse PNLS System panels PNPT Panel points POCC Point of common coupling POI~ Point of interconnection POLE Poles POLM Pole-mounted POND Retention pond POOL Pools and spas POST Posts	
PNHS Penthouse PNLS System panels PNPT Panel points POCC Point of common coupling POI~ Point of interconnection POLE Poles POLM Pole-mounted POND Retention pond POOL Pools and spas POST Posts	
PNLS System panels PNPT Panel points POCC Point of common coupling POI~ Point of interconnection POLE Poles POLM Pole-mounted POND Retention pond POOL Pools and spas POST Posts	
PNPT Panel points POCC Point of common coupling POI~ Point of interconnection POLE Poles POLM Pole-mounted POND Retention pond POOL Pools and spas POST Posts	
POCC Point of common coupling POI~ Point of interconnection POLE Poles POLM Pole-mounted POND Retention pond POOL Pools and spas POST Posts	
POI~ Point of interconnection POLE Poles POLM Pole-mounted POND Retention pond POOL Pools and spas POST Posts	
POLE Poles POLM Pole-mounted POND Retention pond POOL Pools and spas POST Posts	
POLM Pole-mounted POND Retention pond POOL Pools and spas POST Posts	
POND Retention pond POOL Pools and spas POST Posts	
POOL Pools and spas POST Posts	
POST Posts	
PPIP Process piping	
PRCH Porch	
PRCL Parcels	
PRHT Partial-height	
PRIM Primary	
PRKG Parking	
PRO~ Propane-system	
PROF Profile	
PROS Date/time/file name stamp	
PROV Province	
PRPT Parapet	
PRVC Privacy	
PSW~ Photo solvent waste-system	
PV~~ Vacuum-system	
PVMT Pavement	
PW~~ Potable water-system	
QTRS Quarter section	
RAIS Raised	
RAMP Accessible ramp	
RATE Ratings	
RBAR Reinforcing bar	
RCON Reinforced concrete	

RDFF	Return air diffusers
RDGE	Roof ridges
RDME	Read-me layer (not plotted)
REDL	Redlines
REFR	Reference, external files
RER~	Solvent-system
RETN	Return
REVC	Revision clouds
REVS	Revision indicators and text
RFDR	Roof drains
RFEQ	Rooftop equipment
RISR	Risers
RO~~	Reverse osmosis water-system
ROAD	Roadway
ROCK	Large rocks and rock outcroppings
ROOF	Roof
ROR~	Reverse osmosis reject water-system
RPIP	Recirculation piping
RRAP	Riprap
RSCH	Sketch line round or oval duct
RSRV	Reservation
RTWL	Retaining wall
RWAY	Right-of-way
SAIR	Scavenge air
SATD	Satillite dishes
SAUD	Audio signal
SBCK	Setback lines
SBST	Substations
SCEX	Scrubber exhaust-system
SCHD	Schedules
SCOM	Communications signal
SCTL	Control signal
SDAT	Data signal
SDD~	Scrubber duct drains-system
SDFF	Supply diffusers
SDGA	Digital audio signal
SDGV	Digital video signal
SEAT	Seating
SECD	Secondary
SECT	Section

SG~~ Specialty gas-system SGHT Sight distance SHAD Shadow area SHEA Structural bearing or shear walls SHLF Wall-mounted shelving SIGN Signage SILL Window sills SILT Silt fence SIZE Ductwork size SKCH Sketch SKLT Skylight SLR~ Slurry return-system SLS- Slurry supply-system SLVE Pipe sleeve SLW- Slurry waste-system SMIC Microphone signal SMOK Smoke detector/heat sensors SOUN Soundings SPCL Specialispecialties SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRGB RGB and component video signal SRGCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Syno Signal STAN Stationling STAT State STEP Steps STEL Steel STEP Steps STIMP Professional stamp STOR Structures STRM Storm Sewer	SEED	Seeding areas
SHAD Shadow area SHEA Structural bearing or shear walls SHLF Wall-mounted shelving SIGN Signage SILL Window sills SILT Silt fence SIZE Ductwork size SKCH Sketch SKLT Skylight SLR- Silurry return-system SLS- Silury supply-system SLVE Pipe sleeve SLW- Slurry waste-system SMIC Microphone signal SMOK Smoke detector/heat sensors SOUN Soundings SPCL Special/specialties SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRGB RGB and component video signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STEL Steel STEP Steps STIP Sports Steel STEP Steps STIP Professional stamp STOR Storage STRC Structures	SG~~	Specialty gas-system
SHEA Structural bearing or shear walls SHLF Wall-mounted shelving SIGN Signage SILL Window sills SILT Silt fence SIZE Ductwork size SKCH Sketch SKLT Skylight SLR~ Slurry return-system SLS~ Slurry supply-system SLVE Pipe sleeve SLW~ Slurry waste-system SMIC Microphone signal SMOK Smoke detector/heat sensors SOUN Soundings SPCL Special/specialties SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN State STEY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SGHT	Sight distance
SHLF Wall-mounted shelving SIGN Signage SILL Window sills SILT Silt fence SIZE Ductwork size SKCH Sketch SKLT Skylight SLR~ Slurry return-system SLS~ Slurry supply-system SLVE Pipe sleeve SLW~ Slurry waste-system SMIC Microphone signal SMOK Smoke detector/heat sensors SOUN Soundings SPCL Special/specialties SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN State STEY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STOR Storage STRC Structures	SHAD	Shadow area
SIGN Signage SILL Window sills SILT Silt fence SIZE Ductwork size SKCH Sketch SKLT Skylight SLR~ Slurry return-system SLS~ Slurry supply-system SLVE Pipe sleeve SLW~ Slurry waste-system SMIC Microphone signal SMOK Smoke detector/heat sensors SOUN Soundings SPCL Special/specialties SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRGB RGB and component video signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STEY Steps STMP Professional stamp STOR Storage STRC Structures	SHEA	Structural bearing or shear walls
SILL Window sills SILT Silt fence SIZE Ductwork size SKCH Sketch SKLT Skylight SLR- Slurry return-system SLS- Slurry supply-system SLVE Pipe sleeve SLW- Slurry waste-system SMIC Microphone signal SMOK Smoke detector/heat sensors SOUN Soundings SPCL Special/specialties SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAT State STEY Steps STMP Professional stamp STOR Storage STRC Structures	SHLF	Wall-mounted shelving
SILT Silt fence SIZE Ductwork size SKCH Sketch SKLT Skylight SLR- Slurry return-system SLS- Slurry supply-system SLVE Pipe sleeve SLW- Siurry waste-system SMIC Microphone signal SMOK Smoke detector/heat sensors SOUN Soundings SPCL Special/specialties SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STEP Steps STMP Professional stamp STOR Storage STRC Structures	SIGN	Signage
SIZE Ductwork size SKCH Sketch SKLT Skylight SLR~ Slurry return-system SLS~ Slurry supply-system SLVE Pipe sleeve SLW~ Slurry waste-system SMIC Microphone signal SMOK Smoke detector/heat sensors SOUN Soundings SPCL Special/specialties SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRFI RF signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STEY Steps STMP Professional stamp STOR Storage STRC Structures	SILL	Window sills
SKCH Sketch SKLT Skylight SLR~ Slurry return-system SLS~ Slurry supply-system SLVE Pipe sleeve SLW~ Slurry waste-system SMIC Microphone signal SMOK Smoke detector/heat sensors SOUN Soundings SPCL Special/specialties SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRFI RF signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SILT	Silt fence
SKLT Skylight SLR~ Slurry return-system SLS~ Slurry supply-system SLVE Pipe sleeve SLW~ Slurry waste-system SMIC Microphone signal SMOK Smoke detector/heat sensors SOUN Soundings SPCL Special/specialties SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRFI RF signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SIZE	Ductwork size
SLR~ Slurry return-system SLS~ Slurry supply-system SLVE Pipe sleeve SLW~ Slurry waste-system SMIC Microphone signal SMOK Smoke detector/heat sensors SOUN Soundings SPCL Special/specialties SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRFI RF signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SKCH	Sketch
SLS~ Slurry supply-system SLVE Pipe sleeve SLW~ Slurry waste-system SMIC Microphone signal SMOK Smoke detector/heat sensors SOUN Soundings SPCL Special/specialties SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRFI RF signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SKLT	Skylight
SLVE Pipe sleeve SLW~ Slurry waste-system SMIC Microphone signal SMOK Smoke detector/heat sensors SOUN Soundings SPCL Special/specialties SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRFI RF signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SLR~	Slurry return-system
SLW~ Slurry waste-system SMIC Microphone signal SMOK Smoke detector/heat sensors SOUN Soundings SPCL Special/specialties SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRFI RF signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SLS~	Slurry supply-system
SMIC Microphone signal SMOK Smoke detector/heat sensors SOUN Soundings SPCL Special/specialties SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRFI RF signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SLVE	Pipe sleeve
SMOK Smoke detector/heat sensors SOUN Soundings SPCL Special/specialties SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRFI RF signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Steel STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SLW~	Slurry waste-system
SOUN Soundings SPCL Special/specialties SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRFI RF signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SMIC	Microphone signal
SPCL Special/specialties SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRFI RF signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SMOK	Smoke detector/heat sensors
SPKL Sprinklers SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRFI RF signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SOUN	Soundings
SPLY Supply SPOT Spot elevations SPRT Sports fields SPWR Power signal SRFI RF signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SPCL	Special/specialties
SPOT Spot elevations SPRT Sports fields SPWR Power signal SRFI RF signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SPKL	Sprinklers
SPRT Sports fields SPWR Power signal SRFI RF signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SPLY	Supply
SPWR Power signal SRFI RF signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SPOT	Spot elevations
SRFI RF signal SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SPRT	Sports fields
SRGB RGB and component video signal SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SPWR	Power signal
SSCH Sketch line rectangular duct SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SRFI	RF signal
SSLT Super silt fence SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Structures	SRGB	RGB and component video signal
SSWR Sanitary sewer SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SSCH	Sketch line rectangular duct
SSYN Sync signal STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SSLT	Super silt fence
STAN Stationing STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SSWR	Sanitary sewer
STAT State STBY Standby STEL Steel STEP Steps STMP Professional stamp STOR Storage STRC Structures	SSYN	Sync signal
STBYStandbySTELSteelSTEPStepsSTMPProfessional stampSTORStorageSTRCStructures	STAN	Stationing
STELSteelSTEPStepsSTMPProfessional stampSTORStorageSTRCStructures	STAT	State
STEPStepsSTMPProfessional stampSTORStorageSTRCStructures	STBY	Standby
STMP Professional stamp STOR Storage STRC Structures	STEL	Steel
STOR Storage STRC Structures	STEP	Steps
STRC Structures	STMP	Professional stamp
	STOR	Storage
STRM Storm Sewer	STRC	Structures
	STRM	Storm Sewer

STRS Stair treads SUBA Cabinet sub-assemblies, drawer boxes SUBD Subdivision (interior) lines SUBS Sub-surface areas SULF Sulfuric acid reclaim-system SULR Sulfuric acid reclaim-system SULR Sulfuric acid reclaim-system SURF Surface areas SUSP Suspended elements SVEX Solvent exhaust-system SVID Video signal SW Solvent waste-system SWAY Spillway SWBD Switchboards SWCH Switches SWF Solvent waste flammable-system SWLK Sidewalks SWMT Storm water management SWNF Solvent waste non-flammable-system SXTS Sixteenth section SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TEES Main tees TEES Main tees TEES Main tees TEES Test stations TEXT Text THER Thermostats TITL Drawing or detail titles TMAH TMAH-system TOP Top TOP- Top group 1 TOP2 Top group 2 TOPB Top of bank TOWR Towers	STRP	Striping
SUBD Subdivision (interior) lines SUBS Sub-surface areas SULF Sulfuric acid-system SULR Sulfuric acid reclaim-system SUPT Support SURF Surface areas SUSP Suspended elements SVEX Solvent exhaust-system SVID Video signal SW~~ Solvent waste-system SWAY Spillway SWBD Switchboards SWCH Switches SWF~ Solvent waste flammable-system SWIK Sidewalks SWMT Storm water management SWNF Solvent waste non-flammable-system SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text There Themostats TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP- Top TOP- Top TOP Top of bank	STRS	Stair treads
SUBS Sub-surface areas SULF Sulfuric acid-system SULR Sulfuric acid-system SUPT Support SURF Surface areas SUSP Suspended elements SVEX Solvent exhaust-system SVID Video signal SW~- Solvent waste-system SWAY Spillway SWBD Switchboards SWCH Switches SWF~ Solvent waste flammable-system SWILK Sidewalks SWMT Storm water management SWNF Solvent waste non-flammable-system SXTS Sixteenth section SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP- Top TOP- Top TOP- Top Gop of bank	SUBA	Cabinet sub-assemblies, drawer boxes
SULF Sulfuric acid-system SULR Sulfuric acid reclaim-system SUPT Support SURF Surface areas SUSP Suspended elements SVEX Solvent exhaust-system SVID Video signal SW~~ Solvent waste-system SWAY Spillway SWBD Switchboards SWCH Switches SWF~ Solvent waste flammable-system SWIKK Sidewalks SWMT Storm water management SWNF Solvent waste non-flammable-system SXTS Sixteenth section SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TIDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP- Top TOP- Top TOP- Top Top of bank	SUBD	Subdivision (interior) lines
SULR Sulfuric acid reclaim-system SUPT Support SURF Surface areas SUSP Suspended elements SVEX Solvent exhaust-system SVID Video signal SW~~ Solvent waste-system SWAY Spillway SWBD Switchboards SWCH Switches SWF~ Solvent waste flammable-system SWLK Sidewalks SWMT Storm water management SWNF Solvent waste non-flammable-system SXTS Sixteenth section SYMB Reference symbols TABL Data tables TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 2 TOPB Top fo bank	SUBS	Sub-surface areas
SUPT Support SURF Surface areas SUSP Suspended elements SVEX Solvent exhaust-system SVID Video signal SW~~ Solvent waste-system SWAY Spillway SWBD Switchboards SWCH Switches SWF~ Solvent waste flammable-system SWLK Sidewalks SWMT Storm water management SWNF Solvent waste non-flammable-system SXTS Sixteenth section SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 2 TOP2 Top group 2 TOPB Top of bank	SULF	Sulfuric acid-system
SURF Surface areas SUSP Suspended elements SVEX Solvent exhaust-system SVID Video signal SW~~ Solvent waste-system SWAY Spillway SWBD Switchboards SWCH Switches SWF~ Solvent waste flammable-system SWLK Sidewalks SWMT Storm water management SWNF Solvent waste non-flammable-system SXTS Sixteenth section SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 2 TOPB Top of bank	SULR	Sulfuric acid reclaim-system
SUSP Suspended elements SVEX Solvent exhaust-system SVID Video signal SW~~ Solvent waste-system SWAY Spillway SWBD Switchboards SWCH Switches SWF~ Solvent waste flammable-system SWLK Sidewalks SWMT Storm water management SWNF Solvent waste non-flammable-system SXTS Sixteenth section SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 2 TOP5 Top of bank	SUPT	Support
SVEX Solvent exhaust-system SVID Video signal SW~~ Solvent waste-system SWAY Spillway SWBD Switchboards SWCH Switches SWF~ Solvent waste flammable-system SWLK Sidewalks SWMT Storm water management SWNF Solvent waste non-flammable-system SXTS Sixteenth section SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 2 TOPB Top of bank	SURF	Surface areas
SVID Video signal SW~~ Solvent waste-system SWAY Spillway SWBD Switchboards SWCH Switches SWF~ Solvent waste flammable-system SWLK Sidewalks SWMT Storm water management SWNF Solvent waste non-flammable-system SXTS Sixteenth section SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 1 TOP2 Top group 2 TOPB Top of bank	SUSP	Suspended elements
SW-~ Solvent waste-system SWAY Spillway SWBD Switchboards SWCH Switches SWF~ Solvent waste flammable-system SWLK Sidewalks SWMT Storm water management SWNF Solvent waste non-flammable-system SXTS Sixteenth section SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP- Top TOP1 Top group 1 TOP2 Top group 2 TOPB Top of bank	SVEX	Solvent exhaust-system
SWAY Spillway SWBD Switchboards SWCH Switches SWF~ Solvent waste flammable-system SWLK Sidewalks SWMT Storm water management SWNF Solvent waste non-flammable-system SXTS Sixteenth section SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 1 TOP2 Top group 2 TOPB Top of bank	SVID	Video signal
SWBD Switchboards SWCH Switches SWF~ Solvent waste flammable-system SWLK Sidewalks SWMT Storm water management SWNF Solvent waste non-flammable-system SXTS Sixteenth section SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH STOPP Top group 2 TOPB Top of bank	SW~~	Solvent waste-system
SWCH Switches SWF~ Solvent waste flammable-system SWLK Sidewalks SWMT Storm water management SWNF Solvent waste non-flammable-system SXTS Sixteenth section SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH SMAH-system TOP- Top TOP1 Top group 2 TOPB Top of bank	SWAY	Spillway
SWF~ Solvent waste flammable-system SWLK Sidewalks SWMT Storm water management SWNF Solvent waste non-flammable-system SXTS Sixteenth section SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 2 TOPB Top of bank	SWBD	Switchboards
SWLK Sidewalks SWMT Storm water management SWNF Solvent waste non-flammable-system SXTS Sixteenth section SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top group 1 TOP2 Top group 2 TOPB Top of bank	SWCH	Switches
SWMT Storm water management SWNF Solvent waste non-flammable-system SXTS Sixteenth section SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 2 TOPB Top of bank	SWF~	Solvent waste flammable-system
SWNF Solvent waste non-flammable-system SXTS Sixteenth section SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP2 Top group 2 TOPB Top of bank	SWLK	Sidewalks
SXTS Sixteenth section SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 1 TOP2 Top of bank	SWMT	Storm water management
SYMB Reference symbols TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP- TOP Top group 1 TOP2 Top group 2 TOPB Top of bank	SWNF	Solvent waste non-flammable-system
TABL Data tables TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 1 TOP2 Top group 2 TOPB Top of bank	SXTS	Sixteenth section
TAKE Taking lines TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 1 TOP2 Top group 2 TOPB Top of bank	SYMB	Reference symbols
TANK Storage tanks TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 1 TOP2 Top group 2 TOPB Top of bank	TABL	Data tables
TDIR Tempered DI return-system TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 1 TOP2 Top group 2 TOPB Top of bank	TAKE	Taking lines
TDIS Tempered DI supply-system TEES Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 1 TOP2 Top group 2 TOPB Top of bank	TANK	Storage tanks
TESS Main tees TEMP Temporary TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 1 TOP2 Top group 2 TOPB Top of bank	TDIR	Tempered DI return-system
TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 1 TOP2 Top group 2 TOPB Top of bank	TDIS	Tempered DI supply-system
TEST Test stations TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 1 TOP2 Top group 2 TOPB Top of bank	TEES	Main tees
TEXT Text THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 1 TOP2 Top group 2 TOPB Top of bank	TEMP	Temporary
THER Thermostats TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 1 TOP2 Top group 2 TOPB Top of bank	TEST	Test stations
TICK Tick marks TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 1 TOP2 Top group 2 TOPB Top of bank	TEXT	Text
TITL Drawing or detail titles TMAH TMAH-system TOP~ Top TOP1 Top group 1 TOP2 Top group 2 TOPB Top of bank	THER	Thermostats
TMAH TMAH-system TOP~ Top TOP1 Top group 1 TOP2 Top group 2 TOPB Top of bank	TICK	Tick marks
TOP~ Top TOP1 Top group 1 TOP2 Top group 2 TOPB Top of bank	TITL	Drawing or detail titles
TOP1 Top group 1 TOP2 Top group 2 TOPB Top of bank	TMAH	TMAH-system
TOP2 Top group 2 TOPB Top of bank	TOP~	Тор
TOPB Top of bank	TOP1	Top group 1
	TOP2	Top group 2
TOWR Towers	ТОРВ	Top of bank
	TOWR	Towers

TPIT	Test pits
TPTN	Toilet partitions
TRAC	Tract lines
TRAK	Track
TRAL	Trail or path
TRAV	Transverse
TRAY	Cabletray and wireways
TREE	Trees
TROW	Tree row
TSHP	Town or township
TTLB	Border and titleblock
TURF	Lawn areas
TW~~	Tempered water-system
UCPT	Under-carpet wiring
UCTR	Under counter
UN2~	Utility nitrogen-system
UGND	Underground
UPPR	Upper
UPRW	Ultra-pure recycle water-system
UPS~	Uninterruptible power supply
UPVD	Unpaved surface
UPW~	Ultra-pure water-system
URAC	Under-floor raceways
UTIL	Utility lines
V~~~	Vent-system
VACU	Vacuum
VALV	Valves
VEGE	Trees, shrubs, and other vegetation
VENR	Veneer
VENT	Vents
VERT	Vertical
VIEW	Triangulation view
VINE	Vines
VN2~	Venturi nitrogen-system
VOID	Void regions
W2XS	Dimension lumber
WALL	Wall
WAR~	Weld argon-system
WATR	Water supply
WDWK	Architectural woodwork

WEIR	Pool weir
WELL	Well
WHIT	White paint
WIRE	Wiring
WKSF	Worksurface
WOOD	Wood
XFMR	Transformers
XTRU	Extrusion
YELO	Yellow paint
ZONE	Zoning

4.4 STATUS FIELDS

Codes	Description
A	Abandoned
D	Existing to demolish
Е	Existing to remain
F	Future work
M	Items to be moved
N	New work
Т	Temporary work
Χ	Not in contract
1	Phase number 1
2	Phase number 2
3	Phase number 3
4	Phase number 4
5	Phase number 5
6	Phase number 6
7	Phase number 7
8	Phase number 8
9	Phase number 9

5.0 Appendix B - Common Layer Lists by Discipline

The following lists of layers present the most commonly used layers for each discipline. The definitive list of Discipline Designators, Major and Minor Groups, and Status Fields is in <u>CLG Appendix A - List of Discipline</u> <u>Designators, Major and Minor Groups, and Status Fields, CLG section 4.0</u>.

- 5.1 Architectural Layer List
- 5.2 Civil Layer List
- 5.3 Contractor/Shop Drawing Layer List
- 5.4 Electrical Layer List

- 5.12 Landscape Layer List
- 5.13 Mechanical Layer List
- 5.14 Operations Layer List
- 5.15 Plumbing Layer List

- 5.5 Distributed Energy Layer List
- 5.6 Equipment Layer List
- 5.7 Fire Protection Layer List
- <u>5.8 General Layer List</u>
- <u>5.9 Geotechnical Layer List</u>
- 5.10 Hazardous Materials Layer List
- 5.11 Interiors Layer List

- <u>5.16 Process Layer List</u>
- 5.17 Resource Layer List
- 5.18 Structural Layer List
- <u>5.19 Survey/Mapping Layer List</u>
- 5.20 Telecommunications Layer List
- 5.21 Other Disciplines Layer List

5.1 ARCHITECTURAL LAYER LIST

Architectural Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Architectural Discipline Designators

Designator	Description
A	Architectural
AD	Architectural Demolition
AE	Architectural Elements
AF	Architectural Finishes
AG	Architectural Graphics
Al	Architectural Interiors
AS	Architectural Site
AJ	User Defined
AK	User Defined

Architectural Layer List

Layer Name	Description
A□-AREA	Area
A□-AREA-OCCP	Area: occupant or employee names
A□-BARR	Barrier
A□-BARR-AIR~	Barrier: air
A□-CLNG	Ceiling
A□-CLNG-ACCS	Ceiling: access
A□-CLNG-GRID	Ceiling: grid
A□-CLNG-OPNG	Ceiling: openings
A□-CLNG-SUSP	Ceiling: suspended elements
A□-CLNG-TEES	Ceiling: main tees

A□-COLS	Columns
A□-CONV	Conveying systems
A□-DOOR	Doors
A□-DOOR-FULL	Doors: full-height (swing and leaf)
A□-DOOR-PRHT	Doors: partial-height (swing and leaf)
A□-EQPM	Equipment
A□-EQPM-ACCS	Equipment: access
A□-EQPM-FIXD	Equipment: fixed
A□-EQPM-OVHD	Equipment: overhead
A□-FLOR	Floor
A□-FLOR-CSWK	Floor: casework
A□-FLOR-EVTR	Floor: elevator cars and equipment
A□-FLOR-FIXT	Floor: fixtures (plumbing)
A□-FLOR-HRAL	Floor: handrails/guard rails
A□-FLOR-LEVL	Floor: level changes (ramps, pits, depressions)
A□-FLOR-OTLN	Floor: outline
A□-FLOR-OVHD	Floor: overhead
A□-FLOR-RAIS	Floor: raised
A□-FLOR-RISR	Floor: risers
A□-FLOR-SIGN	Floor: signage
A□-FLOR-SPCL	Floor: specialties (toilet room accessories, display cases)
A□-FLOR-STRS	Floor: stair treads (escalators, ladders)
A□-FLOR-TPTN	Floor: toilet partitions
A□-FLOR-WDWK	Floor: architectural woodwork
A□-FURN	Furnishings
A□-FURN-FILE	Furnishings: file cabinets
A□-FURN-FIXD	Furnishings: fixed
A□-FURN-FREE	Furnishings: freestanding
A□-FURN-PLNT	Furnishings: plants
A□-FURN-PNLS	Furnishings: system panels
A□-FURN-SEAT	Furnishings: seating
A□-FURN-STOR	Furnishings: storage (component system)
A□-FURN-WKSF	Furnishings: work surface (component system)
A□-GLAZ	Glazing
A□-GLAZ-FULL	Glazing: full-height
A□-GLAZ-PRHT	Glazing: partial-height
A□-GLAZ-SILL	Glazing: window sills
A□-HVAC	HVAC systems
A□-HVAC-RDFF	HVAC systems: return air diffusers
A□-HVAC-SDFF	HVAC systems: supply diffusers

A□-LITE	Lighting
A□-ROOF	Roof
A□-ROOF-HRAL	Roof: handrails/guard rails
A□-ROOF-LEVL	Roof: level changes
A□-ROOF-OTLN	Roof: outline
A□-ROOF-RISR	Roof: risers
A□-ROOF-STRS	Roof: stair treads (ladders)
A□-WALL	Walls
A□-WALL-CAVI	Walls: cavity
A□-WALL-CNTR	Walls: center
A□-WALL-CURT	Walls: curtain
A□-WALL-FIRE	Walls: fire protection
A□-WALL-FULL	Walls: full-height
A□-WALL-FULL-EXTR	Walls: full-height: exterior
A□-WALL-FULL-INTR	Walls: full-height: interior
A□-WALL-HEAD	Walls: door and window headers
A□-WALL-JAMB	Walls: door and window jambs
A□-WALL-MESH	Walls: mesh or wire
A□-WALL-MOVE	Walls: moveable
A□-WALL-PATT	Walls: texture and hatch patterns
A□-WALL-PRHT	Walls: partial-height

5.2 CIVIL LAYER LIST

Civil Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

The Civil Discipline is defined as a project or a portion of a project that is usually contained within a single property boundary.

Civil Discipline Designators

Civil
Civil Demolition
Civil Grading
Civil Improvements
Civil Nodes
Civil Paving
Civil Site

СТ	Civil Transportation
CU	Civil Utilities
CJ	User Defined
CK	User Defined

Civil Layer List

Layer Name	Description
C□-AFLD	Airfields
C□-AFLD-ASPH	Airfields: asphalt
C□-AFLD-CNTR	Airfields: center
C□-AFLD-CONC	Airfields: concrete
C□-AFLD-FLNE	Airfields: fire lane
C□-AFLD-FLNE-MRKG	Airfields: fire lane: pavement markings
C□-AFLD-FLNE-SIGN	Airfields: fire lane: signage
C□-AFLD-GRVL	Airfields: gravel
C□-AFLD-MRKG	Airfields: pavement markings
C□-AFLD-SIGN	Airfields: signage
C□-AFLD-STAN	Airfields: stationing
C□-AFLD-WHIT	Airfields: white paint
C□-AFLD-WHIT-TICK	Airfields: white paint: tick marks
C□-AFLD-YELO	Airfields: yellow paint
C□-AFLD-YELO-TICK	Airfields: yellow paint: tick marks
C□-BLDG	Buildings and primary structures
C□-BLDG-DECK	Buildings and primary structures: deck (attached, no roof overhead)
C□-BLDG-OTLN	Buildings and primary structures: outline
C□-BLDG-OVHD	Buildings and primary structures: overhead
C□-BLDG-PRCH	Buildings and primary structures: porch (attached, roof overhead)
C□-BLIN	Baseline
C□-BLIN-STAN	Baseline: stationing
C□-BORE	Borings
C□-BRDG	Bridge
C□-BRDG-CNTJ	Bridge: construction joint
C□-BRDG-CNTR	Bridge: center
C□-BRDG-DECK	Bridge: deck
C□-BRDG-EXPJ	Bridge: expansion joint
C□-BRDG-FALT	Bridge: fault/break line
C□-BRDG-HIDD	Bridge: objects or lines hidden from view

C□-BRDG-OBJT	Bridge: objects
C□-BRDG-OBJT-PRIM	Bridge: objects: primary
C□-BRDG-OBJT-SECD	Bridge: objects: secondary
C□-BRDG-RBAR	Bridge: reinforcing bar
C□-CATV	Cable television system
C□-CATV-OVHD	Cable television system: overhead
C□-CATV-POLE	Cable television system: pole
C□-CATV-UGND	Cable television system: underground
C□-CEME	Cemetery
C□-CHAN	Navigable channels
C□-CHAN-BWTR	Navigable channels: breakwater
C□-CHAN-CNTR	Navigable channels: center
C ₋ -CHAN-DACL	Navigable channels: de-authorized channel limits, anchorages, etc.
C□-CHAN-DOCK	Navigable channels: decks, docks, floats, piers
C□-CHAN-NAID	Navigable channels: navigation aids
C ₋ -COMM	Communications
C□-COMM-OVHD	Communications: overhead
C□-COMM-POLE	Communications: pole
C□- COMM-UGND	Communications: underground
C□-CTRL	Control points
C□-CTR L-BMRK	Control points: benchmarks
C□-CTRL-FLYS	Control points: fly station
C□-CTRL-GRID	Control points: grid
C□-CTRL-HORZ	Control points: horizontal
C□-CTRL-HVPT	Control points: horizontal/vertical
C□-CTRL-PNPT	Control points: panel points
C□-CTRL-TRAV	Control points: transverse
C□-CTRL-VERT	Control points: vertical
C□-DFLD	Drain fields
C□-DFLD-OTLN	Drain fields: outline
C□-DFLD-PROF	Drain fields: profile
C□-DRIV	Driveways
C□-DRIV-ASPH	Driveways: asphalt
C□-DRIV-CNTR	Driveways: center
C□-DRIV-CONC	Driveways: concrete
C□-DRIV-CURB	Driveways: curb
C□-DRIV-CURB-BACK	Driveways: curb: back
C□-DRIV-CURB-FACE	Driveways: curb: face
C□-DRIV-FLNE	Driveways: fire lane
C□-DRIV-FLNE-MRKG	Driveways: fire lane: pavement markings

C□-DRIV-FLNE-SIGN	Driveways: fire lane: signage
C ₋ DRIV-GRVL	Driveways: gravel
C□-DRIV-MRKG	Driveways: pavement markings
C ₋ -DRIV-SIGN	Driveways: signage
C⊓-DRI V-UPVD	Driveways: unpaved surface
C_DRIV-WHIT	Driveways: white paint
CDRIV-WHIT-TICK	Driveways: white paint: tick marks
C ₋ -DRIV-YELO	Driveways: yellow paint
C ₋ -DRIV-YELO-TICK	Driveways: yellow paint: tick marks
C ₀ -DTCH	Ditches or washes
C ₋ DTCH-BOTM	Ditches or washes: bottom
C□-DTCH-CNTR	Ditches or washes: center
C ₋ DTCH-EWAT	Ditches or washes: edge of water
C□-DTCH-TOP~	Ditches or washes: top
C ₋ -EROS	Erosion and sediment control
C□-EROS-CIPR	Erosion and sediment control: culvert inlet protection
C□-EROS-CNTE	Erosion and sediment control: construction entrance
C□-EROS-DDIV	Erosion and sediment control: drainage divides
C□-EROS-DVDK	Erosion and sediment control: diversion dike
C□-EROS-INPR	Erosion and sediment control: inlet protection
C□-EROS-SILT	Erosion and sediment control: silt fence
C□-EROS-SSLT	Erosion and sediment control: super silt fence
C□-ESMT	Easements
C□-ESMT-ACCS	Easements: access (pedestrian only; private access)
C□-ESMT-CATV	Easements: utility - cable television system
C□-ESMT-CONS	Easements: conservation
C□-ESMT-CSTG	Easements: construction/grading
C□-ESMT-ELEC	Easements: electrical
C□-ESMT-FDPL	Easements: flood plain
C□-ESMT-INEG	Easements: ingress/egress (vehicles; private access)
C□-ESMT-LSCP	Easements: landscape
C□-ESMT-NGAS	Easements: natural gas line
C□-ESMT-PHON	Easements: telephone line
C□-ESMT-ROAD	Easements: roadway
C□-ESMT-ROAD-PERM	Easements: roadway: permanent
C□-ESMT-ROAD-TEMP	Easements: roadway: temporary
C□-ESMT-RWAY	Easements: right-of-way (public access)
C□-ESMT-SGHT	Easements: sight distance
C□-ESMT-SSWR	Easements: sanitary sewer
C□-ESMT-STRM	Easements: storm sewer

C□-ESMT-SWMT	Easements: storm water management
C□-ESMT-TRAL	Easements: trail or path (public access)
C□-ESMT-UTIL	Easements: utility lines
C□-ESMT-WATR	Easements: water supply
C□-FENC	Fences
C□-FENC-GRAL	Fences: guard rail
C□-FENC-POST	Fences: posts
C -FENC-STEL	Fences: steel (barbed wire and/or chain link)
C□-FENC-WOOD	Fences: wood
C□-FIRE	Fire protection
C□-FIRE-HYDT	Fire protection: hydrants and connections
C□-FIRE-PIPE	Fire protection: piping
C□-FIRE-UGND	Fire protection: underground
C□-FLHA	Flood hazard area
C□-FLHA-025Y	Flood hazard area: 25 year mark
C□-FLHA-050Y	Flood hazard area: 50 year mark
C□-FLHA-100Y	Flood hazard area: 100 year mark
C□-FLHA-200Y	Flood hazard area: 200 year mark
C ₋ -FUEL	Fuel systems
C□-FUEL-EQPM	Fuel systems: equipment (pumps, motors)
C□-FUEL-INST	Fuel systems: instrumentation (meters, valves, etc.)
C□-FUEL-MHOL	Fuel systems: manhole
C ₋ -FUEL-PIPE	Fuel systems: piping
C□-FUEL-TANK	Fuel systems: storage tanks
C□-FUEL-UGND	Fuel systems: underground
C□-HYDR	Hydraulic structure
C□-HYDR-BAFL	Hydraulic structure: baffle block and splash pad
C□-HYDR-BASN	Hydraulic structure: stilling and settling basins
C□-HYDR-CNDT	Hydraulic structure: diversion/bypass conduits/culvers
C□-HYDR-COFF	Hydraulic structure: coffer dam
C□-HYDR-DAM~	Hydraulic structure: dam
C□-HYDR-FISH	Hydraulic structure: fish ladder/passage
C□-HYDR-FLUM	Hydraulic structure: flume
C□-HYDR-INTK	Hydraulic structure: intake
C□-HYDR-NOVR	Hydraulic structure: non-overflow structure
C□-HYDR-PENS	Hydraulic structure: penstock
C□-LOCN	Limits of construction
C□-NGAS	Natural gas systems
C□-NGAS-EQPM	Natural gas systems: equipment (pumps, motors)
OB NO/10 EQI W	ratara gas systems squipment (pamps, meters)

C□-NGAS-MHOL	Natural gas systems: manhole
C□-NGAS-PIPE	Natural gas systems: piping
C□-NGAS-TANK	Natural gas systems: storage tanks
C□-NGAS-UGND	Natural gas systems: underground
C _□ -PERC	Perc testing
C _□ -PERC-HOLE	Perc testing: holes
C□-POND	Ponds
C□-POND-EDGE	Ponds: edge
C□-POND-SWAY	Ponds: spillway
C□-POND-TOPB	Ponds: top of bank
C□-POWR	Power
C□-POWR-FENC	Power: fences
C□-POWR-INST	Power: instrumentation (meters, transformers)
C□-POWR-MHOL	Power: manhole
C□-POWR-OVHD	Power: overhead
C□-POWR-POLE	Power: pole
C□-POWR-STRC	Power: structures
C□-POWR-UGND	Power: underground
C□-PRKG	Parking lots
C□-PRKG-ASPH	Parking lots: asphalt
C□-PRKG-CARS	Parking lots: cars and other vehicles
C□-PRKG-CONC	Parking lots: concrete
C□-PRKG-CURB	Parking lots: curb
C□-PRKG-CURB-BACK	Parking lots: curb: back
C□-PRKG-CURB-FACE	Parking lots: curb: face
C□-PRKG-DRAN	Parking lots: drainage slope indications
C□-PRKG-FIXT	Parking lots: fixtures (wheel stops, parking meters, etc.)
C□-PRKG-FLNE	Parking lots: fire lane
C□-PRKG-FLNE-MRKG	Parking lots: fire lane: pavement markings
C□-PRKG-FLNE-SIGN	Parking lots: fire lane: signage
C _□ -PRKG-GRVL	Parking lots: gravel
C _□ -PRKG-MRKG	Parking lots: pavement markings
C□-PRKG-SIGN	Parking lots: signage
C _□ -PRKG-STRP	Parking lots: striping
C□-PRKG-UPVD	Parking lots: unpaved surface
C□-PRKG-WHIT	Parking lots: white paint
C□-PRKG-WHIT-TICK	Parking lots: white paint: tick marks
C□-PRKG-YELO	Parking lots: yellow paint
C□-PRKG-YELO-TICK	Parking lots: yellow paint: tick marks
C□-PROP	Property

C□-PROP-LINE	Property: lines
C□-PROP-SBCK	Property: setback lines
C□-PVMT	Pavement
C□-PVMT-ASPH	Pavement: asphalt
C□-PVMT-CONC	Pavement: concrete
C□-PVMT-GRVL	Pavement: gravel
C□-RAIL	Railroad
C□-RAIL-CNTR	Railroad: center
C□-RAIL-EQPM	Railroad: equipment (gates, signals, etc.)
C□-RAIL-TRAK	Railroad: track
C□-RIVR	River
C□-RIVR-BOTM	River: bottom
C□-RIVR-CNTR	River: center
C□-RIVR-EDGE	River: edge
C _□ -RIVR-TOPB	River: top of bank
C□-ROAD	Roadways
C□-ROAD-ASPH	Roadways: asphalt
C□-ROAD-CNTR	Roadways: center
C□-ROAD-CONC	Roadways: concrete
C□-ROAD-CURB	Roadways: curb
C□-ROAD-CURB-BACK	Roadways: curb: back
C□-ROAD-CURB-FACE	Roadways: curb: face
C□-ROAD-FLNE	Roadways: fire lane
C□-ROAD-FLNE-MRKG	Roadways: fire lane: pavement markings
C□-ROAD-FLNE-SIGN	Roadways: fire lane: signage
C□-ROAD-GRVL	Roadways: gravel
C□-ROAD-MRKG	Roadways: pavement markings
C□-ROAD-PROF	Roadways: profile
C□-ROAD-SIGN	Roadways: signage
C□-ROAD-STAN	Roadways: stationing
C□-ROAD-UPVD	Roadways: unpaved surface
C□-ROAD-WHIT	Roadways: white paint
C□-ROAD-WHIT-TICK	Roadways: white paint: tick marks
C□-ROAD-YELO	Roadways: yellow paint
C□-ROAD-YELO-TICK	Roadways: yellow paint: tick marks
C _□ -RRAP	Riprap
C□-SGHT	Sight distance
C _□ -SGHT-PROF	Sight distance: profile
C _□ -SOIL	Soils
C□-SSWR	Sanitary sewer

Co-SSWR-FORC Sanitary sewer: force main Co-SSWR-ATL Sanitary sewer: piping Co-SSWR-PIPE Sanitary sewer: piping: reinforced concrete Co-SSWR-PIPE-STEL Sanitary sewer: piping: steel Co-SSWR-PIPE-STEL Sanitary sewer: piping: steel Co-SSWR-STAN Sanitary sewer: structures Co-SSWR-STAN Sanitary sewer: structures Co-SSWR-UGND Sanitary sewer: underground Co-STEM Steam system Co-STEM-INST Steam system: structures Co-STEM-PIPE Steam system: piping Co-STEM-PIPE Steam system: structures Co-STEM-UGND Steam system: underground Co-STEM-UGND Steam system: onderground Co-STEM-PIPE Storm sewer: diagrams Co-STEM-PIPE Storm sewer: piping Co-STEM-PIPE Storm sewer: piping Co-STEM-PIPE Storm sewer: piping Co-STEM-PIPE-CMTL Storm sewer: piping Co-STEM-PIPE-GMTL Storm sewer: piping: corrugated metal Co-STEM-PIPE-RCON Storm sewer: piping: reinforced concrete Co-STEM-STEN Storm sewer: stationing Co-STEM-STEN Storm sewer: structures Co-STEM-STEN Storm	C□-SSWR-DIAG	Sanitary sewer: diagrams
Cu-SSWR-LATL Sanitary sewer: lateral line Cu-SSWR-MHOL Sanitary sewer: manhole Cn-SSWR-PIPE Sanitary sewer: piping Cn-SSWR-PIPE-RCON Sanitary sewer: piping: reinforced concrete Cu-SSWR-PIPE-STEL Sanitary sewer: piping: steel Cu-SSWR-PROF Sanitary sewer: profile Cu-SSWR-STAN Sanitary sewer: stationing Cn-SSWR-STAN Sanitary sewer: structures Cn-SSWR-UGND Sanitary sewer: structures Cn-SSWR-UGND Sanitary sewer: underground Cn-STEM Steam system Steam system: instrumentation (meters, valves, etc.) Cu-STEM-HINST Steam system: instrumentation (meters, valves, etc.) Cu-STEM-PIPE Steam system: structures Cn-STEM-UGND Steam system: underground Cn-STEM-STRC Steam system: underground Cn-STEM-STRC Steam system: underground Cn-STEM-STRM Storm sewer: center Cu-STRM-CNTR Storm sewer: diagrams Cu-STRM-OLA Storm sewer: diagrams Cn-STRM-HIPE Storm sewer: piping Cn-STRM-HIPE Storm sewer: piping Cn-STRM-PIPE Storm sewer: piping Cn-STRM-PIPE-CMTL Storm sewer: piping Cn-STRM-PIPE-CMTL Storm sewer: piping: corrugated metal Cu-STRM-PIPE-CMTL Storm sewer: piping: corrugated metal Cu-STRM-PIPE-CMTL Storm sewer: piping: reinforced concrete Cn-STRM-STRC Storm sewer: stationing Cn-STRM-STRC Storm sewer: stationing Cn-STRM-STRC Storm sewer: stationing Cn-STRM-STRC Storm sewer: structures Cn-STRM-STRC Storm sewer: str		
Cir-SSWR-MHOL Sanitary sewer: manhole Cir-SSWR-PIPE Sanitary sewer: piping Cir-SSWR-PIPE-RCON Sanitary sewer: piping: reinforced concrete Cir-SSWR-PIPE-STEL Sanitary sewer: piping: steel Cir-SSWR-PIPE-STEL Sanitary sewer: profile Cir-SSWR-STAN Sanitary sewer: stationing Cir-SSWR-STAN Sanitary sewer: structures Cir-SSWR-UGND Sanitary sewer: underground Cir-STEM Steam system: instrumentation (meters, valves, etc.) Cir-STEM Steam system: instrumentation (meters, valves, etc.) Cir-STEM-HNGL Steam system: manhole Cir-STEM-PIPE Steam system: structures Cir-STEM-UGND Steam system: underground Cir-STEM-UGND Steam system: underground Cir-STEM-UGND Steam system: underground Cir-STEM-UGND Steam system: underground Cir-STRM-CNTR Storm sewer: Cir-STRM-CNTR Storm sewer: diagrams Cir-STRM-PIPE Storm sewer: diagrams Cir-STRM-HWAL Storm sewer: headwall Cir-STRM-HWAL Storm sewer: piping Cir-STRM-PIPE-CMTL Storm sewer: piping Cir-STRM-PIPE-CMTL Storm sewer: piping Cir-STRM-PIPE-CMTL Storm sewer: piping: corrugated metal Cir-STRM-PIPE-CMTL Storm sewer: piping: reinforced concrete Cir-STRM-PIPE-RCON Storm sewer: stationing Cir-STRM-STRC Storm sewer: stationing Cir-STRM-STRC Storm sewer: structures Cir-STRM-STRC		
Co-SSWR-PIPE Sanitary sewer: piping Co-SSWR-PIPE-RCON Sanitary sewer: piping: reinforced concrete Co-SSWR-PIPE-STEL Sanitary sewer: piping: steel Co-SSWR-PROF Sanitary sewer: profile Co-SSWR-STAN Sanitary sewer: stationing Co-SSWR-STAN Sanitary sewer: structures Co-SSWR-UGND Sanitary sewer: underground Co-STEM Steam system: instrumentation (meters, valves, etc.) Co-STEM-INST Steam system: instrumentation (meters, valves, etc.) Co-STEM-HNOL Steam system: piping Co-STEM-PIPE Steam system: piping Co-STEM-UGND Steam system: underground Co-STEM-UGND Steam system: underground Co-STEM-UGND Steam system: underground Co-STEM-UGND Steam system: underground Co-STEM-UGND Steam system: anderground Co-STEM-UGND Storm sewer: center Co-STEM-DIAG Storm sewer: diagrams Co-STEM-PIPE Storm sewer: piping Co-STEM-PIPE Storm sewer: piping Co-STEM-PIPE Storm sewer: piping Co-STEM-PIPE Storm sewer: piping Co-STEM-PIPE-CMTL Storm sewer: piping: corrugated metal Co-STEM-PIPE-CMTL Storm sewer: structures Co-STEM-STAN Storm sewer: structures Co-STEM-STAN Storm sewer: structures Co-STEM-STAN Storm sewer: structures Co-STEM-UGND Storm sewer: structure		
Ca-SSWR-PIPE-RCON Sanitary sewer: piping: reinforced concrete Ca-SSWR-PIPE-STEL Sanitary sewer: piping: siteel Ca-SSWR-PROF Sanitary sewer: stationing Ca-SSWR-STAN Sanitary sewer: stationing Ca-SSWR-STRC Sanitary sewer: structures Ca-SSWR-UGND Sanitary sewer: underground Ca-STEM Steam system: instrumentation (meters, valves, etc.) Ca-STEM-INST Steam system: instrumentation (meters, valves, etc.) Ca-STEM-HPIPE Steam system: piping Ca-STEM-UGND Steam system: underground Ca-STEM-CNTR Storm sewer Ca-STEM-CNTR Storm sewer: center Ca-STEM-DIAG Storm sewer: diagrams Ca-STEM-HWAL Storm sewer: piping Ca-STEM-HWAL Storm sewer: piping Ca-STEM-PIPE Storm sewer: piping Ca-STEM-PIPE Storm sewer: piping Ca-STEM-PIPE-CMTL Storm sewer: piping: corrugated metal Ca-STEM-STEN Storm sewer: piping: corrugated metal Ca-STEM-PIPE-CMTL Storm sewer: piping: reinforced concrete Ca-STEM-STEN Storm sewer: structures Ca-STEM-STEN Storm sewer: structures Ca-STEM-UGND Storm sewer: structures Ca-STEM-UGND Storm sewer: structures Ca-STEM-UGND Storm sewer: structures Ca-SWLK Sidewalks: asphalt Ca-SWLK-ASPH Sidewalks: asphalt Ca-SWLK-CONC Sidewalks: concrete Ca-TINN Triangulated irregular network: boundary Ca-TINN-FALT Triangulated irregular network: boundary Ca-TINN-VIEW Triangulated irregular network: triangulation view Ca-TINN-VIEW Triangulated irregular network: void regions Ca-TOPO Topographic feature		
CD-SSWR-PIPE-STEL Sanitary sewer: piping: steel CD-SSWR-PROF Sanitary sewer: profile CD-SSWR-STAN Sanitary sewer: structures CD-SSWR-STRC Sanitary sewer: underground CD-STEM Steam system CD-STEM Steam system: instrumentation (meters, valves, etc.) CD-STEM-INST Steam system: manhole CD-STEM-PIPE Steam system: piping CD-STEM-PIPE Steam system: piping CD-STEM-STRC Steam system: piping CD-STEM-STRC Steam system: underground CD-STEM-UGND Steam system: underground CD-STEM-PIPE Steam system: underground CD-STEM-UGND Steam system: underground CD-STRM-CNTR Storm sewer: center CD-STRM-ONTR Storm sewer: diagrams CD-STRM-DIAG Storm sewer: headwall CD-STRM-HWAL Storm sewer: headwall CD-STRM-PIPE Storm sewer: piping CD-STRM-PIPE Storm sewer: piping: corrugated metal CD-STRM-PIPE-CMTL Storm sewer: piping: reinforced concrete CD-STRM-PIPE-RCON Storm sewer: piping: reinforced concrete CD-STRM-STAN Storm sewer: structures CD-STRM-STAN Storm sewer: structures CD-STRM-STAN Storm sewer: structures CD-STRM-UGND Storm sewer: structures CD-STRM-UGND Storm sewer: underground CD-STRM-STAN Storm sewer: structures CD-STRM-UGND Storm sewer: underground CD-SWLK Sidewalks CD-SWLK-CONC Sidewalks: concrete CD-TINN Triangulated irregular network: fault/break lines CD-TINN-FALT Triangulated irregular network: fault/break lines CD-TINN-FALT Triangulated irregular network: triangulation view CD-TINN-VIEW Triangulated irregular network: void regions CD-TOPO Topographic feature: depression		
Cc-SSWR-PROF Sanitary sewer: profile Cc-SSWR-STAN Sanitary sewer: stationing Cc-SSWR-STRC Sanitary sewer: structures Cc-SSWR-UGND Sanitary sewer: underground Cc-STEM Steam system Cc-STEM Steam system: instrumentation (meters, valves, etc.) Cc-STEM-INST Steam system: manhole Cc-STEM-HPE Steam system: piping Cc-STEM-STRC Steam system: structures Cc-STEM-UGND Steam system: underground Cc-STEM-UGND Steam system: underground Cc-STEM-UGND Steam system: underground Cc-STEM-UGND Steam system: underground Cc-STRM Storm sewer: Cc-STRM-CNTR Storm sewer: diagrams Cc-STRM-HWAL Storm sewer: headwall Cc-STRM-HWAL Storm sewer: piping Cc-STRM-PIPE Storm sewer: piping Cc-STRM-PIPE Storm sewer: piping: corrugated metal Cc-STRM-PIPE-CMTL Storm sewer: piping: reinforced concrete Cc-STRM-PIPE-RCON Storm sewer: piping: reinforced concrete Cc-STRM-STAN Storm sewer: stationing Cc-STRM-STAN Storm sewer: stationing Cc-STRM-STAN Storm sewer: structures Cc-STRM-UGND Storm sewer: structures Cc-STRM-UGND Storm sewer: underground Cc-SWLK Sidewalks Cc-SWLK Sidewalks Cc-SWLK-CONC Sidewalks: concrete Cc-TINN Triangulated irregular network: fault/break lines Cc-TINN-FALT Triangulated irregular network: fault/break lines Cc-TINN-VIEW Triangulated irregular network: triangulation view Cc-TINN-VOID Triangulated irregular network: void regions Cc-TOPO Topographic feature: depression		
Co-SSWR-STAN Sanitary sewer: stationing Co-SSWR-STRC Sanitary sewer: structures Co-SSWR-UGND Sanitary sewer: underground Co-STEM Steam system Co-STEM Steam system: instrumentation (meters, valves, etc.) Co-STEM-INST Steam system: instrumentation (meters, valves, etc.) Co-STEM-HHOL Steam system: manhole Co-STEM-PIPE Steam system: piping Co-STEM-STRC Steam system: structures Co-STEM-UGND Steam system: underground Co-STRM Storm sewer Co-STRM-CNTR Storm sewer: center Co-STRM-CNTR Storm sewer: diagrams Co-STRM-HWAL Storm sewer: headwall Co-STRM-HWAL Storm sewer: piping Co-STRM-PIPE Storm sewer: piping Co-STRM-PIPE Storm sewer: piping Co-STRM-PIPE-CMTL Storm sewer: piping: corrugated metal Co-STRM-PIPE-CMTL Storm sewer: piping: reinforced concrete Co-STRM-PIPE-RCON Storm sewer: profile Co-STRM-STAN Storm sewer: stationing Co-STRM-STAN Storm sewer: structures Co-STRM-STAN Storm sewer: underground Co-STRM-STAN Storm sewer: underground Co-STRM-STAN Storm sewer: underground Co-STRM-STAN Storm sewer: underground Co-SWLK Sidewalks Co-SWLK Sidewalks Co-SWLK-CONC Sidewalks: concrete Co-TINN Triangulated irregular network: boundary Co-TINN-BNDY Triangulated irregular network: fault/break lines Co-TINN-VIEW Triangulated irregular network: triangulation view Co-TINN-VIEW Triangulated irregular network: triangulation view Co-TOPO Topographic feature: depression		
Co-SSWR-STRC Sanitary sewer: structures Co-SSWR-UGND Sanitary sewer: underground Co-STEM Steam system Co-STEM-INST Steam system: instrumentation (meters, valves, etc.) Co-STEM-HNOL Steam system: piping Co-STEM-PIPE Steam system: structures Co-STEM-UGND Steam system: underground Co-STEM-UGND Steam system: underground Co-STRM Storm sewer Co-STRM-ONTR Storm sewer: center Co-STRM-DIAG Storm sewer: diagrams Co-STRM-HWAL Storm sewer: headwall Co-STRM-HWAL Storm sewer: piping Co-STRM-PIPE Storm sewer: piping Co-STRM-PIPE Storm sewer: piping: corrugated metal Co-STRM-PIPE-CMTL Storm sewer: piping: reinforced concrete Co-STRM-PIPE-RCON Storm sewer: stationing Co-STRM-STAN Storm sewer: stationing Co-STRM-STAN Storm sewer: structures Co-STRM-UGND Storm sewer: structures Co-STRM-UGND Storm sewer: underground Co-SWLK Sidewalks Co-SWLK Sidewalks: asphalt Co-SWLK Sidewalks: concrete Co-TINN Triangulated irregular network: boundary Co-TINN-BNDY Triangulated irregular network: fault/break lines Co-TINN-FALT Triangulated irregular network: void regions Co-TOPO Topographic feature Co-TOPO-DEPR Topographic feature: depression		
Co-SSWR-UGND Sanitary sewer: underground Co-STEM Steam system: instrumentation (meters, valves, etc.) Co-STEM-INST Steam system: manhole Co-STEM-HOL Steam system: piping Co-STEM-PIPE Steam system: structures Co-STEM-UGND Steam system: underground Co-STEM-UGND Steam system: underground Co-STRM Storm sewer Co-STRM-ONTR Storm sewer: diagrams Co-STRM-DIAG Storm sewer: diagrams Co-STRM-HWAL Storm sewer: piping Co-STRM-HWAL Storm sewer: piping Co-STRM-PIPE Storm sewer: piping Co-STRM-PIPE Storm sewer: piping Co-STRM-PIPE-CMTL Co-STRM-PIPE-RCON Storm sewer: piping: reinforced concrete Co-STRM-PIPE-RCON Storm sewer: stationing Co-STRM-STAN Storm sewer: structures Co-STRM-STAN Storm sewer: structures Co-STRM-UGND Storm sewer: underground Co-SWLK Sidewalks Co-SWLK Sidewalks: asphalt Co-SWLK-CONC Sidewalks: concrete Co-TINN Triangulated irregular network: boundary Co-TINN-BNDY Triangulated irregular network: fault/break lines Co-TINN-FALT Triangulated irregular network: void regions Co-TOPO Topographic feature: depression		
C_STEM_HOL Steam system: instrumentation (meters, valves, etc.) C_STEM_HHOL Steam system: manhole C_STEM_HPIPE Steam system: structures C_STEM_UGND Steam system: underground C_STRM_CNTR Storm sewer: center C_STRM_CNTR Storm sewer: diagrams C_STRM_HWAL Storm sewer: manhole C_STRM_HOL Storm sewer: piping C_STRM_PIPE Storm sewer: piping C_STRM_PIPE Storm sewer: piping C_STRM_PIPE Storm sewer: piping C_STRM_PIPE-CMTL Storm sewer: piping: corrugated metal C_STRM_PIPE-RCON Storm sewer: piping: reinforced concrete C_STRM_STAN Storm sewer: stationing C_STRM_STAN Storm sewer: structures C_STRM_STAN Storm sewer: structures C_STRM_STAN Storm sewer: underground C_STRM_STAN Storm sewer: structures C_STRM_STAN Storm sewer: structures C_STRM_STAN Storm sewer: structures C_STRM_STAN Storm sewer: structures C_STRM_STAN Storm sewer: underground C_SWLK Sidewalks: asphalt C_SWLK Sidewalks: concrete C_SWLK_ASPH Sidewalks: concrete C_STRM_STAT Triangulated irregular network boundary C_STINN_BDY Triangulated irregular network: boundary C_STINN_STAT Triangulated irregular network: fault/break lines C_STINN_VIEW Triangulated irregular network: void regions C_STOPO Topographic feature: depression		
CD-STEM-INST Steam system: instrumentation (meters, valves, etc.) CD-STEM-HHOL Steam system: manhole CD-STEM-PIPE Steam system: piping CD-STEM-STRC Steam system: underground CD-STEM-UGND Steam system: underground CD-STRM Storm sewer: diagrams CD-STRM-CNTR Storm sewer: diagrams CD-STRM-DIAG Storm sewer: diagrams CD-STRM-HWAL Storm sewer: manhole CD-STRM-HWAL Storm sewer: piping CD-STRM-PIPE Storm sewer: piping CD-STRM-PIPE Storm sewer: piping: corrugated metal CD-STRM-PIPE-CMTL Storm sewer: piping: reinforced concrete CD-STRM-PIPE-RCON Storm sewer: piping: reinforced concrete CD-STRM-PIPE-RCON Storm sewer: stationing CD-STRM-STAN Storm sewer: structures CD-STRM-STAN Storm sewer: structures CD-STRM-STAN Storm sewer: structures CD-STRM-STRC Storm sewer: underground CD-STRM-STRC Storm sewer: underground CD-SWLK Sidewalks CD-SWLK Sidewalks CD-SWLK-ASPH Sidewalks: concrete CD-STRM-BNDY Triangulated irregular network: boundary Triangulated irregular network: fault/break lines CD-TINN-BNDY Triangulated irregular network: triangulation view CD-TINN-VOID Triangulated irregular network: void regions CD-TOPO Topographic feature: depression		
CD-STEM-MHOL Steam system: manhole CD-STEM-PIPE Steam system: piping CD-STEM-STRC Steam system: underground CD-STEM-UGND Steam system: underground CD-STRM Storm sewer CD-STRM Storm sewer: diagrams CD-STRM-CNTR Storm sewer: diagrams CD-STRM-DIAG Storm sewer: diagrams CD-STRM-HWAL Storm sewer: manhole CD-STRM-HWAL Storm sewer: piping CD-STRM-PIPE Storm sewer: piping CD-STRM-PIPE Storm sewer: piping: corrugated metal CD-STRM-PIPE-CMTL Storm sewer: piping: reinforced concrete CD-STRM-PIPE-RCON Storm sewer: piping: reinforced concrete CD-STRM-PIPE-RCON Storm sewer: stationing CD-STRM-STAN Storm sewer: stationing CD-STRM-STAN Storm sewer: structures CD-STRM-STAN Storm sewer: structures CD-STRM-STRC Storm sewer: underground CD-STRM-STRC Storm sewer: underground CD-SWLK Sidewalks CD-SWLK Sidewalks CD-SWLK Sidewalks CD-SWLK-ASPH Sidewalks: concrete CD-TINN Triangulated irregular network: boundary CD-TINN-BNDY Triangulated irregular network: boundary CD-TINN-FALT Triangulated irregular network: triangulation view CD-TINN-VOID Triangulated irregular network: void regions CD-TOPO Topographic feature: depression	-	
CD-STEM-PIPE Steam system: piping CD-STEM-STRC Steam system: structures CD-STEM-UGND Steam system: underground CD-STRM Storm sewer CD-STRM-CNTR Storm sewer: center CD-STRM-DIAG Storm sewer: diagrams CD-STRM-HWAL Storm sewer: headwall CD-STRM-HHOL Storm sewer: piping CD-STRM-PIPE Storm sewer: piping CD-STRM-PIPE-CMTL Storm sewer: piping: corrugated metal CD-STRM-PIPE-CMTL Storm sewer: piping: reinforced concrete CD-STRM-PIPE-RCON Storm sewer: profile CD-STRM-PROF Storm sewer: stationing CD-STRM-STAN Storm sewer: structures CD-STRM-STRC Storm sewer: underground CD-STRM-UGND Storm sewer: underground CD-SWLK Sidewalks CD-SWLK Sidewalks: concrete CD-TINN Triangulated irregular network: boundary CD-TINN-BNDY Triangulated irregular network: fault/break lines CD-TINN-VIEW Triangulated irregular network: void regions CD-TOPO Topographic feature CD-TOPO-DEPR Topographic feature: depression		
CD-STEM-STRC Steam system: underground CD-STRM Storm sewer CD-STRM-CNTR Storm sewer: center CD-STRM-DIAG Storm sewer: diagrams CD-STRM-HWAL Storm sewer: headwall CD-STRM-HWAL Storm sewer: piping CD-STRM-PIPE Storm sewer: piping CD-STRM-PIPE-CMTL Storm sewer: piping: corrugated metal CD-STRM-PIPE-CMTL Storm sewer: piping: reinforced concrete CD-STRM-PIPE-RCON Storm sewer: piping: reinforced concrete CD-STRM-PIPE-RCON Storm sewer: stationing CD-STRM-STAN Storm sewer: structures CD-STRM-STRC Storm sewer: structures CD-STRM-UGND Storm sewer: underground CD-SWLK Sidewalks CD-SWLK Sidewalks: concrete CD-TINN Triangulated irregular network CD-TINN-BNDY Triangulated irregular network: fault/break lines CD-TINN-VIEW Triangulated irregular network: void regions CD-TOPO Topographic feature CD-TOPO-DEPR Topographic feature: depression		
CD-STEM-UGND Steam system: underground CD-STRM Storm sewer CD-STRM-CNTR Storm sewer: center CD-STRM-DIAG Storm sewer: diagrams CD-STRM-HWAL Storm sewer: headwall CD-STRM-HHOL Storm sewer: piping CD-STRM-PIPE Storm sewer: piping: corrugated metal CD-STRM-PIPE-CMTL Storm sewer: piping: reinforced concrete CD-STRM-PIPE-RCON Storm sewer: piping: reinforced concrete CD-STRM-PROF Storm sewer: profile CD-STRM-STAN Storm sewer: stationing CD-STRM-STRC Storm sewer: structures CD-STRM-UGND Storm sewer: underground CD-SWLK Sidewalks CD-SWLK Sidewalks: asphalt CD-SWLK-ASPH Sidewalks: concrete CD-TINN Triangulated irregular network CD-TINN-BNDY Triangulated irregular network: boundary CD-TINN-FALT Triangulated irregular network: fault/break lines CD-TINN-VIEW Triangulated irregular network: void regions CD-TOPO Topographic feature: depression		
CD-STRM Storm sewer CD-STRM-CNTR Storm sewer: center CD-STRM-DIAG Storm sewer: diagrams CD-STRM-HWAL Storm sewer: headwall CD-STRM-HHWAL Storm sewer: manhole CD-STRM-PIPE Storm sewer: piping CD-STRM-PIPE-CMTL Storm sewer: piping: corrugated metal CD-STRM-PIPE-CMTL Storm sewer: piping: reinforced concrete CD-STRM-PIPE-RCON Storm sewer: piping: reinforced concrete CD-STRM-PROF Storm sewer: profile CD-STRM-STAN Storm sewer: stationing CD-STRM-STRC Storm sewer: structures CD-STRM-UGND Storm sewer: underground CD-SWLK Sidewalks CD-SWLK Sidewalks: asphalt CD-SWLK-ASPH Sidewalks: concrete CD-TINN Triangulated irregular network CD-TINN-BNDY Triangulated irregular network: boundary CD-TINN-FALT Triangulated irregular network: fault/break lines CD-TINN-VIEW Triangulated irregular network: triangulation view CD-TINN-VOID Triangulated irregular network: void regions CD-TOPO Topographic feature: depression		
CD-STRM-CNTR Storm sewer: center CD-STRM-DIAG Storm sewer: diagrams CD-STRM-HWAL Storm sewer: headwall CD-STRM-HHOL Storm sewer: manhole CD-STRM-PIPE Storm sewer: piping CD-STRM-PIPE-CMTL Storm sewer: piping: corrugated metal CD-STRM-PIPE-CMTL Storm sewer: piping: reinforced concrete CD-STRM-PROF Storm sewer: piping: reinforced concrete CD-STRM-STRM-STRM Storm sewer: stationing CD-STRM-STRM Storm sewer: structures CD-STRM-UGND Storm sewer: underground CD-SWLK Sidewalks CD-SWLK Sidewalks: asphalt CD-SWLK-CONC Sidewalks: concrete CD-TINN Triangulated irregular network CD-TINN-BNDY Triangulated irregular network: fault/break lines CD-TINN-FALT Triangulated irregular network: triangulation view CD-TINN-VIEW Triangulated irregular network: void regions CD-TOPO Topographic feature: depression	C□-STEM-UGND	Steam system: underground
CD-STRM-DIAG Storm sewer: diagrams CD-STRM-HWAL Storm sewer: headwall CD-STRM-HWAL Storm sewer: manhole CD-STRM-PIPE Storm sewer: piping CD-STRM-PIPE-CMTL Storm sewer: piping: corrugated metal CD-STRM-PIPE-CMTL Storm sewer: piping: reinforced concrete CD-STRM-PIPE-RCON Storm sewer: profile CD-STRM-PROF Storm sewer: profile CD-STRM-STAN Storm sewer: stationing CD-STRM-STRC Storm sewer: structures CD-STRM-UGND Storm sewer: underground CD-SWLK Sidewalks CD-SWLK Sidewalks: asphalt CD-SWLK-ASPH Sidewalks: concrete CD-TINN Triangulated irregular network CD-TINN-BNDY Triangulated irregular network: boundary CD-TINN-FALT Triangulated irregular network: fault/break lines CD-TINN-VIEW Triangulated irregular network: triangulation view CD-TINN-VOID Triangulated irregular network: void regions CD-TOPO Topographic feature: depression	C□-STRM	Storm sewer
C_D-STRM-HWAL Storm sewer: headwall C_D-STRM-MHOL Storm sewer: manhole C_D-STRM-PIPE Storm sewer: piping C_D-STRM-PIPE-CMTL Storm sewer: piping: corrugated metal C_D-STRM-PIPE-CMTL Storm sewer: piping: reinforced concrete C_D-STRM-PIPE-RCON Storm sewer: profile C_D-STRM-PROF Storm sewer: profile C_D-STRM-STAN Storm sewer: stationing C_D-STRM-STRC Storm sewer: structures C_D-STRM-UGND Storm sewer: underground C_D-SWLK Sidewalks C_D-SWLK Sidewalks: asphalt C_D-SWLK-CONC Sidewalks: concrete C_D-TINN Triangulated irregular network C_D-TINN-BNDY Triangulated irregular network: fault/break lines C_D-TINN-FALT Triangulated irregular network: triangulation view C_D-TINN-VIEW Triangulated irregular network: void regions C_D-TOPO Topographic feature: depression	C□-STRM-CNTR	Storm sewer: center
C□-STRM-MHOL Storm sewer: manhole C□-STRM-PIPE Storm sewer: piping C□-STRM-PIPE-CMTL Storm sewer: piping: corrugated metal C□-STRM-PIPE-RCON Storm sewer: piping: reinforced concrete C□-STRM-PROF Storm sewer: profile C□-STRM-STAN Storm sewer: stationing C□-STRM-STRC Storm sewer: structures C□-STRM-UGND Storm sewer: underground C□-SWLK Sidewalks C□-SWLK-ASPH Sidewalks: asphalt C□-SWLK-CONC Sidewalks: concrete C□-TINN Triangulated irregular network C□-TINN-BNDY Triangulated irregular network: boundary C□-TINN-FALT Triangulated irregular network: fault/break lines C□-TINN-VIEW Triangulated irregular network: triangulation view C□-TINN-VOID Triangulated irregular network: void regions C□-TOPO Topographic feature: depression	C□-STRM-DIAG	Storm sewer: diagrams
C□-STRM-PIPE Storm sewer: piping C□-STRM-PIPE-CMTL Storm sewer: piping: corrugated metal C□-STRM-PIPE-RCON Storm sewer: piping: reinforced concrete C□-STRM-PROF Storm sewer: profile C□-STRM-STAN Storm sewer: stationing C□-STRM-STRC Storm sewer: structures C□-STRM-UGND Storm sewer: underground C□-SWLK Sidewalks C□-SWLK-ASPH Sidewalks: asphalt C□-SWLK-CONC Sidewalks: concrete C□-TINN Triangulated irregular network C□-TINN-BNDY Triangulated irregular network: boundary C□-TINN-FALT Triangulated irregular network: fault/break lines C□-TINN-VIEW Triangulated irregular network: triangulation view C□-TINN-VOID Triangulated irregular network: void regions C□-TOPO Topographic feature C□-TOPO-DEPR Topographic feature: depression	C□-STRM-HWAL	Storm sewer: headwall
C□-STRM-PIPE-CMTL Storm sewer: piping: corrugated metal C□-STRM-PIPE-RCON Storm sewer: piping: reinforced concrete C□-STRM-PROF Storm sewer: profile C□-STRM-STAN Storm sewer: stationing C□-STRM-STRC Storm sewer: structures C□-STRM-UGND Storm sewer: underground C□-SWLK Sidewalks C□-SWLK Sidewalks: asphalt C□-SWLK-ASPH Sidewalks: concrete C□-TINN Triangulated irregular network C□-TINN-BNDY Triangulated irregular network: boundary C□-TINN-FALT Triangulated irregular network: fault/break lines C□-TINN-VIEW Triangulated irregular network: void regions C□-TINN-VOID Triangulated irregular network: void regions C□-TOPO Topographic feature C□-TOPO-DEPR Topographic feature: depression	C□-STRM-MHOL	Storm sewer: manhole
C□-STRM-PIPE-RCON Storm sewer: piping: reinforced concrete C□-STRM-PROF Storm sewer: profile C□-STRM-STAN Storm sewer: stationing C□-STRM-STRC Storm sewer: structures C□-STRM-UGND Storm sewer: underground C□-SWLK Sidewalks C□-SWLK-ASPH Sidewalks: asphalt C□-SWLK-CONC Sidewalks: concrete C□-TINN Triangulated irregular network C□-TINN-BNDY Triangulated irregular network: boundary C□-TINN-FALT Triangulated irregular network: fault/break lines C□-TINN-VIEW Triangulated irregular network: triangulation view C□-TINN-VOID Triangulated irregular network: void regions C□-TOPO Topographic feature C□-TOPO-DEPR Topographic feature: depression	C□-STRM-PIPE	Storm sewer: piping
CSTRM-PROF Storm sewer: profile CSTRM-STAN Storm sewer: stationing CSTRM-STRC Storm sewer: structures CSTRM-UGND Storm sewer: underground CSWLK Sidewalks CSWLK-ASPH Sidewalks: asphalt CSWLK-CONC Sidewalks: concrete CTINN Triangulated irregular network CTINN-BNDY Triangulated irregular network: boundary CTINN-FALT Triangulated irregular network: fault/break lines CTINN-VIEW Triangulated irregular network: triangulation view CTINN-VOID Triangulated irregular network: void regions CTOPO Topographic feature CTOPO-DEPR Topographic feature: depression	C□-STRM-PIPE-CMTL	Storm sewer: piping: corrugated metal
CSTRM-STAN Storm sewer: stationing CSTRM-STRC Storm sewer: structures CSTRM-UGND Storm sewer: underground CSWLK Sidewalks CSWLK-ASPH Sidewalks: asphalt CSWLK-CONC Sidewalks: concrete CTINN Triangulated irregular network CTINN-BNDY Triangulated irregular network: boundary CTINN-FALT Triangulated irregular network: fault/break lines CTINN-VIEW Triangulated irregular network: triangulation view CTINN-VOID Triangulated irregular network: void regions CTOPO Topographic feature CTOPO-DEPR Topographic feature: depression	C□-STRM-PIPE-RCON	Storm sewer: piping: reinforced concrete
CSTRM-STRC Storm sewer: structures CSTRM-UGND Storm sewer: underground CSWLK Sidewalks CSWLK-ASPH Sidewalks: asphalt CSWLK-CONC Sidewalks: concrete CTINN Triangulated irregular network CTINN-BNDY Triangulated irregular network: boundary CTINN-FALT Triangulated irregular network: fault/break lines CTINN-VIEW Triangulated irregular network: triangulation view CTINN-VOID Triangulated irregular network: void regions CTOPO Topographic feature CTOPO-DEPR Topographic feature: depression	C□-STRM-PROF	Storm sewer: profile
C□-STRM-UGND Storm sewer: underground C□-SWLK Sidewalks C□-SWLK-ASPH Sidewalks: asphalt C□-SWLK-CONC Sidewalks: concrete C□-TINN Triangulated irregular network C□-TINN-BNDY Triangulated irregular network: boundary C□-TINN-FALT Triangulated irregular network: fault/break lines C□-TINN-VIEW Triangulated irregular network: triangulation view C□-TINN-VOID Triangulated irregular network: void regions C□-TOPO Topographic feature C□-TOPO-DEPR Topographic feature: depression	C□-STRM-STAN	Storm sewer: stationing
CSWLK Sidewalks CSWLK-ASPH Sidewalks: asphalt CSWLK-CONC Sidewalks: concrete CTINN Triangulated irregular network CTINN-BNDY Triangulated irregular network: boundary CTINN-FALT Triangulated irregular network: fault/break lines CTINN-VIEW Triangulated irregular network: triangulation view CTINN-VOID Triangulated irregular network: void regions CTOPO Topographic feature CTOPO-DEPR Topographic feature: depression	C□-STRM-STRC	Storm sewer: structures
CSWLK-ASPH Sidewalks: asphalt CSWLK-CONC Sidewalks: concrete CTINN Triangulated irregular network CTINN-BNDY Triangulated irregular network: boundary CTINN-FALT Triangulated irregular network: fault/break lines CTINN-VIEW Triangulated irregular network: triangulation view CTINN-VOID Triangulated irregular network: void regions CTOPO Topographic feature CTOPO-DEPR Topographic feature: depression	C□-STRM-UGND	Storm sewer: underground
C□-SWLK-CONC Sidewalks: concrete C□-TINN Triangulated irregular network C□-TINN-BNDY Triangulated irregular network: boundary C□-TINN-FALT Triangulated irregular network: fault/break lines C□-TINN-VIEW Triangulated irregular network: triangulation view C□-TINN-VOID Triangulated irregular network: void regions C□-TOPO Topographic feature C□-TOPO-DEPR Topographic feature: depression	C□-SWLK	Sidewalks
C□-TINN Triangulated irregular network C□-TINN-BNDY Triangulated irregular network: boundary C□-TINN-FALT Triangulated irregular network: fault/break lines C□-TINN-VIEW Triangulated irregular network: triangulation view C□-TINN-VOID Triangulated irregular network: void regions C□-TOPO Topographic feature C□-TOPO-DEPR Topographic feature: depression	C□-SWLK-ASPH	Sidewalks: asphalt
CTINN-BNDY Triangulated irregular network: boundary CTINN-FALT Triangulated irregular network: fault/break lines CTINN-VIEW Triangulated irregular network: triangulation view CTINN-VOID Triangulated irregular network: void regions CTOPO Topographic feature CTOPO-DEPR Topographic feature: depression	C□-SWLK-CONC	Sidewalks: concrete
CTINN-FALT Triangulated irregular network: fault/break lines CTINN-VIEW Triangulated irregular network: triangulation view CTINN-VOID Triangulated irregular network: void regions CTOPO Topographic feature CTOPO-DEPR Topographic feature: depression	C□-TINN	Triangulated irregular network
C□-TINN-VIEW Triangulated irregular network: triangulation view C□-TINN-VOID Triangulated irregular network: void regions C□-TOPO Topographic feature C□-TOPO-DEPR Topographic feature: depression	C□-TINN-BNDY	Triangulated irregular network: boundary
CTINN-VOID Triangulated irregular network: void regions CTOPO Topographic feature CTOPO-DEPR Topographic feature: depression	C□-TINN-FALT	Triangulated irregular network: fault/break lines
CTOPO Topographic feature CTOPO-DEPR Topographic feature: depression	C□-TINN-VIEW	Triangulated irregular network: triangulation view
C□-TOPO-DEPR Topographic feature: depression	C□-TINN-VOID	Triangulated irregular network: void regions
	C□-TOPO	Topographic feature
C□-TOPO-MAJR Topographic feature: major (contours)	C□-TOPO-DEPR	Topographic feature: depression
	C□-TOPO-MAJR	Topographic feature: major (contours)

C□-TOPO-MINR	Topographic feature: minor (contours)
C□-TOPO-SPOT	Topographic feature: spot elevations
C□-TOPO-TPIT	Topographic feature: test pits
C□-TRAL	Trails or paths
C□-TRAL-ASPH	Trails or paths: asphalt
C ₋ -TRAL-CONC	Trails or paths: concrete
C ₋ -TRAL-GRVL	Trails or paths: gravel
C□-TRAL-MRKG	Trails or paths: pavement markings
C□-TRAL-SIGN	Trails or paths: signage
C□-TRAL-UPVD	Trails or paths: unpaved surface
C□-WALL	Walls
C□-WALL-CTLJ	Walls: control joint
C□-WALL-NSBR	Walls: noise barrier
C□-WALL-RTWL	Walls: retaining wall
C□-WALL-SHEA	Walls: structural bearing or shear walls
C□-WATR	Water supply
C□-WATR-DIAG	Water supply: diagrams
C□-WATR-INST	Water supply: instrumentation (meters, valves, etc.)
C□-WATR-PIPE	Water supply: piping
C□-WATR-PROF	Water supply: profile
Cn-WATR-STAN	Water supply: stationing
C ₋ -WATR-STRC	Water supply: structures
C□-WATR-UGND	Water supply: underground
C□-WATR-WELL	Water supply: well
C□-WETL	Wetlands
C□-WWAY	Waterway
C□-WWAY-DLPH	Waterway: dolphin
C□-WWAY-FEND	Waterway: fender
C ₋ -WWAY-MOOR	Waterway: mooring

5.3 CONTRACTOR/SHOP DRAWING LAYER LIST

Contractor/Shop Drawing Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Contractor/Shop Drawing Discipline Designators

Designator	Description	
Z	Contractor/Shop Drawings	

ZJ	User Defined
ZK	User Defined

Contractor/Shop Drawing Layer List

Layer Name	Description	
No layer names have been prescribed for this discipline.		

5.4 ELECTRICAL LAYER LIST

Electrical Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Designator	Description
ED	Electrical Demolition
El	Electrical Instrumentation
EL	Electrical Lighting
EP	Electrical Power
ES	Electrical Site
ET	Electrical Telecommunications
EY	Electrical Auxiliary Systems
EJ	User Defined
EK	User Defined

Electrical Layer List

Layer Name	Description
E□-ALRM	Alarm system
E ₋ AREA	Area
E□-AREA-OFST	Area: offset zones
E□-AREA-SHAD	Area: shade zones
E□-AUXL	Auxiliary systems
En-BELL	Bell system
E□-CABL	Cable systems
E□-CABL-COAX	Cable systems: coax cable
E□-CABL-FIBR	Cable systems: fiber optics cable
E□-CABL-MULT	Cable systems: multi-conductor cable

E ₋ -CABL-TRAY	Cable systems: cabletray and wireways
E ₋ CATH	Cathodic protection system
E ₋ -CATH-ANOD	Cathodic protection system: sacrificial anode
E□-CATH-CURR	Cathodic protection system: impress current
En-CATH-TEST	Cathodic protection system: test stations
E ₋ -CCTV	Closed-circuit television system
E ₋ -CLOK	Clock system
En-CLOK-CIRC	Clock system: circuits
En-CLOK-CLNG	Clock system: ceiling
E□-CLOK-CNMB	Clock system: circuit number
En-CLOK-EQPM	Clock system: equipment
E□-CLOK-FLOR	Clock system: floor
En-CLOK-WALL	Clock system: wall
E ₋ COMM	Communications
E ₋ -COMM-CIRC	Communications: circuits
En-COMM-CLNG	Communications: ceiling
E ₋ COMM-CNMB	Communications: circuit number
E ₋ COMM-EQPM	Communications: equipment
En-COMM-WALL	Communications: wall
E ₋ CONT	Controls and instrumentation
E□-CONT DEVC	Controls and instrumentation: devices
E□-CONT-WIRE	Controls and instrumentation: wiring
E□-DATA	Data/LAN system
E□-DATA-CIRC	Data/LAN system: circuits
E□-DATA-CLNG	Data/LAN system: ceiling
E□-DATA-CNMB	Data/LAN system: circuit number
E□-DATA-EQPM	Data/LAN system: equipment
E□-DATA-FLOR	Data/LAN system: floor
En-DATA-WALL	Data/LAN system: wall
E□-DIAG	Diagrams
E□-DIAG-BKRS	Diagrams: breakers
E□-DIAG-BUSS	Diagrams: bus duct
En-DIAG-ENCL	Diagrams: equipment enclosures
E□-DIAG-EQPM	Diagrams: equipment
En-DIAG-FEED	Diagrams: feeders
E□-DIAG-FLOR	Diagrams: floor
E□-DIAG-GRND	Diagrams: ground
E□-DIAG-SWCH	Diagrams: switches
E□-DIAG-XFMR	Diagrams: transformers
En-DICT	Dictation system

Ec-DICT-CLING Dictation system: ceiling Ec-DICT-CNMB Dictation system: circuit number Ec-DICT-CNMB Dictation system: circuit number Ec-DICT-WALL Dictation system: wall Ec-FIRE Fire protection Ec-FIRE Fire protection: barrier Ec-FIRE-BARR Fire protection: circuits Ec-FIRE-CING Fire protection: circuits Ec-FIRE-CNMB Fire protection: circuits Ec-FIRE-CNMB Fire protection: circuit number Ec-FIRE-CNMB Fire protection: circuit number Ec-FIRE-WALL Fire protection: wall Ec-GRND Ground system Ec-GRND-CINC Ground system: circuits Ec-GRND-CLNG Ground system: circuit number Ec-GRND-CNMB Ground system: circuit number Ec-GRND-CNMB Ground system: circuit number Ec-GRND-DIAG Ground system: equipment Ec-GRND-DIAG Ground system: equipment Ec-GRND-DIAG Ground system: equipment Ec-GRND-COMB Ground system: equipment Ec-GRND-COMB Ground system: equipment Ec-GRND-COMB Ground system: equipment Ec-GRND-COMB Ground system: wall Ec-INST Instrumentation system Ec-INST Instrumentation system Ec-INST-CINC Instrumentation system: circuit number Ec-INST-COMB Instrumentation system: equipment Ec-INST-CNMB Instrumentation system: equipment Ec-INST-CNMB Instrumentation system: equipment Ec-INST-WALL Instrumentation system: equipment Ec-INST-WALL Instrumentation system: equipment Ec-INST-WALL Instrumentation system: equipment Ec-INST-WALL Instrumentation system: equipment Ec-INST-CIRC Lighting: circuits: critical Ec-LITE-CIRC Lighting: circuits: emergency Ec-LITE-CIRC-EMER Lighting: circuits: emergency Ec-LITE-CING-EMER Lighting: circuit number Ec-LITE-CLNG-EMER Lighting: circuit number Ec-LITE-CNMB-EMER Lighting: circuit number Ec-LITE-CNMB-EMER Lighting: circuit number Ec-LITE-CNMB-EMER Lighting: circuit number: emergency	E□-DICT-CIRC	Dictation system: circuits
En-DICT-CNMB Dictation system: circuit number En-DICT-EQPM Dictation system: equipment En-DICT-WALL Dictation system: wall En-FIRE Fire protection En-FIRE-BARR Fire protection: circuits En-FIRE-CLNG Fire protection: circuits En-FIRE-CLNG Fire protection: circuit number En-FIRE-CNMB Fire protection: circuit number En-FIRE-CNMB Fire protection: circuit number En-FIRE-WALL Fire protection: wall En-FIRE-WALL Fire protection: wall En-GRND Ground system En-GRND-CIRC Ground system: circuits En-GRND-CLNG Ground system: circuit number En-GRND-CNMB Ground system: circuit number En-GRND-CNMB Ground system: diagrams En-GRND-CNMB Ground system: equipment En-GRND-EQPM Ground system: equipment En-INST-CIRC Instrumentation system En-INST-CIRC Instrumentation system: circuits En-INST-CLNG Instrumentation system: circuit number En-INST-CNMB Instrumentation system: circuit number En-INST-CNMB Instrumentation system: circuit number En-INST-WALL Instrumentation system: circuit number En-INST-WALL Instrumentation system: circuit number En-INST-CROPM Lighting: circuits En-LITE-CIRC Lighting En-LITE-CIRC Lighting: circuits En-LITE-CIRC-CRIT Lighting: circuits: emergency En-LITE-CLNG-EMER Lighting: circuits: emergency En-LITE-CLNG-EMER Lighting: circuits: emergency En-LITE-CLNG-EMIR Lighting: circuit number: emergency En-LITE-CNMB-EMER Lighting: circuit number: emergency En-LITE-CNMB-EMER Lighting: circuit number: emergency En-LITE-CNMB-EMER Lighting: circuit number: emergency		 -
Eu-DICT-EQPM Dictation system: equipment En-DICT-WALL Dictation system: wall En-FIRE Fire protection En-FIRE Fire protection: barrier En-FIRE-CIRC Fire protection: circuits En-FIRE-CIRC Fire protection: circuits En-FIRE-CING Fire protection: circuit number En-FIRE-CNMB Fire protection: circuit number En-FIRE-EQPM Fire protection: equipment En-FIRE-WALL Fire protection: wall En-GRND Ground system En-GRND-CIRC Ground system: circuits En-GRND-CIRC Ground system: circuit number En-GRND-CNMB Ground system: circuit number En-GRND-CNMB Ground system: equipment En-GRND-CNMB Ground system: equipment En-GRND-EQPM Ground system: equipment En-GRND-EQPM Ground system: equipment En-GRND-EQPM Ground system: equipment En-GRND-EQPM Ground system: equipment En-INST Instrumentation system En-INST Instrumentation system: circuits En-INST-CIRC Instrumentation system: circuits En-INST-CING Instrumentation system: circuit number En-INST-CNMB Instrumentation system: circuit number En-INST-WALL Instrumentation system: circuit number En-INST-WALL Instrumentation system: circuit number En-INST-WALL Instrumentation system: circuit number En-INST-CIRC Lighting: circuits En-LITE-CIRC Lighting: circuits En-LITE-CIRC-CRIT Lighting: circuits: emergency En-LITE-CLNG-EMER Lighting: circuits: emergency En-LITE-CLNG-EMER Lighting: circuits: emergency En-LITE-CLNG-EMER Lighting: circuit number: emergency En-LITE-CNMB-EMER Lighting: circuit number: critical En-LITE-CNMB-EMER Lighting: circuit number: emergency En-LITE-CNMB-EMER Lighting: circuit number: emergency En-LITE-CNMB-EMER Lighting: circuit number: emergency		
Eci-Dict-WALL Dictation system: wall Edi-FIRE Fire protection Edi-FIRE-BARR Fire protection: circuits Edi-FIRE-CIRC Fire protection: circuit number Edi-FIRE-CING Fire protection: circuit number Edi-FIRE-CING Fire protection: circuit number Edi-FIRE-COMB Fire protection: circuit number Edi-FIRE-GPM Fire protection: wall Edi-FIRE-WALL Fire protection: wall Edi-GRND Ground system Edi-GRND-CIRC Ground system: circuits Edi-GRND-CING Ground system: circuit number Edi-GRND-CING Ground system: circuit number Edi-GRND-CING Ground system: diagrams Edi-GRND-DIAG Ground system: equipment Edi-GRND-EQM Ground system: equipment Edi-GRND-EQM Ground system: wall Edi-INST Instrumentation system Edi-INST Instrumentation system: circuits Edi-INST-CING Instrumentation system: circuit number Edi-INST-CING Instrumentation system: circuit number Edi-INST-COMB Instrumentation system: equipment Edi-INST-WALL Instrumentation system: equipment Edi-INST-WALL Instrumentation system: equipment Edi-INST-WALL Instrumentation system: equipment Edi-INST-WALL Instrumentation system: equipment Edi-INST-CINC Lighting: circuits Edi-LITE Lighting Edi-LITE-CIRC Lighting: circuits Edi-LITE-CIRC-CRIT Lighting: circuits: emergency Edi-LITE-CLNG-EMER Lighting: ceiling: emergency Edi-LITE-CLNG-EXIT Lighting: ceiling: emergency Edi-LITE-CNMB-EMER Lighting: circuit number: critical Edi-LITE-CNMB-EMER Lighting: circuit number: emergency Edi-LITE-CNMB-EMER Lighting: circuit number: emergency		
Ea-FIRE Fire protection Ea-FIRE-BARR Fire protection: barrier Ea-FIRE-CIRC Fire protection: circuits Ea-FIRE-CING Fire protection: circuit number Ea-FIRE-CNMB Fire protection: circuit number Ea-FIRE-CNMB Fire protection: equipment Ea-FIRE-WALL Fire protection: wall Ea-GRND Ground system Ea-GRND-CIRC Ground system: circuits Ea-GRND-CLNG Ground system: circuit number Ea-GRND-CLNG Ground system: circuit number Ea-GRND-CNMB Ground system: diagrams Ea-GRND-DIAG Ground system: equipment Ea-GRND-EQH Ground system: equipment Ea-GRND-EQH Ground system: equipment Ea-GRND-WALL Ground system: wall Ea-INST Instrumentation system Ea-INST-CIRC Instrumentation system: circuit number Ea-INST-CNMB Instrumentation system: circuit number Ea-INST-CNMB Instrumentation system: equipment Ea-INST-CNMB Instrumentation system: equipment Ea-INST-WALL Instrumentation system: equipment Ea-INST-WALL Instrumentation system: equipment Ea-INST-WALL Instrumentation system: equipment Ea-INTC Intercom/PA systems Ea-LITE Lighting Ea-LITE-CIRC Lighting: circuits: emergency Ea-LITE-CLNG Lighting: circuits: emergency Ea-LITE-CLNG-EMER Lighting: circuits: emergency Ea-LITE-CLNG-EXIT Lighting: ceiling: emergency Ea-LITE-CNMB-EMER Lighting: circuit number: emergency	-	
En-Fire-Barr En-Fire-CIRC En-Fire-CIRC En-Fire-CLNG Fire protection: circuits En-Fire-CLNG En-Fire-CLNG Fire protection: circuit number En-Fire-CNMB Fire protection: circuit number En-Fire-Fire-CNMB Fire protection: equipment En-Fire-WALL Fire protection: wall En-GRND Ground system En-GRND En-GRND-CIRC Ground system: circuits En-GRND-CLNG Ground system: circuit number En-GRND-CNMB Ground system: circuit number En-GRND-CNMB Ground system: circuit number En-GRND-ENDMB Ground system: diagrams En-GRND-ENDMB En-GRND-ENDMB Ground system: equipment En-GRND-ENDMB En-GRND-WALL Ground system: equipment En-GRND-WALL Ground system: circuits En-INST Instrumentation system: circuits En-INST-CIRC Instrumentation system: circuits En-INST-CING Instrumentation system: circuit number En-INST-CNMB Instrumentation system: circuit number En-INST-CNMB Instrumentation system: equipment En-INST-ENDMB Instrumentation system: equipment En-INST-WALL Instrumentation system: equipment En-INST-WALL Instrumentation system: equipment En-INST-COMPA systems En-INST-WALL Instrumentation system: equipment En-INST-COMPA systems En-INST-COMPA systems En-INST-COMPA systems En-INST-CIRC En-LITE En-LITE En-LITE En-LITE Lighting En-LITE En-LITE Lighting: circuits: circuits En-LITE-CIRC-CRIT Lighting: circuits: emergency En-LITE-CING En-LITE-COMB Lighting: circuit number En-LITE-CING En-LITE		
En-Fire-CIRC Fire protection: circuits En-Fire-CING Fire protection: ceiling En-Fire-CINB Fire protection: circuit number En-Fire-COMB Fire protection: equipment En-Fire-COMB Fire protection: equipment En-Fire-COMB Fire protection: equipment En-Fire-CING Fire protection: wall En-GRND Ground system En-GRND-CIRC Ground system: circuits En-GRND-CING Ground system: circuit number En-GRND-CING Ground system: circuit number En-GRND-CING Ground system: circuit number En-GRND-CING Ground system: diagrams En-GRND-EQPM Ground system: equipment En-GRND-EQPM Ground system: equipment En-GRND-WALL Ground system: wall En-INST Instrumentation system: circuits En-INST-CIRC Instrumentation system: circuits En-INST-CING Instrumentation system: circuit number En-INST-CING Instrumentation system: equipment En-INST-CING Instrumentation En-INST-CING Instrumentation En-INST-CING Inst		
En-Fire-CLNG Fire protection: ceiling En-Fire-CNMB Fire protection: circuit number En-Fire-CNMB Fire protection: equipment En-Fire-CNMB Fire protection: equipment En-Fire-CNML Fire protection: wall En-GRND Ground system En-GRND-CIRC Ground system: circuits En-GRND-CLNG Ground system: circuit number En-GRND-CNMB Ground system: circuit number En-GRND-CNMB Ground system: diagrams En-GRND-EQPM Ground system: equipment En-GRND-EQPM Ground system: equipment En-GRND-EQUI Ground system: wall En-GRND-WALL Ground system: wall En-INST Instrumentation system En-INST-CIRC Instrumentation system: circuits En-INST-CLNG Instrumentation system: circuit number En-INST-CNMB Instrumentation system: equipment En-INST-CNMB Instrumentation system: equipment En-INST-WALL Instrumentation system: wall En-INST-WALL Instrumentation system: wall En-INST-CIRC Lighting En-LITE Lighting En-LITE Lighting En-LITE-CIRC-CRIT Lighting: circuits: circuits En-LITE-CIRC-CRIT Lighting: circuits: emergency En-LITE-CING-CRIT Lighting: circuits: emergency En-LITE-CLNG-CRIT Lighting: circuits: emergency En-LITE-CLNG-EMER Lighting: circuit number En-LITE-CLNG-EXIT Lighting: circuit number: cirtical En-LITE-CLNG-CRIT Lighting: circuit number: circuit number: circuit number: circuit number: emergency En-LITE-CNMB-CRIT Lighting: circuit number: circuit number: emergency En-LITE-CNMB-EMER Lighting: circuit number: emergency En-LITE-CNMB-EMER Lighting: circuit number: emergency		
En-FIRE-CNMB Fire protection: circuit number En-FIRE-EQPM Fire protection: equipment En-FIRE-EQPM Fire protection: wall En-FIRE-WALL Fire protection: wall En-GRND Ground system En-GRND-CIRC Ground system: circuits En-GRND-CLNG Ground system: circuit number En-GRND-CNMB Ground system: circuit number En-GRND-CNMB Ground system: diagrams En-GRND-DIAG Ground system: equipment En-GRND-EQPM Ground system: equipment En-GRND-EQUI Ground system: equipment En-GRND-EQUI Ground system: equipotential En-GRND-EQUI Ground system: equipotential En-INST Instrumentation system En-INST Instrumentation system En-INST-CIRC Instrumentation system: circuits En-INST-CLNG Instrumentation system: circuit number En-INST-CNMB Instrumentation system: equipment En-INST-EQPM Instrumentation system: equipment En-INST-WALL Instrumentation system: equipment En-INST-WALL Instrumentation system: equipment En-INTC Intercom/PA systems En-LITE Lighting En-LITE-CIRC Lighting: circuits En-LITE-CIRC-CRIT Lighting: circuits En-LITE-CIRC-CRIT Lighting: circuits: emergency En-LITE-CLNG-CRIT Lighting: ceiling: emergency En-LITE-CLNG-CRIT Lighting: ceiling: emergency En-LITE-CNG-EMER Lighting: ceiling: emergency En-LITE-CNG-EXIT Lighting: circuit number: emergency En-LITE-CNMB-CRIT Lighting: circuit number: emergency En-LITE-CNMB-EMER Lighting: circuit number: emergency		
Eb-FIRE-EQPM Fire protection: equipment Eb-FIRE-WALL Fire protection: wall Eb-GRND Ground system Eb-GRND-CIRC Ground system: circuits Eb-GRND-CLNG Ground system: circuit number Eb-GRND-CLNG Ground system: circuit number Eb-GRND-CNMB Ground system: circuit number Eb-GRND-CNMB Ground system: equipment Eb-GRND-EQPM Ground system: equipment Eb-GRND-EQUI Ground system: equipotential Eb-GRND-WALL Ground system: wall Eb-INST Instrumentation system Eb-INST-CIRC Instrumentation system: circuits Eb-INST-CLNG Instrumentation system: circuit number Eb-INST-CNMB Instrumentation system: equipment Eb-INST-CNMB Instrumentation system: equipment Eb-INST-WALL Instrumentation system: equipment Eb-INTC Intercom/PA systems Eb-INTC Intercom/PA systems Eb-LITE Lighting Eb-LITE-CIRC Lighting: circuits Eb-LITE-CIRC-CRIT Lighting: circuits: cirtical Eb-LITE-CIRC-CRIT Lighting: circuits: emergency Eb-LITE-CLNG-CRIT Lighting: ceiling:		
Eo-FIRE-WALL Fire protection: wall Eo-GRND Ground system Eo-GRND-CIRC Ground system: circuits Eo-GRND-CLNG Ground system: circuit number Eo-GRND-CNMB Ground system: circuit number Eo-GRND-CNMB Ground system: circuit number Eo-GRND-DIAG Ground system: equipment Eo-GRND-EQPM Ground system: equipment Eo-GRND-WALL Ground system: wall Eo-INST Instrumentation system Eo-INST-CIRC Instrumentation system: circuits Eo-INST-CLNG Instrumentation system: circuit number Eo-INST-CNMB Instrumentation system: circuit number Eo-INST-EQPM Instrumentation system: equipment Eo-INST-WALL Instrumentation system: equipment Eo-INST-WALL Instrumentation system: equipment Eo-INTC Intercom/PA systems Eo-LITE Lighting Eo-LITE-CIRC Lighting: circuits: cirtical Eo-LITE-CIRC-CRIT Lighting: circuits: emergency Eo-LITE-CLNG-CRIT Lighting: circuits: emergency Eo-LITE-CLNG-CRIT Lighting: ceiling: emergency Eo-LITE-CLNG-EMER Lighting: circuit number Eo-LITE-CLNG-EXIT Lighting: circuit number Eo-LITE-CNMB-CRIT Lighting: circuit number: cirtical Eo-LITE-CNMB-CRIT Lighting: circuit number: cirtical Eo-LITE-CNMB-CRIT Lighting: circuit number: emergency Eo-LITE-CNMB-CRIT Lighting: circuit number: emergency Eo-LITE-CNMB-EMER Lighting: circuit number: emergency Eo-LITE-CNMB-EMER Lighting: circuit number: emergency		
Eb-GRND Ground system: circuits Eb-GRND-CLNG Ground system: circuit number Eb-GRND-CNMB Ground system: circuit number Eb-GRND-DIAG Ground system: diagrams Eb-GRND-EQPM Ground system: equipment Eb-GRND-EQUI Ground system: equipment Eb-GRND-EQUI Ground system: wall Eb-INST Instrumentation system Eb-INST-CIRC Instrumentation system: circuits Eb-INST-CLNG Instrumentation system: circuits Eb-INST-CNMB Instrumentation system: circuit number Eb-INST-CNMB Instrumentation system: circuit number Eb-INST-CNMB Instrumentation system: circuit number Eb-INST-WALL Instrumentation system: wall Eb-INST-WALL Instrumentation system: wall Eb-INST-WALL Instrumentation system: circuit number Eb-INST-WALL Instrumentation system: wall Eb-INST-WALL Instrumentation system: circuit number Eb-INST-WALL Instrumentation system: circuit number: circui		
ED-GRND-CIRC Ground system: circuits ED-GRND-CLNG Ground system: ceiling ED-GRND-CNMB Ground system: circuit number ED-GRND-DIAG Ground system: equipment ED-GRND-EQPM Ground system: equipment ED-GRND-EQUI Ground system: equipment ED-GRND-EQUI Ground system: wall ED-GRND-WALL Ground system: wall ED-INST Instrumentation system ED-INST-CIRC Instrumentation system: circuits ED-INST-CLNG Instrumentation system: circuit number ED-INST-CNMB Instrumentation system: circuit number ED-INST-CNMB Instrumentation system: equipment ED-INST-WALL Instrumentation system: wall ED-INST-WALL Instrumentation system: wall ED-INTC Intercom/PA systems ED-LITE Lighting ED-LITE Lighting: circuits: circical ED-LITE-CIRC-CRIT Lighting: circuits: emergency ED-LITE-CLNG-CRIT Lighting: ceiling ED-LITE-CLNG-CRIT Lighting: ceiling ED-LITE-CLNG-EMER Lighting: ceiling: emergency ED-LITE-CLNG-EMER Lighting: circuit number ED-LITE-CLNG-EXIT Lighting: circuit number ED-LITE-CNMB-CRIT Lighting: circuit number: critical ED-LITE-CNMB-CRIT Lighting: circuit number: emergency ED-LITE-CNMB-CRIT Lighting: circuit number: emergency ED-LITE-CLNG-EMER Lighting: circuit number: emergency ED-LITE-CLNG-EMER Lighting: circuit number: emergency		 -
ED-GRND-CLNG Ground system: ceiling ED-GRND-CNMB Ground system: circuit number ED-GRND-DIAG Ground system: diagrams ED-GRND-EQPM Ground system: equipment ED-GRND-EQUI Ground system: equipotential ED-GRND-WALL Ground system: wall ED-INST Instrumentation system ED-INST-CIRC Instrumentation system: ceiling ED-INST-CLNG Instrumentation system: ceiling ED-INST-CNMB Instrumentation system: ceiling ED-INST-CNMB Instrumentation system: equipment ED-INST-WALL Instrumentation system: wall ED-INST-WALL Instrumentation system: wall ED-INTC Intercom/PA systems ED-LITE Lighting ED-LITE-CIRC Lighting: circuits ED-LITE-CIRC-CRIT Lighting: circuits: critical ED-LITE-CIRC-CRIT Lighting: circuits: critical ED-LITE-CLNG-CRIT Lighting: ceiling: ceiling ED-LITE-CLNG-CRIT Lighting: ceiling: ceiling: emergency ED-LITE-CLNG-EMER Lighting: ceiling: emergency ED-LITE-CLNG-EXIT Lighting: ceiling: exit ED-LITE-CNMB-CRIT Lighting: circuit number: critical ED-LITE-CNMB-CRIT Lighting: circuit number: emergency ED-LITE-CNMB-EMER Lighting: circuit number: emergency ED-LITE-CNMB-EMER Lighting: circuit number: emergency		
ED-GRND-CNMB Ground system: circuit number ED-GRND-DIAG Ground system: equipment ED-GRND-EQPM Ground system: equipment ED-GRND-EQUI Ground system: equipotential ED-GRND-WALL Ground system: wall ED-INST Instrumentation system ED-INST-CIRC Instrumentation system: circuits ED-INST-CLNG Instrumentation system: ceiling ED-INST-CNMB Instrumentation system: circuit number ED-INST-CNMB Instrumentation system: equipment ED-INST-WALL Instrumentation system: wall ED-INST-WALL Instrumentation system: wall ED-INTC Intercom/PA systems ED-LITE Lighting ED-LITE-CIRC Lighting: circuits ED-LITE-CIRC-CRIT Lighting: circuits: critical ED-LITE-CIRC-CRIT Lighting: circuits: emergency ED-LITE-CLNG-CRIT Lighting: ceiling: ceiling: emergency ED-LITE-CLNG-EMER Lighting: ceiling: emergency ED-LITE-CLNG-EMER Lighting: ceiling: exit ED-LITE-CNMB-EMER Lighting: circuit number: emergency ED-LITE-CNMB-EMER Lighting: circuit number: emergency ED-LITE-CNMB-EMER Lighting: circuit number: emergency		
ED-GRND-DIAG Ground system: diagrams ED-GRND-EQUI Ground system: equipment ED-GRND-WALL Ground system: wall ED-INST Instrumentation system: circuits ED-INST-CIRC Instrumentation system: circuit number ED-INST-CNMB Instrumentation system: circuit number ED-INST-WALL Instrumentation system: wall ED-INTC Intercom/PA systems ED-LITE Lighting ED-LITE Lighting: circuits ED-LITE-CIRC Lighting: circuits: critical ED-LITE-CIRC-EMER Lighting: circuits: emergency ED-LITE-CLNG Lighting: circuits: emergency ED-LITE-CLNG-CRIT Lighting: circuits: emergency ED-LITE-CLNG-CRIT Lighting: circuits: emergency ED-LITE-CLNG-EMER Lighting: circuit number ED-LITE-CLNG-EXIT Lighting: circuit number: critical ED-LITE-CNMB-CRIT Lighting: circuit number: critical ED-LITE-CNMB-CRIT Lighting: circuit number: emergency		
ED-GRND-EQPM Ground system: equipment ED-GRND-EQUI Ground system: equipotential ED-GRND-WALL Ground system: wall ED-INST Instrumentation system ED-INST-CIRC Instrumentation system: circuits ED-INST-CLNG Instrumentation system: circuit number ED-INST-CNMB Instrumentation system: circuit number ED-INST-EQPM Instrumentation system: equipment ED-INST-WALL Instrumentation system: wall ED-INTC Intercom/PA systems ED-LITE Lighting ED-LITE Lighting: circuits: critical ED-LITE-CIRC-CRIT Lighting: circuits: critical ED-LITE-CLNG Lighting: circuits: emergency ED-LITE-CLNG-CRIT Lighting: circuits: emergency ED-LITE-CLNG-CRIT Lighting: circuits: emergency ED-LITE-CLNG-CRIT Lighting: circuits: emergency ED-LITE-CLNG-CRIT Lighting: circuits: emergency ED-LITE-CLNG-EMER Lighting: circuit number ED-LITE-CNG-EXIT Lighting: circuit number ED-LITE-CNMB-CRIT Lighting: circuit number: critical ED-LITE-CNMB-CRIT Lighting: circuit number: critical		 -
ED-GRND-EQUI Ground system: equipotential ED-GRND-WALL Ground system: wall ED-INST Instrumentation system ED-INST-CIRC Instrumentation system: ceiling ED-INST-CLNG Instrumentation system: circuits ED-INST-CNMB Instrumentation system: circuit number ED-INST-CAPM Instrumentation system: equipment ED-INST-WALL Instrumentation system: wall ED-INTC Intercom/PA systems ED-LITE Lighting ED-LITE-CIRC Lighting: circuits ED-LITE-CIRC-CRIT Lighting: circuits: critical ED-LITE-CIRC-CRIT Lighting: circuits: emergency ED-LITE-CLNG Lighting: ceiling ED-LITE-CLNG-CRIT Lighting: ceiling ED-LITE-CLNG-CRIT Lighting: ceiling: critical ED-LITE-CLNG-EMER Lighting: ceiling: emergency ED-LITE-CLNG-EXIT Lighting: ceiling: emergency ED-LITE-CNG-EXIT Lighting: ceiling: exit ED-LITE-CNMB Lighting: circuit number ED-LITE-CNMB-CRIT Lighting: circuit number: critical ED-LITE-CNMB-CRIT Lighting: circuit number: emergency ED-LITE-CNMB-EMER Lighting: circuit number: emergency		
ED-GRND-WALL Ground system: wall ED-INST Instrumentation system: circuits ED-INST-CIRC Instrumentation system: circuits ED-INST-CLNG Instrumentation system: circuit number ED-INST-CNMB Instrumentation system: circuit number ED-INST-EQPM Instrumentation system: equipment ED-INST-WALL Instrumentation system: wall ED-INTC Intercom/PA systems ED-LITE Lighting ED-LITE-CIRC Lighting: circuits ED-LITE-CIRC-CRIT Lighting: circuits: critical ED-LITE-CLNG-CRIT Lighting: circuits: emergency ED-LITE-CLNG Lighting: ceiling ED-LITE-CLNG-CRIT Lighting: ceiling: critical ED-LITE-CLNG-EMER Lighting: ceiling: emergency ED-LITE-CLNG-EMER Lighting: ceiling: emergency ED-LITE-CLNG-EXIT Lighting: ceiling: exit ED-LITE-CNMB Lighting: circuit number ED-LITE-CNMB-CRIT Lighting: circuit number: emergency ED-LITE-CNMB-EMER Lighting: circuit number: emergency ED-LITE-CNMB-EMER Lighting: circuit number: emergency	E ₋ -GRND-EQPM	
ED-INST Instrumentation system: circuits ED-INST-CLNG Instrumentation system: circuits ED-INST-CLNG Instrumentation system: circuit number ED-INST-CNMB Instrumentation system: circuit number ED-INST-EQPM Instrumentation system: equipment ED-INST-WALL Instrumentation system: wall ED-INTC Intercom/PA systems ED-LITE Lighting ED-LITE Lighting ED-LITE-CIRC Lighting: circuits ED-LITE-CIRC-CRIT Lighting: circuits: critical ED-LITE-CIRC-EMER Lighting: circuits: emergency ED-LITE-CLNG Lighting: ceiling ED-LITE-CLNG-CRIT Lighting: ceiling ED-LITE-CLNG-EMER Lighting: ceiling: emergency ED-LITE-CLNG-EMER Lighting: ceiling: emergency ED-LITE-CLNG-EXIT Lighting: ceiling: exit ED-LITE-CNMB Lighting: circuit number ED-LITE-CNMB-CRIT Lighting: circuit number: emergency ED-LITE-CNMB-EMER Lighting: circuit number: emergency ED-LITE-CNMB-EMER Lighting: circuit number: emergency	E ₋ -GRND-EQUI	 -
En-INST-CIRC Instrumentation system: circuits En-INST-CNG Instrumentation system: ceiling En-INST-CNMB Instrumentation system: circuit number En-INST-EQPM Instrumentation system: equipment En-INST-WALL Instrumentation system: wall En-INTC Intercom/PA systems En-ITE Lighting En-LITE Lighting: circuits En-LITE-CIRC Lighting: circuits: critical En-LITE-CIRC-CRIT Lighting: circuits: emergency En-LITE-CIRC-EMER Lighting: ceiling: critical En-LITE-CLNG Lighting: ceiling: critical En-LITE-CLNG-CRIT Lighting: ceiling: critical En-LITE-CLNG-EMER Lighting: ceiling: emergency En-LITE-CLNG-EMER Lighting: ceiling: exit En-LITE-CNMB-EMER Lighting: circuit number En-LITE-CNMB-CRIT Lighting: circuit number: critical En-LITE-CNMB-EMER Lighting: circuit number: emergency En-LITE-CNMB-EMER Lighting: circuit number: emergency	En-GRND-WALL	Ground system: wall
ED-INST-CLNG Instrumentation system: ceiling ED-INST-CNMB Instrumentation system: circuit number ED-INST-EQPM Instrumentation system: equipment ED-INST-WALL Instrumentation system: wall ED-INST-WALL Instrumentation system: equipment ED-INST-COMPA systems ED-INST-COMPA systems ED-INST-COMPA systems ED-INST-COMPA systems ED-INST-COMPA systems ED-INST-COMPA systems ED-INST-COMPA system: equipment ED-INST-COMPA	E ₋ INST	Instrumentation system
En-INST-CNMB Instrumentation system: circuit number En-INST-EQPM Instrumentation system: equipment En-INST-WALL Instrumentation system: wall En-INST-WALL Intercom/PA systems Intercom/PA syst	En-INST-CIRC	Instrumentation system: circuits
En-INST-EQPM Instrumentation system: equipment En-INST-WALL Instrumentation system: wall En-INTC Intercom/PA systems En-INTE Lighting En-LITE Lighting: circuits En-LITE-CIRC-CRIT Lighting: circuits: critical En-LITE-CIRC-EMER Lighting: circuits: emergency En-LITE-CLNG Lighting: ceiling En-LITE-CLNG-CRIT Lighting: ceiling: critical En-LITE-CLNG-EMER Lighting: ceiling: emergency En-LITE-CLNG-EMER Lighting: ceiling: emergency En-LITE-CLNG-EMER Lighting: ceiling: exit En-LITE-CNG-EXIT Lighting: ceiling: exit En-LITE-CNMB Lighting: circuit number En-LITE-CNMB-CRIT Lighting: circuit number: critical En-LITE-CNMB-CRIT Lighting: circuit number: critical En-LITE-CNMB-EMER Lighting: circuit number: emergency En-LITE-EMER Lighting: emergency	E□-INST-CLNG	Instrumentation system: ceiling
ED-INST-WALL Instrumentation system: wall ED-INTC Intercom/PA systems ED-LITE Lighting ED-LITE-CIRC Lighting: circuits ED-LITE-CIRC-CRIT Lighting: circuits: critical ED-LITE-CIRC-EMER Lighting: circuits: emergency ED-LITE-CLNG Lighting: ceiling ED-LITE-CLNG-CRIT Lighting: ceiling: critical ED-LITE-CLNG-EMER Lighting: ceiling: emergency ED-LITE-CLNG-EMER Lighting: ceiling: emergency ED-LITE-CLNG-EXIT Lighting: ceiling: exit ED-LITE-CNMB Lighting: circuit number ED-LITE-CNMB-CRIT Lighting: circuit number: critical ED-LITE-CNMB-EMER Lighting: circuit number: emergency ED-LITE-CNMB-EMER Lighting: circuit number: emergency	E□-INST-CNMB	Instrumentation system: circuit number
ED-LITE Lighting ED-LITE-CIRC Lighting: circuits ED-LITE-CIRC-CRIT Lighting: circuits: critical ED-LITE-CIRC-EMER Lighting: circuits: emergency ED-LITE-CLNG Lighting: ceiling ED-LITE-CLNG-CRIT Lighting: ceiling: critical ED-LITE-CLNG-CRIT Lighting: ceiling: critical ED-LITE-CLNG-EMER Lighting: ceiling: emergency ED-LITE-CLNG-EXIT Lighting: ceiling: exit ED-LITE-CNMB Lighting: circuit number ED-LITE-CNMB-CRIT Lighting: circuit number: critical ED-LITE-CNMB-CRIT Lighting: circuit number: emergency ED-LITE-CNMB-EMER Lighting: circuit number: emergency ED-LITE-EMER Lighting: emergency	E ₋ -INST-EQPM	Instrumentation system: equipment
Eo-LITE Lighting Eo-LITE-CIRC Lighting: circuits Eo-LITE-CIRC-CRIT Lighting: circuits: critical Eo-LITE-CIRC-EMER Lighting: circuits: emergency Eo-LITE-CLNG Lighting: ceiling Eo-LITE-CLNG-CRIT Lighting: ceiling: critical Eo-LITE-CLNG-EMER Lighting: ceiling: emergency Eo-LITE-CLNG-EMER Lighting: ceiling: emergency Eo-LITE-CLNG-EXIT Lighting: ceiling: exit Eo-LITE-CNMB Lighting: circuit number Eo-LITE-CNMB-CRIT Lighting: circuit number: critical Eo-LITE-CNMB-EMER Lighting: circuit number: emergency Eo-LITE-EMER Lighting: emergency	E□-INST-WALL	Instrumentation system: wall
ED-LITE-CIRC Lighting: circuits ED-LITE-CIRC-CRIT Lighting: circuits: critical ED-LITE-CIRC-EMER Lighting: circuits: emergency ED-LITE-CLNG Lighting: ceiling ED-LITE-CLNG-CRIT Lighting: ceiling: critical ED-LITE-CLNG-EMER Lighting: ceiling: emergency ED-LITE-CLNG-EXIT Lighting: ceiling: exit ED-LITE-CNMB Lighting: circuit number ED-LITE-CNMB-CRIT Lighting: circuit number: critical ED-LITE-CNMB-CRIT Lighting: circuit number: emergency ED-LITE-CNMB-EMER Lighting: circuit number: emergency ED-LITE-CNMB-EMER Lighting: emergency	E ₋ INTC	Intercom/PA systems
En-LITE-CIRC-CRIT Lighting: circuits: critical En-LITE-CIRC-EMER Lighting: circuits: emergency En-LITE-CLNG Lighting: ceiling En-LITE-CLNG-CRIT Lighting: ceiling: critical En-LITE-CLNG-EMER Lighting: ceiling: emergency En-LITE-CLNG-EXIT Lighting: ceiling: exit En-LITE-CNMB Lighting: circuit number En-LITE-CNMB-CRIT Lighting: circuit number: critical En-LITE-CNMB-EMER Lighting: circuit number: emergency En-LITE-CNMB-EMER Lighting: circuit number: emergency	E ₀ -LITE	Lighting
ED-LITE-CIRC-EMER Lighting: circuits: emergency ED-LITE-CLNG Lighting: ceiling ED-LITE-CLNG-CRIT Lighting: critical ED-LITE-CLNG-EMER Lighting: ceiling: emergency ED-LITE-CLNG-EXIT Lighting: ceiling: exit ED-LITE-CNMB Lighting: circuit number ED-LITE-CNMB-CRIT Lighting: circuit number: critical ED-LITE-CNMB-EMER Lighting: circuit number: emergency ED-LITE-CNMB-EMER Lighting: circuit number: emergency	E□-LITE-CIRC	Lighting: circuits
ED-LITE-CLNG Lighting: ceiling ED-LITE-CLNG-CRIT Lighting: ceiling: critical ED-LITE-CLNG-EMER Lighting: ceiling: emergency ED-LITE-CLNG-EXIT Lighting: ceiling: exit ED-LITE-CNMB Lighting: circuit number ED-LITE-CNMB-CRIT Lighting: circuit number: critical ED-LITE-CNMB-EMER Lighting: circuit number: emergency ED-LITE-EMER Lighting: emergency	E□-LITE-CIRC-CRIT	Lighting: circuits: critical
ELITE-CLNG-CRIT Lighting: critical ELITE-CLNG-EMER Lighting: ceiling: emergency ELITE-CLNG-EXIT Lighting: ceiling: exit ELITE-CNMB Lighting: circuit number ELITE-CNMB-CRIT Lighting: circuit number: critical ELITE-CNMB-EMER Lighting: circuit number: emergency ELITE-EMER Lighting: emergency	E□-LITE-CIRC-EMER	Lighting: circuits: emergency
ED-LITE-CLNG-EMER Lighting: ceiling: emergency ED-LITE-CLNG-EXIT Lighting: ceiling: exit ED-LITE-CNMB Lighting: circuit number ED-LITE-CNMB-CRIT Lighting: circuit number: critical ED-LITE-CNMB-EMER Lighting: circuit number: emergency ED-LITE-EMER Lighting: emergency	E _□ -LITE-CLNG	Lighting: ceiling
En-LITE-CLNG-EXIT Lighting: ceiling: exit En-LITE-CNMB Lighting: circuit number En-LITE-CNMB-CRIT Lighting: circuit number: critical En-LITE-CNMB-EMER Lighting: circuit number: emergency En-LITE-EMER Lighting: emergency	E□-LITE-CLNG-CRIT	Lighting: ceiling: critical
ED-LITE-CNMB Lighting: circuit number ED-LITE-CNMB-CRIT Lighting: circuit number: critical ED-LITE-CNMB-EMER Lighting: circuit number: emergency ED-LITE-EMER Lighting: emergency	En-LITE-CLNG-EMER	Lighting: ceiling: emergency
En-LITE-CNMB-CRIT Lighting: circuit number: critical En-LITE-CNMB-EMER Lighting: circuit number: emergency En-LITE-EMER Lighting: emergency	E□-LITE-CLNG-EXIT	Lighting: ceiling: exit
En-LITE-CNMB-EMER Lighting: circuit number: emergency En-LITE-EMER Lighting: emergency	E□-LITE-CNMB	Lighting: circuit number
E ₋ -LITE-EMER Lighting: emergency	E□-LITE-CNMB-CRIT	Lighting: circuit number: critical
	E□-LITE-CNMB-EMER	Lighting: circuit number: emergency
E _□ -LITE-EQPM Lighting: equipment	E _□ -LITE-EMER	Lighting: emergency
	E□-LITE-EQPM	Lighting: equipment

ED-LITE-EQPM-EMER Lighting: equipment: emergency ED-LITE-EXIT Lighting: exit ED-LITE-EXTR Lighting: exterior ED-LITE-FLOR Lighting: floor ED-LITE-JBOX Lighting: junction box ED-LITE-OTLN Lighting: outline ED-LITE-OTLN Lighting: outline ED-LITE-SPCL Lighting: special ED-LITE-SPCL Lighting: switches ED-LITE-SWCH Lighting: switches: critical ED-LITE-SWCH-CRIT Lighting: switches: emergency ED-LITE-WALL Lighting: wall ED-LITE-WALL Lighting: wall: critical ED-LITE-WALL-CRIT Lighting: wall: critical ED-LITE-WALL-EXIT Lighting: wall: emergency ED-LITE-WALL-EXIT Lighting: wall: exit ED-LITE-WALL-EXIT Lighting protection system ED-LTNG-CIRC Lightning protection system: circuits ED-LTNG-CING Lightning protection system: circuit number ED-LTNG-COMB Lightning protection system: equipment ED-LTNG-EQPM Lightning protection system: equipment ED-LTNG-WALL Lightning protection system: equipment
ED-LITE-EXTR Lighting: exterior ED-LITE-FLOR Lighting: floor ED-LITE-JBOX Lighting: junction box ED-LITE-OTLN Lighting: outline ED-LITE-OTLN Lighting: outline ED-LITE-SPCL Lighting: special ED-LITE-SWCH Lighting: switches ED-LITE-SWCH-CRIT Lighting: switches: critical ED-LITE-SWCH-EMER Lighting: switches: emergency ED-LITE-WALL Lighting: wall: critical ED-LITE-WALL-CRIT Lighting: wall: critical ED-LITE-WALL-EXIT Lighting: wall: emergency ED-LITE-WALL-EXIT Lighting: wall: exit ED-LITE-WALL-EXIT Lighting: wall: exit ED-LITE-WALL-EXIT Lighting: wall: exit ED-LTNG-CIRC Lightning protection system: circuits ED-LTNG-CLNG Lightning protection system: ceiling ED-LTNG-CNMB Lightning protection system: circuit number ED-LTNG-EQPM Lightning protection system: equipment ED-LTNG-WALL Lightning protection system: equipment
ED-LITE-FLOR Lighting: floor ED-LITE-JBOX Lighting: junction box ED-LITE-OTLN Lighting: outline ED-LITE-ROOF Lighting: roof ED-LITE-SPCL Lighting: special ED-LITE-SWCH Lighting: switches ED-LITE-SWCH-CRIT Lighting: switches: critical ED-LITE-SWCH-EMER Lighting: switches: emergency ED-LITE-WALL Lighting: wall ED-LITE-WALL Lighting: wall: critical ED-LITE-WALL-CRIT Lighting: wall: emergency ED-LITE-WALL-EMER Lighting: wall: emergency ED-LITE-WALL-EMER Lighting: wall: exit ED-LITE-WALL-EXIT Lighting: wall: exit ED-LITE-WALL-EXIT Lighting protection system ED-LTNG-CIRC Lightning protection system: circuits ED-LTNG-CLNG Lightning protection system: circuit number ED-LTNG-CNMB Lightning protection system: circuit number ED-LTNG-EQPM Lightning protection system: equipment ED-LTNG-WALL Lightning protection system: wall
Eo-LITE-JBOX Lighting: junction box Eo-LITE-OTLN Lighting: outline Eo-LITE-ROOF Lighting: roof Eo-LITE-SPCL Lighting: special Eo-LITE-SWCH Lighting: switches Eo-LITE-SWCH-CRIT Lighting: switches: critical Eo-LITE-SWCH-EMER Lighting: switches: emergency Eo-LITE-WALL Lighting: wall Eo-LITE-WALL-CRIT Lighting: wall: critical Eo-LITE-WALL-EMER Lighting: wall: emergency Eo-LITE-WALL-EXIT Lighting: wall: exit Eo-LITE-WALL-EXIT Lighting protection system Eo-LTNG Lightning protection system: circuits Eo-LTNG-CING Lightning protection system: ceiling Eo-LTNG-CNMB Lightning protection system: equipment Eo-LTNG-EQPM Lightning protection system: equipment Eo-LTNG-WALL Lightning protection system: equipment
ED-LITE-OTLN Lighting: outline ED-LITE-ROOF Lighting: special ED-LITE-SPCL Lighting: switches ED-LITE-SWCH Lighting: switches: critical ED-LITE-SWCH-CRIT Lighting: switches: emergency ED-LITE-WALL Lighting: switches: emergency ED-LITE-WALL Lighting: wall ED-LITE-WALL-CRIT Lighting: wall: critical ED-LITE-WALL-EMER Lighting: wall: emergency ED-LITE-WALL-EMER Lighting: wall: exit ED-LITE-WALL-EXIT Lighting: wall: exit ED-LTNG Lightning protection system ED-LTNG-CIRC Lightning protection system: circuits ED-LTNG-CLNG Lightning protection system: ceiling ED-LTNG-CNMB Lightning protection system: circuit number ED-LTNG-CAMB Lightning protection system: equipment ED-LTNG-WALL Lightning protection system: equipment
ED-LITE-ROOF Lighting: roof ED-LITE-SPCL Lighting: switches ED-LITE-SWCH Lighting: switches: critical Lighting: switches: emergency Lighting: switches: emergency Lighting: wall Lighting: wall Lighting: wall: critical ED-LITE-WALL Lighting: wall: emergency Lighting: wall: emergency ED-LITE-WALL-EMER Lighting: wall: emergency ED-LITE-WALL-EXIT Lighting: wall: exit ED-LITE-WALL-EXIT Lighting: protection system ED-LTNG-CIRC Lightning protection system: circuits ED-LTNG-CLNG Lightning protection system: circuit number ED-LTNG-CNMB Lightning protection system: equipment ED-LTNG-EQPM Lightning protection system: equipment ED-LTNG-WALL Lightning protection system: wall
ED-LITE-SPCL Lighting: special ED-LITE-SWCH Lighting: switches: ED-LITE-SWCH-CRIT Lighting: switches: critical ED-LITE-SWCH-EMER Lighting: switches: emergency ED-LITE-WALL Lighting: wall ED-LITE-WALL-CRIT Lighting: wall: critical ED-LITE-WALL-EMER Lighting: wall: emergency ED-LITE-WALL-EMER Lighting: wall: exit ED-LITE-WALL-EXIT Lighting: wall: exit ED-LITE-WALL-EXIT Lighting protection system ED-LITE-URG-CIRC Lightning protection system: circuits ED-LITE-URG-CING Lightning protection system: circuit number ED-LITE-URG-CING Lightning protection system: circuit number ED-LITE-URG-CING Lightning protection system: circuit number ED-LITE-URG-CING Lightning protection system: equipment ED-LITE-URG-URG-URG-URG-URG-URG-URG-URG-URG-URG
ED-LITE-SWCH Lighting: switches ED-LITE-SWCH-CRIT Lighting: switches: critical ED-LITE-SWCH-EMER Lighting: switches: emergency ED-LITE-WALL Lighting: wall ED-LITE-WALL-CRIT Lighting: wall: critical ED-LITE-WALL-EMER Lighting: wall: emergency ED-LITE-WALL-EXIT Lighting: wall: exit ED-LITE-WALL-EXIT Lighting: wall: exit ED-LTNG Lightning protection system ED-LTNG-CIRC Lightning protection system: circuits ED-LTNG-CLNG Lightning protection system: ceiling ED-LTNG-CNMB Lightning protection system: circuit number ED-LTNG-EQPM Lightning protection system: equipment ED-LTNG-WALL Lightning protection system: wall
ED-LITE-SWCH-CRIT Lighting: switches: critical ED-LITE-SWCH-EMER Lighting: switches: emergency ED-LITE-WALL Lighting: wall ED-LITE-WALL-CRIT Lighting: wall: critical ED-LITE-WALL-EMER Lighting: wall: emergency ED-LITE-WALL-EXIT Lighting: wall: exit ED-LITE-WALL-EXIT Lighting: wall: exit ED-LTNG Lightning protection system ED-LTNG-CIRC Lightning protection system: circuits ED-LTNG-CLNG Lightning protection system: ceiling ED-LTNG-CNMB Lightning protection system: circuit number ED-LTNG-EQPM Lightning protection system: equipment ED-LTNG-WALL Lightning protection system: wall
ED-LITE-SWCH-EMER Lighting: switches: emergency Lighting: wall ED-LITE-WALL Lighting: wall: critical ED-LITE-WALL-EMER Lighting: wall: emergency ED-LITE-WALL-EXIT Lighting: wall: exit ED-LITE-WALL-EXIT Lighting: wall: emergency Lighting: wall: emergenc
ED-LITE-WALL Lighting: wall: critical ED-LITE-WALL-EMER Lighting: wall: emergency ED-LITE-WALL-EXIT Lighting: wall: exit ED-LTNG Lightning protection system ED-LTNG-CIRC Lightning protection system: circuits ED-LTNG-CLNG Lightning protection system: ceiling ED-LTNG-CNMB Lightning protection system: circuit number ED-LTNG-EQPM Lightning protection system: equipment ED-LTNG-WALL Lightning protection system: wall
ED-LITE-WALL-CRIT Lighting: wall: critical ED-LITE-WALL-EMER Lighting: wall: emergency ED-LITE-WALL-EXIT Lighting: wall: exit ED-LTNG Lightning protection system ED-LTNG-CIRC Lightning protection system: circuits ED-LTNG-CLNG Lightning protection system: ceiling ED-LTNG-CNMB Lightning protection system: circuit number ED-LTNG-EQPM Lightning protection system: equipment ED-LTNG-WALL Lightning protection system: wall
ED-LITE-WALL-EMER Lighting: wall: emergency ED-LITE-WALL-EXIT Lighting: wall: exit ED-LTNG Lightning protection system ED-LTNG-CIRC Lightning protection system: circuits ED-LTNG-CLNG Lightning protection system: ceiling ED-LTNG-CNMB Lightning protection system: circuit number ED-LTNG-EQPM Lightning protection system: equipment ED-LTNG-WALL Lightning protection system: wall
E□-LITE-WALL-EXIT Lighting: wall: exit E□-LTNG Lightning protection system E□-LTNG-CIRC Lightning protection system: circuits E□-LTNG-CLNG Lightning protection system: ceiling E□-LTNG-CNMB Lightning protection system: circuit number E□-LTNG-EQPM Lightning protection system: equipment E□-LTNG-WALL Lightning protection system: wall
ED-LTNG Lightning protection system ED-LTNG-CIRC Lightning protection system: circuits ED-LTNG-CLNG Lightning protection system: ceiling ED-LTNG-CNMB Lightning protection system: circuit number ED-LTNG-EQPM Lightning protection system: equipment ED-LTNG-WALL Lightning protection system: wall
ED-LTNG-CIRC Lightning protection system: circuits ED-LTNG-CLNG Lightning protection system: ceiling ED-LTNG-CNMB Lightning protection system: circuit number ED-LTNG-EQPM Lightning protection system: equipment ED-LTNG-WALL Lightning protection system: wall
E□-LTNG-CLNG Lightning protection system: ceiling E□-LTNG-CNMB Lightning protection system: circuit number E□-LTNG-EQPM Lightning protection system: equipment E□-LTNG-WALL Lightning protection system: wall
E Lightning protection system: circuit number Lightning protection system: equipment Lightning protection system: wall
E Lightning protection system: equipment Lightning protection system: wall
E _□ -LTNG-WALL Lightning protection system: wall
5 1070
E□-MNTG Mounting system
E□-NURS Nurse call system
E□-NURS-CIRC Nurse call system: circuits
E□-NURS-CLNG Nurse call system: ceiling
E□-NURS-CNMB Nurse call system: circuit number
E□-NURS-EQPM Nurse call system: equipment
E□-NURS-FLOR Nurse call system: floor
E -NURS-WALL Nurse call system: wall
E _□ -OBST Obstructions
E□-PGNG Paging system
E _{-POWR} Power
E□-POWR-BUSW Power: busways
E _□ -POWR-CABL Power: cable systems
E□-POWR-CBOX Power: combiner box
E□-POWR-CBOX-FTPT Power: combiner box: area footprints
En-POWR-CIRC Power: circuits
E□-POWR-CIRC-CRIT Power: circuits: critical
En-POWR-CLNG Power: ceiling

En-POWR-CNMB Power: conduit En-POWR-CNMB Power: circuit number: En-POWR-DEVC Power: devices En-POWR-DSCO Power: disconnect switches En-POWR-DSCO-ACFU Power: disconnect switches: fused ac En-POWR-DSCO-ACNF Power: disconnect switches: fused ac En-POWR-DSCO-ACNF Power: disconnect switches: fused ac En-POWR-DSCO-DCFU Power: disconnect switches: fused dc En-POWR-DSCO-DCFU Power: disconnect switches: fused dc En-POWR-DSCO-DCFU Power: disconnect switches: fused dc En-POWR-EQPM Power: equipment En-POWR-EQPM Power: equipment: critical En-POWR-EQPM Power: equipment: critical En-POWR-EATR Power: equipment: critical En-POWR-EATR Power: floor En-POWR-FEED Power: floor En-POWR-EATR Power: floor En-POWR-EATR Power: point of common coupling En-POWR-POC Power: point of interconnection En-POWR-WALL Power: will circled En-POWR-WALL Power: will-carpet wiring En-POWR-WALL Power: will-critical En-POWR-WALL Power: will En-POWR-WALL Power: will En-POWR-WALL Power: will: critical En-POWR-WALL Power: will: critical En-POWR-WALL En-POWR-	E□-POWR-CLNG-CRIT	Power: ceiling: critical
En-POWR-CNMB-CRIT Power: circuit number: critical En-POWR-DEVC Power: devices En-POWR-DSCO Power: disconnect switches En-POWR-DSCO-ACFU Power: disconnect switches: fused ac En-POWR-DSCO-ACNF Power: disconnect switches: unfused ac En-POWR-DSCO-DCFU Power: disconnect switches: fused dc En-POWR-DSCO-DCFU Power: disconnect switches: unfused dc En-POWR-DSCO-DCNF Power: disconnect switches: unfused dc En-POWR-EQPM Power: equipment En-POWR-EQPM Power: equipment critical En-POWR-EQPM-CRIT Power: equipment critical En-POWR-EQPM-CRIT Power: floor En-POWR-FEED Power: floor En-POWR-FLOR Power: floor: critical En-POWR-BOX Power: junction box En-POWR-PANL Power: panels En-POWR-POC Power: point of common coupling En-POWR-POC Power: point of interconnection En-POWR-WALL Power: wall En-POWR-WALL Power: wall critical En-POWR-WA	En-POWR-CNDT	Power: conduit
En-Powr-Devo Power: disconnect switches En-Powr-Dsco Power: disconnect switches: fused ac En-Powr-Dsco-Acnf Power: disconnect switches: fused ac En-Powr-Dsco-Acnf Power: disconnect switches: unfused ac En-Powr-Dsco-Dcf Power: disconnect switches: unfused ac En-Powr-Dsco-Dcnf Power: disconnect switches: unfused dc En-Powr-Dwr-Dwr-Dwr-Dwr-Dwr-Dwr-Dwr-Dwr-Dwr-D	E□-POWR-CNMB	Power: circuit number
En-POWR-DSCO Power: disconnect switches: fused ac En-POWR-DSCO-ACNF Power: disconnect switches: fused ac En-POWR-DSCO-ACNF Power: disconnect switches: unfused ac En-POWR-DSCO-DCFU Power: disconnect switches: unfused dc En-POWR-DSCO-DCNF Power: disconnect switches: unfused dc En-POWR-DSCO-DCNF Power: disconnect switches: unfused dc En-POWR-DSCO-DCNF Power: equipment En-POWR-EQPM Power: equipment: critical En-POWR-EQPM-CRIT Power: exterior En-POWR-EXTR Power: exterior En-POWR-FEED Power: floor En-POWR-FLOR Power: floor En-POWR-PLOR Power: junction box En-POWR-PANL Power: panels En-POWR-PANL Power: point of common coupling En-POWR-POIC En-POWR-POIC En-POWR-POIC En-POWR-WALL Power: switchboards En-POWR-WALL Power: under-carpet wiring En-POWR-WALL Power: wall En-POWR-WALL Power: wall En-POWR-WALL-CRIT Power: wall En-POWR-WARR-POLM Power: transformers: pole-mounted En-POWR-MALR-POLM Power: transformers: pole-mounted En-POWR-MALR-CRIT En-POWR-MALR-POLM Power: transformers: pole-mounted En-POWR-MALR-POLM Power: transformers: pole-mounted En-POWR-MALR-POLM Power: transformers: pole-mounted En-POWR-MALR-POLM Site features: overhead En-SITE En-SITE Site features: underground En-SITE-UGND Site features: underground En-SOUN Sound system	En-POWR-CNMB-CRIT	Power: circuit number: critical
En-POWR-DSCO-ACNF Power: disconnect switches: fused ac En-POWR-DSCO-DCFU Power: disconnect switches: fused dc En-POWR-DSCO-DCFU Power: disconnect switches: fused dc En-POWR-DSCO-DCNF Power: disconnect switches: unfused dc En-POWR-DSCO-DCNF Power: disconnect switches: unfused dc En-POWR-EQPM Power: equipment En-POWR-EQPM-CRIT Power: equipment: critical En-POWR-EQPM-CRIT Power: exterior En-POWR-EXTR Power: exterior En-POWR-FEED Power: floor En-POWR-FLOR Power: floor En-POWR-FLOR Power: pinction box En-POWR-PANL Power: panels En-POWR-PANL Power: point of common coupling En-POWR-POCC Power: point of interconnection En-POWR-POI- Power: point of interconnection En-POWR-WALD Power: switchboards En-POWR-UCPT Power: will En-POWR-WALL Power: wall En-POWR-WALL Power: wall En-POWR-WALL Power: wall En-POWR-WALL En-POWR-WALL En-POWR-WALL En-POWR-WALL En-POWR-WARP-POLM Power: transformers: pole-mounted En-POWR-XFMR-POLM Power: transformers: pole-mounted En-POWR-SITE Site features En-SITE Site features En-SITE-UGND Site features: underground En-SOUN Sound system	En-POWR-DEVC	Power: devices
En-POWR-DSCO-ACNF Power: disconnect switches: unfused ac En-POWR-DSCO-DCFU Power: disconnect switches: fused dc En-POWR-DSCO-DCNF Power: disconnect switches: unfused dc En-POWR-EQPM Power: equipment: critical En-POWR-EQPM-CRIT Power: exterior En-POWR-EXTR Power: exterior En-POWR-EXTR Power: floor En-POWR-FEED Power: floor En-POWR-FEED Power: floor En-POWR-FLOR-CRIT Power: floor: critical En-POWR-FLOR-CRIT Power: panels En-POWR-PANL Power: panels En-POWR-PANL Power: point of common coupling En-POWR-POCC Power: point of interconnection En-POWR-POIC Power: switchboards En-POWR-WADD Power: under-carpet wiring En-POWR-UCPT Power: under-carpet wiring En-POWR-WALL Power: wall En-POWR-WALL Power: wall En-POWR-WALL Power: wall En-POWR-WALL Power: transformers: pad-mounted En-POWR-XFMR-POLM Power: transformers: pole-mounted En-POWR-XFMR-POLM Power:	En-POWR-DSCO	Power: disconnect switches
En-POWR-DSCO-DCFU Power: disconnect switches: fused dc En-POWR-EQPM Power: equipment En-POWR-EQPM-CRIT Power: equipment: critical En-POWR-EQPM-CRIT Power: equipment: critical En-POWR-EXTR Power: exterior En-POWR-EXTR Power: feeders En-POWR-FEED Power: floor En-POWR-FEED Power: floor En-POWR-FLOR En-POWR-FLOR En-POWR-BOX Power: junction box En-POWR-BOX Power: panels En-POWR-POCC Power: point of common coupling En-POWR-POIC En-POWR-POIC Power: point of interconnection En-POWR-WADD Power: switchboards En-POWR-UCPT Power: under-carpet wiring En-POWR-WALL Power: wall En-POWR-WALL Power: wall En-POWR-WALL En-POWR-WALL Power: wall: critical En-POWR-WALL-CRIT Power: wall: critical En-POWR-XFMR-POLM Power: transformers: pad-mounted En-POWR-XFMR-POLM Power: transformers: pole-mounted En-POWR-XFMR-POLM Power: transformers: pole-mounted En-POWR-XFMR-POLM Site features: overhead En-SITE Site features: overhead En-SITE-UGND Site features: underground En-SOUN Sound system	En-POWR-DSCO-ACFU	Power: disconnect switches: fused ac
En-POWR-DSCO-DCNF Power: disconnect switches: unfused dc En-POWR-EQPM Power: equipment En-POWR-EQPM-CRIT Power: equipment: critical En-POWR-EXTR Power: equipment: critical En-POWR-EXTR Power: deders En-POWR-FEED Power: floor En-POWR-FLOR Power: floor En-POWR-FLOR Power: floor En-POWR-BOX Power: junction box En-POWR-DANL Power: point of common coupling En-POWR-POCC Power: point of interconnection En-POWR-POIN Power: point of interconnection En-POWR-WARD Power: witchboards En-POWR-UCPT Power: under-carpet wiring En-POWR-WALL Power: wall En-POWR-WALL Power: wall En-POWR-WALL Power: wall En-POWR-WALL Power: wall: critical En-POWR-XFMR-POLM Power: transformers: pad-mounted En-POWR-XFMR-POLM Power: transformers: pole-mounted En-POWR-XFMR-POLM Power: transformers: pole-mounted En-POWR-XFMR-POLM Site features En-SITE Site features: overhead En-SITE-OVHD Site features: overhead En-SITE-UGND Site features: underground En-SOUN Sound system	En-POWR-DSCO-ACNF	Power: disconnect switches: unfused ac
En-POWR-EQPM Power: equipment En-POWR-EQPM-CRIT Power: equipment: critical En-POWR-EXTR Power: exterior En-POWR-FEED Power: feeders En-POWR-FLOR Power: floor En-POWR-FLOR Power: floor En-POWR-FLOR-CRIT Power: floor: critical En-POWR-BOX Power: junction box En-POWR-PANL Power: panels En-POWR-POCC Power: point of common coupling En-POWR-POI- Power: point of interconnection En-POWR-ROOF Power: witchboards En-POWR-WABD Power: witchboards En-POWR-UCPT Power: under-carpet wiring En-POWR-WALL Power: wall: critical En-POWR-WALL Power: wall: critical En-POWR-XFMR-PADM Power: transformers: pad-mounted En-POWR-XFMR-POLM Power: transformers: pole-mounted En-POWR-XFMR-POLM Power: transformers: pole-mounted En-POWR-XFMR-POLM Site features En-SITE Site features: overhead En-SITE-OULB Site features: underground En-SITE-UGND Site features: underground En-SOUN Sound system	En-POWR-DSCO-DCFU	Power: disconnect switches: fused dc
En-POWR-EQPM-CRIT Power: equipment: critical En-POWR-EXTR Power: exterior En-POWR-FEED Power: feeders En-POWR-FLOR Power: floor En-POWR-FLOR Power: floor: critical En-POWR-FLOR-CRIT Power: junction box En-POWR-PANL Power: panels En-POWR-POCC Power: point of common coupling En-POWR-POIN Power: point of interconnection En-POWR-ROOF Power: roof En-POWR-WALD Power: switchboards En-POWR-UCPT Power: under-carpet wiring En-POWR-WALL Power: wall: critical En-POWR-WALL Power: wall: critical En-POWR-WALL-CRIT Power: wall: critical En-POWR-XFMR-PADM Power: transformers: pad-mounted En-POWR-XFMR-POLM Power: transformers: pole-mounted En-POWR-XFMR-POLM Power: transformers: pole-mounted En-POWR-XFMR-POLM Site features: overhead En-SITE Site features: overhead En-SITE-UGND Site features: underground En-SOUN Sound system	En-POWR-DSCO-DCNF	Power: disconnect switches: unfused dc
Eo-POWR-EXTR Power: exterior Eo-POWR-FEED Power: feeders Eo-POWR-FLOR Power: floor Eo-POWR-FLOR-CRIT Power: floor: critical Eo-POWR-JBOX Power: junction box Eo-POWR-PANL Power: panels Eo-POWR-POCC Power: point of common coupling Eo-POWR-POI~ Power: point of interconnection Eo-POWR-ROOF Power: roof Eo-POWR-SWBD Power: switchboards Eo-POWR-UCPT Power: under-carpet wiring Eo-POWR-WALL Power: wall Eo-POWR-WALL Power: wall Eo-POWR-WALL Power: wall: critical Eo-POWR-WALL-CRIT Power: transformers: pad-mounted Eo-POWR-XFMR-POLM Power: transformers: pole-mounted Eo-POWR-XFMR-POLM Power: transformers: pole-mounted Eo-POWD Photovoltaic modules Eo-SITE Site features: overhead Eo-SITE-OVHD Site features: underground Eo-SOUN Sound system	E□-POWR-EQPM	Power: equipment
ED-POWR-FEED Power: feeders ED-POWR-FLOR Power: floor ED-POWR-FLOR-CRIT Power: floor: critical ED-POWR-JBOX Power: junction box ED-POWR-PANL Power: panels ED-POWR-POCC Power: point of common coupling ED-POWR-POI~ Power: point of interconnection ED-POWR-ROOF Power: roof ED-POWR-WBD Power: switchboards ED-POWR-UCPT Power: under-carpet wiring ED-POWR-URAC Power: wall ED-POWR-WALL Power: wall ED-POWR-WALL Power: wall: critical ED-POWR-WALL-CRIT Power: wall: critical ED-POWR-XFMR-PADM Power: transformers: pad-mounted ED-POWR-XFMR-POLM Power: transformers: pole-mounted ED-POWR-XFMR-POLM Power: transformers: pole-mounted ED-SITE Site features ED-SITE Site features ED-SITE-POLE Site features: overhead ED-SITE-UGND Site features: underground ED-SOUN Sound system	En-POWR-EQPM-CRIT	Power: equipment: critical
ED-POWR-FLOR Power: floor ED-POWR-FLOR-CRIT Power: floor: critical ED-POWR-JBOX Power: junction box ED-POWR-PANL Power: panels ED-POWR-POCC Power: point of common coupling ED-POWR-POIN Power: point of interconnection ED-POWR-ROOF Power: roof ED-POWR-WALD Power: switchboards ED-POWR-WALD Power: under-carpet wiring ED-POWR-UCPT Power: underfloor raceways ED-POWR-WALL Power: wall ED-POWR-WALL Power: wall ED-POWR-WALL Power: wall: critical ED-POWR-WALL-CRIT Power: wall: critical ED-POWR-XFMR-PADM Power: transformers: pad-mounted ED-POWR-XFMR-POLM Power: transformers: pole-mounted ED-POWR-XFMR-POLM Power: transformers: pole-mounted ED-SITE Site features ED-SITE Site features ED-SITE-OVHD Site features: overhead ED-SITE-POLE Site features: underground ED-SOUN Sound system	E□-POWR-EXTR	Power: exterior
En-Powr-Flor-Critical En-Powr-Jbox Power: junction box En-Powr-Panl Power: panels En-Powr-Pocc Power: point of common coupling En-Powr-Pol- Power: point of interconnection En-Powr-Powr-Power: point of interconnection En-Powr-Wald Power: waitchboards En-Powr-Ucpt Power: under-carpet wiring En-Powr-Ucpt Power: underfloor raceways En-Powr-Wall Power: wall En-Powr-Wall Power: wall: critical En-Powr-Wall-critical Power: transformers: pad-mounted En-Powr-Wall-critical En	En-POWR-FEED	Power: feeders
En-POWR-JBOX Power: junction box En-POWR-PANL Power: panels En-POWR-POCC Power: point of common coupling En-POWR-POI~ Power: point of interconnection En-POWR-ROOF Power: roof En-POWR-WALD Power: switchboards En-POWR-UCPT Power: under-carpet wiring En-POWR-UCPT Power: underfloor raceways En-POWR-WALL Power: wall En-POWR-WALL Power: wall: critical En-POWR-WALL-CRIT Power: wall: critical En-POWR-XFMR-PADM Power: transformers: pad-mounted En-POWR-XFMR-POLM Power: transformers: pole-mounted En-POWR-XFMR-POLM Power: wall: critical En-POWR-XFMR-POLM Power: transformers: pole-mounted En-POWR-XFMR-POLM Power: transformers: pole-mounted En-SITE Site features En-SITE-OVHD Site features: overhead En-SITE-OVHD Site features: overhead En-SITE-OUE Site features: underground En-SOUN Sound system	E□-POWR-FLOR	Power: floor
ED-POWR-PANL Power: panels ED-POWR-POCC Power: point of common coupling ED-POWR-POI~ Power: point of interconnection ED-POWR-ROOF Power: roof ED-POWR-SWBD Power: switchboards ED-POWR-UCPT Power: under-carpet wiring ED-POWR-URAC Power: underfloor raceways ED-POWR-WALL Power: wall ED-POWR-WALL Power: wall: critical ED-POWR-XFMR-PADM Power: transformers: pad-mounted ED-POWR-XFMR-POLM Power: transformers: pole-mounted ED-POWR-XFMR-POLM Power: transformers: pole-mounted ED-POWR-XFMR-POLM Photovoltaic modules ED-SITE Site features ED-SITE-OVHD Site features: overhead ED-SITE-POLE Site features: underground ED-SITE-UGND Site features: underground ED-SOUN Sound system	En-POWR-FLOR-CRIT	Power: floor: critical
En-Powr-Pocc Power: point of common coupling En-Powr-Pol~ Power: point of interconnection En-Powr-Roof Power: roof En-Powr-Swbd Power: switchboards En-Powr-Ucpt Power: under-carpet wiring En-Powr-Ucpt Power: underfloor raceways En-Powr-Wall Power: wall En-Powr-Wall Power: wall: critical En-Powr-XFMR-Padd Power: transformers: pad-mounted En-Powr-XFMR-Pold Power: transformers: pole-mounted En-Powr-XFMR-Pold Power: transformers: pole-mounted En-Powr-XFMR-Pold Photovoltaic modules En-SITE Site features En-SITE-OVHD Site features: overhead En-SITE-OVHD Site features: underground En-Soun Sound system	E□-POWR-JBOX	Power: junction box
En-POWR-POI~ En-POWR-ROOF Power: point of interconnection En-POWR-SWBD Power: switchboards En-POWR-UCPT Power: under-carpet wiring En-POWR-URAC Power: underfloor raceways En-POWR-WALL Power: wall En-POWR-WALL-CRIT Power: wall: critical En-POWR-XFMR-PADM Power: transformers: pad-mounted En-POWR-XFMR-POLM Power: transformers: pole-mounted En-POWR-XFMR-POLM Photovoltaic modules En-SITE Site features En-SITE-OVHD Site features: overhead En-SITE-POLE Site features: underground En-SOUN Sound system	En-POWR-PANL	Power: panels
En-Powr-Roof En-Powr-Swbd Power: switchboards En-Powr-UCPT Power: under-carpet wiring En-Powr-URAC Power: underfloor raceways En-Powr-Wall Power: wall En-Powr-Wall-Crit Power: wall: critical En-Powr-XFMR-PADM Power: transformers: pad-mounted En-Powr-XFMR-Polm Power: transformers: pole-mounted En-Powr-XFMR-Polm Photovoltaic modules En-SITE Site features En-SITE Site features: overhead En-SITE-Pole Site features: pole En-SITE-UGND Site features: underground En-Soun Sound system	En-POWR-POCC	Power: point of common coupling
ED-POWR-SWBD Power: switchboards ED-POWR-UCPT Power: under-carpet wiring ED-POWR-URAC Power: underfloor raceways ED-POWR-WALL Power: wall ED-POWR-WALL-CRIT Power: wall: critical ED-POWR-WALL-CRIT Power: transformers: pad-mounted ED-POWR-XFMR-PADM Power: transformers: pole-mounted ED-POWR-XFMR-POLM Power: transformers: pole-mounted ED-POWR-XFMR-POLM Photovoltaic modules ED-SITE Site features ED-SITE Site features: overhead ED-SITE-POLE Site features: underground ED-SOUN Sound system	E□-POWR-POI~	Power: point of interconnection
Eo-POWR-UCPT Power: under-carpet wiring Eo-POWR-URAC Power: underfloor raceways Eo-POWR-WALL Power: wall Eo-POWR-WALL-CRIT Power: wall: critical Eo-POWR-XFMR-PADM Power: transformers: pad-mounted Eo-POWR-XFMR-POLM Power: transformers: pole-mounted Eo-POWR-XFMR-POLM Photovoltaic modules Eo-SITE Site features Eo-SITE-OVHD Site features: overhead Eo-SITE-POLE Site features: pole Eo-SITE-UGND Site features: underground Eo-SOUN Sound system	En-POWR-ROOF	Power: roof
ED-POWR-URAC Power: underfloor raceways ED-POWR-WALL Power: wall ED-POWR-WALL-CRIT Power: wall: critical ED-POWR-XFMR-PADM Power: transformers: pad-mounted ED-POWR-XFMR-POLM Power: transformers: pole-mounted ED-POWR-XFMR-POLM Photovoltaic modules ED-SITE Site features ED-SITE-OVHD Site features: overhead ED-SITE-POLE Site features: pole ED-SITE-UGND Site features: underground ED-SOUN Sound system	E□-POWR-SWBD	Power: switchboards
En-Powr-Wall En-Powr-Wall-Crit En-Powr-Wall-Crit En-Powr-XFMR-Padd Power: transformers: pad-mounted En-Powr-XFMR-Pold Power: transformers: pole-mounted En-Powr-XFMR-Pold Photovoltaic modules En-Site Site features En-Site-Ovhd Site features: overhead En-Site-Pole Site features: pole En-Site-Ugnd Site features: underground En-Soun Sound system	E□-POWR-UCPT	Power: under-carpet wiring
E□-POWR-WALL-CRIT Power: wall: critical E□-POWR-XFMR-PADM Power: transformers: pad-mounted E□-POWR-XFMR-POLM Power: transformers: pole-mounted E□-PVMD Photovoltaic modules E□-SITE Site features E□-SITE-OVHD Site features: overhead E□-SITE-POLE Site features: pole E□-SITE-UGND Site features: underground E□-SOUN Sound system	E□-POWR-URAC	Power: underfloor raceways
E□-POWR-XFMR-PADM Power: transformers: pad-mounted E□-POWR-XFMR-POLM Power: transformers: pole-mounted E□-PVMD Photovoltaic modules E□-SITE Site features E□-SITE-OVHD Site features: overhead E□-SITE-POLE Site features: pole E□-SITE-UGND Site features: underground E□-SOUN Sound system	E□-POWR-WALL	Power: wall
En-Powr-XFMR-Polm Power: transformers: pole-mounted En-Pvmd Photovoltaic modules En-SITE Site features En-SITE-Ovhd Site features: overhead En-SITE-Pole Site features: pole En-SITE-UGND Site features: underground En-Soun Sound system	En-POWR-WALL-CRIT	Power: wall: critical
En-PVMD Photovoltaic modules En-SITE Site features En-SITE-OVHD Site features: overhead En-SITE-POLE Site features: pole En-SITE-UGND Site features: underground En-SOUN Sound system	E□-POWR-XFMR-PADM	Power: transformers: pad-mounted
E□-SITE Site features E□-SITE-OVHD Site features: overhead E□-SITE-POLE Site features: pole E□-SITE-UGND Site features: underground E□-SOUN Sound system	E□-POWR-XFMR-POLM	Power: transformers: pole-mounted
E□-SITE-OVHD Site features: overhead E□-SITE-POLE Site features: pole E□-SITE-UGND Site features: underground E□-SOUN Sound system	E ₋ -PVMD	Photovoltaic modules
En-SITE-POLE Site features: pole En-SITE-UGND Site features: underground En-SOUN Sound system	En-SITE	Site features
E□-SITE-UGND Site features: underground E□-SOUN Sound system	En-SITE-OVHD	Site features: overhead
En-SOUN Sound system	E ₋ -SITE-POLE	Site features: pole
	E□-SITE-UGND	Site features: underground
En-UTIL Utilities	E ₋ SOUN	Sound system
	E ₀ -UTIL	Utilities

5.5 DISTRIBUTED ENERGY LAYER LIST

Distributed Energy Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Distributed Energy Discipline Designators

Designator	Description
W	Distributed Energy
WC	Distributed Energy Civil
WD	Distributed Energy Demolition
WI	Distributed Energy Interconnection
WP	Distributed Energy Power
WS	Distributed Energy Structural
WT	Distributed Energy Telecommunications
WY	Distributed Energy Auxiliary Systems
WJ	User Defined
WK	User Defined

Distributed Energy Layer List

Layer Name	Description	
No layer names have been prescribed for this discipline.		

5.6 EQUIPMENT LAYER LIST

Equipment Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Equipment Discipline Designators

-	
Designator	Description
Q	Equipment
QA	Equipment Athletic
QB	Equipment Bank
QC	Equipment Dry Cleaning
QD	Equipment Detention
QE	Equipment Educational
QF	Equipment Food Service
QH	Equipment Hospital

QL	Equipment Laboratory
QM	Equipment Maintenance
QP	Equipment Parking Lot
QR	Equipment Retail
QS	Equipment Site
QT	Equipment Theatrical
QV	Equipment Video/Photographic
QY	Equipment Security
QJ	User Defined
QK	User Defined

Equipment Layer List

Layer Name	Description
Q□-CMPR	Computer
Q□-CSWK	Casework
Q□-CSWK-DVDR	Casework: thin dividers
Q ₋ -CSWK-EDGE	Casework: edge
Q ₋ -CSWK-ELEV	Casework: elevation
Q□-CSWK-FIXT	Casework: fixtures (plumbing/service)
Q ₋ -CSWK-FRMG	Casework: structural framing
Q ₋ -CSWK-FULL	Casework: full-height (cabinets/lockers)
Q□-CSWK-GLAZ	Casework: glazing
Q ₋ -CSWK-GRND	Casework: ground
Q□-CSWK-HRDW	Casework: hardware
Q□-CSWK-LOWR	Casework: lower (cabinets)
Q□-CSWK-PATT	Casework: texture and hatch patterns
Q ₋ -CSWK-SHLF	Casework: wall mounted shelving
Q□-CSWK-SUBA	Casework: cabinet sub-assemblies, drawer boxes
Q□-CSWK-UCTR	Casework: undercounter (cabinets-for layout)
Q ₋ -CSWK-UPPR	Casework: upper (cabinets)
Q□-CSWK-WKSF	Casework: work surface
Q ₋ -ELEV	Elevation
Q□-ELEV-EQPM	Elevation: equipment
Q□-ELEV-FIXT	Elevation: fixtures (plumbing/service)
Q ₋ -ELEV-GLAZ	Elevation: glazing
Q□-ELEV-HRDW	Elevation: hardware
Q□-ELEV-OVHD	Elevation: overhead
Q□-ELEV-PATT	Elevation: texture and hatch patterns
Q□-ELEV-STRC	Elevation: structures (support components)

Q□-EXHS	Exhaust system
Q□-MAJQ	Major equipment
Q□-MAJQ-ACCS	Major equipment: access
Q□-MAJQ-ENGR	Major equipment: engineering information
Q□-MAJQ-FIXD	Major equipment: fixed
Q□-MAJQ-MOVE	Major equipment: movable
Q□-MAJQ-MVNG	Major equipment: moving or suspended
Q□-MAJQ-OVHD	Major equipment: overhead
Q□-MAJQ-PATT	Major equipment: texture and hatch patterns
Q□-MAJQ-UCTR	Major equipment: undercounter
Q ₋ -MINQ	Minor equipment
Q□-POWR	Power
Q□-SPCL	Special
Q□-SPCL-ACCS	Special: access
Q□-SPCL-ENGR	Special: engineering information
Q□-SPCL-FIXD	Special: fixed
Q□-SPCL-MOVE	Special: movable
Q _□ -SPCL-MVNG	Special: moving or suspended
Q□-SPCL-OVHD	Special: overhead
Q□-SPCL-PATT	Special: texture and hatch patterns
Q□-SPCL-UCTR	Special: undercounter

5.7 FIRE PROTECTION LAYER LIST

Fire Protection Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Fire Protection Discipline Designators

Designator	Description
F	Fire Protection
FA	Fire Detection and Alarm
FX	Fire Suppression
FJ	User Defined
FK	User Defined

Fire Protection Layer List

Layer Name	Description

A
Aqueous film-forming foam system
Aqueous film-forming foam system: equipment
Aqueous film-forming foam system: piping
CO2 system
CO2 system: equipment
CO2 system: piping
Halon
Halon: equipment
Halon: piping
Inert gas
Inert gas: equipment
Inert gas: piping
Fire protection system
Fire protection system: alarm
Fire protection system: equipment
Fire protection system: extinguishers
Fire protection system: hoses
Fire protection: hydrants and connections
Fire protection system: ratings
Fire protection system: ratings: doors
Fire protection system: ratings: wall
Fire protection system: smoke detector/heat sensors
Sprinkler
Sprinkler: ceiling heads
Sprinkler: equipment
Sprinkler: other heads
Sprinkler: piping

5.8 GENERAL LAYER LIST

General Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

General Discipline Designators

Designator	Description	
G	General	
GC	General Contractual	

GI	General Informational
GR	General Resource
GJ	User Defined
GK	User Defined

General Layer List

Layer Name	Description
G□-ACCS	Access
G□-CODE	Code compliance plan
G□-EVAC	Evacuation plan
G□-FIRE	Fire protection plan
G□-PLAN	Key plan (floor plan)
G□-SITE	Key plan (site features)

5.9 GEOTECHNICAL LAYER LIST

Geotechnical Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Geotechnical Discipline Designators

Designator	Description
В	Geotechnical
BJ	User Defined
ВК	User Defined

Geotechnical Layer List

Layer Name	Description
B□-BORE	Borings
B□-BORE-FDTA	Borings: field data
B□-BORE-HOLE	Borings: holes (perc)
B□-BORE-LDTA	Borings: laboratory data
B□-DETL-ANNN	Detail: optional number (A = letter, NNN = number between 001 and 999)
B□-DETL-ANNN-CONC	Detail: optional number: concrete
B□-DETL-ANNN-ERTH	Detail: optional number: earth

B□-DETL-ANNN-FDTA	Detail: optional number: field data
B□-DETL-ANNN-FILL	Detail: optional number: fill and cover material
B□-DETL-ANNN-GENF	Detail: optional number: general features
B□-DETL-ANNN-GNDW	Detail: optional number: ground water
B□-DETL-ANNN-LDTA	Detail: optional number: laboratory data
B□-DETL-ANNN-PVMT	Detail: optional number: pavement
B□-DETL-ANNN-SPCL	Detail: optional number: special
B□-DETL-ANNN-STRM	Detail: optional number: storm sewer
B□-DETL-ANNN-SUBS	Detail: optional number: sub-surface areas
B□-DETL-ANNN-SURF	Detail: optional number: surface areas

5.10 HAZARDOUS MATERIALS LAYER LIST

Hazardous Materials Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Hazardous Materials Discipline Designators

Designator	Description
Н	Hazardous Materials
HA	Hazardous Materials Asbestos
HC	Hazardous Materials Chemicals
HL	Hazardous Materials Lead
HP	Hazardous Materials PCB
HR	Hazardous Materials Refrigerants
HJ	User Defined
HK	User Defined

Hazardous Materials Layer List

Layer Name	Description	
H□-PLAN	Key plan (floor plan)	
H□-SITE	Key plan (site features)	_

5.11 INTERIORS LAYER LIST

Interiors Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Interiors Discipline Designators

Designator	Description
1	Interior
ID	Interior Demolition
IF	Interior Furnishings
IG	Interior Graphics
IN	Interior Design
IJ	User Defined
IK	User Defined

Interiors Layer List

	Area
	Area
I□-AREA-OCCP A	Area: occupant or employee names
I□-CLNG	Ceiling
I□-CLNG-ACCS	Ceiling: access
I□-CLNG-OPNG C	Ceiling: openings
I□-CLNG-SUSP C	Ceiling: suspended elements
In-CLNG-TEES C	Ceiling: main tees
In-COLS	Columns
I□-CRPT C	Carpet/carpet tile
I□-CSWK C	Casework
I□-DOOR □	Doors
I□-DOOR-FULL □	Doors: full-height
I□-DOOR-PRHT □	Doors: partial-height
I□-EQPM E	Equipment
I□-EQPM-ACCS E	Equipment: access
I□-EQPM-FIXD E	Equipment: fixed
I□-EQPM-OVHD E	Equipment: overhead
I□-EQPM-STOR E	Equipment: storage
I□-FLOR F	Floor
I□-FLOR-EVTR F	Floor: elevator cars and equipment
I□-FLOR-FIXT F	Floor: fixtures (plumbing)
I□-FLOR-HRAL F	Floor: handrails/guard rails

In-FLOR-OTLN Floor: outline In-FLOR-OVHD Floor: overhead In-FLOR-RAIS Floor: raised In-FLOR-RISR Floor: risers In-FLOR-SIGN Floor: signage In-FLOR-SIGN Floor: architectural specialties (toilet room accessories, display cases) In-FLOR-STRS Floor: architectural specialties (toilet room accessories, display cases) In-FLOR-STRS Floor: architectural specialties (toilet room accessories, display cases) In-FLOR-STRS Floor: architectural specialties (toilet room accessories, display cases) In-FLOR-STRS Floor: architectural woodwork In-FLOR-WDWK Floor: architectural woodwork In-FLOR-WDWK Floor: architectural woodwork In-FLOR-WDWK Floor: architectural woodwork In-FLOR-WILE Furnishings In-FURN-FILE Furnishings In-FURN-FILE Furnishings In-FURN-PILE Furnishings In-FURN-PILS Furnishings In-FURN-PILS Furnishings In-FURN-SEAT Furnishings In-FURN-WILE Furnishings In-FURN-WILE Furnishings In-FURN-WILE Furnishings In-FURN-WILE Glazing In-GLAZ Glazing In-GLAZ-FULL Glazing full-height In-GLAZ-PILL Glazing window sills In-HVAC HVAC HVAC In-HVAC HVAC Systems In-HVAC-RDFF HVAC Systems In-HVAC-SDFF HVAC Systems In-HVAC-SDFF HVAC Systems In-HVAC-SDFF HVAC Systems In-HVAC-SDFF HVAC Systems In-PRTN Partitions In-PRTN-FIRE Partitions In-PRTN-FIRE Partitions In-PRTN-FIRE Partitions In-PRTN-HAD Partitions In-PRTN-HAD Partitions In-PRTN-PRHT Partitions In-PRTN-PRTN Partitions In-PRTN-PRHT Partitions In-PRTN-PRTN Partitions In-PRTN-PRTN Partitions In-PRTN-PRTN Partitions In-PRTN-PRTN P	In-FLOR-LEVL	Floor: level changes (ramps, pits, depressions)
I□-FLOR-RAIS Floor: raised I□-FLOR-SIGN Floor: signage I□-FLOR-SPCL Floor: architectural specialties (toilet room accessories, display cases) I□-FLOR-SPCL Floor: architectural specialties (toilet room accessories, display cases) I□-FLOR-SPCL Floor: stair treads (escalators, ladders) I□-FLOR-WDWK Floor: architectural woodwork I□-FLOR-WDWK Floor: architectural specialties (toilet room accessories, display cases) I□-FLOR-WDWK Floor: stair treads (escalators, ladders) I□-FLOR-WDWK Floor: architectural specialties (toilet room accessories, display cases) I□-FURN Furnishings I□-FURN Furnishings I□-FURN Furnishings I□-FURN-PULS Furnishings: flee cabinets I□-FURN-WLS Furnishings: flee cabinets I□-FURN-WLS Furnishings: speating I□-FURN-WLS Furnishings: speating I□-FURN-WLS <t< td=""><td>In-FLOR-OTLN</td><td>Floor: outline</td></t<>	In-FLOR-OTLN	Floor: outline
□-FLOR-RISR Floor: risers □-FLOR-SIGN Floor: signage □-FLOR-SPCL Floor: architectural specialties (toilet room accessories, display cases) □-FLOR-SPCL Floor: stair treads (escalators, ladders) □-FLOR-TPTN Floor: toilet partitions □-FLOR-WDWK Floor: architectural woodwork □-FLOR-WDWK Floor: architectural woodwork □-FURN Furnishings □-FURN-FILE Furnishings: fle cabinets □-FURN-FILE Furnishings: freestanding □-FURN-PILT Furnishings: system panels □-FURN-PILS Furnishings: system panels □-FURN-SEAT Furnishings: storage (component system) □-FURN-WKSF Furnishings: work surface (component system) □-GLAZ Glazing □-GLAZ-FULL Glazing: full-height □-GLAZ-SILL Glazing: window sills □-HVAC HVAC systems □-HVAC-RDFF HVAC systems: return air diffusers □-PRTN Partitions □-PRTN-FIRE Partitions: fire protection □-PRTN-FIRE Partitions: door and window headers □-PRTN-JAMB Partitions: moveable □-PRTN-PRHT Partitions: partial-height □-PRTN-PRHT Partitions: partial-height □-PRTN-PRHT Partitions: partial-height □-PRTN-PRHT Partitions: partial-height □-PRTN-PRHT Partitions: moveable □-PRTN-PRHT Partitions: partial-height	I□-FLOR-OVHD	Floor: overhead
In-FLOR-SIGN Floor: signage	In-FLOR-RAIS	Floor: raised
I□-FLOR-SPCL	In-FLOR-RISR	Floor: risers
In-FLOR-SPCL cases In-FLOR-STRS Floor: stair treads (escalators, ladders) In-FLOR-TPTN Floor: toilet partitions In-FLOR-WDWK Floor: architectural woodwork In-FLOR-WDWK Floor: architectural woodwork In-FLOR-WDWK Floor: architectural woodwork In-FLOR-WDWK Floor: architectural woodwork In-FLOR-STAN Funishings In-FLOR-STAN Funishings In-FLOR-STAN Funishings: flee cabinets In-FLOR-PLNT Furnishings: plants In-FLOR-PLNT Furnishings: system panels In-FLOR-SEAT Furnishings: seating In-FLOR-SEAT Funishings: storage (component system) In-FLOR-STAN Funishings: work surface (component system) In-FLOR-WKSF Funishings: work surface (component system) In-FLOR-WKSF Funishings: work surface (component system) In-FLOR-STAN Glazing: full-height In-GLAZ-FULL Glazing: partial-height In-GLAZ-SILL Glazing: window sills In-HVAC HVAC systems In-HVAC HVAC systems: return air diffusers In-HVAC-RDFF HVAC systems: supply diffusers In-HVAC-SDFF HVAC systems: supply diffusers In-HVAC-SDFF HVAC systems: supply diffusers In-HVAC-PRIT Partitions: fire protection In-PRTN-FIRE Partitions: fire protection In-PRTN-FIRE Partitions: door and window headers In-PRTN-HEAD Partitions: door and window jambs In-PRTN-HAD Partitions: moveable In-PRTN-PRHT Partitions: partial-height In-PRT	In-FLOR-SIGN	Floor: signage
I□-FLOR-TPTN Floor: toilet partitions I□-FLOR-WDWK Floor: architectural woodwork I□-FNSH Finishes I□-FURN Furnishings I□-FURN-FILE Furnishings: file cabinets I□-FURN-FILE Furnishings: freestanding I□-FURN-FILE Furnishings: freestanding I□-FURN-FILT Furnishings: plants I□-FURN-PNLS Furnishings: system panels I□-FURN-SEAT Furnishings: seating I□-FURN-SEAT Furnishings: storage (component system) I□-FURN-WKSF Furnishings: work surface (component system) I□-FURN-WKSF Furnishings: work surface (component system) I□-GLAZ Glazing I□-GLAZ-FULL Glazing: full-height I□-GLAZ-PRHT Glazing: partial-height I□-HVAC HVAC systems: return air diffusers I□-HVAC-RDFF HVAC systems: supply diffusers I□-HVAC-SDFF HVAC systems: supply diffusers I□-HVAC-SDFF HVAC systems: fire protection I□-PRTN-FIRE Partitions: fire protection I□-PRTN-FULL Partitions: door and window headers	I□-FLOR-SPCL	
I□-FLOR-WDWK Floor: architectural woodwork I□-FNSH Finishes I□-FURN Furnishings I□-FURN-FILE Furnishings: file cabinets I□-FURN-FREE Furnishings: freestanding I□-FURN-PLNT Furnishings: plants I□-FURN-PLNT Furnishings: system panels I□-FURN-SEAT Furnishings: seating I□-FURN-SEAT Furnishings: storage (component system) I□-FURN-WKSF Furnishings: work surface (component system) I□-FURN-WKSF Furnishings: work surface (component system) I□-GLAZ Glazing I□-GLAZ-FULL Glazing: full-height I□-GLAZ-FULL Glazing: partial-height I□-GLAZ-SILL Glazing: window sills I□-HVAC HVAC systems: return air diffusers I□-HVAC-RDFF HVAC systems: return air diffusers I□-HVAC-SDFF HVAC systems: supply diffusers I□-HVAC-SDFF HVAC systems: supply diffusers I□-PRTN Partitions: fire protection I□-PRTN-FIRE Partitions: full-height I□-PRTN-HEAD Partitions: door and window headers <t< td=""><td>In-FLOR-STRS</td><td>Floor: stair treads (escalators, ladders)</td></t<>	In-FLOR-STRS	Floor: stair treads (escalators, ladders)
Io-FNSH Finishes Io-FURN Furnishings Io-FURN-FILE Furnishings: file cabinets Io-FURN-FREE Furnishings: freestanding Io-FURN-PLNT Furnishings: plants Io-FURN-PNLS Furnishings: system panels Io-FURN-SEAT Furnishings: seating Io-FURN-STOR Furnishings: storage (component system) Io-FURN-WKSF Furnishings: work surface (component system) Io-GLAZ Glazing Io-GLAZ-FULL Glazing: full-height Io-GLAZ-PRHT Glazing: window sills Io-HVAC HVAC systems Io-HVAC HVAC systems: return air diffusers Io-HVAC-RDFF HVAC systems: supply diffusers Io-HVAC-SDFF HVAC systems: supply diffusers Io-PRTN Partitions Io-PRTN-FIRE Partitions: fire protection Io-PRTN-FULL Partitions: door and window headers Io-PRTN-HADD Partitions: door and window jambs Io-PRTN-MOVE Partitions: partial-height	In-FLOR-TPTN	Floor: toilet partitions
I□-FURN Furnishings I□-FURN-FILE Furnishings: file cabinets I□-FURN-FREE Furnishings: freestanding I□-FURN-PLNT Furnishings: plants I□-FURN-PNLS Furnishings: system panels I□-FURN-SEAT Furnishings: seating I□-FURN-STOR Furnishings: storage (component system) I□-FURN-WKSF Furnishings: work surface (component system) I□-GLAZ Glazing I□-GLAZ-FULL Glazing: partial-height I□-GLAZ-PRHT Glazing: window sills I□-HVAC HVAC systems I□-HVAC-RDFF HVAC systems: return air diffusers I□-HVAC-SDFF HVAC systems: supply diffusers I□-HVAC-SDFF HVAC systems: partial-height I□-PRTN Partitions I□-PRTN-FIRE Partitions: fire protection I□-PRTN-FULL Partitions: door and window headers I□-PRTN-HEAD Partitions: door and window jambs I□-PRTN-HOVE Partitions: moveable I□-PRTN-PRHT Partitions: partial-height	I□-FLOR-WDWK	Floor: architectural woodwork
I□-FURN-FILE Furnishings: file cabinets I□-FURN-FREE Furnishings: freestanding I□-FURN-PLNT Furnishings: plants I□-FURN-PNLS Furnishings: system panels I□-FURN-SEAT Furnishings: seating I□-FURN-STOR Furnishings: storage (component system) I□-FURN-WKSF Furnishings: work surface (component system) I□-FURN-WKSF Furnishings: work surface (component system) I□-FURN-WKSF Furnishings: storage (component system) I□-GLAZ-Gueral Glazing: domponent system) I□-BCLAZ Glazing: domponent system) I□-HVAC-PRITH Partitions: door and window headers I□-PRTN-HEAD Partitions: door and window jambs I□-PRTN-HEAD Partitions: door and window jambs I□-PRTN-MOVE Partitions: partial-height	I□-FNSH	Finishes
□-FURN-FREE Furnishings: freestanding □-FURN-PLNT Furnishings: plants □-FURN-PNLS Furnishings: system panels □-FURN-SEAT Furnishings: seating □-FURN-STOR Furnishings: storage (component system) □-FURN-WKSF Furnishings: work surface (component system) □-GLAZ Glazing □-GLAZ-FULL Glazing: full-height □-GLAZ-PRHT Glazing: partial-height □-GLAZ-SILL Glazing: window sills □-HVAC HVAC systems □-HVAC-RDFF HVAC systems: return air diffusers □-HVAC-SDFF HVAC systems: supply diffusers □-MILL Millwork □-PRTN Partitions □-PRTN-FIRE Partitions: fire protection □-PRTN-FULL Partitions: fire protection □-PRTN-HEAD Partitions: door and window headers □-PRTN-JAMB Partitions: moveable □-PRTN-PRHT Partitions: partial-height	In-FURN	Furnishings
I□-FURN-PLNT Furnishings: plants I□-FURN-PNLS Furnishings: system panels I□-FURN-SEAT Furnishings: seating I□-FURN-STOR Furnishings: storage (component system) I□-FURN-WKSF Furnishings: work surface (component system) I□-FURN-WKSF Furnishings: work surface (component system) I□-FURN-WKSF Furnishings: work surface (component system) I□-GLAZ Glazing Glazing full-height I□-GLAZ-FULL Glazing: full-height I□-GLAZ-SILL Glazing: window sills I□-HVAC HVAC systems I□-HVAC-RDFF HVAC systems: return air diffusers I□-HVAC-SDFF HVAC systems: supply diffusers I□-HVAC-SDFF HVAC systems: supply diffusers I□-PRTN Partitions I□-PRTN Partitions: fire protection I□-PRTN-FULL Partitions: full-height I□-PRTN-HEAD Partitions: door and window headers I□-PRTN-JAMB Partitions: door and window jambs I□-PRTN-PRHT Partitions: partial-height	In-FURN-FILE	Furnishings: file cabinets
I□-FURN-PNLS Furnishings: system panels I□-FURN-SEAT Furnishings: seating I□-FURN-STOR Furnishings: storage (component system) I□-FURN-WKSF Furnishings: work surface (component system) I□-GLAZ Glazing I□-GLAZ Glazing: full-height I□-GLAZ-FULL Glazing: partial-height I□-GLAZ-SILL Glazing: window sills I□-HVAC HVAC systems I□-HVAC-RDFF HVAC systems: return air diffusers I□-HVAC-SDFF HVAC systems: supply diffusers I□-PRTN Partitions I□-PRTN Partitions I□-PRTN-FIRE Partitions: fire protection I□-PRTN-FULL Partitions: full-height I□-PRTN-HEAD Partitions: door and window headers I□-PRTN-JAMB Partitions: door and window jambs I□-PRTN-MOVE Partitions: moveable I□-PRTN-PRHT Partitions: partial-height	In-FURN-FREE	Furnishings: freestanding
I□-FURN-SEAT Furnishings: seating I□-FURN-STOR Furnishings: storage (component system) I□-FURN-WKSF Furnishings: work surface (component system) I□-GLAZ Glazing I□-GLAZ Glazing: full-height I□-GLAZ-FULL Glazing: partial-height I□-GLAZ-SILL Glazing: window sills I□-HVAC HVAC systems I□-HVAC-RDFF HVAC systems: return air diffusers I□-HVAC-SDFF HVAC systems: supply diffusers I□-HVAC-SDFF HVAC systems: supply diffusers I□-PRTN Partitions I□-PRTN Partitions I□-PRTN-FIRE Partitions: fire protection I□-PRTN-FULL Partitions: full-height I□-PRTN-HEAD Partitions: door and window headers I□-PRTN-JAMB Partitions: door and window jambs I□-PRTN-MOVE Partitions: moveable I□-PRTN-PRHT Partitions: partial-height	In-FURN-PLNT	Furnishings: plants
□-FURN-STOR Furnishings: storage (component system) □-FURN-WKSF Furnishings: work surface (component system) □-GLAZ Glazing □-GLAZ-FULL Glazing: full-height □-GLAZ-PRHT Glazing: partial-height □-GLAZ-SILL Glazing: window sills □-HVAC HVAC systems □-HVAC-RDFF HVAC systems: return air diffusers □-HVAC-SDFF HVAC systems: supply diffusers □-HVAC-SDFF HVAC systems: supply diffusers □-PRTN Partitions □-PRTN-FIRE Partitions: fire protection □-PRTN-FULL Partitions: full-height □-PRTN-HEAD Partitions: door and window headers □-PRTN-JAMB Partitions: door and window jambs □-PRTN-MOVE Partitions: moveable □-PRTN-PRHT Partitions: partial-height	In-FURN-PNLS	Furnishings: system panels
In-FURN-WKSF	In-FURN-SEAT	Furnishings: seating
In-GLAZ Glazing In-GLAZ-FULL Glazing: full-height In-GLAZ-PRHT Glazing: partial-height In-GLAZ-SILL Glazing: window sills In-HVAC HVAC systems In-HVAC-RDFF HVAC systems: return air diffusers In-HVAC-SDFF HVAC systems: supply diffusers In-HVAC-SDFF HVAC systems: supply diffusers In-MILL Millwork In-PRTN Partitions In-PRTN-FIRE Partitions: fire protection In-PRTN-FULL Partitions: full-height In-PRTN-HEAD Partitions: door and window headers In-PRTN-JAMB Partitions: door and window jambs In-PRTN-MOVE Partitions: moveable In-PRTN-PRHT Partitions: partial-height	In-FURN-STOR	Furnishings: storage (component system)
I□-GLAZ-FULL Glazing: full-height I□-GLAZ-PRHT Glazing: partial-height I□-GLAZ-SILL Glazing: window sills I□-HVAC HVAC systems I□-HVAC-RDFF HVAC systems: return air diffusers I□-HVAC-SDFF HVAC systems: supply diffusers I□-MILL Millwork I□-PRTN Partitions I□-PRTN-FIRE Partitions: fire protection I□-PRTN-FULL Partitions: full-height I□-PRTN-HEAD Partitions: door and window headers I□-PRTN-JAMB Partitions: moveable I□-PRTN-PRHT Partitions: partial-height	In-FURN-WKSF	Furnishings: work surface (component system)
I□-GLAZ-PRHT Glazing: partial-height I□-GLAZ-SILL Glazing: window sills I□-HVAC HVAC systems I□-HVAC-RDFF HVAC systems: return air diffusers I□-HVAC-SDFF HVAC systems: supply diffusers I□-HILL Millwork I□-PRTN Partitions I□-PRTN-FIRE Partitions: fire protection I□-PRTN-FULL Partitions: full-height I□-PRTN-HEAD Partitions: door and window headers I□-PRTN-JAMB Partitions: door and window jambs I□-PRTN-MOVE Partitions: moveable I□-PRTN-PRHT Partitions: partial-height	I□-GLAZ	Glazing
I□-GLAZ-SILL Glazing: window sills I□-HVAC HVAC systems I□-HVAC-RDFF HVAC systems: return air diffusers I□-HVAC-SDFF HVAC systems: supply diffusers I□-MILL Millwork I□-PRTN Partitions I□-PRTN-FIRE Partitions: fire protection I□-PRTN-FULL Partitions: full-height I□-PRTN-HEAD Partitions: door and window headers I□-PRTN-JAMB Partitions: door and window jambs I□-PRTN-MOVE Partitions: moveable I□-PRTN-PRHT Partitions: partial-height	In-GLAZ-FULL	Glazing: full-height
I□-HVAC HVAC systems I□-HVAC-RDFF HVAC systems: return air diffusers I□-HVAC-SDFF HVAC systems: supply diffusers I□-MILL Millwork I□-PRTN Partitions I□-PRTN-FIRE Partitions: fire protection I□-PRTN-FULL Partitions: full-height I□-PRTN-HEAD Partitions: door and window headers I□-PRTN-JAMB Partitions: door and window jambs I□-PRTN-MOVE Partitions: moveable I□-PRTN-PRHT Partitions: partial-height	In-GLAZ-PRHT	Glazing: partial-height
I□-HVAC-RDFF HVAC systems: return air diffusers I□-HVAC-SDFF HVAC systems: supply diffusers I□-MILL Millwork I□-PRTN Partitions I□-PRTN-FIRE Partitions: fire protection I□-PRTN-FULL Partitions: full-height I□-PRTN-HEAD Partitions: door and window headers I□-PRTN-JAMB Partitions: door and window jambs I□-PRTN-MOVE Partitions: moveable I□-PRTN-PRHT Partitions: partial-height	In-GLAZ-SILL	Glazing: window sills
I□-HVAC-SDFF HVAC systems: supply diffusers I□-MILL Millwork I□-PRTN Partitions I□-PRTN-FIRE Partitions: fire protection I□-PRTN-FULL Partitions: full-height I□-PRTN-HEAD Partitions: door and window headers I□-PRTN-JAMB Partitions: door and window jambs I□-PRTN-MOVE Partitions: moveable I□-PRTN-PRHT Partitions: partial-height	I□-HVAC	HVAC systems
I□-MILL Millwork I□-PRTN Partitions I□-PRTN-FIRE Partitions: fire protection I□-PRTN-FULL Partitions: full-height I□-PRTN-HEAD Partitions: door and window headers I□-PRTN-JAMB Partitions: door and window jambs I□-PRTN-MOVE Partitions: moveable I□-PRTN-PRHT Partitions: partial-height	In-HVAC-RDFF	HVAC systems: return air diffusers
I□-PRTN Partitions I□-PRTN-FIRE Partitions: fire protection I□-PRTN-FULL Partitions: full-height I□-PRTN-HEAD Partitions: door and window headers I□-PRTN-JAMB Partitions: door and window jambs I□-PRTN-MOVE Partitions: moveable I□-PRTN-PRHT Partitions: partial-height	I□-HVAC-SDFF	HVAC systems: supply diffusers
I□-PRTN-FIRE Partitions: fire protection I□-PRTN-FULL Partitions: full-height I□-PRTN-HEAD Partitions: door and window headers I□-PRTN-JAMB Partitions: door and window jambs I□-PRTN-MOVE Partitions: moveable I□-PRTN-PRHT Partitions: partial-height	In-MILL	Millwork
I□-PRTN-FULL Partitions: full-height I□-PRTN-HEAD Partitions: door and window headers I□-PRTN-JAMB Partitions: door and window jambs I□-PRTN-MOVE Partitions: moveable I□-PRTN-PRHT Partitions: partial-height	I□-PRTN	Partitions
I□-PRTN-HEAD Partitions: door and window headers I□-PRTN-JAMB Partitions: door and window jambs I□-PRTN-MOVE Partitions: moveable I□-PRTN-PRHT Partitions: partial-height	In-PRTN-FIRE	Partitions: fire protection
I□-PRTN-JAMB Partitions: door and window jambs I□-PRTN-MOVE Partitions: moveable I□-PRTN-PRHT Partitions: partial-height	In-PRTN-FULL	Partitions: full-height
I□-PRTN-MOVE Partitions: moveable I□-PRTN-PRHT Partitions: partial-height	In-PRTN-HEAD	Partitions: door and window headers
In-PRTN-PRHT Partitions: partial-height	I□-PRTN-JAMB	Partitions: door and window jambs
	I□-PRTN-MOVE	Partitions: moveable
Io-TILE Tile	I□-PRTN-PRHT	Partitions: partial-height
	Io-TILE	Tile

5.12 LANDSCAPE LAYER LIST

Landscape Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Landscape Discipline Designators

Designator	Description
L	Landscape
LD	Landscape Demolition
LG	Landscape Grading
LI	Landscape Irrigation
LL	Landscape Lighting
LP	Landscape Planting
LR	Landscape Relocation
LS	Landscape Site
LJ	User Defined
LK	User Defined

Landscape Layer List

Layer Name	Description
Ln-FENC	Fences
L□-FENC-LINK	Fences: chain link
L□-FENC-LINK-04FT	Fences: chain link: four feet high
L□-FENC-LINK-06FT	Fences chain link: six feet high
L□-FENC-PRVC	Fences: privacy
L□-FENC-WOOD	Fences: wood
L□-IRRG	Irrigation
L□-IRRG-COVR	Irrigation: coverage
L□-IRRG-DRIP	Irrigation: drip irrigation tubing
L□-IRRG-EQPM	Irrigation: equipment (pumps, valves, and controllers)
L□-IRRG-LTRL	Irrigation: lateral pipe
L□-IRRG-MAIN	Irrigation: mainline
L□-IRRG-PIPE	Irrigation: piping
L□-IRRG-SLVE	Irrigation: pipe sleeve
L□-IRRG-SPKL	Irrigation: sprinklers (rotors, heads)
L□-IRRG-VALV	Irrigation: valves
L□-PLNT	Plant and landscape material
L□-PLNT-BEDS	Plant and landscape material: perennial and annual beds
L□-PLNT-BUSH	Plant and landscape material: bushes and shrubs

L□-PLNT-CONI	Plant and landscape material: coniferous trees
L ₋ -PLNT-CTNR	Plant and landscape material: container or planter
L□-PLNT-EDGR	Plant and landscape material: planting bed edger
L ₋ -PLNT-EVGR	Plant and landscape material: evergreen trees - broadleaf
L□-PLNT-GCVR	Plant and landscape material: ground cover
L□-PLNT-MLCH	Plant and landscape material: mulches - organic and inorganic
L□-PLNT-PALM	Plant and landscape material: palm trees
L□-PLNT-PLNT	Plant and landscape material: plants
L□-PLNT-SEED	Plant and landscape material: seeding areas
L□-PLNT-SHAD	Plant and landscape material: shadow area
L□-PLNT-TREE	Plant and landscape material: trees
L□-PLNT-TURF	Plant and landscape material: lawn areas
L□-PLNT-VINE	Plant and landscape material: vines
L□-PVMT	Pavement
L□-PVMT-ASPH	Pavement: asphalt
L□-PVMT-BRCK	Pavement: brick
L□-PVMT-CONC	Pavement: concrete
L□-PVMT-CONC-AGGR	Pavement: concrete: exposed aggregate
L□-PVMT-GRVL	Pavement: gravel
L□-PVMT-JNTC	Pavement: control joint
L□-PVMT-JNTE	Pavement: expansion joint (for concrete only)
L□-PVMT-PAVR	Pavement: unit pavers
L ₋ -PVMT-RAMP	Pavement: accessible ramp
L□-PVMT-STRS	Pavement: stair treads
L□-SITE	Site features
L□-SITE-BRDG	Site features: bridge (pedestrian)
L ₋ -SITE-CURB	Site features: curb
L□-SITE-CURB-BACK	Site features: curb: back
L□-SITE-CURB-FACE	Site features: curb: face
L□-SITE-DECK	Site features: deck (wood, typ.)
Ln-SITE-FURN	Site features: furnishings
L□-SITE-PLAY	Site features: play structures
L□-SITE-PLAY-EQPM	Site features: play structures: equipment
L□-SITE-PLAY-ZONE	Site features: play structures: zoning
Ln-SITE-POOL	Site features: pools and spas
Ln-SITE-POOL-BACK	Site features: pools and spas: back of pool wall
Ln-SITE-POOL-FACE	Site features: pools and spas: face of pool wall
	Site leatures. pools and spas. lace of pool wall
L□-SITE-PRKG	Site features: parking
Lo-SITE-PRKG Lo-SITE-PRKG-STRP	

L□-SITE-ROCK	Site features: large rocks and rock outcroppings
L□-SITE-RRAP	Site features: riprap
L□-SITE-RTWL	Site features: retaining wall
L□-SITE-SPRT	Site features: sports fields
L□-SITE-SPRT-EQPM	Site features: sports fields: equipment
Lo-SITE-SPRT-PERI	Site features: sports fields: perimeter
L ₋ -SITE-STEP	Site features: steps
L□-SITE-SWLK	Site features: sidewalks and steps
L□-SITE-TRAL	Site features: trail or path
L□-SITE-TRAL-ASPH	Site features: trail or path: asphalt
L□-SITE-TRAL-CONC	Site features: trail or path: concrete
L□-SITE-TRAL-GRVL	Site features: trail or path: gravel
L□-SITE-WALL	Site features: walls
L□-SITE-WEIR	Site features: pool weir
L□-TOPO	Topographic feature
L□-TOPO-LIMI	Topographic feature: limit of earthwork
L□-TOPO-SPOT	Topographic feature: spot elevations

5.13 MECHANICAL LAYER LIST

Mechanical Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Mechanical Discipline Designators

Designator	Description
M	Mechanical
MD	Mechanical Demolition
MH	Mechanical HVAC
MI	Mechanical Instrumentation
MP	Mechanical Piping
MS	Mechanical Site
MJ	User Defined
MK	User Defined

Mechanical Layer List

Layer Name	Description

M□-BRIN	Brine systems
M□-BRIN-EQPM	Brine systems: equipment
M□-BRIN-PIPE	Brine systems: piping
M□-CHIM	Chimneys and stacks
M□-CMPA	Compressed/processed air systems
M□-CMPA-EQPM	Compressed/processed air systems: equipment
M□-CMPA-PEQP	Compressed/processed air systems: process equipment
M□-CMPA-PIPE	Compressed/processed air systems: piping
M□-CMPA-PPIP	Compressed/processed air systems: process piping
M□-CNDW	Condenser water systems
M□-CNDW-EQPM	Condenser water systems: equipment
M□-CNDW-PIPE	Condenser water systems: piping
M□-CNDW-RETN	Condenser water systems: return
M□-CNDW-RETN-PIPE	Condenser water systems: return: piping
M□-CNDW-RETN-SKCH	Condenser water systems: return: sketch
M□-CNDW-SPLY	Condenser water systems: supply
M□-CNDW-SPLY-PIPE	Condenser water systems: supply: piping
M□-CNDW-SPLY-SKCH	Condenser water systems: supply: sketch
M□-CONT	Controls and instrumentation
M□-CONT-THER	Controls and instrumentation: thermostats
M□-CONT-WIRE	Controls and instrumentation: wiring (low voltage)
M□-CWTR	Chilled water systems
M□-CWTR-CNDS	Chilled water systems: condensate piping
M□-CWTR-EQPM	Chilled water systems: equipment
M□-CWTR-PIPE	Chilled water systems: piping
M□-CWTR-RETN	Chilled water systems: return
M□-CWTR-RETN-PIPE	Chilled water systems: return: piping
M□-CWTR-RETN-SKCH	Chilled water systems: return: sketch
M□-CWTR-SPLY	Chilled water systems: supply
M□-CWTR-SPLY-PIPE	Chilled water systems: supply: piping
M□-CWTR-SPLY-SKCH	Chilled water systems: supply: sketch
M□-DOMW	Domestic water systems
M□-DOMW-MKUP	Domestic water systems: make-up water
M□-DUAL	Dual temperature systems
M□-DUAL-RETN	Dual temperature systems: return
M□-DUAL-RETN-PIPE	Dual temperature systems: return: piping
M□-DUAL-RETN-SKCH	Dual temperature systems: return: sketch
M□-DUAL-SPLY	Dual temperature systems: supply
M□-DUAL-SPLY-PIPE	Dual temperature systems: supply: piping
M□-DUAL-SPLY-SKCH	Dual temperature systems: supply: sketch

M□-DUST-DUCT Dust and fume collection systems: ductwork M□-DUST-EQPM Dust and fume collection systems: ductwork: center M□-DUST-EQPM Dust and fume collection systems: equipment M□-ELHT Electric heat M□-ELHT Electric heat: M□-ELHT-EQPM Electric heat: equipment M□-ERRR Energy management systems M□-ENER-EQPM Energy management systems: equipment M□-ENER-WIRE Energy management systems: equipment M□-ENER-WIRE Energy management systems: equipment M□-EXHS-DUCT Exhaust system: ceiling diffusers M□-EXHS-DUCT Exhaust system: ductwork M□-EXHS-DUCT-CNTR Exhaust system: ductwork: center M□-EXHS-DUCT-CNTR Exhaust system: equipment M□-EXHS-EQPM Exhaust system: rooftop equipment M□-ENER-FEQ Exhaust system: equipment M□-FUCR Floor: penetrations M□-FUEL-GREP Fuel systems: gas general piping: high pressure piping M□-FUEL-GGEP-LPIP Fuel systems: gas general piping: low-pressure piping M□-FUEL-GGEP-LPIP Fuel systems: gas general piping: low-pressure piping M□-FUEL-GGEP-LPIP Fuel systems: gas general piping: low-pressure piping M□-FUEL-GGEP-LPIP Fuel systems: gas general piping: medium-pressure piping M□-FUEL-GGEP-LPIP Fuel systems: gas peneral piping: low-pressure piping M□-FUEL-GGEP-LPIP Fuel systems: oil general piping: low-pressure piping M□-FUEL-GGEP-BAET Fuel systems: oil general piping: discharge M□-FUEL-OGEP-BAET Fuel systems: oil general piping: discharge M□-FUEL-OGEP-PETLW Fuel systems: oil general piping: supply M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: vents M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply M□-FUEL-OGEP-SPLY Fuel syste	M□-DUST	Dust and fume collection systems
Mo-ELHT Electric heat Mo-ELHT Electric heat Mo-ELHT Electric heat Mo-ENER Energy management systems Mo-ENER-EOPM Energy management systems: equipment Mo-ENER-WIRE Energy management systems: wiring Mo-ENER-WIRE Energy management systems: wiring Mo-ENER-WIRE Energy management systems: wiring Mo-ENHS-WIRE Energy management systems: wiring Mo-ENHS-CDFF Exhaust system: ductwork Mo-EXHS-DUCT Exhaust system: ductwork Mo-EXHS-DUCT Exhaust system: ductwork Mo-EXHS-DUCT Exhaust system: equipment Mo-EXHS-DUCT-CNTR Exhaust system: rooftop equipment Mo-EXHS-PLOR Floor Mo-ENHS-PLOR Floor Mo-FUEL Fuel systems Mo-FUEL-GORP-PENE Floor: penetrations Mo-FUEL-GORP Fuel systems: equipment Mo-FUEL-GORP-HPIP Fuel systems: gas general piping low-pressure piping Mo-FUEL-GORP-LPIP Fuel systems: gas general piping: liquid petroleum gas Mo-FUEL-GORP-MPIP Fuel systems: gas general piping: medium-pressure piping Mo-FUEL-GORP-MPIP Fuel systems: gas process piping Mo-FUEL-GORP-DISC Fuel systems: oil general piping: discharge Mo-FUEL-OGRP-BISC Fuel systems: oil general piping: gauge Mo-FUEL-OGRP-BISC Fuel systems: oil general piping: gauge Mo-FUEL-OGRP-SPLY Fuel systems: oil general piping: gauge Mo-FUEL-OGRP-SPLY Fuel systems: oil general piping: gauge Mo-FUEL-OGRP-SPLY Fuel systems: oil general piping: process piping Mo-FUEL-OGRP-SPLY Fuel systems: oil general piping: gauge Mo-FUEL-OGRP-SPLY Fuel systems: oil general piping: gauge Mo-FUEL-OGRP-SPLY Fuel systems: oil general piping: process piping Mo-FUEL-OGRP-SPLY Fuel systems: oil general piping: gauge Mo-FUEL-OGRP-SPLY Fuel systems: oil general piping: process piping Mo-FUEL-OGRP-SPLY Fuel systems: oil general piping: process piping Mo-FUEL-OGRP-SPLY Fuel systems: oil general piping: process piping Mo-FUEL-OGRP-SPLY Fuel systems: oil general piping: proc	M□-DUST-DUCT	Dust and fume collection systems: ductwork
Mn-ELHT Electric heat Mn-ELHT-EQPM Electric heat: equipment Mn-ENER Energy management systems Mn-ENER-EQPM Energy management systems: equipment Mn-ENER-WIRE Energy management systems: wiring Mn-ENER-WIRE Energy management systems: wiring Mn-EXHS Exhaust system Mn-EXHS-DDFF Exhaust system: celling diffusers Mn-EXHS-DUCT Exhaust system: ductwork Mn-EXHS-DUCT-CNTR Exhaust system: ductwork: center Mn-EXHS-DUCT-CNTR Exhaust system: rooftop equipment Mn-EXHS-EQPM Exhaust system: rooftop equipment Mn-ENER-EQPM Exhaust system: rooftop equipment Mn-ENDR-PENE Floor: penetrations Mn-FUEL Fuel systems Mn-FUEL-GGEP Fuel systems: gas general piping Mn-FUEL-GGEP-HPIP Fuel systems: gas general piping: liquid petroleum gas Mn-FUEL-GGEP-LPIP Fuel systems: gas general piping: liquid petroleum gas Mn-FUEL-GGEP-MPIP Fuel systems: gas general piping: medium-pressure piping Mn-FUEL-GGEP-MPIP Fuel systems: gas process piping Mn-FUEL-GGEP-MPIP Fuel systems: gas process piping Mn-FUEL-GGEP-MPIP Fuel systems: gas process piping Mn-FUEL-GGEP-BIP Fuel systems: oil general piping: discharge Mn-FUEL-OGEP-FLLW Fuel systems: oil general piping: discharge Mn-FUEL-OGEP-GGE Fuel systems: oil general piping: supply Mn-FUEL-OGEP-SPLY Fuel systems: oil general	M□-DUST-DUCT-CNTR	Dust and fume collection systems: ductwork: center
MD-ELHT-EQPM Electric heat: equipment MD-ENER Energy management systems MD-ENER-EQPM Energy management systems: equipment MD-ENER-WIRE Energy management systems: wiring MD-EXHS Exhaust system MD-EXHS-CDFF Exhaust system: ceiling diffusers MD-EXHS-DUCT Exhaust system: ductwork MD-EXHS-DUCT-CNTR Exhaust system: ductwork: center MD-EXHS-DUCT-CNTR Exhaust system: ductwork: center MD-EXHS-EQPM Exhaust system: rooftop equipment MD-EXHS-EQPM Exhaust system: rooftop equipment MD-EXHS-EQPM Exhaust system: rooftop equipment MD-EXHS-FLOR Floor: penetrations MD-FUEL Fuel systems MD-FUEL-GGEP Fuel systems: gas general piping MD-FUEL-GGEP-HPIP Fuel systems: gas general piping: liquid petroleum gas MD-FUEL-GGEP-LOPG Fuel systems: gas general piping: medium-pressure piping MD-FUEL-GGEP-MPIP Fuel systems: gas process piping MD-FUEL-GGEP-DISC Fuel systems: oil general piping: medium-pressure piping MD-FUEL-OGEP-DISC Fuel systems: oil general piping: medium-pressure piping MD-FUEL-OGEP-GAGE Fuel systems: oil general piping: gauge MD-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply MD-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply MD-FUEL-OGEP-SPLY Fuel systems: oil general piping: vents MD-FUEL-OGEP-VENT Fuel systems: oil general piping: vents M	M□-DUST-EQPM	Dust and fume collection systems: equipment
Mo-ENER Energy management systems Mo-ENER-EQPM Energy management systems: equipment Mo-ENER-WIRE Energy management systems: wiring Mo-EXHS Exhaust system Mo-EXHS Exhaust system: ceiling diffusers Mo-EXHS-DUCT Exhaust system: ductwork Mo-EXHS-DUCT Exhaust system: ductwork: center Mo-EXHS-DUCT-CNTR Exhaust system: ductwork: center Mo-EXHS-EQPM Exhaust system: rooftop equipment Mo-EXHS-RFEQ Exhaust system: rooftop equipment Mo-FUCR Mo-FUCR Floor: penetrations Mo-FUEL-GREP Fuel systems: gas general piping Mo-FUEL-GGEP Fuel systems: gas general piping: high pressure piping Mo-FUEL-GGEP-HPIP Fuel systems: gas general piping: low-pressure piping Mo-FUEL-GGEP-HPIP Fuel systems: gas general piping: liquid petroleum gas Mo-FUEL-GGEP-MPIP Fuel systems: gas general piping: medium-pressure piping Mo-FUEL-GPPP Fuel systems: gas process piping Mo-FUEL-GPPP Fuel systems: oil general piping: discharge Mo-FUEL-OGEP Fuel systems: oil general piping: flow Mo-FUEL-OGEP-GAGE Fuel systems: oil general piping: gauge Mo-FUEL-OGEP-RETN Fuel systems: oil general piping: supply Mo-FUEL-OGEP-SPLY Fuel systems: oil general piping: yents Mo-FUEL-OGEP-VENT Fuel systems: oil general piping: vents Mo-FUME-DUCT Fume hood: ductwork Mo-FUME-EQPM Fume hood: ductwork Mo-FUME-EQPM Fume hood: ductwork Mo-GLYC-RETN-PIPE Glycol systems: return: piping	M _D -ELHT	Electric heat
Mo-ENER-EQPM Energy management systems: equipment Mo-ENER-WIRE Energy management systems: wiring Mo-EXHS Exhaust system Mo-EXHS-CDFF Exhaust system: ductwork Mo-EXHS-DUCT Exhaust system: ductwork: center Mo-EXHS-DUCT-CNTR Exhaust system: ductwork: center Mo-EXHS-DUCT-CNTR Exhaust system: ductwork: center Mo-EXHS-EQPM Exhaust system: rooftop equipment Mo-EXHS-RFEQ Exhaust system: rooftop equipment Mo-EXHS-RFEQ Exhaust system: rooftop equipment Mo-FLOR Floor Mo-FLOR Floor Mo-FUEL Fuel systems Mo-FUEL-GGPP Fuel systems: gas general piping Mo-FUEL-GGEP Fuel systems: gas general piping: high pressure piping Mo-FUEL-GGEP-LPIP Fuel systems: gas general piping: low-pressure piping Mo-FUEL-GGEP-LPIP Fuel systems: gas general piping: medium-pressure piping Mo-FUEL-GGEP-MPIP Fuel systems: gas general piping: medium-pressure piping Mo-FUEL-GGEP-MPIP Fuel systems: gas process piping Mo-FUEL-OPRP Fuel systems: oil general piping: discharge Mo-FUEL-OGEP-DISC Fuel systems: oil general piping: flow Mo-FUEL-OGEP-FLLW Fuel systems: oil general piping: gauge Mo-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply Mo-FUEL-OGEP-SPLY Fuel systems: oil general piping: vents Mo-FUEL-OGEP-VENT Fuel systems: oil general piping: vents Mo-FUEL-OGEP-VENT Fuel systems: oil general piping: vents Mo-FUME-DUCT Fume hood Mo-FUME-DUCT Fume hood Mo-FUME-OUCT Fume hood Mo-GLYC-RETN Glycol systems Mo-GLYC-RETN-PIPE Glycol systems: return Mo-GLYC-RETN-PIPE Glycol systems: return Mo-GLYC-RETN-PIPE Glycol systems: return Mo-GLYC-RETN-PIPE Glycol systems: return: piping	M□-ELHT-EQPM	Electric heat: equipment
Mo-ENER-WIRE Energy management systems: wiring Mo-EXHS Exhaust system Mo-EXHS-CDFF Exhaust system: ceiling diffusers Mo-EXHS-DUCT Exhaust system: ductwork Mo-EXHS-DUCT-CNTR Exhaust system: ductwork: center Mo-EXHS-EQPM Exhaust system: ductwork: center Mo-EXHS-EQPM Exhaust system: ductwork: center Mo-EXHS-EQPM Exhaust system: cequipment Mo-EXHS-RFEQ Exhaust system: conftop equipment Mo-EXHS-ROPE Floor Mo-FLOR Floor Mo-FUEL Fuel systems: equipment Mo-FUEL Fuel systems: equipment Mo-FUEL-GGEP Fuel systems: equipment Mo-FUEL-GGEP Fuel systems: gas general piping: high pressure piping Mo-FUEL-GGEP-HPIP Fuel systems: gas general piping: liquid petroleum gas Mo-FUEL-GGEP-LQPG Fuel systems: gas general piping: liquid petroleum gas Mo-FUEL-GGEP-MPIP Fuel systems: gas general piping: medium-pressure piping Mo-FUEL-OGEP-MPIP Fuel systems: gas general piping: medium-pressure piping Mo-FUEL-OGEP Fuel systems: oil general piping: discharge Mo-FUEL-OGEP-FILW	M□-ENER	Energy management systems
M□-EXHS Exhaust system: ceiling diffusers M□-EXHS-CDFF Exhaust system: ductwork M□-EXHS-DUCT Exhaust system: ductwork: center M□-EXHS-DUCT-CNTR Exhaust system: ductwork: center M□-EXHS-DUCT-CNTR Exhaust system: ductwork: center M□-EXHS-EQPM Exhaust system: equipment M□-EXHS-RFEQ Exhaust system: rooftop equipment M□-EXHS-RFEQ Exhaust system: rooftop equipment M□-FURC Floor: penetrations M□-FURL Fuel systems M□-FURL-GQEP Fuel systems: equipment M□-FURL-GGEP Fuel systems: gas general piping M□-FURL-GGEP-HPIP Fuel systems: gas general piping: high pressure piping M□-FURL-GGEP-LPIP Fuel systems: gas general piping: low-pressure piping M□-FURL-GGEP-LPIP Fuel systems: gas general piping: liquid petroleum gas M□-FURL-GGEP-UPP Fuel systems: gas general piping: medium-pressure piping M□-FURL-GGEP-MPIP Fuel systems: gas general piping: medium-pressure piping M□-FURL-GGEP-WPIP Fuel systems: oil general piping: discharge M□-FURL-OGEP Fuel systems: oil general piping: discharge M□-FURL-OGEP-RETN Fuel systems: oil general piping: gauge M□-FURL-OGEP-RETN Fuel systems: oil general piping: return M□-FURL-OGEP-VENT Fuel systems: oil general piping: supply M□-FURL-OGEP-VENT Fuel systems: oil general piping: vents M□-FUME Fume hood M□-FUME Fume hood M□-FUME-GUCT Fume hood: ductwork M□-FUME-GUCT Fume hood: ductwork M□-FUME-EQPM Fume hood: equipment M□-GLYC Glycol systems: return: piping	M□-ENER-EQPM	Energy management systems: equipment
M□-EXHS-CDFF Exhaust system: ceiling diffusers M□-EXHS-DUCT Exhaust system: ductwork M□-EXHS-DUCT-CNTR Exhaust system: ductwork: center M□-EXHS-DUCT-CNTR Exhaust system: ductwork: center M□-EXHS-EQPM Exhaust system: equipment M□-EXHS-RFEQ Exhaust system: rooftop equipment M□-EXHS-RFEQ Exhaust system: rooftop equipment M□-EURDR Floor: penetrations M□-FUEL Fuel systems M□-FUEL-GQEP Fuel systems: equipment M□-FUEL-GGEP Fuel systems: gas general piping M□-FUEL-GGEP-HPIP Fuel systems: gas general piping: high pressure piping M□-FUEL-GGEP-LPIP Fuel systems: gas general piping: low-pressure piping M□-FUEL-GGEP-LPIP Fuel systems: gas general piping: liquid petroleum gas M□-FUEL-GGEP-UPP Fuel systems: gas general piping: medium-pressure piping M□-FUEL-GGEP-MPIP Fuel systems: gas process piping M□-FUEL-GGEP Fuel systems: oil process piping M□-FUEL-OGEP Fuel systems: oil general piping: discharge M□-FUEL-OGEP-LLW Fuel systems: oil general piping: flow M□-FUEL-OGEP-RETN Fuel systems: oil general piping: gauge M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply M□-FUEL-OGEP-VENT Fuel systems: oil general piping: supply M□-FUEL-OGEP-VENT Fuel systems: oil general piping: vents M□-FUEL-OGEP-VENT Fuel systems: oil general piping: vents M□-FUME Fume hood M□-FUME-DUCT Fume hood: ductwork M□-FUME-DUCT Fume hood: ductwork M□-FUME-EQPM Fume hood: equipment M□-GLYC-RETN-PIPE Glycol systems: return: piping	M□-ENER-WIRE	Energy management systems: wiring
Mo-EXHS-DUCT Exhaust system: ductwork Mo-EXHS-DUCT-CNTR Exhaust system: ductwork: center Mo-EXHS-EQPM Exhaust system: equipment Mo-EXHS-RFEQ Exhaust system: rooftop equipment Mo-EXHS-RFEQ Exhaust system: rooftop equipment Mo-FURC Floor: penetrations Mo-FUEL Fuel systems: Mo-FUEL-GGEP Fuel systems: gas general piping Mo-FUEL-GGEP-HPIP Fuel systems: gas general piping: high pressure piping Mo-FUEL-GGEP-LPIP Fuel systems: gas general piping: liquid petroleum gas Mo-FUEL-GGEP-DPIP Fuel systems: gas general piping: liquid petroleum gas Mo-FUEL-GGEP-MPIP Fuel systems: gas general piping: medium-pressure piping Mo-FUEL-GGEP-MPIP Fuel systems: gas process piping Mo-FUEL-GPRP Fuel systems: oil process piping Mo-FUEL-OPRP Fuel systems: oil general piping: discharge Mo-FUEL-OGEP-DISC Fuel systems: oil general piping: flow Mo-FUEL-OGEP-FLLW Fuel systems: oil general piping: gauge Mo-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply Mo-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply Mo-FUEL-OGEP-SPLY Fuel systems: oil general piping: vents Mo-FUEL-OGEP-VENT Fuel systems: oil general piping: vents Mo-FUME-DUCT Fume hood Mo-FUME-DUCT Fume hood: ductwork Mo-FUME-CAPT Fume hood: ductwork Mo-GLYC Glycol systems: return: piping Mo-GLYC-RETN-PIPE Glycol systems: return: piping	M□-EXHS	Exhaust system
M⊡-EXHS-DUCT-CNTR Exhaust system: ductwork: center M⊡-EXHS-EQPM Exhaust system: equipment M⊡-EXHS-RFEQ Exhaust system: rooftop equipment M⊡-EXHS-RFEQ Exhaust system: rooftop equipment M⊡-FLOR Floor M⊡-FLOR Floor: penetrations M⊡-FUEL Fuel systems M⊡-FUEL-GAPM Fuel systems: equipment M⊡-FUEL-GGEP Fuel systems: gas general piping M⊡-FUEL-GGEP-HPIP Fuel systems: gas general piping: high pressure piping M⊡-FUEL-GGEP-LPIP Fuel systems: gas general piping: low-pressure piping M⊡-FUEL-GGEP-LQPG Fuel systems: gas general piping: medium-pressure piping M⊡-FUEL-GGEP-MPIP Fuel systems: gas process piping M⊡-FUEL-OGEP-MPIP Fuel systems: gas process piping M⊡-FUEL-OPRP Fuel systems: oil general piping: medium-pressure piping M⊡-FUEL-OPRP Fuel systems: oil general piping M⊡-FUEL-OGEP-DISC Fuel systems: oil general piping: discharge M⊡-FUEL-OGEP-FILW Fuel systems: oil general piping: gauge M⊡-FUEL-OGEP-RETN Fuel systems: oil general piping: return M⊡-FUEL-OGEP-SPLY Fuel systems: oil general piping:	M□-EXHS-CDFF	Exhaust system: ceiling diffusers
Mo-EXHS-EQPM Exhaust system: equipment Mo-FLOR Floor Mo-FLOR-PENE Floor: penetrations Mo-FUEL Fuel systems Mo-FUEL-GQPM Fuel systems: equipment Mo-FUEL-GGEP Fuel systems: gas general piping Mo-FUEL-GGEP-HPIP Fuel systems: gas general piping: liquid petroleum gas Mo-FUEL-GGEP-LPIP Fuel systems: gas general piping: liquid petroleum gas Mo-FUEL-GGEP-MPIP Fuel systems: gas general piping: medium-pressure piping Mo-FUEL-GGEP-MPIP Fuel systems: gas process piping Mo-FUEL-GPRP Fuel systems: gas process piping Mo-FUEL-GPRP Fuel systems: oil general piping: medium-pressure piping Mo-FUEL-OPRP Fuel systems: oil general piping: liquid petroleum gas Mo-FUEL-OPRP Fuel systems: oil general piping: medium-pressure piping Mo-FUEL-OPRP Fuel systems: oil general piping: discharge Mo-FUEL-OGEP Fuel systems: oil general piping: discharge Mo-FUEL-OGEP-FILLW Fuel systems: oil general piping: gauge Mo-FUEL-OGEP-RETN Fuel systems: oil general piping: vents Mo-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply Mo-FUEL-O	M□-EXHS-DUCT	Exhaust system: ductwork
M⊡-EXHS-RFEQ Exhaust system: rooftop equipment M⊡-FLOR Floor M⊡-FLOR-PENE Floor: penetrations M⊡-FUEL Fuel systems M⊡-FUEL-GAPM Fuel systems: equipment M⊡-FUEL-GGEP Fuel systems: gas general piping M⊡-FUEL-GGEP-HPIP Fuel systems: gas general piping: high pressure piping M⊡-FUEL-GGEP-LPIP Fuel systems: gas general piping: liquid petroleum gas M⊡-FUEL-GGEP-LQPG Fuel systems: gas general piping: medium-pressure piping M⊡-FUEL-GGEP-MPIP Fuel systems: gas process piping M⊡-FUEL-GPRP Fuel systems: oil process piping M⊡-FUEL-OPRP Fuel systems: oil general piping: medium-pressure piping M⊡-FUEL-OPRP Fuel systems: oil process piping M⊡-FUEL-OPRP Fuel systems: oil general piping M⊡-FUEL-OGEP Fuel systems: oil general piping: discharge M⊡-FUEL-OGEP-FILW Fuel systems: oil general piping: flow M⊡-FUEL-OGEP-GAGE Fuel systems: oil general piping: gauge M⊡-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply M⊡-FUEL-OGEP-VENT Fuel systems: oil general piping: vents M⊡-FUME Fume hood <td>M□-EXHS-DUCT-CNTR</td> <td>Exhaust system: ductwork: center</td>	M□-EXHS-DUCT-CNTR	Exhaust system: ductwork: center
M□-FLOR Floor: penetrations M□-FUEL Fuel systems M□-FUEL-EQPM Fuel systems: equipment M□-FUEL-GGEP Fuel systems: gas general piping M□-FUEL-GGEP-HPIP Fuel systems: gas general piping: high pressure piping M□-FUEL-GGEP-LPIP Fuel systems: gas general piping: low-pressure piping M□-FUEL-GGEP-LPIP Fuel systems: gas general piping: liquid petroleum gas M□-FUEL-GGEP-MPIP Fuel systems: gas general piping: medium-pressure piping M□-FUEL-GGEP-MPIP Fuel systems: gas process piping M□-FUEL-OPRP Fuel systems: oil process piping M□-FUEL-OGEP Fuel systems: oil general piping: discharge M□-FUEL-OGEP-DISC Fuel systems: oil general piping: flow M□-FUEL-OGEP-FLLW Fuel systems: oil general piping: gauge M□-FUEL-OGEP-GAGE Fuel systems: oil general piping: return M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: vents M□-FUEL-OGEP-VENT Fuel systems: oil general piping: vents M□-FUME Fume hood M□-FUME-DUCT Fume hood: ductwork M□-FUME-EQPM Fume hood: equipment M□-GLYC Glycol systems: return M□-GLYC-RETN Glycol systems: return M□-GLYC-RETN-PIPE Glycol systems: return: piping	M□-EXHS-EQPM	Exhaust system: equipment
M□-FUBL M□-FUBL Fuel systems M□-FUBL-EQPM Fuel systems: equipment M□-FUBL-GGEP Fuel systems: gas general piping M□-FUBL-GGEP-HPIP Fuel systems: gas general piping: high pressure piping M□-FUBL-GGEP-LPIP Fuel systems: gas general piping: liquid petroleum gas M□-FUBL-GGEP-LQPG Fuel systems: gas general piping: liquid petroleum gas M□-FUBL-GGEP-MPIP Fuel systems: gas general piping: medium-pressure piping M□-FUBL-GGEP-MPIP Fuel systems: gas process piping M□-FUBL-GPRP Fuel systems: oil process piping M□-FUBL-OGEP Fuel systems: oil general piping: discharge M□-FUBL-OGEP-BISC Fuel systems: oil general piping: flow M□-FUBL-OGEP-FLLW Fuel systems: oil general piping: gauge M□-FUBL-OGEP-RETN Fuel systems: oil general piping: return M□-FUBL-OGEP-SPLY Fuel systems: oil general piping: supply M□-FUBL-OGEP-SPLY Fuel systems: oil general piping: wents M□-FUBL-OGEP-VENT Fuel systems: oil general piping: vents M□-FUBL-OGEP-VENT Fuel systems: return: piping Glycol systems: return: piping	M□-EXHS-RFEQ	Exhaust system: rooftop equipment
M□-FUEL-EQPM Fuel systems: equipment M□-FUEL-GGEP Fuel systems: gas general piping M□-FUEL-GGEP-HPIP Fuel systems: gas general piping: high pressure piping M□-FUEL-GGEP-LPIP Fuel systems: gas general piping: low-pressure piping M□-FUEL-GGEP-LPIP Fuel systems: gas general piping: liquid petroleum gas M□-FUEL-GGEP-LPIP Fuel systems: gas general piping: medium-pressure piping M□-FUEL-GGEP-MPIP Fuel systems: gas general piping: medium-pressure piping M□-FUEL-GPRP Fuel systems: gas process piping M□-FUEL-OPRP Fuel systems: oil process piping M□-FUEL-OPRP Fuel systems: oil general piping M□-FUEL-OGEP Fuel systems: oil general piping: discharge M□-FUEL-OGEP-FLLW Fuel systems: oil general piping: flow M□-FUEL-OGEP-GAGE Fuel systems: oil general piping: gauge M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: return M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply M□-FUEL-OGEP-VENT Fuel systems: oil general piping: vents M□-FUME Fume hood M□-FUME-DUCT Fume hood: ductwork M□-FUME-EQPM Fume hood: ductwork M□-FUME-EQPM Fume hood: equipment M□-GLYC Glycol systems: return M□-GLYC-RETN-PIPE Glycol systems: return: piping	M□-FLOR	Floor
M□-FUEL-EQPM Fuel systems: equipment M□-FUEL-GGEP Fuel systems: gas general piping M□-FUEL-GGEP-HPIP Fuel systems: gas general piping: high pressure piping M□-FUEL-GGEP-LPIP Fuel systems: gas general piping: low-pressure piping M□-FUEL-GGEP-LQPG Fuel systems: gas general piping: liquid petroleum gas M□-FUEL-GGEP-MPIP Fuel systems: gas general piping: medium-pressure piping M□-FUEL-GGEP-MPIP Fuel systems: gas process piping M□-FUEL-GPRP Fuel systems: oil process piping M□-FUEL-OPRP Fuel systems: oil general piping M□-FUEL-OGEP Fuel systems: oil general piping: discharge M□-FUEL-OGEP-DISC Fuel systems: oil general piping: flow M□-FUEL-OGEP-GAGE Fuel systems: oil general piping: gauge M□-FUEL-OGEP-GAGE Fuel systems: oil general piping: return M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply M□-FUEL-OGEP-VENT Fuel systems: oil general piping: vents M□-FUME Fume hood M□-FUME-DUCT Fume hood: ductwork M□-FUME-EQPM Fume hood: equipment M□-GLYC Glycol systems: return M□-GLYC-RETN Glycol systems: return: piping	M□-FLOR-PENE	Floor: penetrations
M□-FUEL-GGEP Fuel systems: gas general piping M□-FUEL-GGEP-HPIP Fuel systems: gas general piping: high pressure piping M□-FUEL-GGEP-LPIP Fuel systems: gas general piping: low-pressure piping M□-FUEL-GGEP-LQPG Fuel systems: gas general piping: liquid petroleum gas M□-FUEL-GGEP-MPIP Fuel systems: gas general piping: medium-pressure piping M□-FUEL-GPRP Fuel systems: gas process piping M□-FUEL-OPRP Fuel systems: oil process piping M□-FUEL-OGEP Fuel systems: oil general piping M□-FUEL-OGEP-DISC Fuel systems: oil general piping: discharge M□-FUEL-OGEP-FLLW Fuel systems: oil general piping: flow M□-FUEL-OGEP-GAGE Fuel systems: oil general piping: gauge M□-FUEL-OGEP-RETN Fuel systems: oil general piping: return M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply M□-FUEL-OGEP-VENT Fuel systems: oil general piping: vents M□-FUME Fume hood M□-FUME-DUCT Fume hood: ductwork M□-FUME-EQPM Fume hood: equipment M□-GLYC Glycol systems: return M□-GLYC-RETN Glycol systems: return: piping	M _□ -FUEL	Fuel systems
M□-FUEL-GGEP-HPIP Fuel systems: gas general piping: high pressure piping M□-FUEL-GGEP-LPIP Fuel systems: gas general piping: low-pressure piping M□-FUEL-GGEP-LQPG Fuel systems: gas general piping: liquid petroleum gas M□-FUEL-GGEP-MPIP Fuel systems: gas general piping: medium-pressure piping M□-FUEL-GPRP Fuel systems: gas process piping M□-FUEL-OPRP Fuel systems: oil process piping M□-FUEL-OGEP Fuel systems: oil general piping M□-FUEL-OGEP Fuel systems: oil general piping: discharge M□-FUEL-OGEP-FLLW Fuel systems: oil general piping: flow M□-FUEL-OGEP-GAGE Fuel systems: oil general piping: gauge M□-FUEL-OGEP-RETN Fuel systems: oil general piping: return M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply M□-FUEL-OGEP-VENT Fuel systems: oil general piping: vents M□-FUME Fume hood M□-FUME-DUCT Fume hood: ductwork M□-FUME-EQPM Fume hood: equipment M□-GLYC Glycol systems: return M□-GLYC-RETN-PIPE Glycol systems: return: piping	M□-FUEL-EQPM	Fuel systems: equipment
M□-FUEL-GGEP-LPIP Fuel systems: gas general piping: low-pressure piping M□-FUEL-GGEP-LQPG Fuel systems: gas general piping: liquid petroleum gas M□-FUEL-GGEP-MPIP Fuel systems: gas general piping: medium-pressure piping M□-FUEL-GPRP Fuel systems: gas process piping M□-FUEL-OPRP Fuel systems: oil process piping M□-FUEL-OGEP Fuel systems: oil general piping M□-FUEL-OGEP-DISC Fuel systems: oil general piping: discharge M□-FUEL-OGEP-FLLW Fuel systems: oil general piping: flow M□-FUEL-OGEP-GAGE Fuel systems: oil general piping: gauge M□-FUEL-OGEP-RETN Fuel systems: oil general piping: return M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply M□-FUEL-OGEP-VENT Fuel systems: oil general piping: vents M□-FUME Fume hood M□-FUME-DUCT Fume hood: ductwork M□-FUME-EQPM Fume hood: equipment M□-GLYC Glycol systems M□-GLYC-RETN-PIPE Glycol systems: return: piping	M□-FUEL-GGEP	Fuel systems: gas general piping
M□-FUEL-GGEP-LQPG Fuel systems: gas general piping: liquid petroleum gas M□-FUEL-GGEP-MPIP Fuel systems: gas general piping: medium-pressure piping M□-FUEL-GPRP Fuel systems: gas process piping M□-FUEL-OPRP Fuel systems: oil process piping M□-FUEL-OGEP Fuel systems: oil general piping M□-FUEL-OGEP-DISC Fuel systems: oil general piping: discharge M□-FUEL-OGEP-FLLW Fuel systems: oil general piping: flow M□-FUEL-OGEP-GAGE Fuel systems: oil general piping: gauge M□-FUEL-OGEP-RETN Fuel systems: oil general piping: return M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply M□-FUEL-OGEP-VENT Fuel systems: oil general piping: vents M□-FUME M□-FUME Fume hood M□-FUME-DUCT Fume hood: ductwork M□-FUME-EQPM Fume hood: equipment M□-GLYC Glycol systems M□-GLYC-RETN Glycol systems: return: piping	M□-FUEL-GGEP-HPIP	Fuel systems: gas general piping: high pressure piping
M□-FUEL-GGEP-MPIP Fuel systems: gas general piping: medium-pressure piping M□-FUEL-GPRP Fuel systems: gas process piping M□-FUEL-OPRP Fuel systems: oil process piping M□-FUEL-OGEP Fuel systems: oil general piping M□-FUEL-OGEP-DISC Fuel systems: oil general piping: discharge M□-FUEL-OGEP-FLLW Fuel systems: oil general piping: flow M□-FUEL-OGEP-GAGE Fuel systems: oil general piping: gauge M□-FUEL-OGEP-RETN Fuel systems: oil general piping: return M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply M□-FUEL-OGEP-VENT Fuel systems: oil general piping: vents M□-FUME Fume hood M□-FUME-DUCT Fume hood: ductwork M□-FUME-EQPM Fume hood: equipment M□-GLYC Glycol systems M□-GLYC-RETN Glycol systems: return M□-GLYC-RETN-PIPE Glycol systems: return: piping	M□-FUEL-GGEP-LPIP	Fuel systems: gas general piping: low-pressure piping
Mo-FUEL-GPRP Fuel systems: gas process piping Mo-FUEL-OPRP Fuel systems: oil process piping Mo-FUEL-OGEP Fuel systems: oil general piping Mo-FUEL-OGEP-DISC Fuel systems: oil general piping: discharge Mo-FUEL-OGEP-FLLW Fuel systems: oil general piping: flow Mo-FUEL-OGEP-GAGE Fuel systems: oil general piping: gauge Mo-FUEL-OGEP-RETN Fuel systems: oil general piping: return Mo-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply Mo-FUEL-OGEP-VENT Fuel systems: oil general piping: vents Mo-FUME Fume hood Mo-FUME-DUCT Fume hood: ductwork Mo-FUME-EQPM Fume hood: equipment Mo-GLYC Glycol systems Mo-GLYC-RETN Glycol systems: return: piping	M□-FUEL-GGEP-LQPG	Fuel systems: gas general piping: liquid petroleum gas
Mo-FUEL-OPRP Fuel systems: oil process piping Mo-FUEL-OGEP Fuel systems: oil general piping Mo-FUEL-OGEP-DISC Fuel systems: oil general piping: discharge Mo-FUEL-OGEP-FLLW Fuel systems: oil general piping: flow Mo-FUEL-OGEP-GAGE Fuel systems: oil general piping: gauge Mo-FUEL-OGEP-RETN Fuel systems: oil general piping: return Mo-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply Mo-FUEL-OGEP-VENT Fuel systems: oil general piping: vents Mo-FUME Fume hood Mo-FUME-DUCT Fume hood: ductwork Mo-FUME-EQPM Fume hood: equipment Mo-GLYC Glycol systems: return Mo-GLYC-RETN Glycol systems: return: piping	M□-FUEL-GGEP-MPIP	Fuel systems: gas general piping: medium-pressure piping
M□-FUEL-OGEP Fuel systems: oil general piping M□-FUEL-OGEP-DISC Fuel systems: oil general piping: discharge M□-FUEL-OGEP-FLLW Fuel systems: oil general piping: flow M□-FUEL-OGEP-GAGE Fuel systems: oil general piping: gauge M□-FUEL-OGEP-RETN Fuel systems: oil general piping: return M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply M□-FUEL-OGEP-VENT Fuel systems: oil general piping: vents M□-FUME Fume hood M□-FUME-DUCT Fume hood: ductwork M□-FUME-EQPM Fume hood: equipment M□-GLYC Glycol systems M□-GLYC-RETN Glycol systems: return M□-GLYC-RETN-PIPE Glycol systems: return: piping	M□-FUEL-GPRP	Fuel systems: gas process piping
M□-FUEL-OGEP-DISC Fuel systems: oil general piping: discharge M□-FUEL-OGEP-FLLW Fuel systems: oil general piping: flow M□-FUEL-OGEP-GAGE Fuel systems: oil general piping: gauge M□-FUEL-OGEP-RETN Fuel systems: oil general piping: return M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply M□-FUEL-OGEP-VENT Fuel systems: oil general piping: vents M□-FUME Fume hood M□-FUME-DUCT Fume hood: ductwork M□-FUME-EQPM Fume hood: equipment M□-GLYC Glycol systems M□-GLYC-RETN Glycol systems: return M□-GLYC-RETN-PIPE Glycol systems: return: piping	M□-FUEL-OPRP	Fuel systems: oil process piping
MD-FUEL-OGEP-FLLW Fuel systems: oil general piping: flow MD-FUEL-OGEP-GAGE Fuel systems: oil general piping: gauge MD-FUEL-OGEP-RETN Fuel systems: oil general piping: return MD-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply MD-FUEL-OGEP-VENT Fuel systems: oil general piping: vents MD-FUME Fume hood MD-FUME-DUCT Fume hood: ductwork MD-FUME-EQPM Fume hood: equipment MD-GLYC Glycol systems MD-GLYC-RETN Glycol systems: return: piping	M□-FUEL-OGEP	Fuel systems: oil general piping
MD-FUEL-OGEP-GAGE MD-FUEL-OGEP-RETN Fuel systems: oil general piping: return MD-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply MD-FUEL-OGEP-VENT Fuel systems: oil general piping: vents MD-FUME Fume hood MD-FUME-DUCT Fume hood: ductwork MD-FUME-EQPM Fume hood: equipment MD-GLYC Glycol systems: return MD-GLYC-RETN Glycol systems: return: piping	M□-FUEL-OGEP-DISC	Fuel systems: oil general piping: discharge
M□-FUEL-OGEP-RETN Fuel systems: oil general piping: return M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply M□-FUEL-OGEP-VENT Fuel systems: oil general piping: vents M□-FUME Fume hood M□-FUME-DUCT Fume hood: ductwork M□-FUME-EQPM Fume hood: equipment M□-GLYC Glycol systems M□-GLYC-RETN Glycol systems: return M□-GLYC-RETN-PIPE Glycol systems: return: piping	M□-FUEL-OGEP-FLLW	Fuel systems: oil general piping: flow
M□-FUEL-OGEP-SPLY Fuel systems: oil general piping: supply M□-FUEL-OGEP-VENT Fuel systems: oil general piping: vents M□-FUME Fume hood M□-FUME-DUCT Fume hood: ductwork M□-FUME-EQPM Fume hood: equipment M□-GLYC Glycol systems M□-GLYC-RETN Glycol systems: return M□-GLYC-RETN-PIPE Glycol systems: return: piping	M□-FUEL-OGEP-GAGE	Fuel systems: oil general piping: gauge
M□-FUEL-OGEP-VENT Fuel systems: oil general piping: vents M□-FUME Fume hood M□-FUME-DUCT Fume hood: ductwork M□-FUME-EQPM Fume hood: equipment M□-GLYC Glycol systems M□-GLYC-RETN Glycol systems: return M□-GLYC-RETN-PIPE Glycol systems: return: piping	M□-FUEL-OGEP-RETN	Fuel systems: oil general piping: return
M□-FUME Fume hood M□-FUME-DUCT Fume hood: ductwork M□-FUME-EQPM Fume hood: equipment M□-GLYC Glycol systems M□-GLYC-RETN Glycol systems: return M□-GLYC-RETN-PIPE Glycol systems: return: piping	M□-FUEL-OGEP-SPLY	Fuel systems: oil general piping: supply
M□-FUME-DUCT Fume hood: ductwork M□-FUME-EQPM Fume hood: equipment M□-GLYC Glycol systems M□-GLYC-RETN Glycol systems: return M□-GLYC-RETN-PIPE Glycol systems: return: piping	M□-FUEL-OGEP-VENT	Fuel systems: oil general piping: vents
M□-FUME-EQPM Fume hood: equipment M□-GLYC Glycol systems M□-GLYC-RETN Glycol systems: return M□-GLYC-RETN-PIPE Glycol systems: return: piping	M□-FUME	Fume hood
M□-GLYC Glycol systems M□-GLYC-RETN Glycol systems: return M□-GLYC-RETN-PIPE Glycol systems: return: piping	M□-FUME-DUCT	Fume hood: ductwork
M□-GLYC-RETN Glycol systems: return M□-GLYC-RETN-PIPE Glycol systems: return: piping	M□-FUME-EQPM	Fume hood: equipment
M□-GLYC-RETN-PIPE Glycol systems: return: piping	M□-GLYC	Glycol systems
	M□-GLYC-RETN	Glycol systems: return
M□-GLYC-RETN-SKCH Glycol systems: return: sketch	M□-GLYC-RETN-PIPE	Glycol systems: return: piping
	M□-GLYC-RETN-SKCH	Glycol systems: return: sketch

Mc-GLYC-SPLY-PIPE Glycol systems: supply: piping Mc-GLYC-SPLY-SKCH Glycol systems: supply: sketch Mc-HVAC HVAC systems Mc-HVAC-BOXD HVAC systems: mixing box, dual duct Mc-HVAC-BOXS HVAC systems: mixing box, single duct Mc-HVAC-CDFF HVAC systems: ceiling diffusers Mc-HVAC-CLDA HVAC systems: cold air: ductwork Mc-HVAC-CLDA-DUCT HVAC systems: cold air: equipment Mc-HVAC-CLDA-EQPM HVAC systems: cold air: equipment Mc-HVAC-CLDA-EQPM HVAC systems: cold air: sketch line round or oval duct Mc-HVAC-CLDA-SECT HVAC systems: cold air: sketch line rectangular duct Mc-HVAC-CLDA-SIZE HVAC systems: cold air: sketch line rectangular duct Mc-HVAC-CLDA-SIZE HVAC systems: cold air: sketch line rectangular duct Mc-HVAC-CLDA-SIZE HVAC systems: cold air: sketch line rectangular duct Mc-HVAC-DA-SIZE HVAC systems: cold air: sketch line rectangular duct Mc-HVAC-DA-SIZE HVAC systems: cold air: sketch line rectangular duct Mc-HVAC-CLDA-SIZE HVAC systems: equipment doors Mc-HVAC-DOOR HVAC systems: equipment doors Mc-HVAC-BASCH HVAC systems: equipment with piping, ductwork and electricity Mc-HVAC-EPIP HVAC systems: equipment with piping and electricity Mc-HVAC-EPIP HVAC systems: equipment with piping and electricity Mc-HVAC-EVHS HVAC systems: exhaust air Mc-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork Mc-HVAC-EXHS-GRIL HVAC systems: exhaust air: ductwork Mc-HVAC-EXHS-RSCH HVAC systems: exhaust air: sketch line round or oval duct Mc-HVAC-EXHS-SECT HVAC systems: exhaust air: sketch line round or oval duct Mc-HVAC-EXHS-SSCH HVAC systems: exhaust air: sketch line round or oval duct Mc-HVAC-HOTA-BCH HVAC systems: hot air: ductwork size Mc-HVAC-HOTA-SECT HVAC systems: hot air: ductwork Mc-HVAC-HOTA-SECT HVAC systems: hot air: sketch line round or oval duct Mc-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct Mc-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct Mc-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct Mc-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct Mc-HVAC-H	M□-GLYC-SPLY	Glycol systems: supply
Mu-HVAC Mu-HVAC Mu-HVAC Mu-HVAC-BOXD Mu-HVAC-BOXS Mu-HVAC-Systems: mixing box, dual duct Mu-HVAC-BOXS Mu-HVAC-CDFF HVAC systems: mixing box, single duct Mu-HVAC-CDFF HVAC systems: colid air: Mu-HVAC-CLDA HVAC systems: cold air: ductwork Mu-HVAC-CLDA-EQPM HVAC systems: cold air: ductwork Mu-HVAC-CLDA-EQPM HVAC systems: cold air: section Mu-HVAC-CLDA-SECT HVAC systems: cold air: section Mu-HVAC-CLDA-SECT HVAC systems: cold air: section Mu-HVAC-CLDA-SECT HVAC systems: cold air: section Mu-HVAC-CLDA-SIZE HVAC systems: cold air: section Mu-HVAC-CLDA-SIZE HVAC systems: cold air: section Mu-HVAC-CLDA-SIZE HVAC systems: cold air: section Mu-HVAC-CDA-SECH HVAC systems: cold air: section Mu-HVAC-DMPR HVAC systems: equipment doors Mu-HVAC-DMPR HVAC systems: equipment with electric fans Mu-HVAC-EAN Mu-HVAC-EPDU HVAC systems: equipment with piping, ductwork and electricity Mu-HVAC-EPDU HVAC systems: equipment with piping and electricity Mu-HVAC-EANB HVAC systems: equipment Mu-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork Mu-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork Mu-HVAC-EXHS-GRIL HVAC systems: exhaust air: equipment Mu-HVAC-EXHS-GRIL HVAC systems: exhaust air: section Mu-HVAC-EXHS-SECT HVAC systems: exhaust air: section Mu-HVAC-EXHS-SECH HVAC systems: hot air: section Mu-HVAC-HOTA-BUCT HVAC systems: hot air: section Mu-HVAC-HOTA-SECH HVAC systems: hot air: section Mu-HVA	M□-GLYC-SPLY-PIPE	
M□-HVAC HVAC systems M□-HVAC-BOXD HVAC systems: mixing box, dual duct M□-HVAC-BOXS HVAC systems: mixing box, single duct M□-HVAC-CDFF HVAC systems: ceiling diffusers M□-HVAC-CLDA HVAC systems: coid air M□-HVAC-CLDA HVAC systems: coid air: ductwork M□-HVAC-CLDA-DUCT HVAC systems: coid air: ductwork M□-HVAC-CLDA-EQPM HVAC systems: coid air: ductwork M□-HVAC-CLDA-SCH HVAC systems: coid air: sketch line round or oval duct M□-HVAC-CLDA-SECT HVAC systems: coid air: sketch line rectangular duct M□-HVAC-CLDA-SECH HVAC systems: coid air: sketch line rectangular duct M□-HVAC-CLDA-SECH HVAC systems: coid air: sketch line rectangular duct M□-HVAC-DA-SECH HVAC systems: equipment doors M□-HVAC-DA-SECH HVAC systems: equipment with electric fans M□-HVAC-EPAN HVAC systems: equipment with piping and electricity M□-HVAC-EPIP HVAC systems: equipment with piping and electricity M□-HVAC-EPIP HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-GRIL HVAC systems: exhaust air: sketch line round or oval duct <td>M□-GLYC-SPLY-SKCH</td> <td></td>	M□-GLYC-SPLY-SKCH	
M□-HVAC-BOXD HVAC systems: mixing box, dual duct M□-HVAC-BOXS HVAC systems: mixing box, single duct M□-HVAC-CDFF HVAC systems: ceiling diffusers M□-HVAC-CLDA HVAC systems: cold air: ductwork M□-HVAC-CLDA-DUCT HVAC systems: cold air: ductwork M□-HVAC-CLDA-EQPM HVAC systems: cold air: ductwork M□-HVAC-CLDA-EQPM HVAC systems: cold air: sketch line round or oval duct M□-HVAC-CLDA-SECT HVAC systems: cold air: sketch line round or oval duct M□-HVAC-CLDA-SECT HVAC systems: cold air: sketch line round or oval duct M□-HVAC-CLDA-SIZE HVAC systems: cold air: sketch line rectangular duct M□-HVAC-CLDA-SIZE HVAC systems: cold air: sketch line rectangular duct M□-HVAC-DA-SSCH HVAC systems: cold air: sketch line rectangular duct M□-HVAC-DA-SSCH HVAC systems: cold air: sketch line rectangular duct M□-HVAC-DA-SSCH HVAC systems: equipment doors M□-HVAC-BAN HVAC systems: equipment with electric fans M□-HVAC-EFAN HVAC systems: equipment with piping, ductwork and electricity M□-HVAC-EPDU HVAC systems: equipment with piping and electricity M□-HVAC-EPDU HVAC systems: exhaust air M□-HVAC-EXHS HVAC systems: exhaust air: ductwork M□-HVAC-EXHS HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-SCH HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SECT HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SSCH HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-EXHS-SSCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-DUCT HVAC systems: hot air: ductwork M□-HVAC-HOTA-SCCH HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SCCH HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SCCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SCCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SCCH HVAC systems: hot air:	M□-HVAC	
Mc-HVAC-BOXS HVAC systems: mixing box, single duct Mc-HVAC-CDFF HVAC systems: ceiling diffusers Mc-HVAC-CLDA HVAC systems: cold air Mc-HVAC-CLDA-DUCT HVAC systems: cold air: ductwork Mc-HVAC-CLDA-EQPM HVAC systems: cold air: ductwork Mc-HVAC-CLDA-EQPM HVAC systems: cold air: sketch line round or oval duct Mc-HVAC-CLDA-SECT HVAC systems: cold air: sketch line round or oval duct Mc-HVAC-CLDA-SECT HVAC systems: cold air: sketch line rectangular duct Mc-HVAC-CLDA-SIZE HVAC systems: cold air: sketch line rectangular duct Mc-HVAC-CDA-SIZE HVAC systems: cold air: sketch line rectangular duct Mc-HVAC-CDA-SIZE HVAC systems: cold air: sketch line rectangular duct Mc-HVAC-DMPR HVAC systems: equipment doors Mc-HVAC-DOOR HVAC systems: equipment with electric fans Mc-HVAC-EPAN HVAC systems: equipment with piping, ductwork and electricity Mc-HVAC-EPDU HVAC systems: equipment with piping and electricity Mc-HVAC-EPIP HVAC systems: equipment with piping and electricity Mc-HVAC-EVHS HVAC systems: exhaust air: ductwork Mc-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork Mc-HVAC-EXHS-GRIL HVAC systems: exhaust air: ductwork Mc-HVAC-EXHS-GRIL HVAC systems: exhaust air: sketch line round or oval duct Mc-HVAC-EXHS-SCH HVAC systems: exhaust air: sketch line round or oval duct Mc-HVAC-EXHS-SSCH HVAC systems: exhaust air: sketch line rectangular duct Mc-HVAC-EXHS-SSCH HVAC systems: exhaust air: sketch line rectangular duct Mc-HVAC-HOTA-DUCT HVAC systems: hot air: ductwork Mc-HVAC-HOTA-EQPM HVAC systems: hot air: ductwork Mc-HVAC-HOTA-SSCH HVAC systems: hot air: ductwork Mc-HVAC-HOTA-SSCH HVAC systems: hot air: ductwork size Mc-HVAC-HOTA-SSCH HVAC systems: hot air: ductwork size Mc-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct Mc-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct Mc-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct Mc-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct Mc-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct Mc-HVAC-HOTA-	M□-HVAC-BOXD	
Mo-HVAC-CDFF HVAC systems: ceiling diffusers Mo-HVAC-CLDA HVAC systems: cold air Mo-HVAC-CLDA-DUCT HVAC systems: cold air: ductwork Mo-HVAC-CLDA-EQPM HVAC systems: cold air: equipment Mo-HVAC-CLDA-RSCH HVAC systems: cold air: sketch line round or oval duct Mo-HVAC-CLDA-SECT HVAC systems: cold air: sketch line rectangular duct Mo-HVAC-CLDA-SIZE HVAC systems: cold air: sketch line rectangular duct Mo-HVAC-DMPR HVAC systems: cold air: sketch line rectangular duct Mo-HVAC-DMPR HVAC systems: cold air: sketch line rectangular duct Mo-HVAC-DOOR HVAC systems: equipment doors Mo-HVAC-EFAN HVAC systems: equipment with electric fans Mo-HVAC-EPDU HVAC systems: equipment with piping, ductwork and electricity Mo-HVAC-EPIP HVAC systems: equipment with piping and electricity Mo-HVAC-EPIP HVAC systems: evaluat air: ductwork Mo-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork Mo-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork Mo-HVAC-EXHS-SCH HVAC systems: exhaust air: sketch line round or oval duct Mo-HVAC-EXHS-SSCH HVAC systems: exhaust air: sketch line rectangular duct	M□-HVAC-BOXS	
Mo-HVAC-CLDA-DUCT HVAC systems: cold air: ductwork Mo-HVAC-CLDA-EQPM HVAC systems: cold air: equipment Mo-HVAC-CLDA-RSCH HVAC systems: cold air: sketch line round or oval duct Mo-HVAC-CLDA-SECT HVAC systems: cold air: sketch line rectangular duct Mo-HVAC-CLDA-SIZE HVAC systems: cold air: sketch line rectangular duct Mo-HVAC-DMPR HVAC systems: fire, smoke, volume damper Mo-HVAC-DMPR HVAC systems: equipment doors Mo-HVAC-EFAN HVAC systems: equipment with electric fans Mo-HVAC-EFAN HVAC systems: equipment with piping, ductwork and electricity Mo-HVAC-EPID HVAC systems: equipment with piping and electricity Mo-HVAC-EPIP HVAC systems: exhaust air Mo-HVAC-EXHS HVAC systems: exhaust air: ductwork Mo-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork Mo-HVAC-EXHS-EQPM HVAC systems: exhaust air: sketch line round or oval duct Mo-HVAC-EXHS-RSCH HVAC systems: exhaust air: sketch line round or oval duct Mo-HVAC-EXHS-SSCT HVAC systems: exhaust air: sketch line rectangular duct Mo-HVAC-BAS-SSCH HVAC systems: hot air Mo-HVAC-HOTA HVAC systems: hot air: sketch line round or oval duct	M□-HVAC-CDFF	HVAC systems: ceiling diffusers
M□-HVAC-CLDA-EQPM M□-HVAC-CLDA-RSCH M□-HVAC-CLDA-RSCH M□-HVAC-CLDA-SECT M□-HVAC-CLDA-SECT M□-HVAC-CLDA-SECT M□-HVAC-CLDA-SIZE M□-HVAC-CLDA-SIZE M□-HVAC-CLDA-SIZE M□-HVAC-CLDA-SSCH M□-HVAC-DA-SSCH M□-HVAC-DA-SSCH M□-HVAC-DOOR M□-HVAC-DOOR M□-HVAC-DOOR M□-HVAC-EFAN M□-HVAC-EFAN M□-HVAC-EFAN M□-HVAC-EFAN M□-HVAC-EPID M□-HVAC-EPID M□-HVAC-EPIP M□-HVAC-EPIP M□-HVAC-EQPM M□-HVAC-Systems: equipment with piping, ductwork and electricity M□-HVAC-EPIP M□-HVAC-Systems: equipment with piping and electricity M□-HVAC-EXHS M□-HVAC-Systems: exhaust air: M□-HVAC-EXHS-DUCT M□-HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-EQPM M□-HVAC systems: exhaust air: grilles M□-HVAC-EXHS-RSCH M□-HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SECT M□-HVAC systems: exhaust air: ductwork size M□-HVAC-EXHS-SIZE M□-HVAC systems: exhaust air: ductwork size M□-HVAC-EXHS-SSCH M□-HVAC-BXHS-SSCH M□-HVAC-BXHS-SSCH M□-HVAC-BXHS-SSCH M□-HVAC-HOTA-DUCT M□-HVAC-HOTA-DUCT M□-HVAC-HOTA-BUCH M□-HVAC-HOTA-RSCH M□-HVAC-HOTA-SSCH M□-HVAC-HOTA-SSCH M□-HVAC-HOTA-SSCH M□-HVAC-Systems: hot air: ductwork size M□-HVAC-HOTA-SSCH M□-HVAC-HOTA-SSCH M□-HVAC-Systems: hot air: ductwork size M□-HVAC-HOTA-SSCH M□-HVAC-BXHS-SCH M□-HVAC-HOTA-SSCH M□-HVAC-Systems: hot air: ductwork size M□-HVAC-HOTA-SSCH M□-HVAC-HOTA-SSCH M□-HVAC-Systems: hot air: ductwork size M□-HVAC-HOTA-SSCH M□-HVAC-HOTA-SSCH M□-HVAC-Systems: hot air: ductwork size M□-HVAC-HOTA-SSCH M□-HVAC-Systems: hot air: ductwork size M□-HVAC-HOTA-SSCH M□-HVAC-HOTA-SSCH M□-HVAC-Systems: hot air: ductwork size M□-HVAC-HOTA-SSCH M□-HVAC-HOTA-SSCH M□-HVAC-Systems: hot air: ductwork size M□-HVAC-HOTA-SSCH M□-HVAC-PIPE HVAC systems: return air diffusers M□-HVAC-REFN HVAC systems: return air diffusers M□-HVAC-REFN HVAC systems: return air diffusers M□-HVAC-REFN HVAC-Systems: return HVAC-Systems: return	M□-HVAC-CLDA	HVAC systems: cold air
M□-HVAC-CLDA-RSCH M□-HVAC-CLDA-SECT HVAC systems: cold air: sketch line round or oval duct M□-HVAC-CLDA-SIZE HVAC systems: cold air: sketch line rectangular duct M□-HVAC-CLDA-SIZE HVAC systems: cold air: ductwork size M□-HVAC-DA-SSCH HVAC systems: fire, smoke, volume damper HVAC-DMPR HVAC-DMPR HVAC systems: equipment doors M□-HVAC-EFAN HVAC systems: equipment with electric fans M□-HVAC-EFAN HVAC systems: equipment with piping, ductwork and electricity M□-HVAC-EPIP HVAC systems: equipment with piping and electricity M□-HVAC-EPIP HVAC systems: exhaust air M□-HVAC-EXHS HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-QPM HVAC systems: exhaust air: equipment M□-HVAC-EXHS-GRIL HVAC systems: exhaust air: grilles M□-HVAC-EXHS-SECT HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SECT HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SIZE HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-HOTA-DUCT HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-HOTA-DUCT HVAC systems: hot air: M□-HVAC-HOTA-PSCH HVAC systems: hot air: ductwork M□-HVAC-HOTA-SECT HVAC systems: hot air: ductwork M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECT HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SECH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECH HVAC systems: return air diffusers M□-HVAC-REFN HVAC systems: return air diffusers	M□-HVAC-CLDA-DUCT	HVAC systems: cold air: ductwork
M□-HVAC-CLDA-SECT HVAC systems: cold air: section M□-HVAC-CLDA-SIZE HVAC systems: cold air: ductwork size M□-HVAC-DMPR HVAC systems: fire, smoke, volume damper M□-HVAC-DMPR HVAC systems: equipment doors M□-HVAC-DOOR HVAC systems: equipment with electric fans M□-HVAC-EFAN HVAC systems: equipment with piping, ductwork and electricity M□-HVAC-EPID HVAC systems: equipment with piping and electricity M□-HVAC-EPIP HVAC systems: equipment M□-HVAC-EXHS HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-EQPM HVAC systems: exhaust air: equipment M□-HVAC-EXHS-EQPM HVAC systems: exhaust air: spilles M□-HVAC-EXHS-GRIL HVAC systems: exhaust air: section M□-HVAC-EXHS-SSCH HVAC systems: exhaust air: section M□-HVAC-EXHS-SSCH HVAC systems: exhaust air: section M□-HVAC-EXHS-SSCH HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-HOTA-DUCT HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-HOTA-DUCT HVAC systems: hot air: ductwork M□-HVAC-HOTA-FOUCT HVAC systems: hot air: ductwork M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECT HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-CLDA-EQPM	HVAC systems: cold air: equipment
M□-HVAC-CLDA-SIZE HVAC systems: cold air: ductwork size M□-HVAC-CLDA-SSCH HVAC systems: cold air: sketch line rectangular duct M□-HVAC-DMPR HVAC systems: fire, smoke, volume damper M□-HVAC-DOOR HVAC systems: equipment doors M□-HVAC-EFAN HVAC systems: equipment with electric fans M□-HVAC-EPDU HVAC systems: equipment with piping, ductwork and electricity M□-HVAC-EPIP HVAC systems: equipment with piping and electricity M□-HVAC-EQPM HVAC systems: exhaust air M□-HVAC-EXHS HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-DUCT HVAC systems: exhaust air: equipment M□-HVAC-EXHS-GRIL HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SCH HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SIZE HVAC systems: exhaust air: ductwork size M□-HVAC-EXHS-SSCH HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-EXHS-SSCH HVAC systems: hot air M□-HVAC-HOTA-DUCT HVAC systems: hot air: ductwork M□-HVAC-HOTA-DUCT HVAC systems: hot air: ductwork M□-HVAC-HOTA-SCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SCH HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-CLDA-RSCH	HVAC systems: cold air: sketch line round or oval duct
M□-HVAC-CLDA-SSCH HVAC systems: cold air: sketch line rectangular duct M□-HVAC-DMPR HVAC systems: fire, smoke, volume damper M□-HVAC-DOOR HVAC systems: equipment doors M□-HVAC-EFAN HVAC systems: equipment with electric fans M□-HVAC-EPDU HVAC systems: equipment with piping, ductwork and electricity M□-HVAC-EPIP HVAC systems: equipment with piping and electricity M□-HVAC-EQPM HVAC systems: equipment M□-HVAC-EXHS HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-DUCT HVAC systems: exhaust air: equipment M□-HVAC-EXHS-QPM HVAC systems: exhaust air: grilles M□-HVAC-EXHS-GRIL HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-RSCH HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SECT HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-EXHS-SSCH HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-EXHS-SSCH HVAC systems: hot air M□-HVAC-HOTA-DUCT HVAC systems: hot air: ductwork M□-HVAC-HOTA-DUCT HVAC systems: hot air: equipment M□-HVAC-HOTA-EQPM HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SECH HVAC syste	M□-HVAC-CLDA-SECT	HVAC systems: cold air: section
M□-HVAC-DMPR HVAC systems: fire, smoke, volume damper M□-HVAC-DOOR HVAC systems: equipment doors M□-HVAC-EFAN HVAC systems: equipment with electric fans M□-HVAC-EPDU HVAC systems: equipment with piping, ductwork and electricity M□-HVAC-EPIP HVAC systems: equipment with piping and electricity M□-HVAC-EQPM HVAC systems: exhaust air M□-HVAC-EXHS HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-BOPM HVAC systems: exhaust air: equipment M□-HVAC-EXHS-GRIL HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-RSCH HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SIZE HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-HOTA HVAC systems: hot air M□-HVAC-HOTA HVAC systems: hot air: ductwork M□-HVAC-HOTA-SECH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SSCH HVAC systems: other diffusers M□-HVAC-DF	M□-HVAC-CLDA-SIZE	HVAC systems: cold air: ductwork size
Mo-HVAC-DOOR HVAC systems: equipment with electric fans Mo-HVAC-EFAN HVAC systems: equipment with piping, ductwork and electricity Mo-HVAC-EPDU HVAC systems: equipment with piping and electricity Mo-HVAC-EPIP HVAC systems: equipment with piping and electricity Mo-HVAC-EQPM HVAC systems: equipment Mo-HVAC-EXHS HVAC systems: exhaust air Mo-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork Mo-HVAC-EXHS-EQPM HVAC systems: exhaust air: equipment Mo-HVAC-EXHS-EQPM HVAC systems: exhaust air: grilles Mo-HVAC-EXHS-RSCH HVAC systems: exhaust air: sketch line round or oval duct Mo-HVAC-EXHS-SECT HVAC systems: exhaust air: sketch line round or oval duct Mo-HVAC-EXHS-SSCH HVAC systems: exhaust air: sketch line rectangular duct Mo-HVAC-HOTA HVAC systems: hot air Mo-HVAC-HOTA HVAC systems: hot air: equipment Mo-HVAC-HOTA-RSCH HVAC systems: hot air: sketch line round or oval duct Mo-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct Mo-HVAC-DFF HVAC systems: other diffusers Mo-HVAC-PIPE HVAC systems: return air diffusers Mo-HVAC-RETN	M□-HVAC-CLDA-SSCH	HVAC systems: cold air: sketch line rectangular duct
M□-HVAC-EFAN M□-HVAC-EPDU HVAC systems: equipment with piping, ductwork and electricity M□-HVAC-EPIP HVAC systems: equipment with piping and electricity M□-HVAC-EQPM HVAC systems: equipment M□-HVAC-EXHS HVAC systems: exhaust air M□-HVAC-EXHS HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-DUCT HVAC systems: exhaust air: equipment M□-HVAC-EXHS-GRIL HVAC systems: exhaust air: grilles M□-HVAC-EXHS-RSCH HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SECT HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-EXHS-SIZE HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-HOTA HVAC systems: hot air: ductwork M□-HVAC-HOTA-DUCT HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-EQPM HVAC systems: hot air: ductwork M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-ODFF HVAC systems: other diffusers M□-HVAC-PIPE HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-DMPR	HVAC systems: fire, smoke, volume damper
M□-HVAC-EPDU HVAC systems: equipment with piping, ductwork and electricity M□-HVAC-EPIP HVAC systems: equipment with piping and electricity M□-HVAC-EQPM HVAC systems: equipment M□-HVAC-EXHS HVAC systems: exhaust air M□-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-GRIL HVAC systems: exhaust air: equipment M□-HVAC-EXHS-GRIL HVAC systems: exhaust air: grilles M□-HVAC-EXHS-RSCH HVAC systems: exhaust air: section M□-HVAC-EXHS-SECT HVAC systems: exhaust air: section M□-HVAC-EXHS-SIZE HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SSCH HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-HOTA HVAC systems: hot air M□-HVAC-HOTA-DUCT HVAC systems: hot air: ductwork M□-HVAC-HOTA-EQPM HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SIZE HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SIZE HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SIZE HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-PIPE HVAC systems: other diffusers M□-HVAC-PIPE HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-DOOR	HVAC systems: equipment doors
M□-HVAC-EPIP HVAC systems: equipment with piping and electricity M□-HVAC-EQPM HVAC systems: equipment M□-HVAC-EXHS HVAC systems: exhaust air M□-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-EQPM HVAC systems: exhaust air: equipment M□-HVAC-EXHS-GRIL HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-RSCH HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SIZE HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-EXHS-SSCH HVAC systems: hot air M□-HVAC-HOTA HVAC systems: hot air: ductwork M□-HVAC-HOTA-DUCT HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SIZE HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SSCH HVAC systems: other diffusers M□-HVAC-PIPE HVAC systems: return air diffusers M□-HVAC-PIPE HVAC systems: return	M□-HVAC-EFAN	HVAC systems: equipment with electric fans
M□-HVAC-EQPM HVAC systems: equipment M□-HVAC-EXHS HVAC systems: exhaust air M□-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-EQPM HVAC systems: exhaust air: equipment M□-HVAC-EXHS-GRIL HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-RSCH HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SECT HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-EXHS-SIZE HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-EXHS-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA HVAC systems: hot air: ductwork M□-HVAC-HOTA-DUCT HVAC systems: hot air: ductwork M□-HVAC-HOTA-EQPM HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SIZE HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SIZE HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SIZE HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SICH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SICH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SICH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SICH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SICH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SICH HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-EPDU	HVAC systems: equipment with piping, ductwork and electricity
M□-HVAC-EXHS HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-EQPM HVAC systems: exhaust air: equipment M□-HVAC-EXHS-GRIL HVAC systems: exhaust air: grilles M□-HVAC-EXHS-RSCH HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SECT HVAC systems: exhaust air: section M□-HVAC-EXHS-SIZE HVAC systems: exhaust air: ductwork size M□-HVAC-EXHS-SSCH HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-HOTA HVAC systems: hot air M□-HVAC-HOTA-DUCT HVAC systems: hot air: ductwork M□-HVAC-HOTA-EQPM HVAC systems: hot air: equipment M□-HVAC-HOTA-SCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: section M□-HVAC-HOTA-SIZE HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SIZE HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SIZE HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SSCH HVAC systems: return air diffusers M□-HVAC-PIPE HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-EPIP	HVAC systems: equipment with piping and electricity
M□-HVAC-EXHS-DUCT HVAC systems: exhaust air: ductwork M□-HVAC-EXHS-EQPM HVAC systems: exhaust air: equipment M□-HVAC-EXHS-GRIL HVAC systems: exhaust air: grilles M□-HVAC-EXHS-RSCH HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SECT HVAC systems: exhaust air: section M□-HVAC-EXHS-SIZE HVAC systems: exhaust air: ductwork size M□-HVAC-EXHS-SSCH HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-HOTA HVAC systems: hot air M□-HVAC-HOTA-DUCT HVAC systems: hot air: ductwork M□-HVAC-HOTA-EQPM HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SIZE HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SSCH HVAC systems: other diffusers M□-HVAC-PIPE HVAC systems: return air diffusers M□-HVAC-RDFF HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-EQPM	HVAC systems: equipment
M□-HVAC-EXHS-EQPM HVAC systems: exhaust air: equipment M□-HVAC-EXHS-GRIL HVAC systems: exhaust air: grilles M□-HVAC-EXHS-RSCH HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SECT HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SIZE HVAC systems: exhaust air: ductwork size M□-HVAC-EXHS-SSCH HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-HOTA HVAC systems: hot air M□-HVAC-HOTA-DUCT HVAC systems: hot air: ductwork M□-HVAC-HOTA-EQPM HVAC systems: hot air: equipment M□-HVAC-HOTA-RSCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: section M□-HVAC-HOTA-SIZE HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SSCH HVAC systems: other diffusers M□-HVAC-ODFF HVAC systems: other diffusers M□-HVAC-RDFF HVAC systems: return air diffusers M□-HVAC-RDFF HVAC systems: return air diffusers	M□-HVAC-EXHS	HVAC systems: exhaust air
M□-HVAC-EXHS-GRIL HVAC systems: exhaust air: grilles M□-HVAC-EXHS-RSCH HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SECT HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SIZE HVAC systems: exhaust air: ductwork size M□-HVAC-EXHS-SSCH HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-HOTA HVAC systems: hot air M□-HVAC-HOTA-DUCT HVAC systems: hot air: ductwork M□-HVAC-HOTA-EQPM HVAC systems: hot air: equipment M□-HVAC-HOTA-RSCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SIZE HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-ODFF HVAC systems: other diffusers M□-HVAC-PIPE HVAC systems: piping M□-HVAC-RETN HVAC systems: return	M□-HVAC-EXHS-DUCT	HVAC systems: exhaust air: ductwork
M□-HVAC-EXHS-RSCH HVAC systems: exhaust air: sketch line round or oval duct M□-HVAC-EXHS-SECT HVAC systems: exhaust air: section M□-HVAC-EXHS-SIZE HVAC systems: exhaust air: ductwork size M□-HVAC-EXHS-SSCH HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-HOTA HVAC systems: hot air M□-HVAC-HOTA-DUCT HVAC systems: hot air: ductwork M□-HVAC-HOTA-EQPM HVAC systems: hot air: equipment M□-HVAC-HOTA-RSCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: section M□-HVAC-HOTA-SIZE HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SSCH HVAC systems: other diffusers M□-HVAC-PIPE HVAC systems: piping M□-HVAC-RDFF HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-EXHS-EQPM	HVAC systems: exhaust air: equipment
M□-HVAC-EXHS-SECT HVAC systems: exhaust air: section M□-HVAC-EXHS-SIZE HVAC systems: exhaust air: ductwork size M□-HVAC-EXHS-SSCH HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-HOTA HVAC systems: hot air M□-HVAC-HOTA-DUCT HVAC systems: hot air: ductwork M□-HVAC-HOTA-EQPM HVAC systems: hot air: equipment M□-HVAC-HOTA-RSCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SIZE HVAC systems: hot air: sketch line rectangular duct M□-HVAC-HOTA-SSCH HVAC systems: other diffusers M□-HVAC-ODFF HVAC systems: piping M□-HVAC-RDFF HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-EXHS-GRIL	HVAC systems: exhaust air: grilles
M□-HVAC-EXHS-SIZE M□-HVAC-EXHS-SSCH HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-HOTA HVAC systems: hot air: M□-HVAC-HOTA-DUCT HVAC systems: hot air: ductwork M□-HVAC-HOTA-EQPM HVAC systems: hot air: equipment M□-HVAC-HOTA-RSCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: section M□-HVAC-HOTA-SIZE HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-ODFF HVAC systems: other diffusers M□-HVAC-PIPE HVAC systems: piping M□-HVAC-RDFF HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-EXHS-RSCH	HVAC systems: exhaust air: sketch line round or oval duct
M□-HVAC-EXHS-SSCH HVAC systems: exhaust air: sketch line rectangular duct M□-HVAC-HOTA HVAC systems: hot air: M□-HVAC-HOTA-DUCT HVAC systems: hot air: ductwork M□-HVAC-HOTA-EQPM HVAC systems: hot air: equipment M□-HVAC-HOTA-RSCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: section M□-HVAC-HOTA-SIZE HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-ODFF HVAC systems: other diffusers M□-HVAC-PIPE HVAC systems: piping M□-HVAC-RDFF HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-EXHS-SECT	HVAC systems: exhaust air: section
M□-HVAC-HOTA HVAC systems: hot air M□-HVAC-HOTA-DUCT HVAC systems: hot air: ductwork M□-HVAC-HOTA-EQPM HVAC systems: hot air: equipment M□-HVAC-HOTA-RSCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: section M□-HVAC-HOTA-SIZE HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-ODFF HVAC systems: other diffusers M□-HVAC-PIPE HVAC systems: piping M□-HVAC-RDFF HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-EXHS-SIZE	HVAC systems: exhaust air: ductwork size
M□-HVAC-HOTA-DUCT HVAC systems: hot air: ductwork M□-HVAC-HOTA-EQPM HVAC systems: hot air: equipment M□-HVAC-HOTA-RSCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: section M□-HVAC-HOTA-SIZE HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-ODFF HVAC systems: other diffusers M□-HVAC-PIPE HVAC systems: piping M□-HVAC-RDFF HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-EXHS-SSCH	HVAC systems: exhaust air: sketch line rectangular duct
M□-HVAC-HOTA-EQPM HVAC systems: hot air: equipment M□-HVAC-HOTA-RSCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: section M□-HVAC-HOTA-SIZE HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-ODFF HVAC systems: other diffusers M□-HVAC-PIPE HVAC systems: piping M□-HVAC-RDFF HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-HOTA	HVAC systems: hot air
M□-HVAC-HOTA-RSCH HVAC systems: hot air: sketch line round or oval duct M□-HVAC-HOTA-SECT HVAC systems: hot air: section M□-HVAC-HOTA-SIZE HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-ODFF HVAC systems: other diffusers M□-HVAC-PIPE HVAC systems: piping M□-HVAC-RDFF HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-HOTA-DUCT	HVAC systems: hot air: ductwork
M□-HVAC-HOTA-SECT HVAC systems: hot air: section M□-HVAC-HOTA-SIZE HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-ODFF HVAC systems: other diffusers M□-HVAC-PIPE HVAC systems: piping M□-HVAC-RDFF HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-HOTA-EQPM	HVAC systems: hot air: equipment
M□-HVAC-HOTA-SIZE HVAC systems: hot air: ductwork size M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-ODFF HVAC systems: other diffusers M□-HVAC-PIPE HVAC systems: piping M□-HVAC-RDFF HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-HOTA-RSCH	HVAC systems: hot air: sketch line round or oval duct
M□-HVAC-HOTA-SSCH HVAC systems: hot air: sketch line rectangular duct M□-HVAC-ODFF HVAC systems: other diffusers M□-HVAC-PIPE HVAC systems: piping M□-HVAC-RDFF HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-HOTA-SECT	HVAC systems: hot air: section
M□-HVAC-ODFF HVAC systems: other diffusers M□-HVAC-PIPE HVAC systems: piping M□-HVAC-RDFF HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-HOTA-SIZE	HVAC systems: hot air: ductwork size
M□-HVAC-PIPE HVAC systems: piping M□-HVAC-RDFF HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-HOTA-SSCH	HVAC systems: hot air: sketch line rectangular duct
M□-HVAC-RDFF HVAC systems: return air diffusers M□-HVAC-RETN HVAC systems: return	M□-HVAC-ODFF	HVAC systems: other diffusers
M□-HVAC-RETN HVAC systems: return	M□-HVAC-PIPE	HVAC systems: piping
	M□-HVAC-RDFF	HVAC systems: return air diffusers
M□-HVAC-RETN-CNTR HVAC systems: return: center	M□-HVAC-RETN	HVAC systems: return
	M□-HVAC-RETN-CNTR	HVAC systems: return: center

Mn-HVAC-RETN-EQPM	HVAC systems: return: equipment
M□-HVAC-RETN-RSCH	HVAC systems: return: sketch line round or oval duct
M□-HVAC-RETN-SECT	HVAC systems: return: section
M□-HVAC-RETN-SIZE	HVAC systems: return: ductwork size
M□-HVAC-RETN-SSCH	HVAC systems: return: sketch line rectangular duct
M□-HVAC-SDFF	HVAC systems: supply diffusers
M□-HVAC-SPLY	HVAC systems: supply
M□-HVAC-SPLY-CNTR	HVAC systems: supply: center
M□-HVAC-SPLY-EQPM	HVAC systems: supply: equipment
M□-HVAC-SPLY-RSCH	HVAC systems: supply: sketch line round or oval duct
M□-HVAC-SPLY-SECT	HVAC systems: supply: section
M□-HVAC-SPLY-SIZE	HVAC systems: supply: ductwork size
M□-HVAC-SPLY-SSCH	HVAC systems: supply: sketch line rectangular duct
M□-HWTR	Hot water heating system
M□-HWTR-EQPM	Hot water heating system: equipment
M□-HWTR-PIPE	Hot water heating system: piping
M□-HWTR-RETN	Hot water heating system: return
M□-HWTR-RETN-PIPE	Hot water heating system: return: piping
M□-HWTR-RETN: SKCH	Hot water heating system: return: sketch
M□-HWTR-SPLY	Hot water heating system: supply
M□-HWTR-SPLY-PIPE	Hot water heating system: supply: piping
M□-HWTR-SPLY-SKCH	Hot water heating system: supply: sketch
M□-LGAS	Laboratory gas systems
M□-LGAS-EQPM	Laboratory gas systems: equipment
M□-LGAS-PIPE	Laboratory gas systems: piping
M□-MACH	Machine shop
M□-MDGS	Medical gas systems
M□-MDGS-CAIR	Medical gas systems: compressed air
M□-MDGS-EQPM	Medical gas systems: equipment
M□-MDGS-NITG	Medical gas systems: nitrogen
M□-MDGS-NOXG	Medical gas systems: nitrous oxide
M□-MDGS-OXYG	Medical gas systems: pure O2
M□-MDGS-PIPE	Medical gas systems: piping
M□-MDGS-SAIR	Medical gas systems: scavenge air
M□-MDGS-VACU	Medical gas systems: vacuum
M□-MKUP	Make-up air systems
M□-MKUP-CDFF	Make-up air systems: ceiling diffusers
M□-MKUP-DUCT	Make-up air systems: ductwork
M□-MKUP-EQPM	Make-up air systems: equipment
M _□ -MPIP	Miscellaneous piping systems

Mo-NGAS Natural gas systems Mo-NGAS-EQPM Natural gas systems: equipment Mo-NGAS-PIPE Natural gas systems: equipment Mo-NGAS-PIPE Natural gas systems: equipment Mo-PROC Process systems Mo-PROC-EQPM Process systems: equipment Mo-PROC-PIPE Process systems: piping Mo-RAIR Relief air systems Mo-RCOV Energy recovery systems: equipment Mo-RCOV-EQPM Energy recovery systems: equipment Mo-RCOV-PIPE Energy recovery systems: piping Mo-REFG Refrigeration systems Mo-REFG-DISC Refrigeration systems: discharge Mo-REFG-PIPE Refrigeration systems: equipment Mo-REFG-PIPE Refrigeration systems: return Mo-REFG-RETN Refrigeration systems: return Mo-REFG-SPLY Refrigeration systems: supply Mo-ROOF Roof Mo-ROOF-PENE Roof: penetrations Mo-SMOK-DUCT Smoke extraction systems: ductwork Mo-SMOK-DUCT Smoke extraction systems: ductwork Mo-SMOK-DUCT Smoke extraction systems: equipment Mo-SPCL Special systems Mo-SPCL-PIPE Special systems: equipment Mo-SPCL-PIPE Special systems: equipment Mo-STEM-BLBD Steam system: boiler blow down piping Mo-STEM-BLBD Steam system: boiler blow down piping Mo-STEM-BLBD-PIPE Steam system: condensate piping Mo-STEM-BLBD-PIPE Steam system: condensate piping Mo-STEM-BUPP-SKCH Steam system: indip-pressure piping Mo-STEM-HPIP-SKCH Steam system: low-pressure piping Mo-STEM-PIP-SKCH Steam system: medium-pressure piping Mo-STEM-BLEM-PIP-SKCH Steam system: medium-pressure piping	M□-MPIP-PIPE	Miscellaneous piping systems: piping
Mo-PROC Natural gas systems: piping Mo-PROC Process systems Mo-PROC-EQPM Process systems: equipment Mo-PROC-PIPE Process systems: equipment Mo-RAIR Relief air systems Mo-RCOV Energy recovery systems Mo-RCOV-EQPM Energy recovery systems: equipment Mo-RCOV-PIPE Energy recovery systems: piping Mo-REFG Refrigeration systems Mo-REFG DISC Refrigeration systems: discharge Mo-REFG-BOPM Refrigeration systems: equipment Mo-REFG-EQPM Refrigeration systems: equipment Mo-REFG-SELY Refrigeration systems: return Mo-REFG-SPLY Refrigeration systems: supply Mo-REFG-SPLY Refrigeration systems: supply Mo-ROF Roof Mo-ROF-PENE Roof: penetrations Mo-ROF-PENE Roof: penetrations Mo-SMOK Smoke extraction systems: ceiling diffusers Mo-SMOK-DUCT Smoke extraction systems: ductwork Mo-SPCL-EQPM Smoke extraction systems: equipment Mo-SPCL-EQPM Special systems: equipment Mo-S	M□-NGAS	Natural gas systems
Mo-PROC Process systems Mo-PROC-EQPM Process systems: equipment Mo-PROC-PIPE Process systems: piping Mo-RAIR Relief air systems Mo-RCOV Energy recovery systems Mo-RCOV-EQPM Energy recovery systems: equipment Mo-RCOV-PIPE Energy recovery systems: equipment Mo-REFG Refrigeration systems: piping Mo-REFG-DISC Refrigeration systems: discharge Mo-REFG-EQPM Refrigeration systems: equipment Mo-REFG-PIPE Refrigeration systems: epiping Mo-REFG-RETN Refrigeration systems: epiping Mo-REFG-SPLY Refrigeration systems: supply Mo-ROF Roof Mo-ROF-PENE Roof: penetrations Mo-SMOK Smoke extraction systems: celling diffusers Mo-SMOK-CDFF Smoke extraction systems: ductwork Mo-SMOK-QPM Smoke extraction systems: equipment Mo-SPCL Special systems: equipment Mo-SPCL Special systems: equipment Mo-SPCL-PIPE Special systems: equipment Mo-SPCL-PIPE Special systems: equipment Mo-SPCL-PIPE Special systems: equipment Mo-SPCL-PIPE Special systems: equipment Mo-SPCH-PIPE Special systems: condensate piping Mo-STEM-CNDS Steam system: boiler blow down piping Mo-STEM-CNDS-SKCH Steam system: condensate piping: sketch Mo-STEM-HPIP Steam system: equipment Mo-STEM-HPIP Steam system: equipment Mo-STEM-HPIP Steam system: equipment Mo-STEM-HPIP Steam system: low-pressure piping Mo-STEM-LPIP Steam system: low-pressure piping: sketch Mo-STEM-HPIP Steam system: low-pressure piping Mo-STEM-LPIP-SKCH Steam system: low-pressure piping sketch Mo-STEM-HPIP Steam system: low-pressure piping	M□-NGAS-EQPM	Natural gas systems: equipment
Mo-PROC-EQPM Process systems: equipment Mo-PROC-PIPE Process systems piping Mo-RAIR Relief air systems Mo-RCOV Energy recovery systems Mo-RCOV-EQPM Energy recovery systems equipment Mo-RCOV-PIPE Energy recovery systems: equipment Mo-REFG Refrigeration systems: discharge Mo-REFG-DISC Refrigeration systems: equipment Mo-REFG-PIPE Refrigeration systems: equipment Mo-REFG-PIPE Refrigeration systems: equipment Mo-REFG-PIPE Refrigeration systems: equipment Mo-REFG-PIPE Refrigeration systems: return Mo-REFG-SPLY Refrigeration systems: supply Mo-ROOF Roof Mo-ROOF Roof Mo-ROOF-PENE Roof: penetrations Mo-SMOK Smoke extraction systems Mo-SMOK-DUCT Smoke extraction systems: ductwork Mo-SMOK-DUCT Smoke extraction systems: equipment Mo-SPCL-PIPE Special systems Mo-SPCL-PIPE Special systems Mo-SPCL-PIPE Steam system Mo-STEM-BLBD Steam system: boiler blow down piping Mo-STEM-CNDS Steam system: condensate piping Mo-STEM-CNDS-SKCH Steam system: equipment Mo-STEM-HPIP-SKCH Steam system: equipment Mo-STEM-HPIP Steam system: equipment Mo-STEM-HPIP-SKCH Steam system: piping Mo-STEM-LPIP Steam system: piping Mo-STEM-LPIP Steam system: low-pressure piping: sketch Mo-STEM-LPIP Steam system: low-pressure piping: sketch Mo-STEM-LPIP-SKCH Steam system: medium-pressure piping	M□-NGAS-PIPE	Natural gas systems: piping
M□-PROC-PIPE Process systems: piping M□-RAIR Relief air systems M□-RCOV Energy recovery systems M□-RCOV-EQPM Energy recovery systems: equipment M□-RCOV-PIPE Energy recovery systems: piping M□-REFG Refrigeration systems M□-REFG-DISC Refrigeration systems: equipment M□-REFG-EQPM Refrigeration systems: equipment M□-REFG-PIPE Refrigeration systems: piping M□-REFG-RETN Refrigeration systems: return M□-REFG-SPLY Refrigeration systems: supply M□-ROF Roof M□-ROOF Roof M□-ROOF-PENE Roof: penetrations M□-SMOK Smoke extraction systems: ceiling diffusers M□-SMOK-DUCT Smoke extraction systems: ductwork M□-SMOK-DUCT Smoke extraction systems: equipment M□-SPCL Special systems M□-SPCL Special systems M□-SPCL Special systems M□-SPCL-PIPE Special systems: equipment M□-SPCL-PIPE Special systems: piping M□-STEM-BLBD Steam system: boiler blow down piping: piping M□-STEM-CNDS Steam system: condensate piping M□-STEM-CNDS-SKCH Steam system: equipment M□-STEM-CNDS-SKCH Steam system: equipment M□-STEM-EQPM Steam system: condensate piping M□-STEM-HPIP-SKCH Steam system: high-pressure piping: sketch M□-STEM-HPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch	M□-PROC	Process systems
Mo-RAIR Relief air systems Mo-RCOV Energy recovery systems Mo-RCOV-EQPM Energy recovery systems: equipment Mo-RCOV-PIPE Energy recovery systems: piping Mo-REFG Refrigeration systems Mo-REFG-DISC Refrigeration systems: discharge Mo-REFG-PIPE Refrigeration systems: equipment Mo-REFG-PIPE Refrigeration systems: piping Mo-REFG-RETN Refrigeration systems: return Mo-REFG-SPLY Refrigeration systems: supply Mo-ROF Roof Mo-ROF Roof Mo-ROF-PENE Roof: penetrations Mo-SMOK Smoke extraction systems: equipment Mo-SMOK-DUCT Smoke extraction systems: ductwork Mo-SMOK-EQPM Smoke extraction systems: equipment Mo-SPCL Special systems Mo-SPCL Special systems: equipment Mo-SPCL Special systems: equipment Mo-SPEM-SPEM Steam system Mo-STEM Steam system: boiler blow down piping: piping Mo-STEM-BLBD-PIPE Steam system: boiler blow down piping: piping Mo-STEM-CNDS-SKCH Steam system: condensate piping: sketch	M□-PROC-EQPM	Process systems: equipment
Mo-RCOV Energy recovery systems Mo-RCOV-EQPM Energy recovery systems: equipment Mo-RCOV-PIPE Energy recovery systems: piping Mo-REFG Refrigeration systems Mo-REFG-DISC Refrigeration systems: equipment Mo-REFG-PIPE Refrigeration systems: equipment Mo-REFG-PIPE Refrigeration systems: return Mo-REFG-SPLY Refrigeration systems: supply Mo-ROF-PENE Roof Mo-ROF-PENE Roof-penetrations Mo-SMOK-CDFF Smoke extraction systems: ceiling diffusers Mo-SMOK-DUCT Smoke extraction systems: equipment Mo-SPCL Special systems: equipment Mo-SPCL Special systems: equipment Mo-SPCL-EQPM Special systems: equipment Mo-SPCL-PIPE Special systems: piping Mo-STEM-BLBD-PIPE Steam system: boiler blow down piping Mo-STEM-CNDS Steam system: condensate piping Mo-STEM-CNDS-SKCH Steam system: equipment Mo-STEM-CNDS-SKCH Steam system: equipment Mo-STEM-BIPP-SKCH Steam system: piping Mo-STEM-HPIP-SKCH Steam system: high-pressure piping: sketch Mo-STEM-LPIP-SKCH Steam system: low-pressure piping	M□-PROC-PIPE	Process systems: piping
M□-RCOV-EQPM Energy recovery systems: equipment M□-RCOV-PIPE Energy recovery systems: piping M□-REFG Refrigeration systems M□-REFG-DISC Refrigeration systems: discharge M□-REFG-DISC Refrigeration systems: equipment M□-REFG-PIPE Refrigeration systems: piping M□-REFG-RETN Refrigeration systems: return M□-REFG-SPLY Refrigeration systems: supply M□-ROOF Roof M□-ROOF-PENE Roof: penetrations M□-SMOK Smoke extraction systems M□-SMOK-DUCT Smoke extraction systems: ductwork M□-SPCL Special systems: equipment M□-SPCL Special systems: equipment M□-SPCL-PIPE Special systems: piping M□-STEM-BLBD Steam system: boiler blow down piping: piping M□-STEM-CNDS Steam system: condensate piping M□-STEM-CNDS-SKCH Steam system: condensate piping: sketch M□-STEM-PIP-SKCH Steam system: low-pressure piping M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-LPIP-SKCH Steam system: medium-pressure piping	M□-RAIR	Relief air systems
Mo-RCOV-PIPE Energy recovery systems: piping Mo-REFG Refrigeration systems Mo-REFG-DISC Refrigeration systems: discharge Mo-REFG-EQPM Refrigeration systems: equipment Mo-REFG-PIPE Refrigeration systems: piping Mo-REFG-RETN Refrigeration systems: return Mo-REFG-SPLY Refrigeration systems: supply Mo-ROOF Roof Mo-ROOF-PENE Roof: penetrations Mo-SMOK Smoke extraction systems: ceiling diffusers Mo-SMOK-CDFF Smoke extraction systems: ductwork Mo-SMOK-DUCT Smoke extraction systems: ductwork Mo-SMOK-EQPM Smoke extraction systems: equipment Mo-SPCL Special systems Mo-SPCL Special systems: equipment Mo-SPCL Special systems: equipment Mo-STEM Mo-STEM Steam system: boiler blow down piping Mo-STEM-BLBD Steam system: boiler blow down piping: piping Mo-STEM-CNDS Steam system: condensate piping: sketch Mo-STEM-CNDS-SKCH Steam system: condensate piping: sketch Mo-STEM-LPIP Steam system: high-pressure piping Mo-STEM-HPIP-SKCH Steam	M□-RCOV	Energy recovery systems
Mo-REFG Refrigeration systems Mo-REFG-DISC Refrigeration systems: discharge Mo-REFG-EQPM Refrigeration systems: equipment Mo-REFG-PIPE Refrigeration systems: return Mo-REFG-RETN Refrigeration systems: supply Mo-REFG-SPLY Refrigeration systems: supply Mo-ROOF Roof Mo-ROOF-PENE Roof: penetrations Mo-SMOK Smoke extraction systems: ceiling diffusers Mo-SMOK-CDFF Smoke extraction systems: ductwork Mo-SMOK-DUCT Smoke extraction systems: ductwork Mo-SMOK-EQPM Smoke extraction systems: equipment Mo-SPCL Special systems Mo-SPCL Special systems: equipment Mo-SPCL-EQPM Special systems: equipment Mo-STEM Steam system: boiler blow down piping Mo-STEM-BLBD Steam system: condensate piping Mo-STEM-CNDS Steam system: condensate piping: sketch Mo-STEM-EQPM Steam system: equipment Mo-STEM-EQPM Steam system: equipment Mo-STEM-HPIP Steam system: high-pressure piping Mo-STEM-HPIP-SKCH Steam system: lo	M□-RCOV-EQPM	Energy recovery systems: equipment
Mo-REFG-DISC Refrigeration systems: discharge Mo-REFG-EQPM Refrigeration systems: equipment Mo-REFG-PIPE Refrigeration systems: piping Mo-REFG-RETN Refrigeration systems: return Mo-REFG-SPLY Refrigeration systems: supply Mo-ROOF Roof Mo-ROOF-PENE Roof: penetrations Mo-SMOK Smoke extraction systems Mo-SMOK-CDFF Smoke extraction systems: ceiling diffusers Mo-SMOK-DUCT Smoke extraction systems: ductwork Mo-SMOK-EQPM Smoke extraction systems: equipment Mo-SPCL Special systems Mo-SPCL Special systems: equipment Mo-SPCL-EQPM Special systems: equipment Mo-SPCL-PIPE Special systems: boiler blow down piping Mo-STEM-BLBD Steam system: boiler blow down piping Mo-STEM-BLBD-PIPE Steam system: boiler blow down piping Mo-STEM-CNDS Steam system: condensate piping Mo-STEM-CNDS-SKCH Steam system: condensate piping: sketch Mo-STEM-HPIP Steam system: high-pressure piping Mo-STEM-HPIP-SKCH Steam system: low-pressure piping: sketch <t< td=""><td>M□-RCOV-PIPE</td><td>Energy recovery systems: piping</td></t<>	M□-RCOV-PIPE	Energy recovery systems: piping
M□-REFG-EQPM Refrigeration systems: equipment M□-REFG-PIPE Refrigeration systems: piping M□-REFG-RETN Refrigeration systems: return M□-REFG-SPLY Refrigeration systems: supply M□-ROOF Roof M□-ROOF-PENE Roof: penetrations M□-SMOK Smoke extraction systems M□-SMOK-CDFF Smoke extraction systems: ceiling diffusers M□-SMOK-DUCT Smoke extraction systems: ductwork M□-SMOK-EQPM Smoke extraction systems: equipment M□-SPCL Special systems M□-SPCL Special systems: equipment M□-SPCL-EQPM Special systems: equipment M□-STEM Steam system Steam system boiler blow down piping M□-STEM-BLBD Steam system: boiler blow down piping M□-STEM-BLBD-PIPE Steam system: condensate piping M□-STEM-CNDS Steam system: condensate piping M□-STEM-HPIP Steam system: equipment M□-STEM-HPIP Steam system: high-pressure piping M□-STEM-HPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-LPIP-SKCH Steam system: low-p	M□-REFG	Refrigeration systems
Mo-REFG-PIPE Refrigeration systems: piping Mo-REFG-RETN Refrigeration systems: return Mo-REFG-SPLY Refrigeration systems: supply Mo-ROOF Roof Mo-ROOF Roof Mo-SMOK Smoke extraction systems Mo-SMOK-CDFF Smoke extraction systems: ceiling diffusers Mo-SMOK-DUCT Smoke extraction systems: ductwork Mo-SMOK-EQPM Smoke extraction systems: equipment Mo-SPCL Special systems Mo-SPCL EQPM Special systems: equipment Mo-SPCL-PIPE Special systems: piping Mo-STEM Steam system Mo-STEM Steam system Mo-STEM-BLBD Steam system: boiler blow down piping Mo-STEM-CNDS Steam system: condensate piping Mo-STEM-CNDS-SKCH Steam system: condensate piping: sketch Mo-STEM-HPIP Steam system: equipment Mo-STEM-HPIP Steam system: high-pressure piping Mo-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch Mo-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch Mo-STEM-MPIP Steam system: low-pressure piping </td <td>M□-REFG-DISC</td> <td>Refrigeration systems: discharge</td>	M□-REFG-DISC	Refrigeration systems: discharge
Mo-REFG-RETN Refrigeration systems: return Mo-REFG-SPLY Refrigeration systems: supply Mo-ROOF Roof Mo-ROOF-PENE Roof: penetrations Mo-SMOK Smoke extraction systems Mo-SMOK-CDFF Smoke extraction systems: ceiling diffusers Mo-SMOK-DUCT Smoke extraction systems: ductwork Mo-SMOK-EQPM Smoke extraction systems: equipment Mo-SPCL Special systems Mo-SPCL EQPM Special systems: equipment Mo-SPCL-PIPE Special systems: piping Mo-STEM Steam system: boiler blow down piping Mo-STEM-BLBD Steam system: boiler blow down piping: piping Mo-STEM-CNDS Steam system: condensate piping Mo-STEM-CNDS-SKCH Steam system: condensate piping: sketch Mo-STEM-HPIP Steam system: equipment Mo-STEM-HPIP Steam system: high-pressure piping Mo-STEM-LPIP Steam system: low-pressure piping: sketch Mo-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch Mo-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch Mo-STEM-MPIP Steam system: low-pressure piping </td <td>M□-REFG-EQPM</td> <td>Refrigeration systems: equipment</td>	M□-REFG-EQPM	Refrigeration systems: equipment
M□-REFG-SPLY Refrigeration systems: supply M□-ROOF Roof M□-ROOF-PENE Roof: penetrations M□-SMOK Smoke extraction systems M□-SMOK-CDFF Smoke extraction systems: ceiling diffusers M□-SMOK-DUCT Smoke extraction systems: ductwork M□-SMOK-EQPM Smoke extraction systems: equipment M□-SPCL Special systems M□-SPCL Special systems: equipment M□-SPCL-EQPM M□-SPCL-PIPE Special systems: piping M□-STEM Steam system: boiler blow down piping M□-STEM-BLBD Steam system: boiler blow down piping: piping M□-STEM-CNDS Steam system: condensate piping M□-STEM-CNDS-SKCH Steam system: condensate piping: sketch M□-STEM-EQPM Steam system: equipment M□-STEM-HPIP Steam system: high-pressure piping M□-STEM-HPIP-SKCH Steam system: high-pressure piping: sketch M□-STEM-LPIP Steam system: low-pressure piping: sketch M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-MPIP Steam system: medium-pressure piping	M□-REFG-PIPE	Refrigeration systems: piping
M□-ROOF Roof M□-SMOK Smoke extraction systems M□-SMOK-CDFF Smoke extraction systems: ceiling diffusers M□-SMOK-DUCT Smoke extraction systems: ductwork M□-SMOK-EQPM Smoke extraction systems: equipment M□-SPCL Special systems M□-SPCL-EQPM Special systems: equipment M□-SPCL-PIPE Special systems: piping M□-STEM Steam system M□-STEM-BLBD Steam system: boiler blow down piping M□-STEM-BLBD-PIPE Steam system: boiler blow down piping: piping M□-STEM-CNDS Steam system: condensate piping M□-STEM-CNDS-SKCH Steam system: condensate piping: sketch M□-STEM-EQPM Steam system: equipment M□-STEM-HPIP Steam system: high-pressure piping M□-STEM-HPIP-SKCH Steam system: high-pressure piping: sketch M□-STEM-LPIP Steam system: low-pressure piping: sketch M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch	M□-REFG-RETN	Refrigeration systems: return
M□-ROOF-PENE Roof: penetrations M□-SMOK Smoke extraction systems M□-SMOK-CDFF Smoke extraction systems: ceiling diffusers M□-SMOK-DUCT Smoke extraction systems: ductwork M□-SMOK-EQPM Smoke extraction systems: equipment M□-SPCL Special systems M□-SPCL = QPM Special systems: equipment M□-SPCL-PIPE Special systems: piping M□-STEM Steam system M□-STEM-BLBD Steam system: boiler blow down piping M□-STEM-BLBD-PIPE Steam system: boiler blow down piping: piping M□-STEM-CNDS Steam system: condensate piping M□-STEM-CNDS-SKCH Steam system: condensate piping: sketch M□-STEM-EQPM Steam system: equipment M□-STEM-HPIP Steam system: high-pressure piping M□-STEM-HPIP-SKCH Steam system: high-pressure piping: sketch M□-STEM-LPIP Steam system: low-pressure piping: sketch M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-MPIP Steam system: low-pressure piping: sketch	M□-REFG-SPLY	Refrigeration systems: supply
M□-SMOK Smoke extraction systems: ceiling diffusers M□-SMOK-CDFF Smoke extraction systems: ceiling diffusers M□-SMOK-DUCT Smoke extraction systems: ductwork M□-SMOK-EQPM Smoke extraction systems: equipment M□-SPCL Special systems M□-SPCL = QPM Special systems: equipment M□-SPCL-PIPE Special systems: piping M□-STEM Steam system M□-STEM-BLBD Steam system: boiler blow down piping M□-STEM-BLBD-PIPE Steam system: condensate piping M□-STEM-CNDS Steam system: condensate piping M□-STEM-CNDS-SKCH Steam system: condensate piping: sketch M□-STEM-EQPM Steam system: equipment M□-STEM-HPIP Steam system: high-pressure piping M□-STEM-HPIP-SKCH Steam system: low-pressure piping M□-STEM-LPIP Steam system: low-pressure piping: sketch M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-MPIP Steam system: low-pressure piping	M□-ROOF	Roof
M□-SMOK-CDFF Smoke extraction systems: ceiling diffusers M□-SMOK-DUCT Smoke extraction systems: ductwork M□-SMOK-EQPM Smoke extraction systems: equipment M□-SPCL Special systems M□-SPCL-EQPM Special systems: equipment M□-SPCL-PIPE Special systems: piping M□-STEM Steam system M□-STEM-BLBD Steam system: boiler blow down piping M□-STEM-BLBD-PIPE Steam system: boiler blow down piping: piping M□-STEM-CNDS Steam system: condensate piping M□-STEM-CNDS-SKCH Steam system: condensate piping: sketch M□-STEM-BQPM Steam system: equipment M□-STEM-HPIP Steam system: high-pressure piping M□-STEM-HPIP-SKCH Steam system: high-pressure piping: sketch M□-STEM-LPIP Steam system: low-pressure piping: sketch M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-MPIP Steam system: medium-pressure piping	M□-ROOF-PENE	Roof: penetrations
M□-SMOK-DUCT Smoke extraction systems: ductwork M□-SMOK-EQPM Smoke extraction systems: equipment M□-SPCL Special systems M□-SPCL-EQPM Special systems: equipment M□-SPCL-PIPE Special systems: piping M□-STEM Steam system M□-STEM-BLBD Steam system: boiler blow down piping M□-STEM-BLBD-PIPE Steam system: boiler blow down piping: piping M□-STEM-CNDS Steam system: condensate piping M□-STEM-CNDS-SKCH Steam system: condensate piping: sketch M□-STEM-EQPM Steam system: equipment M□-STEM-HPIP Steam system: high-pressure piping M□-STEM-HPIP-SKCH Steam system: high-pressure piping M□-STEM-HPIP-SKCH Steam system: low-pressure piping M□-STEM-LPIP Steam system: low-pressure piping: sketch M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch	M□-SMOK	Smoke extraction systems
M□-SMOK-EQPM Smoke extraction systems: equipment M□-SPCL Special systems M□-SPCL-EQPM Special systems: equipment M□-SPCL-PIPE Special systems: piping M□-STEM Steam system M□-STEM-BLBD Steam system: boiler blow down piping M□-STEM-BLBD-PIPE Steam system: boiler blow down piping: piping M□-STEM-CNDS Steam system: condensate piping M□-STEM-CNDS-SKCH Steam system: condensate piping: sketch M□-STEM-EQPM Steam system: equipment M□-STEM-HPIP Steam system: high-pressure piping M□-STEM-HPIP-SKCH Steam system: high-pressure piping: sketch M□-STEM-LPIP Steam system: low-pressure piping M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-MPIP Steam system: low-pressure piping: sketch M□-STEM-MPIP Steam system: medium-pressure piping	M□-SMOK-CDFF	Smoke extraction systems: ceiling diffusers
M□-SPCL Special systems M□-SPCL-EQPM Special systems: equipment M□-SPCL-PIPE Special systems: piping M□-STEM Steam system M□-STEM-BLBD Steam system: boiler blow down piping M□-STEM-BLBD-PIPE Steam system: boiler blow down piping: piping M□-STEM-CNDS Steam system: condensate piping M□-STEM-CNDS-SKCH Steam system: condensate piping: sketch M□-STEM-EQPM Steam system: equipment M□-STEM-HPIP Steam system: high-pressure piping M□-STEM-HPIP-SKCH Steam system: high-pressure piping: sketch M□-STEM-LPIP Steam system: low-pressure piping: sketch M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-MPIP Steam system: low-pressure piping: sketch	M□-SMOK-DUCT	Smoke extraction systems: ductwork
M□-SPCL-EQPM Special systems: equipment M□-SPCL-PIPE Special systems: piping M□-STEM Steam system M□-STEM-BLBD Steam system: boiler blow down piping M□-STEM-BLBD-PIPE Steam system: boiler blow down piping: piping M□-STEM-CNDS Steam system: condensate piping M□-STEM-CNDS-SKCH Steam system: condensate piping: sketch M□-STEM-EQPM Steam system: equipment M□-STEM-HPIP Steam system: high-pressure piping M□-STEM-HPIP-SKCH Steam system: low-pressure piping M□-STEM-LPIP Steam system: low-pressure piping: sketch M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-MPIP Steam system: medium-pressure piping	M□-SMOK-EQPM	Smoke extraction systems: equipment
Mo-SPCL-PIPE Special systems: piping Mo-STEM Steam system Mo-STEM-BLBD Steam system: boiler blow down piping Mo-STEM-BLBD-PIPE Steam system: boiler blow down piping: piping Mo-STEM-CNDS Steam system: condensate piping Mo-STEM-CNDS-SKCH Steam system: condensate piping: sketch Mo-STEM-EQPM Steam system: equipment Mo-STEM-HPIP Steam system: high-pressure piping Mo-STEM-HPIP-SKCH Steam system: low-pressure piping Mo-STEM-LPIP Steam system: low-pressure piping: sketch Mo-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch Mo-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch Mo-STEM-MPIP Steam system: medium-pressure piping	M _□ -SPCL	Special systems
M□-STEM Steam system M□-STEM-BLBD Steam system: boiler blow down piping M□-STEM-BLBD-PIPE Steam system: boiler blow down piping: piping M□-STEM-CNDS Steam system: condensate piping M□-STEM-CNDS-SKCH Steam system: condensate piping: sketch M□-STEM-EQPM Steam system: equipment M□-STEM-HPIP Steam system: high-pressure piping M□-STEM-HPIP-SKCH Steam system: high-pressure piping: sketch M□-STEM-LPIP Steam system: low-pressure piping M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-MPIP Steam system: medium-pressure piping	M□-SPCL-EQPM	Special systems: equipment
Mo-STEM-BLBD Steam system: boiler blow down piping Mo-STEM-BLBD-PIPE Steam system: boiler blow down piping: piping Mo-STEM-CNDS Steam system: condensate piping Mo-STEM-CNDS-SKCH Steam system: condensate piping: sketch Mo-STEM-EQPM Steam system: equipment Mo-STEM-HPIP Steam system: high-pressure piping Mo-STEM-HPIP-SKCH Steam system: high-pressure piping: sketch Mo-STEM-LPIP Steam system: low-pressure piping Mo-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch Mo-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch Mo-STEM-MPIP Steam system: medium-pressure piping	M _□ -SPCL-PIPE	Special systems: piping
MSTEM-BLBD-PIPE Steam system: boiler blow down piping: piping MSTEM-CNDS Steam system: condensate piping MSTEM-CNDS-SKCH Steam system: condensate piping: sketch MSTEM-EQPM Steam system: equipment MSTEM-HPIP Steam system: high-pressure piping MSTEM-HPIP-SKCH Steam system: high-pressure piping: sketch MSTEM-LPIP Steam system: low-pressure piping MSTEM-LPIP-SKCH Steam system: low-pressure piping: sketch MSTEM-LPIP-SKCH Steam system: low-pressure piping: sketch MSTEM-MPIP Steam system: medium-pressure piping	M□-STEM	Steam system
M□-STEM-CNDS Steam system: condensate piping M□-STEM-CNDS-SKCH Steam system: condensate piping: sketch M□-STEM-EQPM Steam system: equipment M□-STEM-HPIP Steam system: high-pressure piping M□-STEM-HPIP-SKCH Steam system: high-pressure piping: sketch M□-STEM-LPIP Steam system: low-pressure piping M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-MPIP Steam system: medium-pressure piping	M□-STEM-BLBD	Steam system: boiler blow down piping
M□-STEM-CNDS-SKCH Steam system: condensate piping: sketch M□-STEM-EQPM Steam system: equipment M□-STEM-HPIP Steam system: high-pressure piping M□-STEM-HPIP-SKCH Steam system: high-pressure piping: sketch M□-STEM-LPIP Steam system: low-pressure piping M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-LPIP-SKCH Steam system: medium-pressure piping	M□-STEM-BLBD-PIPE	Steam system: boiler blow down piping: piping
M□-STEM-EQPM Steam system: equipment M□-STEM-HPIP Steam system: high-pressure piping M□-STEM-HPIP-SKCH Steam system: high-pressure piping: sketch M□-STEM-LPIP Steam system: low-pressure piping M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-MPIP Steam system: medium-pressure piping	M□-STEM-CNDS	Steam system: condensate piping
M□-STEM-HPIP Steam system: high-pressure piping M□-STEM-HPIP-SKCH Steam system: high-pressure piping: sketch M□-STEM-LPIP Steam system: low-pressure piping M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-MPIP Steam system: medium-pressure piping	M□-STEM-CNDS-SKCH	Steam system: condensate piping: sketch
M□-STEM-HPIP-SKCH Steam system: high-pressure piping: sketch M□-STEM-LPIP Steam system: low-pressure piping M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-MPIP Steam system: medium-pressure piping	M□-STEM-EQPM	Steam system: equipment
M□-STEM-LPIP Steam system: low-pressure piping M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-MPIP Steam system: medium-pressure piping	M _□ -STEM-HPIP	Steam system: high-pressure piping
M□-STEM-LPIP-SKCH Steam system: low-pressure piping: sketch M□-STEM-MPIP Steam system: medium-pressure piping	M□-STEM-HPIP-SKCH	Steam system: high-pressure piping: sketch
M□-STEM-MPIP Steam system: medium-pressure piping	M□-STEM-LPIP	Steam system: low-pressure piping
	M□-STEM-LPIP-SKCH	Steam system: low-pressure piping: sketch
M□-STEM-MPIP-SKCH Steam system: medium-pressure piping: sketch	M□-STEM-MPIP	Steam system: medium-pressure piping
	M□-STEM-MPIP-SKCH	Steam system: medium-pressure piping: sketch
M□-TEST Test equipment	M□-TEST	Test equipment
Mo-WALL Wall	M _□ -WALL	Wall

M_□-WALL-PENE Wall: penetrations

5.14 OPERATIONS LAYER LIST

Operations Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Operations Discipline Designators

Designator	Description
0	Operations
OJ	User Defined
ОК	User Defined

Operations Layer List

Layer Name	Description	
No layer names have	been prescribed for this discipline.	

5.15 PLUMBING LAYER LIST

Plumbing Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Plumbing Discipline Designators

Designator	Description
Р	Plumbing
PD	Plumbing Demolition
PL	Plumbing
PP	Plumbing Piping
PQ	Plumbing Equipment
PS	Plumbing Site
PJ	User Defined
PK	User Defined

Plumbing Layer List

Layer Name	Description
	·
P□-ACID	Acid waste systems
P□-ACID-EQPM	Acid waste systems: equipment
P□-ACID-PIPE	Acid waste systems: piping
P□-ACID-VENT	Acid waste systems: vents
P□-DOMW	Domestic water systems
P□-DOMW-CPIP	Domestic water systems: cold water piping
P□-DOMW-EQPM	Domestic water systems: equipment
P□-DOMW-HPIP	Domestic water systems: hot water piping
P□-DOMW-RISR	Domestic water systems: risers
P□-DOMW-RPIP	Domestic water systems: recirculation piping
P□-FLOR	Floor
P□-FLOR-PENE	Floor: penetrations
P□-MDGS	Medical gas systems
P□-MDGS-CAIR	Medical gas systems: compressed air
P□-MDGS-EQPM	Medical gas systems: equipment
P□-MDGS-NITG	Medical gas systems: nitrogen
P□-MDGS-NOXG	Medical gas systems: nitrous oxide
P□-MDGS-OXYG	Medical gas systems: pure O2
P□-MDGS-PIPE	Medical gas systems: piping
P□-MDGS-SAIR	Medical gas systems: scavenge air
P□-MDGS-VACU	Medical gas systems: vacuum
P□-ROOF	Roof
P□-ROOF-PENE	Roof: penetrations
P□-SSWR	Sanitary sewer
P□-SSWR-EQPM	Sanitary sewer: equipment
P□-SSWR-FIXT	Sanitary sewer: fixtures
P□-SSWR-FLDR	Sanitary sewer: floor drains
P□-SSWR-PIPE	Sanitary sewer: piping
P□-SSWR-RISR	Sanitary sewer: risers
P□-SSWR-VENT	Sanitary sewer: vents
P□-STRM	Storm sewer
P□-STRM-PIPE	Storm sewer: piping
P□-STRM-RFDR	Storm sewer: roof drains
P□-STRM-RISR	Storm sewer: risers
P _□ -WALL	Wall
P ₋ -WALL-PENE	Wall: penetrations

5.16 PROCESS LAYER LIST

Process Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Process Discipline Designators

Designator	Description
D	Process
DA	Process Airs
DC	Process Chemicals
DD	Process Demolition
DE	Process Electrical
DG	Process Gases
DI	Process Instrumentation
DL	Process Liquids
DM	Process HPM Gases
DO	Process Oils
DP	Process Piping
DQ	Process Equipment
DR	Process Drains and Reclaims
DS	Process Site
DV	Process Vacuum
DW	Process Waters
DX	Process Exhaust
DY	Process Slurry
DJ	User Defined
DK	User Defined

Process Layer List

Layer Name	Description
D□-AIR~-AA~~	Air: agitation air - system
D□-AIR~-BA~~	Air: breathable air - system
D□-AIR~-CA~~	Air: compressed air - system
D□-AIR~-CDA~	Air: clean dry air - system
D□-AIR~-HCDA	Air: high pressure clean dry air - system
D□-AIR~-IA~~	Air: instrument air - system

Du-AIR~OFA~ Air: oil free air - system Dn-AIR~-PA~ Air: plant air - system Dn-AIR~-V~~ Air: vent - system Dn-CHEM-ARC~ Chemical: regenerative caustic - system Dn-CHEM-ARC~ Chemical: developer - system Dn-CHEM-EG~ Chemical: developer - system Dn-CHEM-EG~ Chemical: hydrogen peroxide - system Dn-CHEM-HCL~ Chemical: hydrogen peroxide - system Dn-CHEM-HCL~ Chemical: hydrogen peroxide - system Dn-CHEM-HPA~ Chemical: hydrofituoric acid - system Dn-CHEM-HPA~ Chemical: sopropyl alcohol - system Dn-CHEM-PHOS Chemical: solvent - system Dn-CHEM-PHOS Chemical: solvent - system Dn-CHEM-HTA— Chemical: solvent - system Dn-CHEM-HTA— Chemical: solvent - system Dn-CHEM-HTA— Dn-CHEM-HIMAH Chemical: trah - system Dn-CHEM-TIMAH Chemical: trah - system Dn-DETL-BOLD Detail: bold lines Dn-DETL-BOLD Dn-DETL-BOLD Dn-DETL-BOLD Dn-DETL-BOLD Dn-DETL-WEDM Dn-DETL-WEDM Dn-DETL-WEDM Dn-DRAN-AMW~ Drains: condensate drain - system Dn-DRAN-CUW~ Drains: concentrated lead waste - system Dn-DRAN-CUWW Drains: concentrated metals waste - system Dn-DRAN-CUWW Drains: copper plating waste - system Dn-DRAN-CUWW Drains: copper slurry waste - system Dn-DRAN-DUW~ Drains: dilute waste - system Dn-DRAN-DUW~ Drains: dilute waste - system Dn-DRAN-DUW~ Drains: dilute waste - system Dn-DRAN-EGW~ Dn-DRAN-EGW~ Drains: dilute waste - system Dn-DRAN-HW~ Dn-DRAN-HW~ Dn-DRAN-HPW Dn-DRAN-HPW Dn-DRAN-DRW Drains: dilute waste - system Dn-DRAN-DRW Dn-DRAN-DRW Dn-DRAN-DRW Dn-DRAN-DRW Dn-DRAN-	D□-AIR~-OA~~	Air: outside air - system
D□-AIR~-PA~ Air: plant air - system D□-AIR~-V~~ Air: vent - system D□-CHEM-ARC~ Chemical: regenerative caustic - system D□-CHEM-DEV~ Chemical: developer - system D□-CHEM-BEV~ Chemical: ethylene glycol - system D□-CHEM-H2O2 Chemical: hydroghoper a system D□-CHEM-H2O3 D□-CHEM-H2O4 Chemical: hydroghoper a system D□-CHEM-H2O5 Chemical: hydroghoper a system D□-CHEM-PA Chemical: solvent - system D□-CHEM-PHOS Chemical: solvent - system D□-CHEM-SULF Chemical: sulfuric acid - system D□-CHEM-SULF Chemical: sulfuric acid - system D□-CHEM-SULF D□-DETL-BOLD D□-DRAN-CUW- Drains: ammonia waste - system D□-DRAN-CUW- D□-DRAN-CUW- Drains: concentrated read waste - system D□-DRAN-CUW- D□-DRAN-CUW- D□-DRAN-CUW- Drains: concentrated metals waste - system D□-DRAN-CUW- D□-DRAN-CUW- D□-DRAN-CUW- Drains: copper plating waste - system D□-DRAN-CUW- D□-DRAN-DIRC D□-DRAN-DIRC D□-DRAN-DIRC D□-DRAN-DIRC D□-DRAN-DIRC D□-DRAN-DIRC D□-DRAN-HEW- D□-DRAN-HEW- D□-DRAN-HEW- D□-DRAN-HEW- D□-DRAN-HEW- D□-DRAN-HEW- D□-DRAN-HEW- D□-DRAN-W- D□-DRA		<u> </u>
D□-CHEM-ARC- Chemical: regenerative caustic - system D□-CHEM-DEV- Chemical: developer - system D□-CHEM-BG Chemical: chylene glycol - system D□-CHEM-HZO2 Chemical: hydrogen peroxide - system D□-CHEM-HZO2 Chemical: hydrogen peroxide - system D□-CHEM-HZO2 Chemical: hydrogen peroxide - system D□-CHEM-HZO2 Chemical: hydrofloric acid - system D□-CHEM-HP Chemical: hydrofloric acid - system D□-CHEM-HP Chemical: hydrofloric acid - system D□-CHEM-HP Chemical: hydrofloric acid - system D□-CHEM-PHOS Chemical: solvent - system D□-CHEM-SULF Chemical: solvent - system D□-CHEM-SULF Chemical: sulfuric acid - system D□-CHEM-TMAH Chemical: sulfuric acid - system D□-CHEM-TMAH Chemical: mah - system D□-DETL-FINE Detail: fine lines D□-DETL-FINE D=tail: fine lines D□-DETL-BOLD D=tail: medium lines D□-DETL-BOLD D=tail: medium lines D□-DRAN-AMW- Drains: ammonia waste - system D□-DRAN-CD Drains: condensate drain - system D□-DRAN-CLW- Drains: concentrated metals waste - system D□-DRAN-CLW- Drains: copper plating waste - system D□-DRAN-CUPW Drains: copper plating waste - system D□-DRAN-CUPW Drains: copper slurry waste - system D□-DRAN-CUPW Drains: copper slurry waste - system D□-DRAN-CUW- Drains: drille waste - system D□-DRAN-DW D□-DRAN-DW D□-DRAN-DW Drains: hydrofluoric waste - system D□-DRAN-HW D□-DRAN-HW Drains: industrial waste - system D□-DRAN-HW D□-DRAN-DW Darins: organic industrial waste - system D□-DRAN-DW D□-DRAN-DW D□-DRAN-DW Drains: organic industrial waste - system D□-DRAN-DW D□-DRAN-DW D□-DRAN-DW Drains: organic industrial waste - system D□-DRAN-DW D□-DRAN-DW D□-DRAN-DW Drains: organic industrial waste - system D□-DRAN-DW D□-DRA	D□-AIR~-PA~~	
D□-CHEM-ARC~ Chemical: regenerative caustic - system D□-CHEM-DEV~ Chemical: developer - system D□-CHEM-BC-~ Chemical: developer - system D□-CHEM-HZO2 Chemical: hydrogen peroxide - system D□-CHEM-HZO2 Chemical: hydrochloric acid - system D□-CHEM-HCL~ Chemical: hydrochloric acid - system D□-CHEM-HF~ Chemical: sopropyl alcohol - system D□-CHEM-PHOA Chemical: sopropyl alcohol - system D□-CHEM-PHOS Chemical: solvent - system D□-CHEM-BULF Chemical: solvent - system D□-CHEM-SULF Chemical: solvent - system D□-CHEM-SULF Chemical: solvent - system D□-CHEM-TMAH Chemical: bold lines D□-DETL-FINE Detail: fine lines D□-DETL-MEDM Detail: medium lines D□-DETL-MEDM Detail: medium lines D□-DRAN-AMW~ Drains: ammonia waste - system D□-DRAN-CLW~ Drains: concentrated lead waste - system D□-DRAN-CUPW Drains: copper plating waste - system D□-DRAN-CURW Drains: copper finse waste - system D□-DRAN-CUSW Drains: copper finse waste - system D□-DRAN-DIRC Drains: dilute waste - system D□-DRAN-DLW~ Drains: dilute waste - system D□-DRAN-HFW~ Drains: industrial waste - system D□-DRAN-HFW~ Drains: metals waste - system D□-DRAN-HFW~ Drains: organic industrial waste - system D□-DRAN-DW~ Drains: organic industrial waste - system D□-DRAN-DW~ Drains: organic industrial waste - system D□-DRAN-DW~ Drains: organic liquid waste - system D□-DRAN-DRAN-DW~ Drains: organ	D□-AIR~-V~~~	
Do-CHEM-C~~~ Chemical: caustic - system Do-CHEM-DEV~ Chemical: developer - system Do-CHEM-EG~~ Chemical: ethylene glycol - system Do-CHEM-H2O2 Chemical: hydrogen peroxide - system Do-CHEM-H2C- Chemical: hydrofolioric acid - system Do-CHEM-HF~~ Chemical: hydrofiloric acid - system Do-CHEM-HPA~ Chemical: isopropyl alcohol - system Do-CHEM-PHOS Chemical: phosphoric acid - system Do-CHEM-BRA~ Chemical: solvent - system Do-CHEM-SULF Chemical: sulfuric acid - system Do-CHEM-SULF Chemical: sulfuric acid - system Do-CHEM-SULF Chemical: sulfuric acid - system Do-DETL-BOLD Detail: bold lines Do-DETL-FINE Detail: fine lines Do-DETL-FINE Detail: medium lines Do-DETL-MEDM Detail: medium lines Do-DRAN-AMW~ Drains: ammonia waste - system Do-DRAN-CUW Drains: concentrated lead waste - system Do-DRAN-CUPW Drains: copper plating waste - system Do-DRAN-CUPW Drains: copper slurry waste - system Do-DRAN-CURW Drains: Di reclaim - system Do-DRAN-CURW Drains: Di reclaim - system Do-DRAN-DURC Drains: Di reclaim - system Do-DRAN-DURC Drains: Di reclaim - system Do-DRAN-DURC Drains: bytofuluric waste - system Do-DRAN-DRACW- Drains: industrial waste - system Do-DRAN-HEW- Drains: industrial waste - system Do-DRAN-HEW- Drains: metals waste - system Do-DRAN-WW- Drains: metals waste - system Do-DRAN-WW- Drains: metals waste - system Do-DRAN-WW- Drains: organic industrial waste - system Do-DRAN-WW- Drains: organic industrial waste - system Do-DRAN-DRAN-WW- Drains: organic industrial waste - system Do-DRAN-DRAN-OW- Drains: organic industrial waste - system Do-DRAN-DRAN-DRAN-DRAN-Drains: or	D□-CHEM-ARC~	
D□-CHEM-EG~~ Chemical: ethylene glycol - system D□-CHEM-H2O2 Chemical: hydrogen peroxide - system D□-CHEM-HCL~ Chemical: hydrochloric acid - system D□-CHEM-HF~~ Chemical: hydrofluoric acid - system D□-CHEM-PHOS Chemical: sopropyl alcohol - system D□-CHEM-PHOS Chemical: solvent - system D□-CHEM-RER~ Chemical: sulfuric acid - system D□-CHEM-SULF Chemical: sulfuric acid - system D□-CHEM-TMAH Chemical: sulfuric acid - system D□-DETL-BOLD Detail: bold lines D□-DETL-BOLD Detail: fine lines D□-DETL-MEDM Detail: medium lines D□-DETL-MEDM Detail: medium lines D□-DRAN-AMW~ Drains: condensate drain - system D□-DRAN-CD~~ Drains: condensate drain - system D□-DRAN-CLW~ Drains: concentrated lead waste - system D□-DRAN-CLW~ Drains: concentrated metals waste - system D□-DRAN-CUPW Drains: copper plating waste - system D□-DRAN-CUPW Drains: copper slurry waste - system D□-DRAN-UWW Drains: copper slurry waste - system D□-DRAN-DIRC Drains: dilute waste	D□-CHEM-C~~~	
D□-CHEM-H2O2 Chemical: hydrogen peroxide - system D□-CHEM-HCL~ Chemical: hydrogen peroxide - system D□-CHEM-HF~~ Chemical: hydrofluoric acid - system D□-CHEM-HPA~ Chemical: isopropyl alcohol - system D□-CHEM-PHOS Chemical: phosphoric acid - system D□-CHEM-PHOS Chemical: solvent - system D□-CHEM-SULF Chemical: sulfuric acid - system D□-CHEM-SULF Chemical: sulfuric acid - system D□-CHEM-TMAH Chemical: trnah - system D□-DETL-BOLD Detail: bold lines D□-DETL-BOLD Detail: fine lines D□-DETL-HINE Detail: medium lines D□-DETL-MEDM Detail: medium lines D□-DRAN-AMW~ Drains: ammonia waste - system D□-DRAN-CD~~ Drains: concentrated lead waste - system D□-DRAN-CLW~ Drains: concentrated metals waste - system D□-DRAN-CUPW Drains: copper plating waste - system D□-DRAN-CURW Drains: copper slurry waste - system D□-DRAN-CURW Drains: cipper slurry waste - system D□-DRAN-DIRC Drains: DI reclaim - system D□-DRAN-DIRC Drains: dilute waste - system D□-DRAN-BGW~ Drains: dilute waste - system D□-DRAN-HFW~ Drains: hydrofluoric waste - system D□-DRAN-HFW~ Drains: industrial waste - system D□-DRAN-HFW~ Drains: non-potable water reuse - system D□-DRAN-DWR Drains: organic industrial waste - system D□-DRAN-DWR Drains: organic solvent waste - system D□-DRAN-DRAN-DWR Drains: organic solvent waste - system D□-	D□-CHEM-DEV~	Chemical: developer - system
D□-CHEM-HCL~ Chemical: hydrochloric acid - system D□-CHEM-HF~~ Chemical: hydrofluoric acid - system D□-CHEM-IPA~ Chemical: isopropyl alcohol - system D□-CHEM-PHOS Chemical: solvent - system D□-CHEM-RER~ Chemical: sulfuric acid - system D□-CHEM-SULF Chemical: sulfuric acid - system D□-CHEM-TMAH Chemical: third - system D□-CHEM-TMAH Chemical: thire ines D□-DETL-BOLD Detail: bold lines D□-DETL-FINE D□-DETL-MEDM D□-DETL-MEDM D□-DRAN-GDM D□-DRAN-CDN D□-DRAN-CDN D□-DRAN-CDN D□-DRAN-CDN D□-DRAN-CLW D□-DRAN-CLW D□-DRAN-CLW D□-DRAN-CUPW D□-DRAN-CUPW D□-DRAN-CUPW D□-DRAN-CUPW D□-DRAN-CUSW D□-DRAN-CUSW D□-DRAN-CUSW D□-DRAN-CUSW D□-DRAN-DIRC D□-DRAN-DIRC D□-DRAN-DLW D□-DRAN-DLW D□-DRAN-DLW D□-DRAN-BCW D□-DRAN-HFW D□-DRAN-DIW- D	D□-CHEM-EG~~	Chemical: ethylene glycol - system
Do-CHEM-HF~~ Chemical: hydrofluoric acid - system Do-CHEM-IPA~ Chemical: isopropyl alcohol - system Do-CHEM-PHOS Chemical: solvent - system Do-CHEM-RER~ Chemical: sulfuric acid - system Do-CHEM-SULF Chemical: sulfuric acid - system Do-CHEM-TMAH Chemical: sulfuric acid - system Do-DETL-BOLD Detail: bold lines Do-DETL-FINE Do-DETL-FINE Do-DETL-MEDM Do-DETL-MEDM Do-DRAN-AMW~ Do-DRAN-CD~ Do-DRAN-CD~ Do-DRAN-CLW~ Do-DRAN-CLW~ Do-DRAN-CLW~ Do-DRAN-CUPW Do-DRAN-CUPW Do-DRAN-CUPW Do-DRAN-CURW Do-DRAN-CURW Do-DRAN-CUSW Do-DRAN-CUSW Do-DRAN-CUSW Do-DRAN-DIRC Do-DRAN-DIRC Do-DRAN-BURC Do-DRAN-DURC Do	D□-CHEM-H2O2	Chemical: hydrogen peroxide - system
D□-CHEM-IPA- D□-CHEM-PHOS Chemical: isopropyl alcohol - system D□-CHEM-PHOS Chemical: phosphoric acid - system D□-CHEM-RER- Chemical: solvent - system D□-CHEM-SULF Chemical: sulfuric acid - system D□-CHEM-TMAH Chemical: sulfuric acid - system D□-DETL-BOLD Detail: bold lines D□-DETL-FINE Detail: fine lines D□-DETL-HEDM Detail: medium lines D□-DETL-MEDM Detail: medium lines D□-DRAN-AMW- Drains: ammonia waste - system D□-DRAN-CD D□-DRAN-CLW- Drains: concentrated lead waste - system D□-DRAN-CW- D□-DRAN-CWW Drains: copper plating waste - system D□-DRAN-CUPW Drains: copper rinse waste - system D□-DRAN-CUPW Drains: copper slurry waste - system D□-DRAN-DIRC Drains: DI reclaim - system D□-DRAN-DIRC Drains: dilute waste - system D□-DRAN-DLW- Drains: dilute waste - system D□-DRAN-HFW- D□-DRAN-HFW- Drains: industrial waste - system D□-DRAN-HFW- D□-DRAN-HFW- D□-DRAN-HW Drains: metals waste - system D□-DRAN-HW D□-DRAN-HW Drains: metals waste - system D□-DRAN-DW- D□-DRAN-DW- Drains: organic industrial waste - system D□-DRAN-OW- Drains: organic injudi waste - system D□-DRAN-OW- Drains: organic injudi waste - system D□-DRAN-OW- Drains: organic injudi waste - system D□-DRAN-OW- D□-DRAN-DRC Drains: phosphoric acid reclaim - system D□-DRAN-PSW- D□-DRAN-PSW- D□-DRAN-PSW- D□-DRAN-PSW- Drains: photo solvent waste - system D□-DRAN-PSW- D□-DRAN-SDD- Drains: scrubber duct drains - system	D□-CHEM-HCL~	Chemical: hydrochloric acid - system
D□-CHEM-PHOS Chemical: phosphoric acid - system D□-CHEM-RER~ Chemical: solvent - system D□-CHEM-SULF Chemical: sulfuric acid - system D□-CHEM-TMAH Chemical: bold lines D□-DETL-BOLD Detail: bold lines D□-DETL-FINE Detail: fine lines D□-DETL-HEDM Detail: medium lines D□-DEAN-AMW- Drains: ammonia waste - system D□-DRAN-CD~ Drains: concentrated lead waste - system D□-DRAN-CLW~ Drains: concentrated metals waste - system D□-DRAN-CUPW Drains: copper plating waste - system D□-DRAN-CUPW Drains: copper rinse waste - system D□-DRAN-CUPW Drains: copper slurry waste - system D□-DRAN-DLW~ Drains: DI reclaim - system D□-DRAN-DLW~ Drains: dilute waste - system D□-DRAN-BCW~ Drains: dilute waste - system D□-DRAN-HFW~ Drains: industrial waste - system D□-DRAN-HFW~ Drains: metals waste - system D□-DRAN-HFW~ Drains: metals waste - system D□-DRAN-NPWR Drains: mon-potable water reuse - system D□-DRAN-OLW~ Drains: organic industrial waste - system D□-DRAN-OLW~ Drains: organic solvent waste - system D□-DRAN-PHRC Drains: phosphoric acid reclaim - system D□-DRAN-PSW~ Drains: phosphoric acid reclaim - system	D□-CHEM-HF~~	Chemical: hydrofluoric acid - system
D□-CHEM-RER~ □-CHEM-SULF □-CHEM-SULF □-CHEM-TMAH □-CHEM-TMAH □-D-DETL-BOLD □-DETL-BOLD □-DETL-FINE □-DETL-FINE □-DETL-MEDM □-DETL-MEDM □-DRAN-AMW~ □-DRAN-CD~~ □-DRAN-CLW~ □-DRAN-CWW □-DRAN-CUPW □-DRAN-CUPW □-DRAN-CURW □-DRAN-CURW □-DRAN-CURW □-DRAN-CURW □-DRAN-CURW □-DRAN-CURW □-DRAN-DIRC □-DRAN-DIRC □-DRAN-DIRC □-DRAN-DIRC □-DRAN-DIRC □-DRAN-BW- □-DRAN-HFW- □-DRAN-HFW- □-DRAN-NW- □-DRAN-OW- □-DRAN-DRAN-OW- □-DRAN-DRAN-OW- □-DRAN-PSW- □-DRAN-PSW- □-DRAN-PSW- □-DRAN-PSW- □-DRAN-SDD-	D□-CHEM-IPA~	Chemical: isopropyl alcohol - system
DCHEM-SULF Chemical: sulfuric acid - system DCHEM-TMAH Chemical: tmah - system DDETL-BOLD Detail: bold lines DDETL-BOLD Detail: fine lines DDETL-FINE Detail: fine lines DDETL-MEDM Detail: medium lines DDRAN-AMW~ Drains: ammonia waste - system DDRAN-CD~~ Drains: concentrated lead waste - system DDRAN-CHW~ Drains: concentrated metals waste - system DDRAN-CUPW Drains: copper plating waste - system DDRAN-CUPW Drains: copper rinse waste - system DDRAN-CURW Drains: copper slurry waste - system DDRAN-CUSW Drains: copper slurry waste - system DDRAN-DIRC Drains: Di reclaim - system DDRAN-DLW~ Drains: dilute waste - system DDRAN-BW~ Drains: ethylene glycol waste - system DDRAN-HFW~ Drains: industrial waste - system DDRAN-HW~~ Drains: metals waste - system DDRAN-MW~~ Drains: metals waste - system DDRAN-NPWR Drains: non-potable water reuse - system DDRAN-OIW~ Drains: organic industrial waste - system DDRAN-OIW~ Drains: organic industrial waste - system DDRAN-OIW~ Drains: organic liquid waste - system DDRAN-OIW~ Drains: organic solvent waste - system DDRAN-OHRC Drains: phosphoric acid reclaim - system DDRAN-PHRC Drains: phosphoric acid reclaim - system DDRAN-PSW~ Drains: phosphoric acid reclaim - system DDRAN-SDP~ Drains: photo solvent waste - system	D□-CHEM-PHOS	Chemical: phosphoric acid - system
DCHEM-TMAH Chemical: tmah - system DDETL-BOLD Detail: bold lines DDETL-FINE Detail: fine lines DDETL-MEDM Detail: medium lines DDRAN-AMW~ Drains: ammonia waste - system DDRAN-CLW~ Drains: concentrated lead waste - system DDRAN-CMW~ Drains: concentrated metals waste - system DDRAN-CUPW Drains: copper plating waste - system DDRAN-CURW Drains: copper rinse waste - system DDRAN-CURW Drains: copper slurry waste - system DDRAN-CUSW Drains: copper slurry waste - system DDRAN-DIRC Drains: DI reclaim - system DDRAN-DIRC Drains: dilute waste - system DDRAN-BGW~ Drains: ethylene glycol waste - system DDRAN-HFW~ Drains: industrial waste - system DDRAN-HW~ Drains: metals waste - system DDRAN-MW~ Drains: metals waste - system DDRAN-NPWR Drains: non-potable water reuse - system DDRAN-OIW~ Drains: organic industrial waste - system DDRAN-OIW~ Drains: organic liquid waste - system DDRAN-OIW~ Drains: organic liquid waste - system DDRAN-OIW~ Drains: organic solvent waste - system DDRAN-PRC Drains: phosphoric acid reclaim - system DDRAN-PRC Drains: phosphoric acid reclaim - system DDRAN-PSW~ Drains: phosphoric acid reclaim - system	D□-CHEM-RER~	Chemical: solvent - system
Do-DETL-BOLD Detail: bold lines Do-DETL-FINE Detail: fine lines Do-DETL-MEDM Detail: medium lines Do-DRAN-AMW~ Drains: ammonia waste - system Do-DRAN-CD~ Drains: condensate drain - system Do-DRAN-CLW~ Drains: concentrated lead waste - system Do-DRAN-CUPW Drains: copper plating waste - system Do-DRAN-CURW Drains: copper rinse waste - system Do-DRAN-CURW Drains: copper rinse waste - system Do-DRAN-CUSW Drains: copper siurry waste - system Do-DRAN-DLW~ Drains: DI reclaim - system Do-DRAN-DLW~ Drains: dilute waste - system Do-DRAN-EGW~ Drains: hydrofluoric waste - system Do-DRAN-HFW~ Drains: industrial waste - system Do-DRAN-MW~~ Drains: metals waste - system Do-DRAN-NPWR Drains: non-potable water reuse - system Do-DRAN-OLW~ Drains: organic industrial waste - system Do-DRAN-OLW~ Drains: organic liquid waste - system Do-DRAN-OLW~ Drains: organic liquid waste - system Do-DRAN-OLW~ Drains: organic solvent waste - system Do-DRAN-PHRC Drains: phosphoric acid reclaim - system Do-DRAN-PSW~ Drains: photo solvent waste - system Do-DRAN-SDD~ Drains: scrubber duct drains - system	D□-CHEM-SULF	Chemical: sulfuric acid - system
Do-DETL-FINE Detail: fine lines Do-DETL-MEDM Detail: medium lines Do-DRAN-AMW~ Drains: ammonia waste - system Do-DRAN-CLW~ Drains: concentrated lead waste - system Do-DRAN-CUPW Drains: copper plating waste - system Do-DRAN-CUPW Drains: copper rinse waste - system Do-DRAN-CUSW Drains: copper slurry waste - system Do-DRAN-CUSW Drains: copper slurry waste - system Do-DRAN-DLW~ Drains: dilute waste - system Do-DRAN-DLW~ Drains: dilute waste - system Do-DRAN-BGW~ Drains: ethylene glycol waste - system Do-DRAN-HFW~ Drains: industrial waste - system Do-DRAN-HFW~ Drains: industrial waste - system Do-DRAN-MW~~ Drains: metals waste - system Do-DRAN-NPWR Drains: non-potable water reuse - system Do-DRAN-OLW~ Drains: organic industrial waste - system Do-DRAN-OLW~ Drains: organic liquid waste - system Do-DRAN-OLW~ Drains: organic solvent waste - system Do-DRAN-OSW~ Drains: organic solvent waste - system Do-DRAN-PHRC Drains: photo solvent waste - system Do-DRAN-PSW~ Drains: photo solvent waste - system Do-DRAN-SDD~ Drains: scrubber duct drains - system	D□-CHEM-TMAH	Chemical: tmah - system
Do-DETL-MEDM Detail: medium lines Do-DRAN-AMW~ Drains: ammonia waste - system Do-DRAN-CD~~ Drains: condensate drain - system Do-DRAN-CLW~ Drains: concentrated lead waste - system Do-DRAN-CW~ Drains: concentrated metals waste - system Do-DRAN-CUPW Drains: copper plating waste - system Do-DRAN-CURW Drains: copper rinse waste - system Do-DRAN-CUSW Drains: copper slurry waste - system Do-DRAN-DIRC Drains: DI reclaim - system Do-DRAN-DLW~ Drains: dilute waste - system Do-DRAN-EGW~ Drains: ethylene glycol waste - system Do-DRAN-HFW~ Drains: hydrofluoric waste - system Do-DRAN-HFW~ Drains: industrial waste - system Do-DRAN-NW~~ Drains: metals waste - system Do-DRAN-NW~~ Drains: metals waste - system Do-DRAN-NPWR Drains: organic industrial waste - system Do-DRAN-OIW~ Drains: organic liquid waste - system Do-DRAN-OIW~ Drains: organic solvent waste - system Do-DRAN-OSW~ Drains: organic solvent waste - system Do-DRAN-PHRC Drains: photo solvent waste - system Do-DRAN-SDD~ Drains: photo solvent waste - system	D□-DETL-BOLD	Detail: bold lines
D□-DRAN-AMW~ Drains: ammonia waste - system D□-DRAN-CD~~ Drains: condensate drain - system D□-DRAN-CMW~ Drains: concentrated lead waste - system D□-DRAN-CUPW Drains: copper plating waste - system D□-DRAN-CURW Drains: copper rinse waste - system D□-DRAN-CURW Drains: copper slurry waste - system D□-DRAN-CUSW Drains: copper slurry waste - system D□-DRAN-DIRC Drains: DI reclaim - system D□-DRAN-DLW~ Drains: dilute waste - system D□-DRAN-EGW~ Drains: ethylene glycol waste - system D□-DRAN-HFW~ Drains: industrial waste - system D□-DRAN-IW~~ Drains: metals waste - system D□-DRAN-NPWR Drains: non-potable water reuse - system D□-DRAN-OIW~ Drains: organic industrial waste - system D□-DRAN-OIW~ Drains: organic liquid waste - system D□-DRAN-OSW~ Drains: organic solvent waste - system D□-DRAN-PHRC Drains: photo solvent waste - system D□-DRAN-SDP~ Drains: photo solvent waste - system	D□-DETL-FINE	Detail: fine lines
D_D-DRAN-CD~~ Drains: condensate drain - system D_D-DRAN-CLW~ Drains: concentrated lead waste - system D_D-DRAN-CUPW Drains: copper plating waste - system D_D-DRAN-CURW Drains: copper plating waste - system D_D-DRAN-CURW Drains: copper rinse waste - system D_D-DRAN-CUSW Drains: copper slurry waste - system D_D-DRAN-DIRC Drains: DI reclaim - system D_D-DRAN-DLW~ Drains: dilute waste - system D_D-DRAN-BGW~ Drains: ethylene glycol waste - system D_D-DRAN-HFW~ Drains: industrial waste - system D_D-DRAN-NW~ Drains: metals waste - system D_D-DRAN-NW~ Drains: metals waste - system D_D-DRAN-OIW~ Drains: organic industrial waste - system D_D-DRAN-OLW~ Drains: organic liquid waste - system D_D-DRAN-OLW~ Drains: organic liquid waste - system D_D-DRAN-OSW~ Drains: organic solvent waste - system D_D-DRAN-PHRC Drains: phosphoric acid reclaim - system D_D-DRAN-PSW~ Drains: photo solvent waste - system D_D-DRAN-SDD~ Drains: scrubber duct drains - system	D□-DETL-MEDM	Detail: medium lines
DD-DRAN-CLW~ Drains: concentrated lead waste - system DD-DRAN-CUPW Drains: copper plating waste - system DD-DRAN-CURW Drains: copper rinse waste - system DD-DRAN-CURW Drains: copper rinse waste - system DD-DRAN-CUSW Drains: copper slurry waste - system DD-DRAN-DIRC Drains: DI reclaim - system DD-DRAN-DLW~ Drains: dilute waste - system DD-DRAN-DLW~ Drains: ethylene glycol waste - system DD-DRAN-HFW~ Drains: hydrofluoric waste - system DD-DRAN-IW~~ Drains: industrial waste - system DD-DRAN-MW~~ Drains: metals waste - system DD-DRAN-NPWR Drains: non-potable water reuse - system DD-DRAN-OIW~ Drains: organic industrial waste - system DD-DRAN-OIW~ Drains: organic liquid waste - system DD-DRAN-OLW~ Drains: organic solvent waste - system DD-DRAN-OSW~ Drains: phosphoric acid reclaim - system DD-DRAN-PSW~ Drains: photo solvent waste - system DD-DRAN-SDD~ Drains: scrubber duct drains - system	D□-DRAN-AMW~	Drains: ammonia waste - system
D□-DRAN-CMW~ Drains: concentrated metals waste - system D□-DRAN-CURW Drains: copper plating waste - system D□-DRAN-CUSW Drains: copper slurry waste - system D□-DRAN-DIRC Drains: DI reclaim - system D□-DRAN-DLW~ Drains: ethylene glycol waste - system D□-DRAN-HFW~ Drains: hydrofluoric waste - system D□-DRAN-IW~ Drains: industrial waste - system D□-DRAN-MW~ Drains: metals waste - system D□-DRAN-NPWR Drains: non-potable water reuse - system D□-DRAN-OIW~ Drains: organic industrial waste - system D□-DRAN-OLW~ Drains: organic liquid waste - system D□-DRAN-OLW~ Drains: organic solvent waste - system D□-DRAN-OSW~ Drains: photo solvent waste - system D□-DRAN-PSW~ Drains: photo solvent waste - system D□-DRAN-SDD~ Drains: scrubber duct drains - system	D□-DRAN-CD~~	Drains: condensate drain - system
D□-DRAN-CUPW Drains: copper plating waste - system D□-DRAN-CURW Drains: copper rinse waste - system D□-DRAN-CUSW Drains: copper slurry waste - system D□-DRAN-DIRC Drains: DI reclaim - system D□-DRAN-DLW~ Drains: dilute waste - system D□-DRAN-EGW~ Drains: ethylene glycol waste - system D□-DRAN-HFW~ Drains: hydrofluoric waste - system D□-DRAN-IW~~ Drains: industrial waste - system D□-DRAN-MW~~ Drains: metals waste - system D□-DRAN-NPWR Drains: non-potable water reuse - system D□-DRAN-OIW~ Drains: organic industrial waste - system D□-DRAN-OLW~ Drains: organic liquid waste - system D□-DRAN-OSW~ Drains: organic solvent waste - system D□-DRAN-PHRC Drains: phosphoric acid reclaim - system D□-DRAN-PSW~ Drains: photo solvent waste - system D□-DRAN-SDD~ Drains: scrubber duct drains - system	D□-DRAN-CLW~	Drains: concentrated lead waste - system
D□-DRAN-CURW Drains: copper rinse waste - system D□-DRAN-CUSW Drains: copper slurry waste - system D□-DRAN-DIRC Drains: DI reclaim - system D□-DRAN-DLW~ Drains: dilute waste - system D□-DRAN-EGW~ Drains: ethylene glycol waste - system D□-DRAN-HFW~ Drains: hydrofluoric waste - system D□-DRAN-IW~~ Drains: industrial waste - system D□-DRAN-MW~~ Drains: metals waste - system D□-DRAN-NPWR Drains: non-potable water reuse - system D□-DRAN-OIW~ Drains: organic industrial waste - system D□-DRAN-OLW~ Drains: organic liquid waste - system D□-DRAN-OSW~ Drains: organic solvent waste - system D□-DRAN-PHRC Drains: phosphoric acid reclaim - system D□-DRAN-PSW~ Drains: photo solvent waste - system D□-DRAN-SDD~ Drains: scrubber duct drains - system	D□-DRAN-CMW~	Drains: concentrated metals waste - system
D□-DRAN-CUSW Drains: copper slurry waste - system D□-DRAN-DIRC Drains: DI reclaim - system D□-DRAN-DLW~ Drains: dilute waste - system D□-DRAN-EGW~ Drains: ethylene glycol waste - system D□-DRAN-HFW~ Drains: hydrofluoric waste - system D□-DRAN-IW~~ Drains: industrial waste - system D□-DRAN-MW~~ Drains: metals waste - system D□-DRAN-NPWR Drains: organic industrial waste - system D□-DRAN-OIW~ Drains: organic liquid waste - system D□-DRAN-OSW~ Drains: organic solvent waste - system D□-DRAN-PHRC Drains: phosphoric acid reclaim - system D□-DRAN-PSW~ Drains: photo solvent waste - system D□-DRAN-SDD~ Drains: scrubber duct drains - system	D□-DRAN-CUPW	Drains: copper plating waste - system
D□-DRAN-DIRC Drains: DI reclaim - system D□-DRAN-DLW~ Drains: dilute waste - system D□-DRAN-EGW~ Drains: ethylene glycol waste - system D□-DRAN-HFW~ Drains: hydrofluoric waste - system D□-DRAN-IW~~ Drains: industrial waste - system D□-DRAN-MW~~ Drains: metals waste - system D□-DRAN-NPWR Drains: non-potable water reuse - system D□-DRAN-OIW~ Drains: organic industrial waste - system D□-DRAN-OLW~ Drains: organic liquid waste - system D□-DRAN-OSW~ Drains: organic solvent waste - system D□-DRAN-PHRC Drains: phosphoric acid reclaim - system D□-DRAN-PSW~ Drains: photo solvent waste - system D□-DRAN-SDD~ Drains: scrubber duct drains - system	D□-DRAN-CURW	Drains: copper rinse waste - system
D□-DRAN-DLW~ Drains: dilute waste - system D□-DRAN-EGW~ Drains: ethylene glycol waste - system D□-DRAN-HFW~ Drains: hydrofluoric waste - system D□-DRAN-IW~~ Drains: industrial waste - system D□-DRAN-MW~~ Drains: metals waste - system D□-DRAN-NPWR Drains: non-potable water reuse - system D□-DRAN-OIW~ Drains: organic industrial waste - system D□-DRAN-OLW~ Drains: organic liquid waste - system D□-DRAN-OSW~ Drains: organic solvent waste - system D□-DRAN-PHRC Drains: phosphoric acid reclaim - system D□-DRAN-PSW~ Drains: photo solvent waste - system D□-DRAN-SDD~ Drains: scrubber duct drains - system	D□-DRAN-CUSW	Drains: copper slurry waste - system
D□-DRAN-EGW~ Drains: ethylene glycol waste - system D□-DRAN-HFW~ Drains: hydrofluoric waste - system D□-DRAN-IW~~ Drains: industrial waste - system D□-DRAN-MW~~ Drains: metals waste - system D□-DRAN-NPWR Drains: non-potable water reuse - system D□-DRAN-OIW~ Drains: organic industrial waste - system D□-DRAN-OLW~ Drains: organic liquid waste - system D□-DRAN-OSW~ Drains: organic solvent waste - system D□-DRAN-PSW~ Drains: phosphoric acid reclaim - system D□-DRAN-PSW~ Drains: photo solvent waste - system D□-DRAN-SDD~ Drains: scrubber duct drains - system	D□-DRAN-DIRC	Drains: DI reclaim - system
DD-DRAN-HFW~ Drains: hydrofluoric waste - system DD-DRAN-IW~~ Drains: industrial waste - system DD-DRAN-MW~~ Drains: metals waste - system DD-DRAN-NPWR Drains: non-potable water reuse - system DD-DRAN-OIW~ Drains: organic industrial waste - system DD-DRAN-OLW~ Drains: organic liquid waste - system DD-DRAN-OSW~ Drains: organic solvent waste - system DD-DRAN-PHRC Drains: phosphoric acid reclaim - system DD-DRAN-PSW~ Drains: photo solvent waste - system DD-DRAN-PSW~ Drains: photo solvent waste - system DD-DRAN-SDD~ Drains: scrubber duct drains - system	D□-DRAN-DLW~	Drains: dilute waste - system
DDRAN-IW~~ Drains: industrial waste - system DDRAN-MW~~ Drains: metals waste - system DDRAN-NPWR Drains: non-potable water reuse - system DDRAN-OIW~ Drains: organic industrial waste - system DDRAN-OLW~ Drains: organic liquid waste - system DDRAN-OSW~ Drains: organic solvent waste - system DDRAN-PHRC Drains: phosphoric acid reclaim - system DDRAN-PSW~ Drains: photo solvent waste - system DDRAN-PSW~ Drains: photo solvent waste - system DDRAN-SDD~ Drains: scrubber duct drains - system	D□-DRAN-EGW~	Drains: ethylene glycol waste - system
D□-DRAN-MW~ Drains: metals waste - system D□-DRAN-NPWR Drains: non-potable water reuse - system D□-DRAN-OIW~ Drains: organic industrial waste - system D□-DRAN-OLW~ Drains: organic liquid waste - system D□-DRAN-OSW~ Drains: organic solvent waste - system D□-DRAN-PHRC Drains: phosphoric acid reclaim - system D□-DRAN-PSW~ Drains: photo solvent waste - system D□-DRAN-SDD~ Drains: scrubber duct drains - system	D□-DRAN-HFW~	Drains: hydrofluoric waste - system
D□-DRAN-NPWR Drains: non-potable water reuse - system D□-DRAN-OIW~ Drains: organic industrial waste - system D□-DRAN-OLW~ Drains: organic liquid waste - system D□-DRAN-OSW~ Drains: organic solvent waste - system D□-DRAN-PHRC Drains: phosphoric acid reclaim - system D□-DRAN-PSW~ Drains: photo solvent waste - system D□-DRAN-SDD~ Drains: scrubber duct drains - system	D□-DRAN-IW~~	Drains: industrial waste - system
D□-DRAN-OIW~ Drains: organic industrial waste - system D□-DRAN-OLW~ Drains: organic liquid waste - system D□-DRAN-OSW~ Drains: organic solvent waste - system D□-DRAN-PHRC Drains: phosphoric acid reclaim - system D□-DRAN-PSW~ Drains: photo solvent waste - system D□-DRAN-SDD~ Drains: scrubber duct drains - system	D□-DRAN-MW~~	Drains: metals waste - system
D□-DRAN-OLW~ Drains: organic liquid waste - system D□-DRAN-OSW~ Drains: organic solvent waste - system D□-DRAN-PHRC Drains: phosphoric acid reclaim - system D□-DRAN-PSW~ Drains: photo solvent waste - system D□-DRAN-SDD~ Drains: scrubber duct drains - system	D□-DRAN-NPWR	Drains: non-potable water reuse - system
D□-DRAN-OSW~ Drains: organic solvent waste - system D□-DRAN-PHRC Drains: phosphoric acid reclaim - system D□-DRAN-PSW~ Drains: photo solvent waste - system D□-DRAN-SDD~ Drains: scrubber duct drains - system	D□-DRAN-OIW~	Drains: organic industrial waste - system
D□-DRAN-PHRC Drains: phosphoric acid reclaim - system D□-DRAN-PSW~ Drains: photo solvent waste - system D□-DRAN-SDD~ Drains: scrubber duct drains - system	D□-DRAN-OLW~	Drains: organic liquid waste - system
D□-DRAN-PSW~ Drains: photo solvent waste - system D□-DRAN-SDD~ Drains: scrubber duct drains - system	D□-DRAN-OSW~	Drains: organic solvent waste - system
D□-DRAN-SDD~ Drains: scrubber duct drains - system	D□-DRAN-PHRC	Drains: phosphoric acid reclaim - system
	D□-DRAN-PSW~	Drains: photo solvent waste - system
D□-DRAN-SLW~ Drains: slurry waste - system	D□-DRAN-SDD~	Drains: scrubber duct drains - system
	D□-DRAN-SLW~	Drains: slurry waste - system

D□-DRAN-SULF	Drains: sulfuric acid - system
D _D -DRAN-SULR	Drains: sulfuric acid reclaim - system
D _□ -DRAN-SW~~	Drains: solvent waste - system
D _D -DRAN-SWF~	Drains: solvent waste flammable - system
D _D -DRAN-SWNF	Drains: solvent waste non-flammable - system
D _□ -EXHS-AMEX	Exhaust: ammonia exhaust - system
D ₀ -EXHS-AREX	Exhaust: arsenic exhaust - system
D ₀ -EXHS-HTEX	Exhaust: heat exhaust - system
D ₀ -EXHS-SCEX	Exhaust: scrubber exhaust - system
D _D -EXHS-SVEX	<u>-</u>
	Exhaust: solvent exhaust - system
D□-GAS~-AR~~	Gas: argon - system
D□-GAS~-ARB~	Gas: argon bulk - system
D□-GAS~-BUT~	Gas: butane - system
D□-GAS~-CLG~	Gas: chlorine gas - system
D□-GAS~-H2~~	Gas: hydrogen - system
D□-GAS~-HE~~	Gas: helium - system
D□-GAS~-HPN2	Gas: high purity nitrogen - system
D□-GAS~-HPO2	Gas: high purity oxygen - system
D□-GAS~-LCHE	Gas: leak check helium - system
D□-GAS~-N2~~	Gas: nitrogen - system
D□-GAS~-N2O~	Gas: nitrous oxide - system
D□-GAS~-NG~~	Gas: natural gas - system
D□-GAS~-O2~~	Gas: oxygen - system
D□-GAS~-PRO~	Gas: propane - system
D□-GAS~-SG~~	Gas: specialty gas - system
D□-GAS~-UN2~	Gas: utility nitrogen - system
D□-GAS~-VN2~	Gas: venturi nitrogen - system
D□-GAS~-WAR~	Gas: weld argon - system
D□-LIQD-LPG~	Liquid: liquid petroleum gas - system
D□-OIL~-LO~~	Oil: lube oil - system
D _□ -PIPE	Piping
D□-PIPE-CNTR	Piping: center
D□-PIPE-EQPM	Piping: equipment
D□-PIPE-HDLN	Piping: hidden line
D□-PIPE-MISC	Piping: miscellaneous
D□-PIPE-PATT	Piping: texture and hatch patterns
D□-PIPE-UGND	Piping: underground
D□-SLUR-SLR~	Slurry: slurry return - system
D□-SLUR-SLS~	Slurry: slurry supply - system
D□-VACU-CLV~	Vacuum: chlorine vacuum - system
	·

D□-VACU-CV~~	Vacuum: chemical vacuum - system
D□-VACU-EV~~	Vacuum: equipment vacuum - system
D□-VACU-HV~~	Vacuum: house vacuum - system
D□-VACU-HVA~	Vacuum: arsenic house vacuum - system
D□-VACU-PV~~	Vacuum: vacuum - system
D□-WATR-BFW~	Water: boiler feed water - system
D□-WATR-DIR~	Water: deionized water return - system
D□-WATR-DIS~	Water: deionized water supply - system
D□-WATR-DIWP	Water: DI polishing loop - system
D□-WATR-FW~~	Water: fire water - system
D□-WATR-HDIR	Water: hot DI return - system
D□-WATR-HDIS	Water: hot DI supply - system
D□-WATR-HDRC	Water: hot DI reclaim - system
D□-WATR-HPDR	Water: high pH DI return - system
D□-WATR-HPDS	Water: high pH DI supply - system
D□-WATR-ICW~	Water: industrial city water - system
D□-WATR-NPW~	Water: non-potable water - system
D□-WATR-PCWR	Water: cooling water return - system
D□-WATR-PCWS	Water: cooling water supply - system
D□-WATR-PW~~	Water: potable water - system
D□-WATR-RO~~	Water: reverse osmosis water - system
D□-WATR-ROR~	Water: reverse osmosis reject water - system
D□-WATR-TDIR	Water: tempered DI return - system
D□-WATR-TDIS	Water: tempered DI supply - system
D□-WATR-TW~~	Water: tempered water - system
D _□ -WATR-UPRW	Water: ultra pure recycle water - system
D□-WATR-UPW~	Water: ultra pure water - system

5.17 RESOURCE LAYER LIST

Resource Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Resource Discipline Designators

Designator	Description
R	Resource
RA	Resource Architectural
RC	Resource Civil

RE	Resource Electrical
RM	Resource Mechanical
RR	Resource Real Esate
RS	Resource Structural
RJ	User Defined
RK	User Defined

Resource Layer List

ayer Name	Description
R□-INGR	Ingrants
R□-INGR-ESMT	Ingrants: easement
R□-INGR-LEAS	Ingrants: lease
R□-INGR- LICN	Ingrants: license
R□-INGR-PMIT	Ingrants: permit
R□-INGR-RSRV	Ingrants: reservation
R□-LAND	Land
R□-LAND-ALOC	Land: allocation
R□-LAND-CLAS	Land: classification
R□-OTGR	Outgrants
R□-OTGR-LEAS	Outgrants: lease
R□-OTGR-LICN	Outgrants: license
R□-OTGR-PMIT	Outgrants: permit
R□-OTGR-RSRV	Outgrants: reservation
R _□ -PROP	Property
R□-PROP-PRCL	Property: parcels
R□-PROP-TAKE	Property: taking lines
R□-PROP-TAKE-ELEV	Property: taking lines: elevations
R□-PROP-TRAC	Property: tract lines
R□-PROP-TRAC-DFEE	Property: tract lines: disposed fee
R□-PROP-TRAC-FEE~	Property: tract lines: fee
R□-PROP-TRAC-LFEE	Property: tract lines: disposed less than fee
R□-PROP-TRAC-NFEE	Property: tract lines: non-fee

5.18 STRUCTURAL LAYER LIST

Structural Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Structural Discipline Designators

Designator	Description
S	Structural
SB	Structural Substructure
SD	Structural Demolition
SF	Structural Framing
SS	Structural Site
SJ	User Defined
SK	User Defined

Structural Layer List

Laver Name	Description
Layer Name	Description
S□-ALGN	Alignment
S□-BEAM	Beams
S□-BEAM-ALUM	Beams: aluminum
S□-BEAM-CONC	Beams: concrete
S□-BEAM-STEL	Beams: steel
S□-BEAM-WOOD	Beams: wood
S□-BRCG	Bracing
S□-BRCG-ALUM	Bracing: aluminum
S□-BRCG-ALUM-HORZ	Bracing: aluminum: horizontal
S□-BRCG-ALUM-VERT	Bracing: aluminum: vertical
S□-BRCG-METL	Bracing: metal
S□-BRCG-STEL	Bracing: steel
Sn-BRCG-STEL-HORZ	Bracing: steel: horizontal
Sn-BRCG-STEL-VERT	Bracing: steel: vertical
S□-BRCG-WOOD	Bracing: wood
S□-BRCG-WOOD-HORZ	Bracing: wood: horizontal
S□-BRCG-WOOD-VERT	Bracing: wood: vertical
S□-COLS	Columns
S□-COLS-ABLT	Columns: anchor bolts
Sn-COLS-ALUM	Columns: aluminum
S□-COLS-CONC	Columns: concrete
Sn-COLS-STEL	Columns: steel
S□-COLS-WOOD	Columns: wood
S□-DECK	Deck
S□-DECK-FLOR	Deck: floor

S□-DECK-FLOR-OPNG	Deck: floor: openings
S□-DECK-ROOF	Deck: roof
S□-DECK-ROOF-OPNG	Deck: roof: openings
S _□ -DETL	Detail
S□-DETL-HSSS	Detail: hollow structural steel
S□-DETL-PLYW	Detail: plywood
S□-DETL-W2XS	Detail: dimension lumber
S□-FNDN	Foundation
S□-FNDN-FTNG	Foundation: footings
S□-FNDN-GRBM	Foundation: grade beams
S□-FNDN-PCAP	Foundation: pile caps
S□-FNDN-PIER	Foundation: drilled piers
S□-FNDN-PILE	Foundation: piles
S□-FNDN-RBAR	Foundation: reinforcing bar
S□-FNDN-RBAR-BOT1	Foundation: reinforcing bar: bottom group 1
S□-FNDN-RBAR-BOT2	Foundation: reinforcing bar: bottom group 2
S□-FNDN-RBAR-TOP1	Foundation: reinforcing bar: top group 1
S□-FNDN-RBAR-TOP2	Foundation: reinforcing bar: top group 2
S□-FRAM	Braced frame or moment frame
S□-FSTN	Fasteners and connections
S□-GATE	Gate
S□-GRID	Grids
S□-GRID-EXTR	Grids: exterior
S□-GRID-INTR	Grids: interior
S□-GRLN	Grade line
S□-GRLN-SURF	Grade line: surface areas
S□-GRTG	Grating
S□-GRTG-OVHD	Grating: overhead
S□-HYDR	Hydraulic structure
S□-JNTS	Joints
S□-JNTS-CNTJ	Joints: construction joint
S□-JNTS-CTLJ	Joints: control joint
S□-JNTS-EXPJ	Joints: expansion joint
S□-JOIS	Joists
S□-JOIS-BRGX	Joists: bridging
S□-LNTL	Lintels
S□-PADS	Pads
S□-PADS-EQPM	Pads: equipment
S□-PLAT	Platform
S□-PLAT-FRMG	Platform: framing

S□-PLAT-GRTG	Platform: grating
S□-SIGN	Sign
S□-SIGN-BOUY	Sign: bouy
S□-SIGN-FRMG	Sign: framing
S□-SIGN-GAGE	Sign: gauge (staff)
S□-SIGN-TEXT	Sign: signage text
S□-SIGN-XTRU	Sign: extrusion
S□-SLAB	Slab
S□-SLAB-CONC	Slab: concrete
S□-SLAB-EDGE	Slab: edge
S□-SLAB-OPNG	Slab: openings (and depressions)
S□-SLAB-OPNX	Slab: opening indication ("x")
S□-SLAB-STEL	Slab: steel
S□-SLAB-WOOD	Slab: wood
S□-STIF	Stiffener
S□-STIF-LONG	Stiffener: longitudinal
S□-STIF-TRAV	Stiffener: transverse
S□-STRS	Stairs
S□-STRS-LADD	Stairs: ladders & ladder assemblies
S□-TRUS	Trusses
S□-WALL	Walls
S□-WALL-ABOV	Walls: above
S□-WALL-CMUW	Walls: concrete masonry unit
S□-WALL-CONC	Walls: concrete
S□-WALL-MSNW	Walls: masonry
S□-WALL-PCST	Walls: pre-cast concrete
S□-WALL-SHEA	Walls: structural bearing or shear walls
S□-WALL-STEL	Walls: steel stud
S□-WALL-VENR	Walls: veneer
S□-WALL-WOOD	Walls: wood

5.19 SURVEY/MAPPING LAYER LIST

Survey/Mapping Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Survey/Mapping Discipline Designators

Designator	Description

V	Survey/Mapping
VA	Survey/Mapping Aerial
VC	Survey/Mapping Computated Points
VF	Survey/Mapping Field
VI	Survey/Mapping Digital
VN	Survey/Mapping Node Points
VS	Survey/Mapping Staked Points
VU	Survey/Mapping Combined Utilities
VJ	User Defined
VK	User Defined

Survey/Mapping Layer List

Layer Name	Description
V□-BLDG	Buildings and primary structures
V□-BLDG-DECK	Buildings and primary structures: deck (attached, no roof overhead)
V□-BLDG-OTLN	Buildings and primary structures: outline
V□-BLDG-OVHD	Buildings and primary structures: overhead
V□-BLDG-PRCH	Buildings and primary structures: porch (attached, roof overhead)
V□-BNDY	Political boundaries
V□-BNDY-BORO	Political boundaries: borough
V□-BNDY-CITY	Political boundaries: city
V□-BNDY-CNTY	Political boundaries: county
V□-BNDY-CORP	Political boundaries: corporation
V□-BNDY-NATL	Political boundaries: national
V□-BNDY-PROV	Political boundaries: province
V□-BNDY-STAT	Political boundaries: state
V□-BNDY-TSHP	Political boundaries: town or township
V□-BNDY-ZONE	Political boundaries: zoning
V□-BORE	Borings
V□-BRDG	Bridge
V□-BRDG-BENT	Bridge: top of bent
V□-BRDG-CNTR	Bridge: center
V□-BRDG-CTLJ	Bridge: control joint
V□-BRDG-DECK	Bridge: deck
V□-BRDG-GRAL	Bridge: guard rail
V□-BRKL	Break/fault lines
V□-BRKL-BOTB	Break/fault lines: bottom of bank

V□-BRKL-FLOW	Break/fault lines: flowline (lowest point of ditch)
V□-BRKL-TOPB	Break/fault lines: top of bank
V□-BRLN	Building restriction line
V□-BZNA	Buffer zone area
V□-CHAN	Navigable channels
V□-CHAN-BWTR	Navigable channels: breakwater
V□-CHAN-CNTR	Navigable channels: center
V□-CHAN-DACL	Navigable channels: de-authorized channel limits, anchorages, etc.
V□-CHAN-DOCK	Navigable channels: decks, docks, floats, piers
V□-CHAN-NAID	Navigable channels: navigation aids
V□-COMM	Communications
V□-COMM-MHOL	Communications: manhole
V□-COMM-OVHD	Communications: overhead
V□-COMM-POLE	Communications: pole
V□-COMM-UGND	Communications: underground
V□-CTRL	Control points
V□-CTRL-BMRK	Control points: benchmarks
V□-CTRL-FLYS	Control points: fly station
V□-CTRL-GRID	Control points: grid
V□-CTRL-HORZ	Control points: horizontal
V□-CTRL-HVPT	Control points: horizontal/vertical
V□-CTRL-PNPT	Control points: panel points
V□-CTRL-TRAV	Control points: transverse
V□-CTRL-VERT	Control points: vertical
V□-DRIV	Driveways
V□-DRIV-ASPH	Driveways: asphalt
V□-DRIV-CNTR	Driveways: center
V□-DRIV-CONC	Driveways: concrete
V□-DRIV-CURB	Driveways: curb
V□-DRIV-FLNE	Driveways: fire lane
V□-DRIV-GRVL	Driveways: gravel
V□-DRIV-MRKG	Driveways: pavement markings
V□-DRIV-UPVD	Driveways: unpaved surface
V□-DTCH	Ditches or washes
V□-DTCH-BOTM	Ditches or washes: bottom
V□-DTCH-CNTR	Ditches or washes: center
V□-DTCH-EWAT	Ditches or washes: edge of water
V□-DTCH-TOP~	Ditches or washes: top
V□-ESMT	Easements
V□-ESMT-ACCS	Easements: access (pedestrian only; private access)

V□-ESMT-CATV	Easements: cable television system
V□-ESMT-CONS	Easements: conservation
V□-ESMT-CSTG	Easements: construction/grading
V□-ESMT-ELEC	Easements: electrical
V□-ESMT-FDPL	Easements: flood plain
V□-ESMT-INEG	Easements: ingress/egress (vehicles; private access)
V□-ESMT-LSCP	Easements: landscape
V□-ESMT-NGAS	Easements: natural gas line
V□-ESMT-PHON	Easements: telephone line
V□-ESMT-ROAD	Easements: roadway
V□-ESMT-ROAD-PERM	Easements: roadway: permanent
V□-ESMT-ROAD-TEMP	Easements: roadway: temporary
V□-ESMT-RWAY	Easements: right-of-way (public access)
V□-ESMT-SGHT	Easements: sight distance
V□-ESMT-SSWR	Easements: sanitary sewer
V□-ESMT-STRM	Easements: storm sewer
V□-ESMT-SWMT	Easements: storm water management
V□-ESMT-TRAL	Easements: trail or path (public access)
V□-ESMT-UTIL	Easements: utility lines
V□-ESMT-WATR	Easements: water supply
V□-FLHA	Flood hazard area
V□-FUEL	Fuel systems
V□-FUEL-MHOL	Fuel systems: manhole
V□-FUEL-PIPE	Fuel systems: piping
V□-FUEL-TANK	Fuel systems: storage tanks
V□-FUEL-UGND	Fuel systems: underground
V□-NGAS	Natural gas systems
V□-NGAS-MHOL	Natural gas systems: manhole
V□-NGAS-PIPE	Natural gas systems: piping
V□-NGAS-TANK	Natural gas systems: storage tanks
V□-NGAS-UGND	Natural gas systems: underground
V□-NODE	Node
V□-NODE-ABUT	Node: abutment
V□-NODE-ACTL	Node: aerial horizontal and vertical control points
V□-NODE-BLDG	Node: building points
V□-NODE-BLIN	Node: baseline
V□-NODE-BRDG	Node: bridge survey points
V□-NODE-BRKL	Node: break lines, spot elev. points and lines for creation of break lines as top of bank
V□-NODE-BROW	Node: brush row points

V□-NODE-BRSH	Node: brush points
V _□ -NODE-CABL	Node: underground cable systems
V□-NODE-CURB	Node: curb
V _□ -NODE-DASP	Node: description attributes for survey points
V _□ -NODE-DECK	Node: deck
V□-NODE-DECK V□-NODE-DRIV	
V□-NODE-BRIV V□-NODE-EASP	Node: driveway
	Node: elevation attributes for survey points
V□-NODE-EXPJ	Node: expansion joint
V□-NODE-GRND	Node: ground
V□-NODE-MHOL	Node: manhole
V□-NODE-MRKG	Node: pavement markings (yellow/white stripes)
V□-NODE-NGAS	Node: natural gas line
V□-NODE-PASP	Node: point number attributes for survey points
V□-NODE-PIPE	Node: piping (driveway/roadway culverts)
V□-NODE-POLE	Node: pole (power, telephone, etc.)
V□-NODE-PVMT	Node: pavement
V□-NODE-SIGN	Node: signage
V□-NODE-SSWR	Node: sanitary sewer
V□-NODE-STRM	Node: storm sewer
V□-NODE-SWLK	Node: sidewalks
V□-NODE-TREE	Node: tree
V□-NODE-TROW	Node: tree row
V□-NODE-WATR	Node: water supply
V□-POWR	Power
V□-POWR-FENC	Power: fences
V□-POWR-INST	Power: instrumentation (meters, transformers)
V□-POWR-MHOL	Power: manhole
V□-POWR-OVHD	Power: overhead
V□-POWR-POLE	Power: pole
V□-POWR-STRC	Power: structures
V□-POWR-UGND	Power: underground
V□-PRKG	Parking lots
V□-PRKG-ASPH	Parking lots: asphalt
V□-PRKG-CNTR	Parking lots: center
V□-PRKG-CONC	Parking lots: concrete
V□-PRKG-CURB	Parking lots: curb
V□-PRKG-DRAN	Parking lots: drainage slope indications
V□-PRKG-FLNE	Parking lots: fire lane
V□-PRKG-GRVL	Parking lots: gravel
V□-PRKG-MRKG	Parking lots: pavement markings

V□-PRKG-STRP	Parking lots: striping
V□-PRKG-UPVD	Parking lots: unpaved surface
V□-PROP	Property
V□-PROP-LINE	Property: lines
V□-PROP-QTRS	Property: quarter section
V□-PROP-RSRV	Property: reservation
V□-PROP-SBCK	Property: setback lines
V□-PROP-SECT	Property: section
V□-PROP-SUBD	Property: subdivision (interior) lines
V□-PROP-SXTS	Property: sixteenth section
V□-PVMT	Pavement
V□-PVMT-ASPH	Pavement: asphalt
V□-PVMT-CONC	Pavement: concrete
V□-PVMT-GRVL	Pavement: gravel
V□-RAIL	Railroad
V□-RAIL-CNTR	Railroad: center
V□-RAIL-EQPM	Railroad: equipment (gates, signals, etc.)
V□-RAIL-TRAK	Railroad: track
V□-RIVR	River
V□-RIVR-BOTM	River: bottom
V□-RIVR-CNTR	River: center
V□-RIVR-EDGE	River: edge
V□-RIVR-TOPB	River: top of bank
V□-ROAD	Roadways
V□-ROAD-ASPH	Roadways: asphalt
V□-ROAD-CNTR	Roadways: center
V□-ROAD-CONC	Roadways: concrete
V□-ROAD-CURB	Roadways: curb
V□-ROAD-FLNE	Roadways: fire lane
V□-ROAD-GRVL	Roadways: gravel
V□-ROAD-MRKG	Roadways: pavement markings
V□-ROAD-UPVD	Roadways: unpaved surface
V□-RRAP	Riprap
V□-RWAY	Right-of-way
V□-RWAY-CNTR	Right-of-way: center
V□-RWAY-CTLA	Right-of-way: controlled access
V□-RWAY-LINE	Right-of-way: lines
V□-RWAY-LMTA	Right-of-way: limited access
V□-RWAY-MRKR	Right-of-way: marker
V□-RWAY-STAN	Right-of-way: stationing

V□-SITE	Site features
V□-SITE-EWAT	Site features: edge of water
V□-SITE-FENC	Site features: fences
V□-SITE-ROCK	Site features: large rocks and rock outcroppings
V□-SITE-RTWL	Site features: retaining wall
V□-SITE-SIGN	Site features: signage
V□-SITE-VEGE	Site features: trees, shrubs, and other vegetation
V□-SSWR	Sanitary sewer
V□-SSWR-MHOL	Sanitary sewer: manhole
V□-SSWR-PIPE	Sanitary sewer: piping
V□-SSWR-STRC	Sanitary sewer: structures
V□-SSWR-UGND	Sanitary sewer: underground
V□-STEM	Steam system
V□-STEM-INST	Steam system: instrumentation (meters, valves, pumps)
V□-STEM-MHOL	Steam system: manhole
V□-STEM-PIPE	Steam system: piping
V□-STEM-STRC	Steam system: structures
V□-STEM-UGND	Steam system: underground
V□-STRM	Storm sewer
V□-STRM-DTCH	Storm sewer: ditches or washes
V□-STRM-MHOL	Storm sewer: manhole
V□-STRM-PIPE	Storm sewer: piping
V□-STRM-POND	Storm sewer: retention pond
V□-STRM-STRC	Storm sewer: structures
V□-STRM-UGND	Storm sewer: underground
V□-SURV	Survey
V□-SURV-DATA	Survey: data
V□-SWLK	Sidewalks
V□-SWLK-ASPH	Sidewalks: asphalt
V□-SWLK-CONC	Sidewalks: concrete
V□-TOPO	Topographic feature
V□-TOPO-EWAT	Topographic feature: edge of water
V□-TOPO-GRID	Topographic feature: grid
V□-TOPO-MAJR	Topographic feature: major (contours)
V□-TOPO-MINR	Topographic feature: minor (contours)
V□-TOPO-SOUN	Topographic feature: soundings
V□-TOPO-SPOT	Topographic feature: spot elevations
V□-UNID	Unidentified site objects
V□-UNID-CABL	Unidentified site objects: cable systems
V□-UNID-PIPE	Unidentified site objects: piping

V□-UNID-TANK	Unidentified site objects: storage tanks
V□-UNID-UTIL	Unidentified site objects: utility lines
V□-UNID-UTIL-OVHD	Unidentified site objects: utility lines: overhead
V□-UNID-UTIL-UGND	Unidentified site objects: utility lines: underground
V□-WATR	Water supply
V□-WATR-INST	Water supply: instrumentation (meters, valves, pumps)
V□-WATR-MHOL	Water supply: manhole
V□-WATR-PIPE	Water supply: piping
V□-WATR-STRC	Water supply: structures
V□-WATR-UGND	Water supply: underground
	· · · · · · · · · · · · · · · · · · ·

5.20 TELECOMMUNICATIONS LAYER LIST

Telecommunications Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Telecommunications Discipline Designators

Designator	Description
Т	Telecommunications
TA	Audio Visual
TC	Clock and Program
TI	Intercom
TM	Monitoring
TN	Data Networks
ТТ	Telephone
TY	Security
TJ	User Defined
TK	User Defined

Telecommunications Layer List

ayer Name	Description
T□-ALRM	Alarm system
T□-BCST	Broadcast-related system (radio or TV)
T ₀ -BELL	Bell system
T□-CABL	Cable systems
T□-CABL-COAX	Cable systems: coax cable

Tn-CABL-MULT Cable systems: multi-conductor cable Tn-CABL-TRAY Cable systems: cable tray and wireways Tn-CATV Cable television system Tn-CCTV Closed-circuit television system Tn-CLOK Clock system: circuits Tn-CLOK-CIRG Clock system: circuits Tn-CLOK-CIRG Clock system: circuit number Tn-CLOK-CING Clock system: circuit number Tn-CLOK-CING Clock system: equipment Tn-CLOK-CING Clock system: equipment Tn-CLOK-CING Clock system: wall Tn-CLOK-CING Clock system: wall Tn-COMM Communications: circuits Tn-COMM-CING Communications: circuit number Tn-COMM-CING Communications: devices Tn-COMM-CING Communications: wall Tn-CONT Controls and instrumentation Tn-CONT-DEVC Controls and instrumentation: devices Tn-CONT-WIRE Controls and instrumentation: devices Tn-DATA Data/LAN system: circuits Tn-DATA-CING Data/LAN system: circuits Tn-DATA-CING Data/LAN system: circuit number Tn-DATA-CING Diagrams Tn-DIAG-EQPM Diagrams Tn-DIAG-EQPM Diagrams Tn-DIAG-EQPM Diagrams Tn-DICT-CING Dictation system: circuit Tn-DICT-CING Dictation system: circuit number	T□-CABL-FIBR	Cable systems: fiber optics cable
Tra-CATV Cable television system Tra-CCTV Closed-circuit television system Tra-CLOK Clock system: circuits Tra-CLOK-CIRC Clock system: circuits Tra-CLOK-CING Clock system: circuit number Tra-CLOK-CNMB Clock system: circuit number Tra-CLOK-CNMB Clock system: equipment Tra-CLOK-FLOR Clock system: equipment Tra-CLOK-FLOR Clock system: equipment Tra-CLOK-WALL Clock system: wall Tra-COMM Communications: circuit number Tra-COMM-CIRC Communications: circuit number Tra-COMM-CING Communications: circuit number Tra-COMM-CNMB Communications: circuit number Tra-COMM-CNMB Communications: circuit number Tra-COMM-CNMB Communications: wall Tra-CONT Controls and instrumentation: Tra-CONT Controls and instrumentation: devices Tra-CONT-DEVC Controls and instrumentation: wiring Tra-DATA Data/LAN system: Tra-DATA-CIRC Data/LAN system: circuits Tra-DATA-CIRC Data/LAN system: circuit number Tra-DATA-CING Data/LAN system: equipment Tra-DATA-CING Data/LAN system: equipment Tra-DATA-CING Data/LAN system: equipment Tra-DATA-CING Data/LAN system: equipment Tra-DATA-CING Diagrams: equipment Tra-DATA-CING Diagrams: equipment Tra-DIAG-EOPM Diagrams: equipment Tra-DIAG-EOPM Diagrams: equipment Tra-DIAG-EOPM Diagrams: equipment Tra-DIAG-EOPM Diagrams: equipment Tra-DICT-CING Dictation system: circuit number	T ₋ -CABL-MULT	Cable systems: multi-conductor cable
TD-CCTV Closed-circuit television system TD-CLOK Clock system TD-CLOK-CIRC Clock system: circuits TD-CLOK-CLNG Clock system: circuit number TD-CLOK-CLNG Clock system: circuit number TD-CLOK-CNMB Clock system: circuit number TD-CLOK-COMM Clock system: equipment TD-CLOK-EQPM Clock system: floor TD-CLOK-EQPM Clock system: start system: floor TD-CLOK-EQPM Clock system: wall TD-COMM Communications TD-COMM-CIRC Communications: circuits TD-COMM-CLNG Communications: circuit number TD-COMM-CLNG Communications: circuit number TD-COMM-CLNG Communications: circuit number TD-COMM-CLNG Communications: circuit number TD-COMM-CLNG Communications: wall TD-COMM-CLNG Communications: wall TD-COMM-CLNG Communications: wall TD-COMM-CLNG Communications: wall TD-CONT Controls and instrumentation TD-CONT Controls and instrumentation: devices TD-CONT-DEVC Controls and instrumentation: devices TD-CONT-WIRE Controls and instrumentation: wiring TD-DATA Data/LAN system TD-DATA-CIRC Data/LAN system: circuits TD-DATA-CIRC Data/LAN system: circuit number TD-DATA-CIRC Data/LAN system: circuit number TD-DATA-CIRC Data/LAN system: circuit number TD-DATA-CIRC Data/LAN system: equipment TD-DATA-CIRC Data/LAN system: gloor TD-DATA-CIRC Data/LAN system: gloor TD-DATA-CIRC Data/LAN system: wall TD-DATA-CIRC Data/LAN system: wall TD-DATA-CIRC Data/LAN system: wall TD-DATA-CIRC Data/LAN system: wall TD-DIAG-EOPM Diagrams: equipment TD-DIAG-EOPM Diagrams: equipment TD-DIAG-EOPM Diagrams: equipment TD-DIAG-EOPM Diagrams: circuits TD-DIAG-EOPM Diagrams: circuits TD-DIAG-EOPM Diagrams: circuit number TD-DICT-CIRC Dictation system: circuit number	T□-CABL-TRAY	Cable systems: cable tray and wireways
TD-CLOK Clock system TD-CLOK-CIRC Clock system: circuits TD-CLOK-CLNG Clock system: circuit number TD-CLOK-CNMB Clock system: circuit number TD-CLOK-EQPM Clock system: equipment TD-CLOK-EQPM Clock system: equipment TD-CLOK-FLOR Clock system: wall TD-CLOK-FLOR Clock system: wall TD-COMM Communications TD-COMM-CIRC Communications: circuits TD-COMM-CLNG Communications: circuits TD-COMM-CNMB Communications: circuit number TD-COMM-CNMB Communications: circuit number TD-COMM-CNMB Communications: circuit number TD-COMM-CNMB Communications: wall TD-CONT TD-COMM-FLOR TD-COMM-FLOR TD-CONT TD-CONT TD-CONT TD-CONT TD-CONT TD-CONT TD-CONT TD-CONT-DEVC TD-CONT-DEVC TD-CONT-WIRE TD-DATA TD-DATA TD-DATA TD-DATA TD-DATA TD-DATA TD-DATA TD-DATA TD-DATA-CLNG TD-DATA-LOR TD-DATA-CLNG TD-DAT	T ₋ -CATV	Cable television system
Ta-CLOK-CIRC Clock system: circuits Ta-CLOK-CLNG Clock system: circuit number Ta-CLOK-CNMB Clock system: equipment Ta-CLOK-EQPM Clock system: equipment Ta-CLOK-FLOR Clock system: equipment Ta-CLOK-FLOR Clock system: wall Ta-COMM Communications Ta-COMM Communications: circuits Ta-COMM-CIRC Communications: circuits Ta-COMM-CNMB Communications: circuit number Ta-COMM-CNMB Communications: circuit number Ta-COMM-CNMB Communications: equipment Ta-COMM-EOPM Communications: equipment Ta-COMM-FLOR Communications: wall Ta-CONT Controls and instrumentation Ta-CONT Controls and instrumentation: devices Ta-CONT-WIRE Controls and instrumentation: wiring Ta-DATA Data/LAN system Ta-DATA-CIRC Data/LAN system: circuits Ta-DATA-CLNG Data/LAN system: circuit number Ta-DATA-CNMB Data/LAN system: circuit number Ta-DATA-COMB Data/LAN system: equipment Ta-DATA-FLOR Data/LAN system: floor Ta-DATA-FLOR Data/LAN system: gacks Ta-DATA-FLOR Data/LAN system: wall Ta-DATA-FLOR Data/LAN system: wall Ta-DATA-FLOR Data/LAN system: gacks Ta-DATA-FLOR Data/LAN system: gacks Ta-DATA-GNDL Diagrams Ta-DIAG-ENCL Diagrams: equipment Ta-DIAG-EOPM Diagrams: equipment Ta-DICT-CIRC Dictation system: circuit number Ta-DICT-CIRC Dictation system: circuit number Ta-DICT-CIRC Dictation system: circuit number	T ₋ -CCTV	Closed-circuit television system
Tc-CLOK-CLNG Clock system: circuit number Tc-CLOK-CNMB Clock system: circuit number Tc-CLOK-EQPM Clock system: equipment Tc-CLOK-FLOR Clock system: floor Tc-CLOK-WALL Clock system: wall Tc-COMM Communications Tc-COMM Communications: circuits Tc-COMM-CIRC Communications: circuits Tc-COMM-CNMB Communications: circuit number Tc-COMM-CNMB Communications: circuit number Tc-COMM-EQPM Communications: equipment Tc-COMM-EQPM Communications: wall Tc-COMM-WALL Communications: wall Tc-CONT Controls and instrumentation Tc-CONT-DEVC Controls and instrumentation: devices Tc-CONT-WIRE Controls and instrumentation: wiring Tc-DATA Data/LAN system Tc-DATA-CIRC Data/LAN system: circuits Tc-DATA-CLNG Data/LAN system: circuit number Tc-DATA-CNMB Data/LAN system: circuit number Tc-DATA-EQPM Data/LAN system: floor Tc-DATA-FLOR Data/LAN system: floor Tc-DATA-FLOR Data/LAN system: packs Tc-DATA-FLOR Data/LAN system: wall Tc-DATA-FLOR Data/LAN system: wall Tc-DATA-FLOR Data/LAN system: glock Tc-DATA-WALL Data/LAN system: wall Tc-DATA-FLOR Data/LAN system: glock Tc-DATA-WALL Data/LAN system: glock Tc-DATA-WALL Data/LAN system: spound Tc-DIAG-EQPM Diagrams: equipment Tc-DICT-CIRC Dictation system: circuit number Tc-DICT-CIRC Dictation system: circuit number Tc-DICT-CIRC Dictation system: circuit number	T ₋ -CLOK	Clock system
Ta-CLOK-CNMB Clock system: circuit number Ta-CLOK-EQPM Clock system: equipment Ta-CLOK-FLOR Clock system: floor Ta-CLOK-WALL Clock system: wall Ta-COMM Communications Ta-COMM-CIRC Communications: circuits Ta-COMM-CIRC Communications: circuit number Ta-COMM-CIRG Communications: circuit number Ta-COMM-CIRG Communications: circuit number Ta-COMM-CIRG Communications: equipment Ta-CONT-COMM-CIRG Communications: wall Ta-CONT Controls and instrumentation Ta-CONT-DEVC Controls and instrumentation: devices Ta-CONT-WIRE Controls and instrumentation: wiring Ta-DATA Data/LAN system Ta-DATA-CIRC Data/LAN system: circuits Ta-DATA-CIRC Data/LAN system: circuit number Ta-DATA-CIRG Data/LAN system: circuit number Ta-DATA-CIRG Data/LAN system: equipment Ta-DATA-FLOR Data/LAN system: equipment Ta-DATA-FLOR Data/LAN system: wall Ta-DATA-FLOR Data/LAN system: wall Ta-DATA-JACK Data/LAN system: wall Ta-DATA-WALL Data/LAN system: wall Ta-DATA-WALL Data/LAN system: wall Ta-DATA-GROD Diagrams: equipment Ta-DIAG-GRND Diagrams: equipment Ta-DIAG-GRND Diagrams: equipment Ta-DIAG-GRND Diagrams: ground Ta-DICT-CIRC Dictation system: circuit number Ta-DICT-CIRC Dictation system: circuit number Ta-DICT-CIRC Dictation system: circuit number	T□-CLOK-CIRC	Clock system: circuits
To-CLOK-EQPM Clock system: equipment To-CLOK-FLOR Clock system: floor To-CLOK-WALL Clock system: wall To-COMM Communications To-COMM-CIRC Communications: circuits To-COMM-CING Communications: circuit number To-COMM-CINB Communications: circuit number To-COMM-CINB Communications: circuit number To-COMM-COMM-COMM-COMM-COMM-COMM-COMM-COM	T□-CLOK-CLNG	Clock system: ceiling
Te-CLOK-FLOR Clock system: floor Te-CLOK-WALL Clock system: wall Te-COMM COmmunications Te-COMM-CIRC Communications: circuits Te-COMM-CING Communications: circuit number Te-COMM-CNMB Communications: circuit number Te-COMM-COMME Communications: circuit number Te-COMM-EQPM Communications: floor Te-COMM-FLOR Communications: wall Te-COMM-WALL Communications: wall Te-CONT Controls and instrumentation Te-CONT-DEVC Controls and instrumentation: devices Te-CONT-WIRE Controls and instrumentation: wiring Te-DATA Data/LAN system Te-DATA-CIRC Data/LAN system: circuits Te-DATA-CIRC Data/LAN system: circuit number Te-DATA-CNMB Data/LAN system: circuit number Te-DATA-CNMB Data/LAN system: equipment Te-DATA-FLOR Data/LAN system: floor Te-DATA-JACK Data/LAN system: wall Te-DATA-JACK Data/LAN system: wall Te-DIAG-ENCL Diagrams: equipment Te-DIAG-ENCL Diagrams: equipment Te-DIAG-ERND Diagrams: equipment Te-DIAG-ERND Diagrams: ground Te-DICT-CIRC Dictation system: circuit number Te-DICT-CLNG Dictation system: circuit number	T ₋ -CLOK-CNMB	Clock system: circuit number
Tc-CLOK-WALL Tc-COMM Communications Tc-COMM-CIRC Communications: circuits Tc-COMM-CING Communications: circuits Tc-COMM-CING Communications: circuit number Tc-COMM-CNMB Communications: circuit number Tc-COMM-COMMB Communications: circuit number Tc-COMM-EQPM Communications: circuit number Tc-COMM-EQPM Communications: circuit number Tc-COMM-EQPM Communications: circuit number Tc-COMM-FLOR Communications: wall Tc-COMM-FLOR Communications: wall Tc-COMM-EQPM Communications: wall Tc-COMM-EQPM Communications: wall Tc-COMM-EQPM Communications: circuit number Tc-CONT-DEVC Controls and instrumentation Tc-CONT-DEVC Controls and instrumentation: devices Tc-CONT-DEVC Controls and instrumentation: devices Tc-CONT-DEVC Controls and instrumentation Tc-CONT-DEVC Controls and instrumentation Tc-CONT-DEVC Controls and instrumentation Tc-DATA-CIRC Data/LAN system Circuits Tc-DATA-CIRC Data/LAN system: circuit number Tc-DATA-CIRC Data/LAN system: circuit number Tc-DATA-CIRC Data/LAN system: geuipment Tc-DIAG-ENCL Diagrams: equipment Tc-DIAG-ERND Diagrams: equipment Tc-DIAG-ERND Diagrams: ground Tc-DICT-CIRC Dictation system: circuit number	T□-CLOK-EQPM	Clock system: equipment
Te-COMM COMM-CIRC Communications: circuits Te-COMM-CLNG Communications: circuit number Te-COMM-CNMB Communications: circuit number Te-COMM-EQPM Communications: equipment Te-COMM-FLOR Communications: equipment Te-COMM-FLOR Communications: wall Te-CONT Controls and instrumentation Te-CONT Controls and instrumentation: devices Te-CONT-URE Controls and instrumentation: wiring Te-DATA Data/LAN system Te-DATA Data/LAN system: circuits Te-DATA-CIRC Data/LAN system: circuit number Te-DATA-CNMB Data/LAN system: circuit number Te-DATA-CNMB Data/LAN system: equipment Te-DATA-FLOR Data/LAN system: door Te-DATA-JACK Data/LAN system: wall Te-DATA-WALL Data/LAN system: wall Te-DIAG-ENCL Diagrams Te-DIAG-EQPM Diagrams: equipment Te-DIAG-EQPM Diagrams: equipment Te-DIAG-EQPM Diagrams: equipment Te-DICT-CIRC Dictation system: circuit number Te-DICT-CING Dictation system: circuit number Te-DICT-EQPM Dictation system: circuit number Te-DICT-EQPM Dictation system: circuit number	T ₋ -CLOK-FLOR	Clock system: floor
Tc-COMM-CLNG Communications: circuits Tc-COMM-CLNG Communications: ceiling Tc-COMM-CNMB Communications: circuit number Tc-COMM-EQPM Communications: equipment Tc-COMM-FLOR Communications: mail Tc-COMM-FLOR Communications: wall Tc-CONT Controls and instrumentation Tc-CONT Controls and instrumentation: devices Tc-CONT-URE Controls and instrumentation: wiring Tc-DATA Data/LAN system Tc-DATA CIRC Data/LAN system: circuits Tc-DATA-CLNG Data/LAN system: circuit number Tc-DATA-CNMB Data/LAN system: circuit number Tc-DATA-CANB Data/LAN system: equipment Tc-DATA-FLOR Data/LAN system: floor Tc-DATA-FLOR Data/LAN system: wall Tc-DATA-JACK Data/LAN system: wall Tc-DATA-WALL Data/LAN system: wall Tc-DIAG-ENCL Diagrams Tc-DIAG-EQPM Diagrams: equipment Tc-DIAG-EQPM Diagrams: equipment Tc-DIAG-EQPM Diagrams: equipment Tc-DICT-CIRC Dictation system: circuit number Tc-DICT-CLNG Dictation system: circuit number Tc-DICT-CNMB Dictation system: circuit number	T ₋ -CLOK-WALL	Clock system: wall
TD-COMM-CLNG Communications: ceiling TD-COMM-CNMB Communications: circuit number TD-COMM-EQPM Communications: equipment TD-COMM-FLOR Communications: floor TD-COMM-FLOR Communications: wall TD-CONT Controls and instrumentation TD-CONT Controls and instrumentation: devices TD-CONT-DEVC Controls and instrumentation: wiring TD-DATA Data/LAN system TD-DATA Data/LAN system TD-DATA-CIRC Data/LAN system: circuits TD-DATA-CING Data/LAN system: ceiling TD-DATA-CNMB Data/LAN system: ceiling TD-DATA-CNMB Data/LAN system: equipment TD-DATA-EQPM Data/LAN system: floor TD-DATA-FLOR Data/LAN system: jacks TD-DATA-JACK Data/LAN system: wall TD-DATA-WALL Data/LAN system: wall TD-DIAG Diagrams TD-DIAG-ENCL Diagrams: equipment TD-DIAG-EQPM Diagrams: ground TD-DIAG-GRND Diagrams: ground TD-DICT Dictation system: circuit number TD-DICT-CLNG Dictation system: circuit number TD-DICT-CLNG Dictation system: circuit number TD-DICT-CNMB Dictation system: circuit number TD-DICT-CNMB Dictation system: circuit number	T□-COMM	Communications
TD-COMM-CNMB Communications: circuit number TD-COMM-EQPM Communications: equipment TD-COMM-FLOR Communications: floor TD-COMM-FLOR Communications: wall TD-CONT Controls and instrumentation TD-CONT-DEVC Controls and instrumentation: devices TD-CONT-WIRE Controls and instrumentation: wiring TD-DATA Data/LAN system TD-DATA-CIRC Data/LAN system: circuits TD-DATA-CIRG Data/LAN system: circuit number TD-DATA-CNMB Data/LAN system: equipment TD-DATA-EQPM Data/LAN system: floor TD-DATA-FLOR Data/LAN system: jacks TD-DATA-JACK Data/LAN system: wall TD-DATA-WALL Data/LAN system: wall TD-DIAG Diagrams TD-DIAG-EQPM Diagrams: equipment TD-DIAG-EQPM Diagrams: equipment TD-DIAG-GRND Diagrams: ground TD-DICT-CIRC Dictation system: circuit number TD-DICT-CLNG Dictation system: circuit number	T□-COMM-CIRC	Communications: circuits
TD-COMM-FLOR Communications: equipment TD-COMM-FLOR Communications: floor TD-COMM-WALL COMT CONT CONTOS and instrumentation TD-CONT-DEVC Controls and instrumentation: devices TD-CONT-WIRE CONTOS and instrumentation: wiring TD-DATA Data/LAN system TD-DATA-CIRC Data/LAN system: circuits TD-DATA-CLNG Data/LAN system: circuit number TD-DATA-CNMB Data/LAN system: equipment TD-DATA-COMB Data/LAN system: equipment TD-DATA-FLOR Data/LAN system: packs TD-DATA-JACK Data/LAN system: wall TD-DATA-WALL Data/LAN system: wall TD-DATA-WALL Diagrams TD-DIAG-ENCL Diagrams: equipment TD-DIAG-EQPM Diagrams: equipment TD-DIAG-GRND Diagrams: ground TD-DICT Dictation system TD-DICT-CIRC Dictation system: circuits TD-DICT-CNMB Dictation system: circuit number	T ₋ -COMM-CLNG	Communications: ceiling
TD-COMM-FLOR Communications: wall TD-CONT CONTOS and instrumentation TD-CONT-DEVC Controls and instrumentation: devices TD-CONT-WIRE Controls and instrumentation: wiring TD-DATA Data/LAN system TD-DATA-CIRC Data/LAN system: circuits TD-DATA-CLNG Data/LAN system: ceiling TD-DATA-CNMB Data/LAN system: circuit number TD-DATA-CNMB Data/LAN system: equipment TD-DATA-FLOR Data/LAN system: floor TD-DATA-FLOR Data/LAN system: packs TD-DATA-WALL Data/LAN system: wall TD-DIAG-ENCL Diagrams Diagrams Diagrams: equipment TD-DIAG-ENCL Diagrams: equipment TD-DIAG-GRND Diagrams: ground TD-DICT Dictation system TD-DICT-CIRC Dictation system: circuit number TD-DICT-CNMB Dictation system: circuit number	T ₋ -COMM-CNMB	Communications: circuit number
T□-COMM-WALL T□-CONT Controls and instrumentation T□-CONT-DEVC Controls and instrumentation: devices T□-CONT-WIRE Controls and instrumentation: wiring T□-DATA Data/LAN system T□-DATA-CIRC Data/LAN system: circuits T□-DATA-CLNG Data/LAN system: ceiling T□-DATA-CNMB Data/LAN system: circuit number T□-DATA-CONT Data/LAN system: equipment T□-DATA-FLOR Data/LAN system: floor T□-DATA-JACK Data/LAN system: jacks T□-DATA-WALL Data/LAN system: wall T□-DIAG Diagrams T□-DIAG Diagrams: equipment T□-DIAG-ENCL Diagrams: equipment T□-DIAG-ERND Diagrams: ground T□-DICT Dictation system: circuits T□-DICT-CLNG Dictation system: circuit number T□-DICT-CNMB Dictation system: circuit number T□-DICT-CNMB Dictation system: circuit number T□-DICT-CNMB Dictation system: circuit number D□-DICT-CNMB Dictation system: circuit number	T ₋ -COMM-EQPM	Communications: equipment
T□-CONT Controls and instrumentation T□-CONT-DEVC Controls and instrumentation: devices T□-CONT-WIRE Controls and instrumentation: wiring T□-DATA Data/LAN system T□-DATA-CIRC Data/LAN system: circuits T□-DATA-CLNG Data/LAN system: circuit number T□-DATA-CNMB Data/LAN system: equipment T□-DATA-FLOR Data/LAN system: floor T□-DATA-JACK Data/LAN system: jacks T□-DATA-WALL Data/LAN system: wall T□-DIAG Diagrams T□-DIAG-ENCL Diagrams: equipment T□-DIAG-EQPM Diagrams: ground T□-DICT Dictation system: circuits T□-DICT-CING Dictation system: circuit number T□-DICT-CNMB Dictation system: circuit number T□-DICT-EQPM Dictation system: circuit number	T□-COMM-FLOR	Communications: floor
T□-CONT-DEVC Controls and instrumentation: devices T□-CONT-WIRE Controls and instrumentation: wiring T□-DATA Data/LAN system T□-DATA-CIRC Data/LAN system: circuits T□-DATA-CLNG Data/LAN system: circuit number T□-DATA-CNMB Data/LAN system: equipment T□-DATA-EQPM Data/LAN system: floor T□-DATA-FLOR Data/LAN system: jacks T□-DATA-JACK Data/LAN system: wall T□-DATA-WALL Data/LAN system: wall T□-DIAG Diagrams T□-DIAG-ENCL Diagrams: equipment T□-DIAG-EQPM Diagrams: equipment T□-DIAG-GRND Diagrams: ground T□-DICT Dictation system T□-DICT-CIRC Dictation system: circuits T□-DICT-CLNG Dictation system: circuit number T□-DICT-CNMB Dictation system: circuit number T□-DICT-CNMB Dictation system: circuit number T□-DICT-EQPM Dictation system: circuit number	T ₋ -COMM-WALL	Communications: wall
T□-CONT-WIRE Controls and instrumentation: wiring T□-DATA Data/LAN system T□-DATA-CIRC Data/LAN system: circuits T□-DATA-CLNG Data/LAN system: circuit number T□-DATA-CNMB Data/LAN system: circuit number T□-DATA-EQPM Data/LAN system: equipment T□-DATA-FLOR Data/LAN system: floor T□-DATA-JACK Data/LAN system: jacks T□-DATA-WALL Data/LAN system: wall T□-DIAG Diagrams T□-DIAG-ENCL Diagrams: equipment enclosures T□-DIAG-EQPM Diagrams: ground T□-DIAG-GRND Diagrams: ground T□-DICT Dictation system T□-DICT-CIRC Dictation system: circuits T□-DICT-CNMB Dictation system: circuit number T□-DICT-CNMB Dictation system: equipment	T ₋ -CONT	Controls and instrumentation
To-DATA Data/LAN system To-DATA-CIRC Data/LAN system: circuits To-DATA-CLNG Data/LAN system: ceiling To-DATA-CNMB Data/LAN system: circuit number To-DATA-EQPM Data/LAN system: equipment To-DATA-FLOR Data/LAN system: floor To-DATA-JACK Data/LAN system: jacks To-DATA-WALL Data/LAN system: wall To-DIAG Diagrams To-DIAG-ENCL Diagrams: equipment To-DIAG-EQPM Diagrams: equipment To-DIAG-GRND Diagrams: ground To-DICT Dictation system To-DICT-CIRC Dictation system: circuits To-DICT-CNMB Dictation system: equipment To-DICT-CNMB Dictation system: equipment To-DICT-EQPM Dictation system: circuit number	T ₋ CONT-DEVC	Controls and instrumentation: devices
T□-DATA-CIRC Data/LAN system: circuits T□-DATA-CLNG Data/LAN system: circuit number T□-DATA-CNMB Data/LAN system: circuit number T□-DATA-EQPM Data/LAN system: equipment T□-DATA-FLOR Data/LAN system: floor T□-DATA-JACK Data/LAN system: jacks T□-DATA-WALL Data/LAN system: wall T□-DIAG Diagrams T□-DIAG-ENCL Diagrams: equipment enclosures T□-DIAG-EQPM Diagrams: equipment T□-DIAG-GRND Diagrams: ground T□-DICT Dictation system T□-DICT-CIRC Dictation system: circuits T□-DICT-CLNG Dictation system: circuit number T□-DICT-EQPM Dictation system: equipment	T□-CONT-WIRE	Controls and instrumentation: wiring
TD-DATA-CLNG Data/LAN system: ceiling TD-DATA-CNMB Data/LAN system: circuit number TD-DATA-EQPM Data/LAN system: equipment TD-DATA-FLOR Data/LAN system: floor TD-DATA-JACK Data/LAN system: jacks TD-DATA-JACK Data/LAN system: wall TD-DIAG Diagrams TD-DIAG Diagrams TD-DIAG-ENCL Diagrams: equipment enclosures TD-DIAG-EQPM Diagrams: equipment TD-DIAG-GRND Diagrams: ground TD-DICT Dictation system TD-DICT-CIRC Dictation system: circuits TD-DICT-CLNG Dictation system: ceiling TD-DICT-CNMB Dictation system: circuit number TD-DICT-EQPM Dictation system: equipment	T□-DATA	Data/LAN system
To-DATA-CNMB Data/LAN system: circuit number To-DATA-EQPM Data/LAN system: equipment To-DATA-FLOR Data/LAN system: floor To-DATA-JACK Data/LAN system: jacks To-DATA-WALL Data/LAN system: wall To-DIAG Diagrams To-DIAG-ENCL Diagrams: equipment enclosures To-DIAG-EQPM Diagrams: equipment To-DIAG-GRND Diagrams: ground To-DICT Dictation system To-DICT-CLNG Dictation system: circuits To-DICT-CLNG Dictation system: circuit number To-DICT-CNMB Dictation system: equipment	T□-DATA-CIRC	Data/LAN system: circuits
To-DATA-EQPM Data/LAN system: equipment To-DATA-FLOR Data/LAN system: floor To-DATA-JACK Data/LAN system: jacks To-DATA-WALL Data/LAN system: wall To-DIAG Diagrams To-DIAG-ENCL Diagrams: equipment enclosures To-DIAG-EQPM Diagrams: ground To-DIAG-GRND Diagrams: ground To-DICT Dictation system To-DICT-CIRC Dictation system: circuits To-DICT-CLNG Dictation system: ceiling To-DICT-CNMB Dictation system: circuit number To-DICT-EQPM Dictation system: equipment	T□-DATA-CLNG	Data/LAN system: ceiling
To-DATA-FLOR Data/LAN system: floor To-DATA-JACK Data/LAN system: jacks To-DATA-WALL Data/LAN system: wall To-DIAG Diagrams To-DIAG-ENCL Diagrams: equipment enclosures To-DIAG-EQPM Diagrams: ground To-DIAG-GRND Diagrams: ground To-DICT Dictation system To-DICT-CIRC Dictation system: circuits To-DICT-CLNG Dictation system: ceiling To-DICT-CNMB Dictation system: circuit number To-DICT-EQPM Dictation system: equipment	T□-DATA-CNMB	Data/LAN system: circuit number
T□-DATA-JACK Data/LAN system: jacks T□-DATA-WALL Data/LAN system: wall T□-DIAG Diagrams T□-DIAG-ENCL Diagrams: equipment enclosures T□-DIAG-EQPM Diagrams: equipment T□-DIAG-GRND Diagrams: ground T□-DICT Dictation system T□-DICT-CIRC Dictation system: circuits T□-DICT-CLNG Dictation system: ceiling T□-DICT-CNMB Dictation system: circuit number T□-DICT-EQPM Dictation system: equipment	T□-DATA-EQPM	Data/LAN system: equipment
TD-DATA-WALL Data/LAN system: wall TD-DIAG Diagrams TD-DIAG-ENCL Diagrams: equipment enclosures TD-DIAG-EQPM Diagrams: equipment TD-DIAG-EQPM Diagrams: ground TD-DICT Dictation system TD-DICT-CIRC Dictation system: circuits TD-DICT-CLNG Dictation system: ceiling TD-DICT-CNMB Dictation system: circuit number TD-DICT-EQPM Dictation system: equipment	T□-DATA-FLOR	Data/LAN system: floor
T_DDIAG Diagrams T_DDIAG-ENCL Diagrams: equipment enclosures T_DDIAG-EQPM Diagrams: equipment T_DDIAG-GRND Diagrams: ground T_DDICT Dictation system T_DDICT-CIRC Dictation system: circuits T_DDICT-CLNG Dictation system: ceiling T_DDICT-CNMB Dictation system: circuit number T_DDICT-EQPM Dictation system: equipment	T□-DATA-JACK	Data/LAN system: jacks
T_D-DIAG-ENCL Diagrams: equipment enclosures T_D-DIAG-EQPM Diagrams: equipment T_D-DIAG-GRND Diagrams: ground T_D-DICT Dictation system T_D-DICT-CIRC Dictation system: circuits T_D-DICT-CLNG Dictation system: ceiling T_D-DICT-CNMB Dictation system: circuit number T_D-DICT-EQPM Dictation system: equipment	T□-DATA-WALL	Data/LAN system: wall
T_D-DIAG-EQPM Diagrams: equipment T_D-DIAG-GRND Diagrams: ground T_D-DICT Dictation system T_D-DICT-CIRC Dictation system: circuits T_D-DICT-CLNG Dictation system: ceiling T_D-DICT-CNMB Dictation system: circuit number T_D-DICT-EQPM Dictation system: equipment	T□-DIAG	Diagrams
T_D-DIAG-GRND Diagrams: ground T_D-DICT Dictation system T_D-DICT-CIRC Dictation system: circuits T_D-DICT-CLNG Dictation system: ceiling T_D-DICT-CNMB Dictation system: circuit number T_D-DICT-EQPM Dictation system: equipment	T□-DIAG-ENCL	Diagrams: equipment enclosures
TD-DICT Dictation system TD-DICT-CIRC Dictation system: circuits TD-DICT-CLNG Dictation system: ceiling TD-DICT-CNMB Dictation system: circuit number TD-DICT-EQPM Dictation system: equipment	T□-DIAG-EQPM	Diagrams: equipment
T□-DICT-CIRC Dictation system: circuits T□-DICT-CLNG Dictation system: ceiling T□-DICT-CNMB Dictation system: circuit number T□-DICT-EQPM Dictation system: equipment	T□-DIAG-GRND	Diagrams: ground
T□-DICT-CLNG Dictation system: ceiling T□-DICT-CNMB Dictation system: circuit number T□-DICT-EQPM Dictation system: equipment	T□-DICT	Dictation system
T□-DICT-CNMB Dictation system: circuit number T□-DICT-EQPM Dictation system: equipment	T ₋ -DICT-CIRC	Dictation system: circuits
T□-DICT-EQPM Dictation system: equipment	T ₋ -DICT-CLNG	Dictation system: ceiling
	T ₋ -DICT-CNMB	Dictation system: circuit number
T□-DICT-FLOR Dictation system: floor	T□-DICT-EQPM	Dictation system: equipment
	T ₋ DICT-FLOR	Dictation system: floor

To-ELEC Electrical system, telecom plan To-EMCS Energy monitoring control system To-FIRE Fire protection: To-FIRE-CIRC Fire protection: circuits To-FIRE-CING Fire protection: circuits To-FIRE-CING Fire protection: circuit number To-FIRE-COMB Fire protection: equipment To-FIRE-COMB Fire protection: equipment To-FIRE-COMB Fire protection: equipment To-FIRE-FLOR Fire protection: wall To-INTC Intercom/PA systems To-NURS Nurse call system To-NURS-CIRC Nurse call system: circuits To-NURS-CING Nurse call system: circuit number To-NURS-COMB Nurse call system: equipment To-NURS-COMB To-PONG Paging system To-PONG Paging system To-PHON To-PHON To-PHON To-PONG Paging system To-PONJ To-SERT Security system: jacks To-PROJ Projector system To-SERT Security system: circuit To-SERT-CING Security system: circuit To-SERT-CING Security system: circuit To-SERT-COMB Security system: circuit number To-SERT-COMB To-SERT-COMB To-TVAN Television antenna system To-TVAN-CING Television antenna system: circuit number To-TVAN-C	T□-DICT-WALL	Dictation system: wall
To-FIRE Fire protection: circuits To-FIRE-CLNG Fire protection: circuit number To-FIRE-CLNG Fire protection: circuit number To-FIRE-CNMB Fire protection: circuit number To-FIRE-COMB Fire protection: circuit number To-FIRE-COMB Fire protection: equipment To-FIRE-COMB Fire protection: equipment To-FIRE-COMB Fire protection: equipment To-FIRE-COMB Fire protection: wall To-FIRE-WALL Fire protection: wall To-FIRE-WALL Fire protection: wall To-INTC Intercom/PA systems To-NURS Nurse call system To-NURS-CIRC Nurse call system: circuits To-NURS-CIRC Nurse call system: circuit number To-NURS-CING Nurse call system: circuit number To-NURS-CNMB Nurse call system: equipment To-NURS-COMB Nurse call system: diror To-NURS-WALL Nurse call system: wall To-PONG Paging system To-PONG Paging system To-PONG Paging system To-PON-JACK Telephone system To-PON-JACK Telephone system To-SERT Security system: circuits To-SERT-CIRC Security system: circuits To-SERT-CLNG Security system: circuit number To-SERT-CLNG Security system: circuit number To-SERT-COMB Security system: circuit number To-SERT-COMB Security system: equipment To-SERT-COMB Security system: equipment To-SERT-COMB Security system: circuit number To-SERT-HOR Security system: wall To-SOUN Sound system To-TVAN Television antenna system: circuits To-TVAN-CIRC Television antenna system: circuits To-TVAN-CING Television antenna system: circuit number To-TVAN-CING Television antenna system: circuit number To-TVAN-COMB Television antenna system: circuit number	T ₋ -ELEC	Electrical system, telecom plan
To-FIRE-CIRC Fire protection: circuits To-FIRE-CLNG Fire protection: ceiling To-FIRE-CNMB Fire protection: circuit number To-FIRE-GPM Fire protection: dequipment To-FIRE-FLOR Fire protection: discord To-FIRE-FLOR Fire protection: wall To-INTC Intercom/PA systems To-NURS Nurse call system To-NURS-CIRC Nurse call system: circuits To-NURS-CLNG Nurse call system: circuit number To-NURS-CNMB Nurse call system: circuit number To-NURS-CNMB Nurse call system: circuit number To-NURS-FLOR Nurse call system: wall To-NURS-FLOR Nurse call system: sequipment To-NURS-FLOR Nurse call system: mall To-PONG Paging system To-PONG Paging system To-PONG Paging system To-PONG Paging system: jacks To-PONG Projector system To-SERT Security system: circuits To-SERT-CLNG Security system: circuit number To-SERT-CLNG Security system: circuit number To-SERT-CLNG Security system: circuit number To-SERT-EOPM Security system: equipment To-SERT-FLOR Security system: equipment To-SERT-CLNG Security system: direct number To-SERT-WALL Security system: floor To-SERT-WALL Security system: circuit number To-TO-SERT-WALL Security system: circuit number To-TO-TO-SERT-WALL Security system: circuit number To-TO-TO-SERT-WALL Security system: circuit number To-TO-TO-TO-TO-TO-TO-TO-TO-TO-TO-TO-TO-TO-	T□-EMCS	Energy monitoring control system
To-FIRE-CLNG Fire protection: ceiling To-FIRE-CNMB Fire protection: circuit number To-FIRE-EQPM Fire protection: equipment To-FIRE-EQPM Fire protection: equipment To-FIRE-FLOR Fire protection: door To-FIRE-WALL Fire protection: wall To-INTC Intercom/PA systems To-NURS Nurse call system: circuits To-NURS-CLNG Nurse call system: circuit number To-NURS-CLNG Nurse call system: circuit number To-NURS-CNMB Nurse call system: circuit number To-NURS-COMB Nurse call system: equipment To-NURS-FLOR Nurse call system: sequipment To-NURS-WALL Nurse call system: wall To-PONG Paging system To-PHON Telephone system To-PHON-JACK Telephone system: jacks To-PROJ Projector system To-SERT Security system: circuits To-SERT-CLNG Security system: circuits To-SERT-CLNG Security system: circuit number To-SERT-CLNG Security system: circuit number To-SERT-EQPM Security system: dioint number To-SERT-FLOR Security system: equipment To-SERT-CLNG Security system: dirout number To-SERT-CLNG Security system: dirout number To-SERT-MALL Security system: dirout number To-SERT-WALL Security system: dirout number To-TO-NAN Television antenna system To-TVAN Television antenna system: circuits To-TVAN-CLNG Television antenna system: circuit number To-TVAN-CLNG Television antenna system: circuit number To-TVAN-CLNG Television antenna system: circuit number To-TVAN-CNMB Television antenna system: circuit number	T□-FIRE	Fire protection
To-FIRE-CNMB Fire protection: circuit number To-FIRE-EQPM Fire protection: equipment To-FIRE-FLOR Fire protection: wall To-FIRE-FLOR Fire protection: wall To-INTC Intercom/PA systems To-NURS Nurse call system To-NURS-CIRC Nurse call system: circuits To-NURS-CNMB Nurse call system: circuit number To-NURS-CNMB Nurse call system: equipment To-NURS-CNMB Nurse call system: equipment To-NURS-FLOR Nurse call system: equipment To-NURS-FLOR Nurse call system: paice To-NURS-FLOR Nurse call system: equipment To-NURS-FLOR Nurse call system: paice To-PONG Paging system To-PHON To-PHON To-PHON To-PHON To-PHON To-PHON To-PHON To-SERT Security system To-SERT-CIRC Security system: circuits To-SERT-CNMB Security system: circuit number To-SERT-CNMB Security system: circuit number To-SERT-EQPM Security system: circuit number To-SERT-FLOR Security system: wall To-SERT-FLOR Security system: circuit number To-SERT-FLOR Security system: circuit number To-SERT-FLOR Security system: wall To-SOUN Sound system To-TVAN To-SERT To-TVAN Tolevision antenna system To-TVAN Tolevision antenna system: circuit number To-TVAN-CNMB Tolevision antenna system: circuit number To-TVAN-CNMB Tolevision antenna system: equipment To-TVAN-CNMB Tolevision antenna system: circuit number To-TVAN-CNMB Tolevision antenna system: equipment To-TVAN-CNMB Tolevision antenna system: wall To-TVAN-CNMB Tolevision antenna system: equipment To-TVAN-CNMB Tolevision antenna system: wall To-TVAN-CNMB Tolevision antenna system: equipment To-TVAN-FLOR Tolevision antenna system: wall To-TVAN-CNMB Tolevision antenna system: wall To-TVAN-CNMB Tolevision antenna system: wall To-TVAN-CNMB Tolevision antenna system: wall To-TVAN-GNALL Tolevision antenna system: wall To-TVAN-GNALL Tolevision antenna system: wall To-TVAN-GNALL Tolevision antenna system: wall	T□-FIRE-CIRC	Fire protection: circuits
To-FIRE-EQPM Fire protection: equipment To-FIRE-FLOR Fire protection: floor To-FIRE-WALL Fire protection: wall To-INTC Intercom/PA systems To-NURS Nurse call system To-NURS-CIRC Nurse call system: circuits To-NURS-CING Nurse call system: circuit number To-NURS-CING Nurse call system: equipment To-NURS-CING Nurse call system: equipment To-NURS-FLOR Nurse call system: equipment To-NURS-FLOR Nurse call system: equipment To-NURS-FLOR Nurse call system: floor To-NURS-HOR Nurse call system: floor To-NURS-HOR Nurse call system: gloor To-PHON-JACK To-PHON To-PHON To-PHON To-PHON To-PHON To-PHON To-PROJ Projector system To-SERT Security system To-SERT-CING Security system: circuits To-SERT-CNMB Security system: circuit number To-SERT-CNMB Security system: circuit number To-SERT-EQPM Security system: circuit number To-SERT-FLOR Security system: dor To-SERT-FLOR Security system: dor To-SERT-FLOR Security system: dor To-SERT-FLOR Security system: dor To-SERT-FLOR To-Security system To-TO-SERT-FLOR To-SERT-GUN To-SERT-GUN To-SERT-GUN To-SERT-GUN To-SERT-GUN To-TVAN To-SERT To-TVAN To-TVAN To-TVAN To-TVAN To-TVAN To-TVAN To-TVAN-CIRC To-TVAN-CIR	T□-FIRE-CLNG	Fire protection: ceiling
To-FIRE-FLOR Fire protection: floor To-FIRE-WALL Fire protection: wall To-NURS Intercom/PA systems To-NURS-CIRC Nurse call system: circuits To-NURS-CING Nurse call system: circuit number To-NURS-CING Nurse call system: equipment To-NURS-CING Nurse call system: equipment To-NURS-CING Nurse call system: equipment To-NURS-EQPM Nurse call system: dirout number To-NURS-FLOR Nurse call system: wall To-PGNG Paging system To-PHON Telephone system To-PHON To-PHON Telephone system To-SERT Security system: circuits To-SERT-CINC Security system: circuits To-SERT-CING Security system: circuit number To-SERT-FLOR Security system: circuit number To-SERT-FLOR Security system: dirout number To-SERT-WALL Security system: wall To-SOUN Sound system To-TRAN Transmission system (RF and microwave) To-TVAN Tolevision antenna system: circuit number To-TVAN-CING Tolevision antenna system: circuit number To-TVAN-CLNG Tolevision antenna system: circuit number	T□-FIRE-CNMB	Fire protection: circuit number
TD-FIRE-WALL TD-INTC Intercom/PA systems TD-NURS Nurse call system TD-NURS-CIRC Nurse call system: circuits TD-NURS-CING Nurse call system: circuit number TD-NURS-CNMB Nurse call system: circuit number TD-NURS-CNMB Nurse call system: equipment TD-NURS-EQPM Nurse call system: dior TD-NURS-FLOR Nurse call system: dior TD-NURS-FLOR Nurse call system: wall TD-NURS-WALL Nurse call system: wall TD-PGNG Paging system TD-PHON Telephone system TD-PHON TELEPHON-JACK TELEPHON-System TD-PROJ Projector system TD-SERT Security system: circuits TD-SERT-CIRC Security system: circuits TD-SERT-CIRC Security system: circuit number TD-SERT-CING Security system: circuit number TD-SERT-CING Security system: equipment TD-SERT-FLOR Security system: equipment TD-SERT-WALL Security system: wall TD-SERT-WALL Security system: wall TD-SERT-WALL Security system: circuit number TD-SERT-WALL Security system: wall TD-SOUN TD-SERT-WANL TD-TVAN TELEVISION antenna system: circuits TD-TVAN TD-TVAN-CIRC TELEVISION antenna system: circuit number TD-TVAN-CIRC TELEVISION antenna s	T□-FIRE-EQPM	Fire protection: equipment
To-INTC Intercom/PA systems To-NURS Nurse call system To-NURS Nurse call system: circuits To-NURS-CIRC Nurse call system: circuit number To-NURS-CLNG Nurse call system: circuit number To-NURS-CNMB Nurse call system: circuit number To-NURS-EQPM Nurse call system: equipment To-NURS-FLOR Nurse call system: floor To-NURS-WALL Nurse call system: wall To-PGNG Paging system To-PHON Telephone system To-PHON_JACK Telephone system: jacks To-PROJ Projector system To-SERT Security system To-SERT-CIRC Security system: circuits To-SERT-CLNG Security system: circuit number To-SERT-CNMB Security system: circuit number To-SERT-CNMB Security system: equipment To-SERT-EQPM Security system: equipment To-SERT-WALL Security system: wall To-SOUN Sound system To-TRAN Transmission system (RF and microwave) To-TVAN-CIRC Television antenna system: circuit number To-TVAN-CNMB Television antenna system: circuit number	T□-FIRE-FLOR	Fire protection: floor
To-NURS Nurse call system To-NURS-CIRC Nurse call system: circuits To-NURS-CLNG Nurse call system: ceiling To-NURS-CNMB Nurse call system: circuit number To-NURS-CNMB Nurse call system: equipment To-NURS-EQPM Nurse call system: floor To-NURS-HOR Nurse call system: wall To-PGNG Paging system To-PHON Telephone system To-PHON-JACK Telephone system: jacks To-PROJ Projector system To-SERT Security system: circuits To-SERT-CIRC Security system: circuits To-SERT-CLNG Security system: circuit number To-SERT-CNMB Security system: circuit number To-SERT-EQPM Security system: door To-SERT-FLOR Security system: wall To-SERT-WALL Security system: wall To-SOUN Sound system To-TVAN Television antenna system To-TVAN-CIRC Television antenna system: circuit number To-TVAN-CNMB Television antenna system: circuits To-TVAN-CNMB Television antenna system: circuit number To-TVAN-CNMB Television antenna system: equipment To-TVAN-CNMB Television antenna system: equipment To-TVAN-CNMB Television antenna system: wall To-TVAN-CNMB Television antenna system: wall To-TVAN-CNMB Television antenna system: wall	T ₋ -FIRE-WALL	Fire protection: wall
To-NURS-CIRC Nurse call system: circuits To-NURS-CNMB Nurse call system: circuit number To-NURS-CNMB Nurse call system: equipment To-NURS-EQPM Nurse call system: equipment To-NURS-EQPM Nurse call system: equipment To-NURS-FLOR Nurse call system: wall To-NURS-WALL Nurse call system: wall To-PGNG Paging system To-PHON Telephone system To-PHON-JACK Telephone system: jacks To-PROJ Projector system To-SERT Security system To-SERT-CIRC Security system: circuits To-SERT-CLNG Security system: circuit number To-SERT-CNMB Security system: circuit number To-SERT-EQPM Security system: equipment To-SERT-FLOR Security system: wall To-SERT-WALL Security system: wall To-TO-SERT-WALL Security system: wall To-TVAN To-TVAN To-TVAN-CIRC To-TVAN-CLNG To-TVAN-CLNG To-TVAN-CNMB To-TVA	T ₋ INTC	Intercom/PA systems
To-NURS-CLNG Nurse call system: ceiling To-NURS-CNMB Nurse call system: equipment To-NURS-EQPM Nurse call system: equipment To-NURS-FLOR Nurse call system: equipment To-NURS-FLOR Nurse call system: wall To-PONG To-NURS-WALL Nurse call system: wall To-PONG Paging system To-PHON Telephone system To-PHON-JACK Telephone system: jacks To-PROJ Projector system To-SERT Security system To-SERT-CIRC Security system: circuits To-SERT-CLNG Security system: circuit number To-SERT-CNMB Security system: circuit number To-SERT-EQPM Security system: equipment To-SERT-FLOR Security system: wall To-SERT-WALL Security system: wall To-TO-TVAN To-TVAN To-TVAN-CLNG To-TVAN-CLNG To-TVAN-CLNG To-TVAN-CNMB To-	T□-NURS	Nurse call system
To-NURS-CNMB Nurse call system: circuit number To-NURS-EQPM Nurse call system: equipment To-NURS-FLOR Nurse call system: floor To-NURS-WALL Nurse call system: wall To-PGNG Paging system To-PHON Telephone system To-PHON-JACK Telephone system: jacks To-PROJ Projector system To-SERT Security system: circuits To-SERT-CIRC Security system: circuits To-SERT-CLNG Security system: circuit number To-SERT-CNMB Security system: equipment To-SERT-EQPM Security system: floor To-SERT-WALL Security system: wall To-SOUN Sound system To-TVAN Television antenna system: circuits To-TVAN-CNMB Television antenna system: circuit number To-TVAN-CNMB Television antenna system: floor To-TVAN-CNMB Television antenna system: floor To-TVAN-FLOR Television antenna system: mall To-TVAN-CNMB Television antenna system: floor To-TVAN-WALL Television antenna system: wall To-TVAN-WALL Television antenna system: wall	T□-NURS-CIRC	Nurse call system: circuits
To-NURS-EQPM Nurse call system: equipment To-NURS-FLOR Nurse call system: floor To-NURS-WALL Nurse call system: wall To-PGNG Paging system To-PHON Telephone system To-PHON-JACK Telephone system: jacks To-PROJ Projector system To-SERT Security system: circuits To-SERT-CING Security system: circuit number To-SERT-CNMB Security system: equipment To-SERT-COMB Security system: equipment To-SERT-EQPM Security system: wall To-SERT-WALL Security system: wall To-SOUN Sound system To-TVAN Television antenna system: circuit number To-TVAN-CNMB Television antenna system: circuit number To-TVAN-FLOR Television antenna system: circuit number To-TVAN-FLOR Television antenna system: circuit number To-TVAN-FLOR Television antenna system: floor To-TVAN-FLOR Television antenna system: floor To-TVAN-FLOR Television antenna system: mall To-TVAN-WALL Television antenna system: wall To-TVAN-WALL Television antenna system: wall	T□-NURS-CLNG	Nurse call system: ceiling
To-NURS-FLOR Nurse call system: floor To-NURS-WALL Nurse call system: wall To-PGNG Paging system To-PHON Telephone system To-PHON-JACK Telephone system: jacks To-PROJ Projector system To-SERT Security system: circuits To-SERT-CLNG Security system: circuit number To-SERT-CNMB Security system: equipment To-SERT-EQPM Security system: dior To-SERT-FLOR Security system: wall To-SERT-WALL Security system: wall To-SOUN Sound system To-TRAN Transmission system (RF and microwave) To-TVAN-CIRC Television antenna system: circuits To-TVAN-CNMB Television antenna system: circuit number To-TVAN-CNMB Television antenna system: circuit number To-TVAN-CNMB Television antenna system: circuit number To-TVAN-EQPM Television antenna system: circuit number To-TVAN-FLOR Television antenna system: circuit number To-TVAN-FLOR Television antenna system: circuit number To-TVAN-FLOR Television antenna system: dior To-TVAN-FLOR Television antenna system: dior To-TVAN-FLOR Television antenna system: dior To-TVAN-WALL Television antenna system: wall	T□-NURS-CNMB	Nurse call system: circuit number
To-NURS-WALL To-PGNG Paging system To-PHON Telephone system: jacks To-PHON-JACK Telephone system: jacks To-PROJ Projector system To-SERT Security system: circuits To-SERT-CIRC Security system: circuit number To-SERT-CNMB Security system: equipment To-SERT-EQPM Security system: dror To-SERT-FLOR Security system: wall To-SERT-WALL Security system: wall To-SOUN Sound system To-TVAN Television antenna system: circuits To-TVAN-CNMB Television antenna system: circuits To-TVAN-CNMB Television antenna system: circuit number To-TVAN-EQPM Television antenna system: circuit number To-TVAN-FLOR Television antenna system: circuit number To-TVAN-FLOR Television antenna system: circuit number To-TVAN-FLOR Television antenna system: equipment To-TVAN-FLOR Television antenna system: equipment To-TVAN-FLOR Television antenna system: system: equipment To-TVAN-WALL Television antenna system: wall	T□-NURS-EQPM	Nurse call system: equipment
TD-PGNG Paging system TD-PHON Telephone system: jacks TD-PHON-JACK Telephone system: jacks TD-PROJ Projector system TD-SERT Security system TD-SERT Security system: circuits TD-SERT-CIRC Security system: ceiling TD-SERT-CNMB Security system: circuit number TD-SERT-CNMB Security system: circuit number TD-SERT-EQPM Security system: door TD-SERT-FLOR Security system: wall TD-SERT-WALL Security system: wall TD-SOUN Sound system TD-TRAN Transmission system (RF and microwave) TD-TVAN Television antenna system: circuits TD-TVAN-CIRC Television antenna system: ceiling TD-TVAN-CLNG Television antenna system: circuit number TD-TVAN-CNMB Television antenna system: equipment TD-TVAN-EQPM Television antenna system: equipment TD-TVAN-FLOR Television antenna system: door TD-TVAN-FLOR Television antenna system: mall TD-TVAN-WALL Television antenna system: wall TD-TVAN-WALL Television antenna system: wall	T□-NURS-FLOR	Nurse call system: floor
TD-PHON Telephone system: jacks TD-PHON-JACK Telephone system: jacks TD-PROJ Projector system TD-SERT Security system TD-SERT Security system: circuits TD-SERT-CLNG Security system: ceiling TD-SERT-CLNG Security system: circuit number TD-SERT-CNMB Security system: circuit number TD-SERT-EQPM Security system: equipment TD-SERT-FLOR Security system: wall TD-SERT-WALL Security system: wall TD-SOUN Sound system TD-TRAN Transmission system (RF and microwave) TD-TVAN Television antenna system: circuits TD-TVAN-CIRC Television antenna system: circuit number TD-TVAN-CLNG Television antenna system: circuit number TD-TVAN-CNMB Television antenna system: circuit number TD-TVAN-EQPM Television antenna system: equipment TD-TVAN-FLOR Television antenna system: floor TD-TVAN-WALL Television antenna system: wall TD-TVAN-WALL Television and video systems	T□-NURS-WALL	Nurse call system: wall
T□-PHON-JACK Telephone system: jacks T□-PROJ Projector system T□-SERT Security system T□-SERT-CIRC Security system: circuits T□-SERT-CLNG Security system: circuit number T□-SERT-CNMB Security system: equipment T□-SERT-EQPM Security system: equipment T□-SERT-FLOR Security system: wall T□-SERT-WALL Security system: wall T□-TRAN Transmission system (RF and microwave) T□-TVAN Television antenna system T□-TVAN-CIRC Television antenna system: circuits T□-TVAN-CNMB Television antenna system: circuit number T□-TVAN-CNMB Television antenna system: circuit number T□-TVAN-COMB Television antenna system: circuit number T□-TVAN-COMB Television antenna system: circuit number T□-TVAN-COMB Television antenna system: equipment T□-TVAN-COMB Television antenna system: floor T□-TVAN-HOR Television antenna system: wall T□-TVAN-WALL Television and video systems	T□-PGNG	Paging system
TD-PROJ Projector system TD-SERT Security system: circuits TD-SERT-CIRC Security system: ceiling TD-SERT-CLNG Security system: circuit number TD-SERT-CNMB Security system: circuit number TD-SERT-EQPM Security system: equipment TD-SERT-FLOR Security system: floor TD-SERT-WALL Security system: wall TD-SOUN Sound system TD-TRAN Transmission system (RF and microwave) TD-TVAN Television antenna system: circuits TD-TVAN-CIRC Television antenna system: circuits TD-TVAN-CLNG Television antenna system: circuit number TD-TVAN-CNMB Television antenna system: equipment TD-TVAN-EQPM Television antenna system: equipment TD-TVAN-FLOR Television antenna system: floor TD-TVAN-WALL Television antenna system: wall TD-TVAN-WALL Television antenna system: wall	T□-PHON	Telephone system
T□-SERT Security system: circuits T□-SERT-CIRC Security system: circuits T□-SERT-CLNG Security system: circuit number T□-SERT-CNMB Security system: circuit number T□-SERT-EQPM Security system: equipment T□-SERT-FLOR Security system: floor T□-SERT-WALL Security system: wall T□-SOUN Sound system T□-TRAN Transmission system (RF and microwave) T□-TVAN Television antenna system T□-TVAN-CIRC Television antenna system: circuits T□-TVAN-CLNG Television antenna system: circuit number T□-TVAN-CNMB Television antenna system: circuit number T□-TVAN-EQPM Television antenna system: equipment T□-TVAN-FLOR Television antenna system: floor T□-TVAN-WALL Television antenna system: wall T□-TVAN-WALL Television and video systems	T ₋ -PHON-JACK	Telephone system: jacks
T□-SERT-CIRC Security system: circuits T□-SERT-CLNG Security system: ceiling T□-SERT-CNMB Security system: circuit number T□-SERT-EQPM Security system: equipment T□-SERT-FLOR Security system: floor T□-SERT-WALL Security system: wall T□-SOUN Sound system T□-TRAN Transmission system (RF and microwave) T□-TVAN Television antenna system T□-TVAN-CIRC Television antenna system: circuits T□-TVAN-CLNG Television antenna system: circuit number T□-TVAN-CNMB Television antenna system: equipment T□-TVAN-EQPM Television antenna system: floor T□-TVAN-WALL Television antenna system: wall T□-TVAN-WALL Television and video systems	T□-PROJ	Projector system
T□-SERT-CLNG Security system: ceiling T□-SERT-CNMB Security system: circuit number T□-SERT-EQPM Security system: equipment T□-SERT-FLOR Security system: floor T□-SERT-WALL Security system: wall T□-SOUN Sound system T□-TRAN Transmission system (RF and microwave) T□-TVAN Television antenna system: circuits T□-TVAN-CLNG Television antenna system: ceiling T□-TVAN-CNMB Television antenna system: circuit number T□-TVAN-EQPM Television antenna system: equipment T□-TVAN-FLOR Television antenna system: floor T□-TVAN-WALL Television antenna system: wall T□-TVAN-WALL Television and video systems	T ₋ -SERT	Security system
T□-SERT-CNMB Security system: circuit number T□-SERT-EQPM Security system: equipment T□-SERT-FLOR Security system: floor T□-SERT-WALL Security system: wall T□-SOUN Sound system T□-TRAN Transmission system (RF and microwave) T□-TVAN Television antenna system T□-TVAN-CIRC Television antenna system: circuits T□-TVAN-CLNG Television antenna system: circuit number T□-TVAN-CNMB Television antenna system: equipment T□-TVAN-EQPM Television antenna system: equipment T□-TVAN-FLOR Television antenna system: floor T□-TVAN-WALL Television and video systems	T□-SERT-CIRC	Security system: circuits
T□-SERT-EQPM Security system: equipment T□-SERT-FLOR Security system: floor T□-SERT-WALL Security system: wall T□-SOUN Sound system T□-TRAN Transmission system (RF and microwave) T□-TVAN Television antenna system T□-TVAN-CIRC Television antenna system: circuits T□-TVAN-CLNG Television antenna system: circuit number T□-TVAN-CNMB Television antenna system: equipment T□-TVAN-EQPM Television antenna system: floor T□-TVAN-FLOR Television antenna system: wall T□-TVAN-WALL Television and video systems	T□-SERT-CLNG	Security system: ceiling
T□-SERT-FLOR Security system: floor T□-SERT-WALL Security system: wall T□-SOUN Sound system T□-TRAN Transmission system (RF and microwave) T□-TVAN Television antenna system T□-TVAN-CIRC Television antenna system: circuits T□-TVAN-CLNG Television antenna system: ceiling T□-TVAN-CNMB Television antenna system: circuit number T□-TVAN-EQPM Television antenna system: equipment T□-TVAN-FLOR Television antenna system: floor T□-TVAN-WALL Television antenna system: wall T□-TVVS Television and video systems	T□-SERT-CNMB	Security system: circuit number
To-SERT-WALL Security system: wall To-SOUN Sound system To-TRAN Transmission system (RF and microwave) To-TVAN Television antenna system To-TVAN-CIRC Television antenna system: circuits To-TVAN-CLNG Television antenna system: circuit number To-TVAN-CNMB Television antenna system: equipment To-TVAN-EQPM Television antenna system: floor To-TVAN-WALL Television antenna system: wall To-TVAN-WALL Television and video systems	T□-SERT-EQPM	Security system: equipment
To-SOUN To-TRAN Transmission system (RF and microwave) To-TVAN Television antenna system To-TVAN-CIRC Television antenna system: circuits To-TVAN-CLNG Television antenna system: ceiling To-TVAN-CNMB Television antenna system: circuit number To-TVAN-EQPM Television antenna system: equipment To-TVAN-FLOR Television antenna system: floor To-TVAN-WALL Television antenna system: wall To-TVAN-WALL Television and video systems	T□-SERT-FLOR	Security system: floor
To-TRAN Transmission system (RF and microwave) To-TVAN Television antenna system To-TVAN-CIRC Television antenna system: circuits To-TVAN-CLNG Television antenna system: ceiling To-TVAN-CNMB Television antenna system: circuit number To-TVAN-EQPM Television antenna system: equipment To-TVAN-FLOR Television antenna system: floor To-TVAN-WALL Television antenna system: wall To-TVVS Television and video systems	T□-SERT-WALL	Security system: wall
To-TVAN Television antenna system To-TVAN-CIRC Television antenna system: circuits To-TVAN-CLNG Television antenna system: ceiling To-TVAN-CNMB Television antenna system: circuit number To-TVAN-EQPM Television antenna system: equipment To-TVAN-FLOR Television antenna system: floor To-TVAN-WALL Television antenna system: wall To-TVS Television and video systems	T□-SOUN	Sound system
To-TVAN-CIRC Television antenna system: circuits To-TVAN-CLNG Television antenna system: ceiling To-TVAN-CNMB Television antenna system: circuit number To-TVAN-EQPM Television antenna system: equipment To-TVAN-FLOR Television antenna system: floor To-TVAN-WALL Television antenna system: wall To-TVVS Television and video systems	T□-TRAN	Transmission system (RF and microwave)
To-TVAN-CLNG Television antenna system: ceiling To-TVAN-CNMB Television antenna system: circuit number To-TVAN-EQPM Television antenna system: equipment To-TVAN-FLOR Television antenna system: floor To-TVAN-WALL Television antenna system: wall To-TVVS Television and video systems	T ₋ -TVAN	Television antenna system
To-TVAN-CNMB Television antenna system: circuit number To-TVAN-EQPM Television antenna system: equipment To-TVAN-FLOR Television antenna system: floor To-TVAN-WALL Television antenna system: wall To-TVVS Television and video systems	T□-TVAN-CIRC	Television antenna system: circuits
T□-TVAN-EQPM Television antenna system: equipment T□-TVAN-FLOR Television antenna system: floor T□-TVAN-WALL Television antenna system: wall T□-TVVS Television and video systems	T□-TVAN-CLNG	Television antenna system: ceiling
T□-TVAN-FLOR Television antenna system: floor T□-TVAN-WALL Television antenna system: wall T□-TVVS Television and video systems	T□-TVAN-CNMB	Television antenna system: circuit number
T□-TVAN-WALL Television antenna system: wall T□-TVVS Television and video systems	T□-TVAN-EQPM	Television antenna system: equipment
T□-TVVS Television and video systems	T□-TVAN-FLOR	Television antenna system: floor
	T ₋ TVAN-WALL	Television antenna system: wall
T□-TVVS-SAUD Television and video systems: audio signal	T□-TVVS	Television and video systems
	T□-TVVS-SAUD	Television and video systems: audio signal

T□-TVVS-SCOM	Television and video systems: communications sIgnal
T ₋ -TVVS-SCTL	Television and video systems: control signal
T□-TVVS-SDAT	Television and video systems: data signal
T□-TVVS-SDGA	Television and video systems: digital audio signal
T□-TVVS-SDGV	Television and video systems: digital video signal
T□-TVVS-SMIC	Television and video systems: microphone signal
T□-TVVS-SPWR	Television and video systems: power signal
T□-TVVS-SRFI	Television and video systems: RF signal
T ₋ -TVVS-SRGB	Television and video systems: RGB and component video signal
T□-TVVS-SSYN	Television and video systems: sync signal
T□-TVVS-SVID	Television and video systems: video signal

5.21 OTHER DISCIPLINES LAYER LIST

Other Disciplines Field Codes

The Layer Names shown below provide examples for the use of Major and Minor Group field codes for this discipline. See <u>CLG Sections 1.5</u> and <u>1.6</u> for complete rules and options governing the use of Major and Minor Group field codes.

Other Disciplines Discipline Designators

Designator	Description
X	Other Disciplines
XJ	User Defined
XK	User Defined

Other Disciplines Layer List

Layer Name	Description
X□-RIGG	Other discipline: entertainment rigging/automation systems
X□-SPFX	Other discipline: entertainment special effects system
X□-VIDO	Other discipline: entertainment projection systems

6.0 Appendix C - Complying with NCS and ISO 13567

6.1 OVERVIEW

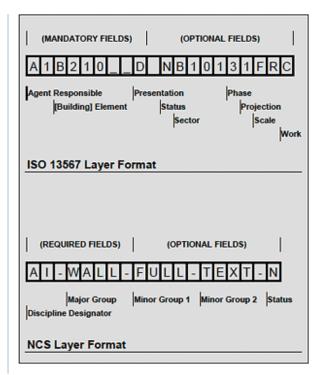
The International Standards Organization (ISO) is the only recognized international body promulgating standards in the area of electronic building design data. ISO Standard 13567, *Organization and Naming of Layers for CAD*, can be purchased at

http://www.ansi.org. The complete document is in three parts: 13567-1, 13567-2, and 13567-3.

While the United States National CAD Standard® (NCS) and ISO 13567 differ somewhat in their approach to standards for CAD layers, they are alike in several important respects. Both standards specify the names of the data fields that make up a typical layer name, define the field names, specify which fields are mandatory (required) and which fields are optional, specify the number of characters in each field, and specify the order in which the fields are to appear.

When one compares the NCS and ISO layer formats shown above, the question immediately arises whether it is possible to produce electronic building design documents that conform to both the NCS and ISO 13567. The answer is a qualified "yes."

Both standards provide several options for naming layers. The range of options allows either standard to meet the needs of diverse users and projects. By carefully choosing from among the available NCS options for naming CAD layers, and by establishing and adhering to the guidelines at the end of this Commentary, documents can be produced that are in *full conformance* with the



NCS and in *conceptual conformance* with ISO 13567 for the naming of CAD layers (an acceptable alternative to ISO *default conformance*). Adoption of the approach outlined herein could arguably reduce the effort required to produce documents in conformance with ISO 13567 by eliminating the ISO-mandated task of prescribing valid field codes for each project.

6.2 FIELD CODES

The NCS and ISO 13567 differ in one important respect. The NCS prescribes the valid alpha-numeric field codes that can appear in each data field, and the definitions of the field codes (e.g., EQPM = equipment). Users of ISO 13567 must determine, for each project, the valid field codes for that project and their definitions. ISO 13567 users are required to document this information in a metadata file known as a *layer naming system definition file* that must accompany the project data files. In its simplest form, this is nothing more than a tab-delimited text file.

There are valid reasons for both approaches. The prescriptive approach of the NCS relieves users of the task of developing and documenting field codes for every project. However, in order to accommodate all possible users, the list of prescribed NCS field codes must be comprehensive. By not prescribing field codes, ISO

TWO STANDARDS OR ONE?

- The NCS offers users an opportunity to comply with both U.S. and ISO CAD standards. By adhering to the guidelines in this commentary, summarized in ten (10) steps on the last page, the NCS becomes a "country-specific" implementation of the ISO CAD Standard.
- For design firms doing international work, using the NCS can simplify the ISO-mandated task of preparing the layer naming system definition file that must accompany the project data files on every project.

13567 allows the ISO layer format to be applied uniformly without having to define all possible field codes in advance.

6.3 FIELD CODES AND LANGUAGE

By not prescribing field codes, ISO 13567 also allows the ISO layer format to be applied uniformly without regard to language. Users may, if they wish, develop codes endowed with language-specific meaning. Citing our earlier example, English users might use the field code "EQPM" to represent the [major building] element "equipment," while users in another language group might use another field code that has similar mnemonic association to the word for "equipment" in that language.

While the field codes themselves might differ, the category of information contained in any given field is defined by the standard, facilitating translation of the actual content. In practice, ISO 13567 users tend to favor numeric codes to define the content of data fields. This eliminates any need to "translate" the field codes themselves. If, for example, the field code "720" is prescribed to mean "equipment," then only the definition, and not the code itself, would need to be translated. This eliminates the need for "translating" the actual file or layer name.

6.4 ISO 13567 CONFORMANCE

CAD data sets that adhere to ISO 13567 with respect to field names, field length, field definition and field order (as shown at right), and that are accompanied by the required *layer naming* system definition file, are defined by ISO to be in default conformance with the ISO standard.

ISO 13567 anticipates that groups of users or national standards bodies might not only wish to prescribe a list of valid field codes (as the NCS has done), but might also wish to vary from the specified ISO layer format. 13567-3 is explicitly designed "to allow national standards bodies (or projects where agreement is reached between the parties) to implement layer naming conventions which satisfy the requirements of the [ISO] standard while using alternative and more convenient layer naming structures and codes."

To permit this, ISO 13567-3 establishes rules for modifying the layer format itself. As with the field codes, users are required to fully document layer format modifications in the *layer naming system definition file*. CAD data sets that adhere to these rules are defined by ISO as being in conceptual conformance with the ISO standard, an approved alternative to default conformance.

The rules for *conceptual conformance* specify that the mandatory data fields must always be used, but the order of all fields in the layer name (both mandatory and optional), the number of optional fields used, and the number of characters in each field can vary from the default ISO layer format. Additionally, the *names* of the fields can differ from the names specified, as long as the *conceptual definition* of each field conforms to the ISO standard. All modifications to the default layer format *must be applied uniformly throughout the project*. Layer names must all be of the same length, use the same set of mandatory and optional fields in the same order, and have the same number of characters per field.

These rules allow data sets created in conceptual conformance with ISO 13567 to be mapped to the ISO 13567 *default layer format*. However, ISO does not require users to actually "map" or otherwise convert the data into the default layer format.

Default ISO Layer Format (Mandatory Fields) **A** 1 B 2 1 0 N B 1 0 1 3 1 F R C Agent Responsible A 1 B 2 1 0 N B 1 0 1 3 1 F R C [Building] Element A 1 B 2 1 0 D N B 1 0 1 3 1 F R C Presentation (Optional Fields) A 1 B 2 1 0 D N B 1 0 1 3 1 F R C Status A 1 B 2 1 0 D N B 1 0 1 3 1 F R C Sector A 1 B 2 1 0 N B 1 0 1 3 1 F R C Phase A 1 B 2 1 0 N B 1 0 1 3 1 F R C Projection A 1 B 2 1 0 D N B 1 0 1 3 1 FRC Scale A 1 B 2 1 0 D N B 1 0 1 3 1 F R C Work Package

6.5 FIELD NAMES AND DEFINITIONS

Though the specified field names in the NCS layer format differ from the specified field names in the ISO layer format, the definitions of the field names are conceptually the same (with one important exception, discussed in the next paragraph below). This allows NCS-compliant data to meet the principal ISO 13567 criterion for *conceptual conformance*. The Field Name Comparison Table at right highlights additional rules that must be followed to create data that is in conformance with both the NCS and ISO 13567.

6.6 DISCIPLINE DESIGNATOR" VS. "AGENT RESPONSIBLE"

The conceptual definitions of these corresponding field names in the NCS and ISO 13567 differ sufficiently to merit detailed discussion. The definition for **Discipline Designator** is defined in NCS as "the category of subject matter contained in the file or layer designated." In other words, if the information contained is "structural," the file or layer name will begin with the Discipline Designator "S," regardless of who created the data.

ISO 13567 defines Agent Responsible as "the construction specialist responsible for the data." Regrettably, ISO 13567 does not further define the terms "construction specialist" and "responsible for."

"Construction specialist" could be interpreted to mean "design professional," "design drafter," or even "skilled tradesperson or contractor." Though the text of ISO 13567 does not define which of these individuals is the "agent responsible," one can reasonably infer from the sample *layer naming system definition file* shown in Annex A of ISO 13567-3 that "construction specialist" is defined as the design professional.

6.7 "AGENT RESPONSIBLE" AND PROFESSIONAL LIABILITY

Identifying the design professional as the "construction specialist" still allows considerable room for interpretation of the definition for

Field Name Comparison	Гable
NCS Field Name	ISO Field Name
Discipline Designator	Agent Responsible
Major & Minor Groups	Element
Annotation Minor Group*	Presentation
Status**	Status
(none)	Sector
Status (Phase)**	Phase
Dwg. View Minor Group***	Projection
(none)	Scale
(none)	Work Package

- * ISO compliance requires that the last NCS Minor Group field be reserved for annotation.
- ** ISO compliance requires that this field be reserved for status OR project phase, but not both; duplicate use of the field is not permitted.
- *** ISO compliance requires that Drawing View field names not appear in the same fields as Major or Minor Group fields that define major building elements. If both annotation and drawing view are to be included in any layer names, one Minor Group Field must be reserved for Annotation and the other for Drawing View.

"agent responsible." It could be interpreted to mean either "design professional who is professionally liable for the information by virtue of professional licensure and role on the project," or, alternatively, "design professional who is professionally liable for the information by virtue of having signed and sealed the document in question." An example is a lighting plan prepared under the supervision of, and signed and sealed by, the architect. Should the field code for this drawing file or layer name be "E" or "A?" If the field code is "E," is the Electrical Engineer still the designated "Agent Responsible," and therefore professionally liable for data created by others not under his/her supervision?

The burden of professional liability borne by design professionals is generally less in other countries than it is in the U.S. Perhaps for this reason, the issue of defining *agent responsible* more precisely with respect to professional liability did not arise when this field name was defined by ISO 13567.

In the U.S., however, use of the imprecise ISO definition for *agent responsible* might possibly expose design professionals to professional liability for data over which they had no oversight.

6.8 "DISCIPLINE DESIGNATOR" AND THE BUILDING LIFE CYCLE

The NCS definition for the field *Discipline Designator* was agreed-upon following considerable debate by the NCS Project Committee, and with the full understanding that it differed from the conceptual definition of the corresponding ISO 13567 field *Agent Responsible*. In addition to the liability issues cited above, it was the consensus of the Project Committee that the ability to identify the data by subject matter *throughout the life-cycle of a building facility* was ultimately more important than the identity of the person or persons who originally created the data.

6.9 "DISCIPLINE DESIGNATOR" AND ISO 13567 CONFORMANCE

The difference in the conceptual definitions of *Discipline Designator* and *Agent Responsible* would seem to be an insurmountable obstacle to creating data in conformance with both the NCS and ISO 13567. This is not necessarily true. In most cases, the content of the fields *Discipline Designator* and *Agent Responsible* are one and the same, regardless of the definition. For example, if the subject matter contained in the drawing file or layer is "mechanical systems," the mechanical engineer is likely to be the design professional under whose supervision the data was created.

Users who wish to produce data that is in conformance with the NCS and in conceptual conformance with ISO 13567 can do so by establishing a rule for their projects that data will be created only under the supervision of the design professional *typically* responsible for the subject matter. In this way, the *conceptual definition* for the data field can be BOTH "category of subject matter contained in the file or layer designated" AND "construction specialist responsible for the data." Implementation of this rule can help reduce the risk of professional liability by minimizing the likelihood of conflicts that might arise when different elements of the same building system are designed by more than one design professional.

6.10 FIELD CODE RESTRICTIONS

A key principal of the ISO 13567 layer format is that each data field can be used to define only one category of data. Duplicate use of a field is prohibited. This ensures that data sets in *conceptual conformance* can be readily mapped to the ISO default layer format. Adherence to this provision requires NCS users to restrict their use of certain NCS field codes.

The NCS allows "ANNO" to be used as a Major Group, which allows all annotation to be placed in a defined group of layers. This results in a duplicate use of the Major Group field. The corresponding field in ISO, "Element," is reserved for major building elements. Therefore, the field code "ANNO" cannot be used at all *CLG Figure 6.10-1*. However, the prescribed annotation Minor Group field codes (TEXT, DIMS, etc.) can be used to modify any preceding Major/Minor Group, provided that the field in which they appear is reserved for annotation field codes.

If Drawing View field codes are used *CLG Figure 6.10-2*, the Minor Group field in which they appear must likewise exclude any other field codes.

If the Status field is used *CLG Figure 6.10-3*, the allowable field codes must be restricted to the specified letters (to correspond to the ISO field "Status") or to the specified numbers (to correspond to the ISO field "Phase") but not both

U.S. NCS Field Code Restrictions

(for conceptual conformance to ISO 13567)

The field code "ANNO" may NOT be used, because "annotation" is not a major building "element:"

Α	I	-	Α	N	N	0	-	Т	Ε	Χ	Т	-	N
Major Group (Element)													

The Annotation Minor Group field codes MAY be used, provided the field is reserved for these codes. Two allowable formats are shown:

Ν

	Α	I	-	W	Α	L	L	-	Т	Ε	X	Т	-	N					
				(Presentation) Annotation															
ĺ	٨	ı		W	٨	ı	ı		Е	11	ı	1		т	E	v	т		
	$\overline{}$	Ľ	Ľ	V V	$^{\sim}$	_	_		'	U	_	-		•	_	^	•		
		(Presentation) An												no	tat	io	١		

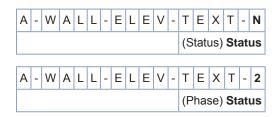
CLG Figure 6.10-1 - Annotation Field Codes

Two allowable formats for Drawing View field codes:

A I -	W	Α	L	L	-	Ε	L	Ε	٧	-	N					
(Projection) Drawing View																
A - W A L - F U L L - E L E V - N																
	(Projection) Drawing View														w	

CLG Figure 6.10-2 - Drawing View Field Codes

Two allowable formats for Status field codes.



CLG Figure 6.10-3 - "Status" Field Codes

6.11 NCS AND ISO 13567 IMPLEMENTATION OPTIONS

The examples shown here illustrate two possible NCS layer formats that are in conceptual conformance with ISO 13567. Note that ISO 13567 does not use dashes as field delimiters. For purposes of ISO conformance, the dashes in the NCS layer format are defined as an additional character of the field preceding it.

CLG Figure 6.11-1 shows the optional two-character NCS Level 2 Discipline Designator; together with the dash that follows it, this field is defined as three (3) characters in length. A Major and one Minor Group are defined as corresponding to the ISO field [Building] "Element." The field is ten (10) characters in length. The second Minor Group is reserved for Annotation field codes, corresponds to the ISO field "Presentation," and is five (5) characters in length. The final field is Status, which corresponds to the ISO field of the same name, and is one (1) character in length.

CLG Figure 6.11-2 shows the NCS required Level 1 Discipline Designator only, and is defined as two (2) characters in length. The Major Group is defined as corresponding to the ISO field [Building] "Element," and is five (5) characters in length. The first Minor Group is reserved for Drawing View field codes, corresponds to the ISO field "Projection," and is five (5) characters in length. The second Minor Group is reserved for Annotation field codes, corresponds to the ISO field "Presentation," and is five (5) characters in length. The final field is reserved for Phase field codes, corresponds to the ISO field "Phase," and is one (1) character in length.

Note that for ISO conformance, the total length of the layer name must be the same for all layers on a given project. Layer names that do not require a certain field, such as "Annotation," must use placeholders (usually dashes or underscores) to maintain the length of the layer name and the relative position of the fields.

While the ISO 13567 rules for conceptual conformance allow the fields to appear in any order, *this is not permitted by the NCS*. The fields must be in the order of Discipline Designator, Major Group, Minor Group 1, Minor Group 2, Status. If a Minor Group field is used to modify the "building element" shown in the Major Group, that Minor Group must appear immediately following the Major Group.

Example NCS Layer Formats (in conceptual confomance to ISO 13567) **A** | **I** | - | W | A | L | L | - | F | U | L | L | - | T | E | X | T Level 2 Discipline Designator (Agent Responsible) WALL-FULL-TEXT AlII-Major, Minor Group (Element) FULL-TEXT-N WALLL (Presentation) Annotation A I - W A L L -FULL-T E X T - N (Status) Status CLG Figure 6.11-1 **A** | - | W | A | L | L | - | E | L | E | V - T E X T Level 1 Discipline Designator (Agent Responsible) WALL-ELEV TEXT Major Group (Element) ELEV-TEXT WALL-**Drawing View** (Projection) WALL E|L|E|V|-|T|E|X|T|-(Presentation) Annotation WALL ELEV T E X T - 2 (Phase) Status

CLG Figure 6.11-2

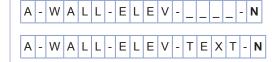
The information in this Commentary is summarized in the following steps for preparing documents with layer names in conformance with the NCS and in conceptual conformance with ISO 13567. While these guidelines are intended to aid NCS users, adherence to these rules in some form would be required by ISO 13567 whether or not the NCS layer format were used.

- 1. Require that all documents be prepared only under the supervision of the design professional typically responsible for the subject matter contained in the documents.
- 2. Do not use the field code "ANNO" in any layer name.
- 3. Determine whether the Discipline Designator will be one character (Level 1) or two characters (Level 2) in length.
- 4. Determine whether the "building element" will consist of a Major Group only, or of a Major Group and one Minor
- 5. Determine whether a Minor Group is to be reserved for Drawing View field codes, and fix its position in the sequence of fields.
- 6. Determine whether a Minor Group is to be reserved for Annotation field codes, and fix its position in the sequence of fields.
- 7. Note that only two Minor Groups are available. Of the three options described in 4, 5, and 6 above, only two can be exercised on a given project.
- 8. Determine whether to include the Status field in the layer name and whether to use the specified letters to denote "Status," or the specified numbers to denote "Phase."
- 9. For layer names in which one or more fields are not required, use placeholders (dashes or underscores) to maintain consistent layer name length and the relative positions of fields. Refer to CLG Figure 6.12-1.
- 10. Prepare a layer naming system definition file in accordance with ISO 13567-3 that defines the selected layer format for the project.

National Institute of Building Sciences | An Authoritative Source of Innovative Solutions for the Built Environment 1090 Vermont Avenue, NW, Suite 700 | Washington, DC 20005-4950 | (202) 289-7800 | Fax (202) 289-1092 © 2011 National Institute of Building Sciences. All rights reserved.

Required Use of Placeholders

(for conceptual conformance to ISO 13567) Layers in which reserved field codes are not used must have placeholders in the reserved fields.



CLG Figure 6.12-1