

Discipline: Survey and Mapping

Model File Type: Existing Electrical Utilities Plan

Level #	Level/Layer Naming		Level/Layer Description	Graphics			
	AIA Format	ISO Format		Line Style	Line Width (mm)	AutoCAD Line Color#	MicroStation Line Color#
General Information							
1	V-ANNO-DIMS	V----DIP-	Witness/extension lines, dimension terminators, dimension text	0	V	V	V
2	V-ANNO-KEYN	V----KEP-	Reference keynotes with associated leaders	0	V	V	V
5	V-ANNO-NOTE	V----NOP-	General notes and general remarks	0	0.35	Y/2	Y/4
3	V-ANNO-NPLT	V----NPP-	Construction lines, reference targets, area calculations, review comments, viewport windows	V	0.18	B/5	B/1
4	V-ANNO-PATT	V----PAP-	Miscellaneous patterning, cross-hatching, poche	0	0.18	Gr/8	Gr/9
6	V-ANNO-SYMB	V----SYP-	Miscellaneous symbols	V	0.35	M/6	M/5
7	V-ANNO-TEXT	V----TEP-	Miscellaneous text and callouts with associated leaders	0	V	V	V
NA	V-ANNO-XREF	V----XRP-	Reference files (AutoCAD users only, see Chapter 4)	NA	NA	NA	NA
Primary Electrical Cables							
11	V-PRIM-OVHD	V-PRIMOV-	Overhead electrical utility lines	EPARX	0.25	R/1	R/3
12	V-PRIM-OVID	V-PRIMOIM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
13	V-PRIM-UNDR	V-PRIMUNM-	Underground electrical utility lines	EPUGX	0.25	R/1	R/3
14	V-PRIM-UNID	V-PRIMUIM-	Identifier tags, symbol modifier, and text	0	0.25	R/1	R/3
Secondary Electrical Cables							
15	V-SCND-OVHD	V-SCNDOV-	Overhead electrical utility lines	ESARX	0.25	61	108
16	V-SCND-OVID	V-SCNDOIM-	Identifier tags, symbol modifier, and text	0	0.25	61	108
17	V-SCND-UNDR	V-SCNDUNM-	Underground electrical utility lines	ESUGX	0.25	61	108
18	V-SCND-UNID	V-SCNDUIM-	Identifier tags, symbol modifier, and text	0	0.25	61	108
Transformers							
19	V-TRAN-PADM	V-TRANPAM-	Pad mounted transformers	0	0.25	21	30
20	V-TRAN-PAID	V-TRANPAM-	Identifier tags, symbol modifier, and text	0	0.25	21	30
21	V-TRAN-POLE	V-TRANPOM-	Pole mounted transformers	0	0.25	21	30
22	V-TRAN-POID	V-TRANPIM-	Identifier tags, symbol modifier, and text	0	0.25	21	30
Electrical Support Equipment							
23	V-ELEC-JBOX	V-ELECJBM-	Junction boxes, pull boxes, manholes, handholes, pedestals, splices	0	0.25	21	30
24	V-ELEC-DEVC	V-ELECDDEM-	Capacitors, voltage regulators, motors, buses, generators, meters, grounds, and markers	0	0.25	21	30
25	V-ELEC-SWCH	V-ELECSWM-	Fuse cutouts, pole mounted switches, circuit breakers, gang operated disconnects, reclosers, cubicle switches	0	0.25	21	30
26	V-ELEC-SUBS	V-ELECSUM-	Other substation equipment	0	0.25	21	30
27	V-ELEC-VALT	V-ELECVAM-	Vaults	0	0.25	21	30
Lights							
31	V-LITE-FIXT	V-LITEFXM-	Exterior Lights	0	0.25	121	15
32	V-LITE-FIID	V-LITEFIM-	Identifier tags, symbol modifier, and text	0	0.25	121	15
Utility Poles							
33	V-POLE-UTIL	V-POLEUTM-	Utility poles	0	0.25	G/3	G/2
34	V-POLE-IDEN	V-POLEUIM-	Utility pole identifier tags, symbol modifier, and text	0	0.25	G/3	G/2
35	V-POLE-GUYS	V-POLEGYM-	Guying equipment	0	0.25	G/3	G/2
36	V-POLE-GUID	V-POLEGIM-	Guying equipment identifier tags, symbol modifiers, and text	0	0.25	G/3	G/2
Underground Ductbanks (to be used when multiple systems are in one ductbank system)							
37	V-DUCT-MULT	V-DUCTMUM-	Ductbank	EUDUCX	0.25	201	29
38	V-DUCT-MUID	V-DUCTMIM-	Identifier tags, symbol modifier and text	0	0.25	201	29

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Cathodic Protection System							
40	V-CATH-ANOD	V-CATHANM-	Sacrificial anode system	0	0.25	161	25
41	V-CATH-CURR	V-CATHCUM-	Impress current system	0	0.25	161	25
42	V-CATH-TEST	V-CATHTEM-	Test stations	0	0.25	161	25
43	V-CATH-IDEN	V-CATHIDM-	Identifier tags, symbol modifier, and text	0	0.25	161	25
Special Systems							
45	V-SPEC-TRAF	V-SPECTRM-	Traffic signal system	0	0.25	151	72
46	V-SPEC-TRID	V-SPECTIM-	Traffic signal identifier tags, symbol modifier, and text	0	0.25	151	72
47	V-SPEC-SPEC	V-SPECSPM-	Special systems (UMCS, EMCS, CATV, etc.)	0	0.25	151	72
48	V-SPEC-SPID	V-SPECSIM-	Special systems (UMCS, EMCS, CATV, etc.) identifier tags, symbol modifier, and text	0	0.25	151	72