



Los Angeles World Airport



CAD LAYER ASSIGNMENT TABLE

CAD STANDARDS FOR LAWA PROJECTS

AUGUST 2017



TABLE OF CONTENT

ARCHITECTURAL.....	3
GEOTECHNICAL	12
CIVIL	13
ELECTRICAL.....	35
FIRE PROTECTION.....	46
GENERAL	50
HAZARDOUS MATERIALS	52
INTERIORS	55
LANDSCAPE	58
MECHANICAL.....	62
PLUMBING.....	70
EQUIPMENT	73
STRUCTURAL.....	74
TELECOMMUNICATIONS.....	80
SURVEY.....	83



Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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ARCHITECTURAL

ANNO - General Information

A	ANNO	DIMS		A-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	5	Continuous	V
A	ANNO	KEYN		A-ANNO-KEYN	Reference keynotes with associated leaders	7	Continuous	V
A	ANNO	LEGN		A-ANNO-LEGN	Legend & Schedule	7	Continuous	V
A	ANNO	NOTE		A-ANNO-NOTE	General notes and general remarks	2	Continuous	0.35
A	ANNO	NPLT		A-ANNO-NPLT	Non-plotting graphic information	5	Continuous	0.18
A	ANNO	PATT		A-ANNO-PATT	Miscellaneous patterning and hatching	8	Continuous	0.18
A	ANNO	REDL		A-ANNO-REDL	Redlines	1	Continuous	0.25
A	ANNO	REFR		A-ANNO-REFR	Reference files (AutoCAD users only, see Chapter 4)	7	Continuous	V
A	ANNO	REVS		A-ANNO-REVS	Revisions	4	Continuous	0.50
A	ANNO	SYMB		A-ANNO-SYMB	Miscellaneous symbols	6	Continuous	0.35
A	ANNO	TEXT		A-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	2	Continuous	0.25
A	ANNO	VPRT		A-ANNO-VPRT	Viewport	8	Continuous	V

AREA - Area

A	AREA			A-AREA	Lease space	7	Continuous	V
A	AREA	FMLN		A-AREA-FMLN	Room area calculation boundary lines	51	Continuous	V
A	AREA	FMRM		A-AREA-FMRM	Room polygon	11	Continuous	0.50
A	AREA	IDEN		A-AREA-IDEN	Space numbers, tenant identifications, area calculations	3	Continuous	V
A	AREA	IDEN	TAG	A-AREA-IDEN-TAG	Space number label	7	Continuous	V
A	AREA	LLIN		A-AREA-LLIN	Lease space area calculation boundary lines	40	DASHDOT2	V
A	AREA	OCCP		A-AREA-OCCP	Occupant or employee names	2	Continuous	0.35
A	AREA	PATT		A-AREA-PATT	Area cross hatching	8	Continuous	0.18
A	AREA	SCHD		A-AREA-SCHD	Schedule	2	Continuous	V

BAGS - Baggage Handling Equipment

A	BAGS	CART		A-BAGS-CART	Baggage Cart/Tug	7	Continuous	0.35
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Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
A	BAGS	CATW		A-BAGS-CATW	Catwalk related to a baggage conveyor system	7	Continuous	0.35
A	BAGS	CLMD		A-BAGS-CLMD	Claim Device	7	Continuous	0.35
A	BAGS	CONV		A-BAGS-CONV	Baggage Conveyor	16	Continuous	V
A	BAGS	CONV	BLFL	A-BAGS-CONV-BLFL	Baggage Conveyor - below floor level	8	HIDDEN2	V
A	BAGS	CONV	OVHD	A-BAGS-CONV-OVHD	Baggage Conveyor - overhead	8	HIDDEN2	V
A	BAGS	CRBS		A-BAGS-CRBS	Curbside Baggage Conveyor	7	Continuous	0.35
A	BAGS	CRSL		A-BAGS-CRSL	Baggage carousels	16	Continuous	0.35
A	BAGS	CTRL		A-BAGS-CTRL	Control	7	Continuous	0.35
A	BAGS	DIMM		A-BAGS-DIMM	Dimension	7	Continuous	0.35
A	BAGS	DOOR		A-BAGS-DOOR	Doors	7	Continuous	0.35
A	BAGS	ELEV		A-BAGS-ELEV	Elevation	7	Continuous	0.35
A	BAGS	EQPM		A-BAGS-EQPM	Equipment	7	Continuous	0.35
A	BAGS	ICNV		A-BAGS-ICNV	Inbound Baggage Conveyor	7	Continuous	0.35
A	BAGS	IOSZ		A-BAGS-IOSZ	Inbound Oversized Baggage Conveyor	7	Continuous	0.35
A	BAGS	MKUP		A-BAGS-MKUP	Make-Up Device	7	Continuous	0.35
A	BAGS	MTCH		A-BAGS-MTCH	Match Lines	7	Continuous	0.35
A	BAGS	NOTE		A-BAGS-NOTE	Baggage equipment related notes	2	Continuous	0.35
A	BAGS	OCNV		A-BAGS-OCNV	Outbound Baggage Conveyor	7	Continuous	0.35
A	BAGS	OOSZ		A-BAGS-OOSZ	Outbound Oversized Baggage Conveyor	7	Continuous	0.35
A	BAGS	RAIL		A-BAGS-RAIL	Guardrail	7	Continuous	0.35
A	BAGS	ROWY		A-BAGS-ROWY	Right-of-Way	7	Continuous	0.35
A	BAGS	SCDR		A-BAGS-SCDR	Baggage Security Doors	7	Continuous	0.35
A	BAGS	SCNU		A-BAGS-SCNU	Screening Unit	7	Continuous	0.35
A	BAGS	TBLK		A-BAGS-TBLK	Title Block	7	Continuous	0.35
A	BAGS	TCBC		A-BAGS-TCBC	Ticket Counter Baggage Conveyor	7	Continuous	0.35
A	BAGS	TEMP		A-BAGS-TEMP	Temporary	7	Continuous	0.35
A	BAGS	TTRY		A-BAGS-TTRY	Tilt-Tray Baggage System	7	Continuous	0.35



Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
A	BAGS	VPRT		A-BAGS-VPRT	View Port Layer for Paper Space	7	Continuous	0.35
A	BAGS	XFER		A-BAGS-XFER	Transfer Baggage Conveyor	7	Continuous	0.35
A	BAGS	XRAY		A-BAGS-XRAY	X-Ray Unit	7	Continuous	0.35
BLDG - Building								
A	BLDG	ZONE		A-BLDG-ZONE	Building zones used in interior FM naming	6	Continuous	0.35
A	BLDG	ZONE	CNST	A-BLDG-ZONE-CNST	Building zones used in the construction drawings/documents	4	Continuous	0.35
CLNG - Ceiling Information								
A	CLNG	ACCS		A-CLNG-ACCS	Access panels	6	Continuous	0.35
A	CLNG	CTLJ		A-CLNG-CTLJ	Ceiling control joints	2	Continuous	0.35
A	CLNG	GRID		A-CLNG-GRID	Ceiling grid	1	Continuous	0.25
A	CLNG	LEVL		A-CLNG-LEVL	Level Changes	5	Continuous	0.18
A	CLNG	OPEN		A-CLNG-OPEN	Openings, ceiling/roof penetrations (see also A-FLOR-OVHD in Model File Type: Floor Plan)	8	Continuous	0.18
A	CLNG	PATT		A-CLNG-PATT	Ceiling patterns	8	Continuous	0.18
A	CLNG	SUSP		A-CLNG-SUSP	Suspended elements, ceiling mounted specialties (e.g., clocks, fans, etc.)	5	Continuous	0.18
A	CLNG	TEES		A-CLNG-TEES	Main tees	5	Continuous	0.18
COLS - Columns								
A	COLS	ENCL		A-COLS-ENCL	Column enclosures/fire protection	4	Continuous	0.50
DETL - Detail Information								
A	DETL	GRPH		A-DETL-GRPH	Graphics	7	Continuous	V
A	DETL	INPD		A-DETL-INPD	Inch-pound-specific dimensions and notes	2	Continuous	0.35
A	DETL	METR		A-DETL-METR	Metric-specific dimensions and notes	2	Continuous	0.35
DOOR - Doors								
A	DOOR			A-DOOR	Doors, including swing	31	Continuous	0.25
A	DOOR	FULL		A-DOOR-FULL	Full height (to ceiling) door: swing and leaf	6	Continuous	0.35



Layer Name Parts			Layer Name	Description	Color Code	Line Type	Line Width (mm)	
A	DOOR	IDEN	A-DOOR-IDEN	Door number and symbol, hardware group, etc.	31	Continuous	0.25	
A	DOOR	OVHD	A-DOOR-OVHD	Overhead coiling/Roll-up doors	31	Continuous	0.25	
A	DOOR	PRHT	A-DOOR-PRHT	Partial height door: swing and leaf	6	Continuous	0.35	
A	DOOR	SLDG	A-DOOR-SLDG	Sliding glass doors	31	Continuous	0.25	
A	DOOR	SYMB	A-DOOR-SYMB	Miscellaneous door symbols (e.g., overhead, bifold, pocket, etc.)	1	Continuous	0.25	
ELEV - Elevations								
A	ELEV	CASE	A-ELEV-CASE	Wall-mounted casework	3	Continuous	0.25	
A	ELEV	FIXT	A-ELEV-FIXT	Miscellaneous fixtures	2	Continuous	0.35	
A	ELEV	FNSH	A-ELEV-FNSH	Finishes, woodwork, trim	3	Continuous	0.25	
A	ELEV	IDEN	A-ELEV-IDEN	Component identification numbers	2	Continuous	0.35	
A	ELEV	OTLN	A-ELEV-OTLN	Building outlines	6	Continuous	0.35	
A	ELEV	PATT	A-ELEV-PATT	Textures and hatch patterns	8	Continuous	0.18	
A	ELEV	PFIX	A-ELEV-PFIX	Plumbing fixtures	6	Continuous	0.35	
A	ELEV	SIGN	A-ELEV-SIGN	Signage	1	Continuous	0.25	
EQPM - Equipment								
A	EQPM		A-EQPM	General equipment, ducts, mechanical shafts	6	Continuous	0.35	
A	EQPM	ACCS	A-EQPM-ACCS	Equipment access	6	Continuous	0.35	
A	EQPM	BELW	A-EQPM-BELW	Equipment below Floor	4	Continuous	0.50	
A	EQPM	CLRN	A-EQPM-CLRN	Equipment clearance	4	Continuous	0.50	
A	EQPM	FIDS	A-EQPM-FIDS	Flight Information Display Systems	6	Continuous	0.35	
A	EQPM	FIXD	A-EQPM-FIXD	Fixed equipment	4	Continuous	0.50	
A	EQPM	IDEN	A-EQPM-IDEN	Equipment identification numbers	6	Continuous	0.35	
A	EQPM	JETB	A-EQPM-JETB	Jet bridges	8	Continuous	0.18	
A	EQPM	JETB	COLS	A-EQPM-JETB-COLS	Jet bridge columns	8	Continuous	0.18
A	EQPM	MOVE	A-EQPM-MOVE	Moveable equipment	6	Continuous	0.35	
A	EQPM	NICN	A-EQPM-NICN	Not in contract equipment	6	3	0.35	



Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
A	EQPM	OVHD		A-EQPM-OVHD	Overhead, ceiling mounted, or suspended equipment	6	Continuous	0.35
A	EQPM	SECU		A-EQPM-SECU	Security equipment	6	Continuous	0.35
A	EVAC	CORD		A-EVAC-CORD	Evacuation Corridor	51	Continuous	0.35
FLOR - Floor Information								
A	FLOR	CASE		A-FLOR-CASE	Casework (manufactured cabinets)	31	Continuous	V
A	FLOR	CASE	OVHD	A-FLOR-CASE-OVHD	Casework (manufactured cabinets) - overhead	31	2	0.25
A	FLOR	CATW		A-FLOR-CATW	Catwalks, raised platforms, etc. located within interior spaces	7	Continuous	0.35
A	FLOR	DRAIN		A-FLOR-DRAIN	Drainage	8	HIDDEN2	V
A	FLOR	ESCL		A-FLOR-ESCL	Escalators	31	Continuous	0.35
A	FLOR	EVTR		A-FLOR-EVTR	Elevator cars and equipment	31	Continuous	0.35
A	FLOR	EXPJ		A-FLOR-EXPJ	Expansion and Seismic Joints	31	Continuous	0.35
A	FLOR	FENC		A-FLOR-FENC	Interior fence	6	FENCE_LINE	V
A	FLOR	FIXT		A-FLOR-FIXT	Architectural fixtures - cubicles	3	Continuous	0.25
A	FLOR	FURN		A-FLOR-FURN	Furniture [Mainly for fixed benches]	31	Continuous	0.25
A	FLOR	HRAL		A-FLOR-HRAL	Guardrails [excluding stair handrails]	31	Continuous	0.25
A	FLOR	IDEN		A-FLOR-IDEN	Room name, space identification text	3	Continuous	0.25
A	FLOR	LADR		A-FLOR-LADR	Ladders	2	Continuous	0.35
A	FLOR	LEVL		A-FLOR-LEVL	Level changes, shafts, ramps, pits, breaks in construction, and depressions	31	Continuous	0.25
A	FLOR	MVWK		A-FLOR-MVWK	Moving Walkways	31	Continuous	0.25
A	FLOR	NUMB		A-FLOR-NUMB	Room/space identification number and symbol	3	Continuous	0.25
A	FLOR	OTLN		A-FLOR-OTLN	Floor outline/perimeter/building footprint	6	Continuous	0.35
A	FLOR	OTLN	RPRM	A-FLOR-OTLN-RPRM	Room perimeter shape (Interior walls)	2	Continuous	0.35
A	FLOR	OVHD		A-FLOR-OVHD	Overhead items (skylights, overhangs etc.)	8	HIDDEN2	V
A	FLOR	PATT		A-FLOR-PATT	Paving, tile, carpet patterns, & carpet edge lines	8	Continuous	0.18
A	FLOR	RAIS		A-FLOR-RAIS	Access (raised) flooring	3	Continuous	0.25



Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
A	FLOR	SIDA	PUBL	A-FLOR-SIDA-PUBL	Security identification display area (SIDA) - Public	3	Continuous	0.25
A	FLOR	SIDA	RSTR	A-FLOR-SIDA-RSTR	Security identification display area (SIDA) - Restricted	1	Continuous	0.25
A	FLOR	SIDA	SECU	A-FLOR-SIDA-SECU	Security identification display area (SIDA) - Secure	2	Continuous	0.25
A	FLOR	SIDA	STRL	A-FLOR-SIDA-STRL	Security identification display area (SIDA) - Sterile	161	Continuous	0.25
A	FLOR	SIDE	UNKN	A-FLOR-SIDE-UNKN	Security identification display area (SIDA) - Unknown	40	Continuous	0.25
A	FLOR	SIGN		A-FLOR-SIGN	Signage	1	Continuous	0.25
A	FLOR	SPCL		A-FLOR-SPCL	Architectural specialties (e.g. display cases) [Toilet accessories are to go in P-FIXT]	3	Continuous	0.25
A	FLOR	STRS		A-FLOR-STRS	Stairs risers/treads, ladders [Including stair and balcony handrails] and [Excluding escalators; see A-FLOR-ESCL]	31	Continuous	0.35
A	FLOR	TPTN		A-FLOR-TPTN	Toilet partitions	1	Continuous	0.25
A	FLOR	WDWK		A-FLOR-WDWK	Architectural woodwork (field built cabinets and counters)	3	Continuous	0.25
A	GLAZ			A-GLAZ	Window glazing, mullions	151	Continuous	0.25
A	GLAZ	FULL		A-GLAZ-FULL	Full height glazed walls and partitions (see A-WALL-CWMG for curtain walls)	1	Continuous	0.25
A	GLAZ	IDEN		A-GLAZ-IDEN	Window number and symbol	3	Continuous	0.25
A	GLAZ	PRHT		A-GLAZ-PRHT	Windows and partial height glazed partitions	1	Continuous	0.25
A	GLAZ	SILL		A-GLAZ-SILL	Window sills	50	Continuous	V
HVAC - Heat/Cool System								
A	HVAC	VENT		A-HVAC-VENT	HVAC vents	1	Continuous	V
A	HVAC	ZONE		A-HVAC-ZONE	HVAC zones within a building controlled by specific units	191	Continuous	V
LITE - Lights								
A	LITE	CLNG		A-LITE-CLNG	Specialty ceiling lights not shown on Electrical Lighting Plan	4	Continuous	0.50
PROP - Property Information								
A	PROP	LEAS		A-PROP-LEAS	Lease line (interior)	6	Continuous	0.35
ROOF - Roof Information								



Layer Name Parts					Layer Name	Description	Color Code	Line Type	Line Width (mm)
A	ROOF				A-ROOF	Roof crickets, drains, flow arrows, level changes	3	Continuous	0.25
A	ROOF	CATW			A-ROOF-CATW	Identified passageways on a roof	7	Continuous	0.35
A	ROOF	CRTS			A-ROOF-CRTS	Crickets flow arrows flow info	1	Continuous	0.25
A	ROOF	EQPM			A-ROOF-EQPM	Roof Equipment	5	Continuous	0.18
A	ROOF	EXPJ			A-ROOF-EXPJ	Expansion joints	5	Continuous	0.18
A	ROOF	GUTR			A-ROOF-GUTR	Roof internal gutters	8	Continuous	0.18
A	ROOF	HRAL			A-ROOF-HRAL	Stair handrails, nosings, guard rails	5	Continuous	0.18
A	ROOF	LEVL			A-ROOF-LEVL	Level changes	5	Continuous	0.18
A	ROOF	OPEN			A-ROOF-OPEN	Roof Open Below ('X' line symbol)	7	Continuous	0.25
A	ROOF	OTLN			A-ROOF-OTLN	Roof perimeter/edge, roof geometry	6	Continuous	0.35
A	ROOF	PATT			A-ROOF-PATT	Roof surface patterns, hatching	8	Continuous	0.18
A	ROOF	RFDR			A-ROOF-RFDR	Roof drains	1	Continuous	0.25
A	ROOF	SPCL			A-ROOF-SPCL	Roof specialties, accessories, access hatches, dormers [and skylights]	3	Continuous	0.25
A	ROOF	STRS			A-ROOF-STRS	Stair risers/treads, ladders	5	Continuous	0.18
A	ROOF	WALK			A-ROOF-WALK	Roof walkways	3	Continuous	0.25
A	ROOF	WALL			A-ROOF-WALL	Parapet walls and wall caps	2	Continuous	0.35
SECT - Sections									
A	SECT	IDEN			A-SECT-IDEN	Component identification numbers	2	Continuous	0.35
A	SECT	MBND			A-SECT-MBND	Material beyond section cut	5	Continuous	0.18
A	SECT	MCUT			A-SECT-MCUT	Material cut by section	7	Continuous	V
A	SECT	PATT			A-SECT-PATT	Textures and hatch patterns	8	Continuous	0.18
SHBD - Title Block									
A	SHBD	SYMB	ATTR		A-SHBD-SYMB-ATTR	Symbol attributes	3	Continuous	V
A	SHBD	SYMB	SCAL		A-SHBD-SYMB-SCAL	Scale bar / text	12	Continuous	V
A	SHBD	TITL	ATTR		A-SHBD-TITL-ATTR	Title block attributes	3	Continuous	V
A	SHBD	WAVR	TEXT		A-SHBD-WAVR-TEXT	Waivers / disclaimers	2	Continuous	V



Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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STAT - Demolition (used only in existing demolition model files)

A	STAT	DEMO		A-STAT-DEMO	Demolition	6	2	0.35
A	STAT	DEMO	PHS1	A-STAT-DEMO-PHS1	Demolition - phase 1	203	Continuous	0.50
A	STAT	DEMO	PHS2	A-STAT-DEMO-PHS2	Demolition - phase 2	83	Continuous	0.50
A	STAT	DEMO	PHS3	A-STAT-DEMO-PHS3	Demolition - phase 3	163	Continuous	0.50
A	STAT	EXST		A-STAT-EXST	Existing to remain	3	Continuous	0.25
A	STAT	FUTR		A-STAT-FUTR	Future work	2	7	0.35
A	STAT	MOVE		A-STAT-MOVE	Items to be moved	6	6	0.35
A	STAT	NEWW		A-STAT-NEWW	New work	4	Continuous	0.50
A	STAT	NICN		A-STAT-NICN	Not in contract	8	3	0.18
A	STAT	PHS#		A-STAT-PHS#	Phase numbers (#=1-9)	2	Continuous	0.35
A	STAT	RELO		A-STAT-RELO	Relocated items	5	2	0.18
A	STAT	TEMP		A-STAT-TEMP	Temporary work	4	4	0.50

SYMB - Symbology

A	SYMB	ATTR		A-SYMB-ATTR	Attributes	3	Continuous	V
A	SYMB	FIDS		A-SYMB-FIDS	FIDS monitors	6	Continuous	V
A	SYMB	PHON		A-SYMB-PHON	Phone	6	Continuous	V
A	SYMB	VNDG		A-SYMB-VNDG	Vending machine	6	Continuous	V

WALL - Walls

A	WALL	CAVI		A-WALL-CAVI	Cavity wall lines	1	Continuous	0.25
A	WALL	CNTR		A-WALL-CNTR	Wall centerlines	5	7	0.18
A	WALL	CWMG		A-WALL-CWMG	Curtain wall mullions and glass	1	Continuous	0.25
A	WALL	EXTR		A-WALL-EXTR	Exterior walls	3	Continuous	0.35
A	WALL	FIRE		A-WALL-FIRE	Fire wall designators (patterning)	2	Continuous	0.35
A	WALL	FULL	EXTR	A-WALL-FULL-EXTR	Exterior full height walls	2	Continuous	0.35
A	WALL	FULL	INTR	A-WALL-FULL-INTR	Interior full height walls	3	Continuous	0.25
A	WALL	HEAD		A-WALL-HEAD	Door and window headers (appear on Reflected	1	Continuous	0.25



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

ARCHITECTURAL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
A	WALL	IDEN		A-WALL-IDEN	Wall identification/type text or tags	3	Continuous	0.25
A	WALL	INTR		A-WALL-INTR	Exterior walls	121	Continuous	0.25
A	WALL	JAMB		A-WALL-JAMB	Door and window jambs (do not appear on Reflected Ceiling Plan)	1	Continuous	0.25
A	WALL	MOVE		A-WALL-MOVE	Moveable walls/partitions	5	Continuous	0.18
A	WALL	PATT		A-WALL-PATT	Wall insulation, hatching, and fill	8	Continuous	0.18
A	WALL	PRHT		A-WALL-PRHT	Partial height walls	1	Continuous	0.25
A	WALL	SPCL		A-WALL-SPCL	Wall-hung/attached specialties (e.g., fixtures, grab bars (incl. handicap), telephone booths)	1	Continuous	0.25



Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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GEOTECHNICAL

ANNO - General Information

B	ANNO	DIMS		B-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	7	Continuous	V
B	ANNO	KEYN		B-ANNO-KEYN	Reference keynotes with associated leaders	7	Continuous	V
B	ANNO	LEGN		B-ANNO-LEGN	Legend & Schedule	7	Continuous	V
B	ANNO	NOTE		B-ANNO-NOTE	General notes and general remarks	2	Continuous	0.35
B	ANNO	NPLT		B-ANNO-NPLT	Non-plotting graphic information	5	Continuous	0.18
B	ANNO	PATT		B-ANNO-PATT	Miscellaneous patterning and hatching	8	Continuous	0.18
B	ANNO	REDL		B-ANNO-REDL	Redlines	1	Continuous	0.25
B	ANNO	REFR		B-ANNO-REFR	Reference files (AutoCAD users only, see Chapter 4)	7	Continuous	V
B	ANNO	REVS		B-ANNO-REVS	Revisions	4	Continuous	0.50
B	ANNO	SYMB		B-ANNO-SYMB	Miscellaneous symbols	6	Continuous	0.35
B	ANNO	TEXT		B-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	7	Continuous	V

BORE - Boring / Perc Holes

B	BORE	ELEV		B-BORE-ELEV	Boring elevations	3	Continuous	0.25
B	BORE	FDTA		B-BORE-FDTA	Field data	3	Continuous	0.25
B	BORE	HOLE		B-BORE-HOLE	Bore/perc hole number	2	Continuous	0.35
B	BORE	IDEN		B-BORE-IDEN	Component identification numbers	2	Continuous	0.35
B	BORE	LDTA		B-BORE-LDTA	Laboratory data	1	Continuous	0.25
B	BORE	PATT		B-BORE-PATT	Pattern	8	Continuous	0.18



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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CIVIL

AIRF - Airfield

C	AIRF	AHOA		C-AIRF-AHOA	Aircraft / Helicopter Operations Area	84	3	0.70
C	AIRF	AIDC		C-AIRF-AIDC	Airfield Navigational Aid - Critical Area	2	Continuous	0.35
C	AIRF	AIDS		C-AIRF-AIDS	Airfield Navigational Aid - Site	2	Continuous	0.35
C	AIRF	AIDS	BCNS	C-AIRF-AIDS-BCNS	Airway beacons	7	Continuous	V
C	AIRF	AIDS	COMM	C-AIRF-AIDS-COMM	Communications airfield navigational aides	2	Continuous	0.35
C	AIRF	AIDS	GPS_	C-AIRF-AIDS-GPS_	GPS airfield navigational aides	2	Continuous	0.35
C	AIRF	AIDS	ILS_	C-AIRF-AIDS-ILS_	Airfield Instrument Landing System	2	Continuous	0.35
C	AIRF	AIDS	MCWV	C-AIRF-AIDS-MCWV	Microwave airfield navigational aides	2	Continuous	0.35
C	AIRF	AIDS	OTHR	C-AIRF-AIDS-OTHR	Other airfield navigational aides	2	Continuous	0.35
C	AIRF	AIDS	RADI	C-AIRF-AIDS-RADI	Radio airfield navigational aides	2	Continuous	0.35
C	AIRF	AIDS	RADR	C-AIRF-AIDS-RADR	Radar airfield navigational aides	2	Continuous	0.35
C	AIRF	AIDS	RMTE	C-AIRF-AIDS-RMTE	Remote airfield navigational aides	2	Continuous	0.35
C	AIRF	AIDS	WTHR	C-AIRF-AIDS-WTHR	Weather airfield navigational aides	2	Continuous	0.35
C	AIRF	APLN		C-AIRF-APLN	Docked airplanes	8	Continuous	0.18
C	AIRF	DSRF	BLDR	C-AIRF-DSRF-BLDR	Building Restriction Line	3	Continuous	0.25
C	AIRF	DSRF	KEYH	C-AIRF-DSRF-KEYH	Key holes	3	Continuous	0.25
C	AIRF	DSRF	NMOV	C-AIRF-DSRF-NMOV	Aircraft Non-Movement Area	3	Continuous	0.25
C	AIRF	DSRF	OFA_	C-AIRF-DSRF-OFA_	Object Free Area	3	Continuous	0.25
C	AIRF	DSRF	OFZ_	C-AIRF-DSRF-OFZ_	Object Free Zone	3	Continuous	0.25
C	AIRF	DSRF	POFA	C-AIRF-DSRF-POFA	Precision Object Free Area	3	Continuous	0.25
C	AIRF	DSRF	RPZ_	C-AIRF-DSRF-RPZ_	Runway Protection Zone	3	Continuous	0.25
C	AIRF	DSRF	RSA_	C-AIRF-DSRF-RSA_	Runway Safety Area	3	Continuous	0.25
C	AIRF	FCLT	MNTC	C-AIRF-FCLT-MNTC	maintenance facility - airfield	201	Continuous	V
C	AIRF	MARK		C-AIRF-MARK	Airfield marking - runway	7	Continuous	V
C	AIRF	MARK	TAXI	C-AIRF-MARK-TAXI	Airfield marking - taxiway	2	Continuous	V



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	AIRF	OBST	LINE	C-AIRF-OBST-LINE	Airspace obstructions - Line	3	Continuous	0.25
C	AIRF	OBST	POLY	C-AIRF-OBST-POLY	Airspace obstructions - Polygon	3	Continuous	0.25
C	AIRF	OBST	PPNT	C-AIRF-OBST-PPNT	Airspace obstructions - Point	3	Continuous	0.25
C	AIRF	PROP		C-AIRF-PROP	Airport property	84	3	0.70
C	AIRF	PVMT		C-AIRF-PVMT	Airfield pavement	8	Continuous	V
C	AIRF	SAFE		C-AIRF-SAFE	Airfield safety features (blast deflector fence); RWY & TWY safety area	1	Continuous	0.3
C	AIRF	SIDA		C-AIRF-SIDA	Security Identification Display Area	84	3	0.70
C	AIRF	TRKL		C-AIRF-TRKL	Flight Track Line	2	Continuous	0.35
C	AIRF	TRKP		C-AIRF-TRKP	Flight Track Point	2	Continuous	0.35
AIRS - Aerospace								
C	AIRS	ISOC		C-AIRS-ISOC	Approach surface isoclines	2	Continuous	0.35
C	AIRS	OTHR		C-AIRS-OTHR	Other airspace surfaces	3	Continuous	0.25
C	AIRS	PART	APRC	C-AIRS-PART-APRC	FAR Part 77 Approach Surface	3	Continuous	0.25
C	AIRS	PART	CONL	C-AIRS-PART-CONL	FAR Part 77 Conical Surface	3	Continuous	0.25
C	AIRS	PART	HORZ	C-AIRS-PART-HORZ	FAR Part 77 Horizontal Surface	3	Continuous	0.25
C	AIRS	PART	PRIM	C-AIRS-PART-PRIM	FAR Part 77 Primary Surface	3	Continuous	0.25
C	AIRS	PART	TRNS	C-AIRS-PART-TRNS	FAR Part 77 Transitional Surface	3	Continuous	0.25
C	AIRS	TERP		C-AIRS-TERP	TERPS surfaces	3	Continuous	0.25
ALGN - Alignments								
C	ALGN	DATA		C-ALGN-DATA	Alignment coordinates and curve data	3	Continuous	0.25
C	ALGN	LINE		C-ALGN-LINE	Alignments	2	4	0.35
ANNO - General Information								
C	ANNO	DIMS		C-ANNO-DIMS	Annotation dimensions	7	Continuous	V
C	ANNO	KEYN		C-ANNO-KEYN	Annotation keynotes	7	Continuous	V
C	ANNO	LEGN		C-ANNO-LEGN	Annotation legend	7	Continuous	V
C	ANNO	NOTE		C-ANNO-NOTE	Annotation notes	2	Continuous	0.35



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	ANNO	NPLT		C-ANNO-NPLT	Non-plotting graphic information	5	Continuous	0.18
C	ANNO	PATT		C-ANNO-PATT	Annotation pattern	8	Continuous	0.18
C	ANNO	REDL		C-ANNO-REDL	Annotation redlines	1	Continuous	0.25
C	ANNO	REFR		C-ANNO-REFR	Annotation references	7	Continuous	V
C	ANNO	REVS		C-ANNO-REVS	Annotation revisions	4	Continuous	0.50
C	ANNO	SYMB		C-ANNO-SYMB	Annotation symbols	6	Continuous	0.35
C	ANNO	TEXT		C-ANNO-TEXT	Annotation text	7	Continuous	V
APRN - Apron								
C	APRN	ACPK		C-APRN-ACPK	Aircraft gate/stand parking area	4	Continuous	0.50
C	APRN	ACPK	LSHC	C-APRN-ACPK-LSHC	Aircraft parking - Leasehold controlled	51	Continuous	0.35
C	APRN	ACPK	OPSC	C-APRN-ACPK-OPSC	Aircraft parking - Operations controlled	4	Continuous	V
C	APRN	ACPK	PRMC	C-APRN-ACPK-PRMC	Aircraft parking - Permit controlled	211	Continuous	V
C	APRN	ACPK	PROP	C-APRN-ACPK-PROP	Aircraft parking - proposed	7	Continuous	0.35
C	APRN	ANOM		C-APRN-ANOM	Aircraft non-movement area	4	Continuous	0.50
C	APRN	CNTR		C-APRN-CNTR	Centerlines	1	7	0.25
C	APRN	CNTR	IDEN	C-APRN-CNTR-IDEN	Centerline annotation	2	Continuous	0.35
C	APRN	DEIC		C-APRN-DEIC	Aircraft Deicing Area	4	Continuous	0.50
C	APRN	GRND		C-APRN-GRND	Grounding points	2	Continuous	0.35
C	APRN	HOLD		C-APRN-HOLD	Holding position markings	1	Continuous	0.25
C	APRN	IDEN		C-APRN-IDEN	Annotation	2	Continuous	0.35
C	APRN	JOIN		C-APRN-JOIN	Apron joints	2	Continuous	0.35
C	APRN	MOOR		C-APRN-MOOR	Mooring points	2	Continuous	0.35
C	APRN	MRKG		C-APRN-MRKG	Apron markings	4	Continuous	0.50
C	APRN	OTLN		C-APRN-OTLN	Airfield apron - outlines	4	Continuous	0.50
C	APRN	SECU		C-APRN-SECU	Security zone markings	1	Continuous	0.25
C	APRN	SECU	GATE	C-APRN-SECU-GATE	Security perimeter gate - apron	26	Continuous	0.25
C	APRN	SECU	WALL	C-APRN-SECU-WALL	Security perimeter wall - apron	2	Continuous	0.25



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	APRN	SHLD		C-APRN-SHLD	Shoulder stripes	2	Continuous	0.35
C	APRN	ZONE		C-APRN-ZONE	Aircraft parking area numbering zones by Airport Operations	211	Continuous	V
BLDG - Buildings								
C	BLDG	IDEN		C-BLDG-IDEN	Building and other structure annotation	2	Continuous	0.35
C	BLDG	OTLN		C-BLDG-OTLN	Buildings and other structures	7	Continuous	0.70
C	BLDG	PATT		C-BLDG-PATT	Building hatching and patterns	7	Continuous	0.35
BORW - Borrow Areas								
C	BORW	IDEN		C-BORW-IDEN	Borrow/Spoil area annotation	2	Continuous	0.35
C	BORW	LINE		C-BORW-LINE	Borrow/Spoil area	2	2	0.35
CHAN - Channels (waterway)								
C	CHAN	AIDS		C-CHAN-AIDS	Navigation aids and text	2	Continuous	0.35
C	CHAN	CNTR		C-CHAN-CNTR	Channel centerline and survey report lines	5	4	0.18
C	CHAN	CNTR	IDEN	C-CHAN-CNTR-IDEN	Channel centerline and survey report lines -annotation	5	Continuous	0.18
C	CHAN	DACL		C-CHAN-DACL	De-authorized channel limits, anchorages, etc.	3	Continuous	0.25
C	CHAN	DACL	IDEN	C-CHAN-DACL-IDEN	De-authorized channel limits, anchorages, etc. - annotation	3	Continuous	0.25
C	CHAN	IDEN		C-CHAN-IDEN	Channel limits, anchorages, turning basins, disposal areas, etc. - annotation	6	Continuous	0.35
C	CHAN	LIMT		C-CHAN-LIMT	Channel limits, anchorages, turning basins, disposal areas, etc.	6	Continuous	0.35
C	CHAN	TURN		C-CHAN-TURN	Turning points	2	Continuous	0.35
COMM - Communications								
C	COMM	SPLC		C-COMM-SPLC	Splice	40	Continuous	V
C	COMM	TERM		C-COMM-TERM	Terminal	40	Continuous	V
DETL - Detail Information								
C	DETL	CONC		C-DETL-CONC	Concrete	6	Continuous	0.35
C	DETL	COVR		C-DETL-COVR	Covers and fittings	6	Continuous	0.35



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts			Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	DETL	ERTH	C-DETL-ERTH	Earth	3	Continuous	0.25
C	DETL	FAST	C-DETL-FAST	Fasteners	1	Continuous	0.25
C	DETL	FENC	C-DETL-FENC	Fencing	6	Continuous	0.35
C	DETL	FILL	C-DETL-FILL	Fill	5	Continuous	0.18
C	DETL	GENF	C-DETL-GENF	General features (miscellaneous items)	7	Continuous	V
C	DETL	GRPH	C-DETL-GRPH	Graphics, gridlines, non-text items	7	Continuous	V
C	DETL	INPD	C-DETL-INPD	Inch-pound-specific dimensions and notes	1	Continuous	0.25
C	DETL	METR	C-DETL-METR	Metric-specific dimensions and notes	3	Continuous	0.25
C	DETL	PAVE	C-DETL-PAVE	Pavements	2	Continuous	0.35
C	DETL	PIPE	C-DETL-PIPE	Piping	6	Continuous	0.35
C	DETL	SPCF	C-DETL-SPCF	Special features	2	Continuous	0.35
C	DETL	STRC	C-DETL-STRC	Structural metal	6	Continuous	0.35
C	DETL	TANK	C-DETL-TANK	Tanks	2	Continuous	0.35
C	DETL	VLVE	C-DETL-VLVE	Valves and fittings	2	Continuous	0.35
DRED - Dredging							
C	DRED	LIMT	C-DRED-LIMT	Dredge limit lines	4	Continuous	0.50
C	DRED	OHWM	C-DRED-OHWM	Ordinary high water marks	2	Continuous	0.35
ELEV - Elevation							
C	ELEV	FIXT	C-ELEV-FIXT	Miscellaneous fixtures	2	Continuous	0.35
C	ELEV	IDEN	C-ELEV-IDEN	Component identification numbers	2	Continuous	0.35
C	ELEV	OTLN	C-ELEV-OTLN	Building outlines	6	Continuous	0.35
C	ELEV	PATT	C-ELEV-PATT	Textures and hatch patterns	8	Continuous	0.18
C	ELEV	SIGN	C-ELEV-SIGN	Signage	1	Continuous	0.25
ENVR - Environmental							
C	ENVR	LEED	C-ENVR-LEED	LEED Habitat Credit Set-Aside Areas	11	Continuous	V
FUEL - Liquid Fuel							
C	FUEL	ABND	C-FUEL-ABND	Abandoned piping	6	2	0.35



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	FUEL	DEFL		C-FUEL-DEFL	Defueling piping	6	Continuous	0.35
C	FUEL	DEVC		C-FUEL-DEVC	Air eliminators, filter strainers, hydrant fill points, line vents, markers, oil/water separators, reducers, regulators, and valves	6	Continuous	0.35
C	FUEL	DEVC	REDC	C-FUEL-DEVC-REDC	Reducers	50	Continuous	V
C	FUEL	DEVC	REGU	C-FUEL-DEVC-REGU	Regulators	50	Continuous	V
C	FUEL	DEVC	SOUR	C-FUEL-DEVC-SOUR	Sources	50	Continuous	V
C	FUEL	DEVC	WSEP	C-FUEL-DEVC-WSEP	Oil - Water separator	50	Continuous	V
C	FUEL	FLOW		C-FUEL-FLOW	Flow direction arrows	6	Continuous	0.35
C	FUEL	FTTG		C-FUEL-FTTG	Caps, crosses, and tees	6	Continuous	0.35
C	FUEL	HYDR		C-FUEL-HYDR	Hydrant control pits	3	Continuous	0.25
C	FUEL	IDEN		C-FUEL-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
C	FUEL	JBOX		C-FUEL-JBOX	Junction boxes, manholes, hand holes, test boxes	1	Continuous	0.25
C	FUEL	JBOX	MHOL	C-FUEL-JBOX-MHOL	Manholes	50	Continuous	V
C	FUEL	MAIN		C-FUEL-MAIN	Main fuel piping	6	LIQPET	0.35
C	FUEL	METR		C-FUEL-METR	Meters	3	Continuous	0.25
C	FUEL	MHOL	PROP	C-FUEL-MHOL-PROP	Proposed manholes	95	Continuous	V
C	FUEL	PITS	IDEN	C-FUEL-PITS-IDEN	Pits	1	Continuous	0.25
C	FUEL	PITS	VENT	C-FUEL-PITS-VENT	Vent pits	50	Continuous	V
C	FUEL	PITS	VLVE	C-FUEL-PITS-VLVE	Valve pits	50	Continuous	V
C	FUEL	PROP		C-FUEL-PROP	Proposed	160	Continuous	V
C	FUEL	PUMP		C-FUEL-PUMP	Booster pump stations	6	Continuous	0.35
C	FUEL	REMV		C-FUEL-REMV	Removed / demolished	83	Continuous	V
C	FUEL	SERV		C-FUEL-SERV	Service piping	6	Continuous	0.35
C	FUEL	TANK		C-FUEL-TANK	Fuel tanks	3	Continuous	0.25
C	FUEL	TANK	PROP	C-FUEL-TANK-PROP	Proposed tanks	83	Continuous	V
C	FUEL	TRCH		C-FUEL-TRCH	Fuel line trench	3	Continuous	0.25



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	FUEL	VENT		C-FUEL-VENT	Vents	3	Continuous	0.25
C	FUEL	VLVE		C-FUEL-VLVE	Valves and fittings	3	Continuous	0.25
C	FUEL	VLVE	PROP	C-FUEL-VLVE-PROP	Proposed valves	200	Continuous	0.25
CRAD - Grade Line Work								
C	GRAD	EXST		C-GRAD-EXST	Existing grade, ground line	6	3	0.35
C	GRAD	FNSH		C-GRAD-FNSH	Finished grade	4	Continuous	0.50
CRID - Grid Lines								
C	GRID	FRAM		C-GRID-FRAM	Frame	4	Continuous	0.50
C	GRID	MAJR		C-GRID-MAJR	Major grid lines	1	Continuous	0.25
C	GRID	MINR		C-GRID-MINR	Minor grid lines	8	1	0.18
C	GRID	TEXT		C-GRID-TEXT	Border text, annotation	2	Continuous	0.35
CRND - Ground Lease								
C	GRND	LEAS		C-GRND-LEAS	Ground lease	6	Continuous	0.35
HELI - Heliports								
C	HELI	BLST		C-HELI-BLST	Blast pad and stop way markings	1	Continuous	0.25
C	HELI	CNTR		C-HELI-CNTR	Centerline	1	Continuous	0.25
C	HELI	CNTR	MARK	C-HELI-CNTR-MARK	Centerline markings	1	Continuous	0.25
C	HELI	DISP		C-HELI-DISP	Displaced threshold markings	1	Continuous	0.25
C	HELI	DIST		C-HELI-DIST	Fixed distance markings	1	Continuous	0.25
C	HELI	FATO		C-HELI-FATO	Helipad FATO	1	Continuous	0.25
C	HELI	IDEN		C-HELI-IDEN	Heliport numbers and letters	2	Continuous	0.35
C	HELI	SHLD		C-HELI-SHLD	Shoulder markings	6	Continuous	0.35
C	HELI	SIDE		C-HELI-SIDE	Side stripes	4	Continuous	0.50
C	HELI	TDZM		C-HELI-TDZM	Touchdown zone markers	6	Continuous	0.35
C	HELI	THRS		C-HELI-THRS	Threshold markers	6	Continuous	0.35
C	HELI	TLOF		C-HELI-TLOF	Helipad take off and landing area	1	Continuous	0.25
INDW - Industrial Waste Water								



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	INDW	ABND		C-INDW-ABND	Abandoned piping	6	2	0.35
C	INDW	DEVC		C-INDW-DEVC	Grit chambers, meters, flumes, neutralizers, oil/water separators, ejectors, tanks, and valves	6	Continuous	0.35
C	INDW	FLOW		C-INDW-FLOW	Flow direction arrows	6	Continuous	0.35
C	INDW	FTTG		C-INDW-FTTG	Caps and cleanouts	6	Continuous	0.35
C	INDW	IDEN		C-INDW-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
C	INDW	INLT		C-INDW-INLT	Inlets	6	Continuous	V
C	INDW	JBOX		C-INDW-JBOX	Junction boxes and manholes	1	Continuous	0.25
C	INDW	LAGN		C-INDW-LAGN	Lagoons	6	Continuous	0.35
C	INDW	LIFT		C-INDW-LIFT	Lift stations	6	Continuous	0.35
C	INDW	MAIN		C-INDW-MAIN	Main industrial waste water piping	6	IWASTE	0.35
C	INDW	MHOL		C-INDW-MHOL	Manholes	1	Continuous	V
C	INDW	PLNT		C-INDW-PLNT	Treatment plants	6	Continuous	0.35
C	INDW	RSVR	IDEN	C-INDW-RSVR-IDEN	Identifier tags, symbol modifier, and text	6	Continuous	0.35
C	INDW	SERV		C-INDW-SERV	Industrial waste water service piping	1	Continuous	0.25
C	INDW	SIGN		C-INDW-SIGN	Surface markers/signs	1	Continuous	0.25
C	INDW	STNS	IDEN	C-INDW-STNS-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
JOIN - Joints								
C	JOIN	CNSL		C-JOIN-CNSL	Construction joints - longitudinal	6	Continuous	0.35
C	JOIN	CNST		C-JOIN-CNST	Construction joints - transverse	6	Continuous	0.35
C	JOIN	CNTL		C-JOIN-CNTL	Contraction joints - longitudinal	2	Continuous	0.35
C	JOIN	CNTT		C-JOIN-CNTT	Contraction joints - transverse	2	Continuous	0.35
C	JOIN	EDGE		C-JOIN-EDGE	Thickened edges	4	Continuous	0.50
C	JOIN	EXPN		C-JOIN-EXPN	Expansion joints	12	Continuous	0.35
LAND - Land Cover/Use								
C	LAND	BTPT		C-LAND-BTPT	Batch plant	96	Continuous	V
C	LAND	CMYD		C-LAND-CMYD	Concrete material yard	71	Continuous	V



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts					Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	LAND	PVMT			C-LAND-PVMT	Paved	4	Continuous	0.50
C	LAND	UPVD			C-LAND-UPVD	Unpaved	60	Continuous	0.50
NGAS - Natural Gas									
C	NGAS	ABND			C-NGAS-ABND	Abandoned piping	6	1	0.35
C	NGAS	DEVC			C-NGAS-DEVC	Hydrant fill points, lights, vents, markers, rectifiers, reducers, regulators, sources, tanks, drip pots, taps, and valves	6	Continuous	0.35
C	NGAS	FLOW			C-NGAS-FLOW	Flow direction arrows	6	Continuous	0.25
C	NGAS	FTTG			C-NGAS-FTTG	Caps, crosses, and tees	6	Continuous	0.35
C	NGAS	FTTG	CAPS		C-NGAS-FTTG-CAPS	Caps	220	Continuous	V
C	NGAS	FTTG	CROS		C-NGAS-FTTG-CROS	Cross connections	220	Continuous	V
C	NGAS	FTTG	TEES		C-NGAS-FTTG-TEES	Tee connections	220	Continuous	V
C	NGAS	IDEN			C-NGAS-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
C	NGAS	JBOX			C-NGAS-JBOX	Junction boxes	220	Continuous	V
C	NGAS	MAIN			C-NGAS-MAIN	Main natural gas piping	6	NTGASN	0.35
C	NGAS	METR			C-NGAS-METR	Meters	3	Continuous	0.25
C	NGAS	MHOL			C-NGAS-MHOL	Manholes	220	Continuous	V
C	NGAS	PITS	IDEN		C-NGAS-PITS-IDEN	Identifier tags, symbol modifier, and text	1	Continuous	0.25
C	NGAS	PROP			C-NGAS-PROP	Proposed pipes	210	Continuous	V
C	NGAS	PUMP			C-NGAS-PUMP	Compressor stations	6	Continuous	0.35
C	NGAS	PUMP	BOST		C-NGAS-PUMP-BOST	Pump Stations	220	Continuous	V
C	NGAS	REDC			C-NGAS-REDC	Reduces	6	Continuous	0.35
C	NGAS	REGU			C-NGAS-REGU	Regulators	220	Continuous	V
C	NGAS	REMV			C-NGAS-REMV	Removed pipes	30	Continuous	V
C	NGAS	SERV			C-NGAS-SERV	Service piping	1	Continuous	0.25
C	NGAS	SIGN			C-NGAS-SIGN	Surface markers/signs	1	Continuous	0.25
C	NGAS	STNS	IDEN		C-NGAS-STNS-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts					Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	NGAS	TANK			C-NGAS-TANK	Tanks	2	Continuous	0.35
C	NGAS	VENT			C-NGAS-VENT	Vent pits	3	Continuous	0.25
C	NGAS	VLVE			C-NGAS-VLVE	Valve pits/boxes	3	Continuous	0.25
C	NGAS	VLVE	PITS		C-NGAS-VLVE-PITS	Valve pits	220	Continuous	V
C	NGAS	VLVE	TAPS		C-NGAS-VLVE-TAPS	Taps	220	Continuous	V
OVRN - Overturn Areas									
C	OVRN	CNTR			C-OVRN-CNTR	Centerlines	1	7	0.25
C	OVRN	CNTR	IDEN		C-OVRN-CNTR-IDEN	Centerline annotation	2	Continuous	0.35
C	OVRN	IDEN			C-OVRN-IDEN	Airfield overrun area - annotation	2	Continuous	0.35
C	OVRN	JOIN			C-OVRN-JOIN	Airfield overrun joints	2	Continuous	0.35
C	OVRN	OTLN			C-OVRN-OTLN	Airfield overrun area - outlines	4	Continuous	0.50
C	OVRN	SHLD			C-OVRN-SHLD	Shoulder markings	4	Continuous	0.50
PADS - Pads (Arm/Disarm, Calibration, etc.)									
C	PADS	CNTR			C-PADS-CNTR	Centerlines	1	7	0.25
C	PADS	CNTR	IDEN		C-PADS-CNTR-IDEN	Centerline annotation	2	Continuous	0.35
C	PADS	IDEN			C-PADS-IDEN	Pads - annotation	2	Continuous	0.35
C	PADS	OTLN			C-PADS-OTLN	Pad - outlines	4	Continuous	0.50
C	PADS	SHLD			C-PADS-SHLD	Shoulders with annotation	2	Continuous	0.35
PKNG - Parking Lots									
C	PKNG	CARS			C-PKNG-CARS	Graphic illustration of cars	2	Continuous	0.35
C	PKNG	CNTR			C-PKNG-CNTR	Centerlines	1	7	0.25
C	PKNG	CNTR	IDEN		C-PKNG-CNTR-IDEN	Centerline annotation	6	Continuous	0.35
C	PKNG	CURB			C-PKNG-CURB	Curbs and gutters	3	Continuous	0.25
C	PKNG	DRAN			C-PKNG-DRAN	Parking lot drainage slope indications	1	Continuous	0.25
C	PKNG	EQPM			C-PKNG-EQPM	Parking Equipment (I.e. booths, gates, etc.)	4	Continuous	0.50
C	PKNG	FIXT			C-PKNG-FIXT	Parking lot fixtures (e.g., wheel stops, parking meters)	91	Continuous	0.25
C	PKNG	IDEN			C-PKNG-IDEN	Parking lot, minor road, and curb annotation	6	Continuous	0.35



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	PKNG	ISLD		C-PKNG-ISLD	Parking islands	4	Continuous	0.50
C	PKNG	OTLN		C-PKNG-OTLN	Parking lots	4	Continuous	0.50
C	PKNG	STRP		C-PKNG-STRP	Parking lot striping, handicapped symbols, pavement markings	2	Continuous	0.35
PROF - Profiles								
C	PROF	CUID		C-PROF-CUID	Existing grade and grading cuts - annotation	1	Continuous	0.25
C	PROF	FILL		C-PROF-FILL	New work, grading fills	3	Continuous	0.25
C	PROF	INLT		C-PROF-INLT	Curb and surface inlets, catch basins	3	Continuous	0.25
C	PROF	MHOL		C-PROF-MHOL	Manholes	1	Continuous	0.25
C	PROF	PIPE		C-PROF-PIPE	Piping	6	Continuous	0.35
C	PROF	ROAD		C-PROF-ROAD	Roads	2	Continuous	0.35
PROP - Property								
C	PROP	AREA		C-PROP-AREA	Property interest site	6	Continuous	0.35
C	PROP	CONS		C-PROP-CONS	Construction limits/controls, staging area	7	11	0.70
C	PROP	CONS	ZONE	C-PROP-CONS-ZONE	Construction zones	7	11	0.70
C	PROP	ESMT		C-PROP-ESMT	Easements	84	3	0.70
C	PROP	IDEN		C-PROP-IDEN	Property annotation	6	Continuous	0.35
C	PROP	LEAS		C-PROP-LEAS	Lease line (exterior / ground lease)	6	Continuous	0.35
C	PROP	RWAY		C-PROP-RWAY	Right of ways	7	RTOFWY	0.70
PVMT - Pavement Management								
C	PVMT	ASPH		C-PVMT-ASPH	Pavement pattern - asphalt	8	Continuous	0.18
C	PVMT	BRCH		C-PVMT-BRCH	Pavement management - branch area	6	Continuous	0.35
C	PVMT	CONC		C-PVMT-CONC	Pavement pattern - concrete	8	Continuous	0.18
C	PVMT	GROV		C-PVMT-GROV	Pavement grooving	8	Continuous	0.18
C	PVMT	GRVL		C-PVMT-GRVL	Pavement pattern - gravel	8	Continuous	0.18
C	PVMT	IDEN		C-PVMT-IDEN	Road, parking lot, railroad, airfield pavement annotation	2	Continuous	0.35
C	PVMT	INSP	AC	C-PVMT-INSP-AC	Pavement inspection - asphalt	1	Continuous	0.25



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	PVMT	INSP	PCC	C-PVMT-INSP-PCC	Pavement inspection - concrete	2	Continuous	0.25
C	PVMT	MNTN	AC	C-PVMT-MNTN-AC	Pavement maintenance - asphalt	4	Continuous	0.25
C	PVMT	MNTN	PCC	C-PVMT-MNTN-PCC	Pavement maintenance - concrete	3	Continuous	0.25
C	PVMT	MRKG		C-PVMT-MRKG	Pavement markings	2	Continuous	0.35
C	PVMT	MRKG	WHIT	C-PVMT-MRKG-WHIT	Roadway markings (white)	2	Continuous	0.35
C	PVMT	MRKG	YELO	C-PVMT-MRKG-YELO	Roadway markings (yellow)	2	Continuous	0.35
C	PVMT	PATT		C-PVMT-PATT	Joint patterns, text and dimensions	2	Continuous	0.35
C	PVMT	SAMP		C-PVMT-SAMP	Pavement management - sample area	1	Continuous	0.25
C	PVMT	SECT		C-PVMT-SECT	Pavement management - section area	2	Continuous	0.35
C	PVMT	SIGN		C-PVMT-SIGN	Other signs	2	Continuous	0.35
C	PVMT	SUBS		C-PVMT-SUBS	Pavement management - sub-sample area	4	Continuous	0.13
RAIL - Railroads								
C	RAIL	BRDG		C-RAIL-BRDG	Railroad / Automatic People Mover bridge area	6	Continuous	0.35
C	RAIL	CNTR		C-RAIL-CNTR	Centerlines	1	7	0.25
C	RAIL	CNTR	IDEN	C-RAIL-CNTR-IDEN	Centerline annotation	6	Continuous	0.35
C	RAIL	EQPM		C-RAIL-EQPM	Railroad equipment (e.g., gates, signals)	91	Continuous	0.25
C	RAIL	IDEN		C-RAIL-IDEN	Railroad - annotation	6	Continuous	0.35
C	RAIL	STRU		C-RAIL-STRU	Signal points	1	Continuous	0.35
C	RAIL	TRAK		C-RAIL-TRAK	Railroads	2	Continuous	0.35
C	RAIL	YARD		C-RAIL-YARD	Railroad Yard	2	Continuous	0.35
ROAD - Roads								
C	ROAD	CNTR		C-ROAD-CNTR	Centerlines	1	7	0.25
C	ROAD	CNTR	IDEN	C-ROAD-CNTR-IDEN	Centerline annotation	6	Continuous	0.35
C	ROAD	CURB		C-ROAD-CURB	Curbs & curb ramps	6	Continuous	0.35
C	ROAD	CURB	ADAR	C-ROAD-CURB-ADAR	Curb lines - ADA Access	1	Continuous	0.35
C	ROAD	CURB	UPPR	C-ROAD-CURB-UPPR	Upper level curb lines	8	Continuous	0.35
C	ROAD	DWAY	PVMT	C-ROAD-DWAY-PVMT	Paved driveway	2	Continuous	0.35



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	ROAD	DWAY	UPVD	C-ROAD-DWAY-UPVD	Unpaved driveway	52	Continuous	0.35
C	ROAD	GRAL		C-ROAD-GRAL	Guardrails	6	Continuous	0.35
C	ROAD	IDEN		C-ROAD-IDEN	Road, curb, and guardrail annotation	6	Continuous	0.35
C	ROAD	MEDI		C-ROAD-MEDI	Road medians	3	Continuous	0.40
C	ROAD	MEDI	BARR	C-ROAD-MEDI-BARR	Road median - barriers	153	Continuous	V
C	ROAD	MEDI	ISLD	C-ROAD-MEDI-ISLD	Road median - islands	200	Continuous	0.40
C	ROAD	MEDI	PROP	C-ROAD-MEDI-PROP	Road medians - proposed	131	Continuous	V
C	ROAD	MEDI	STRP	C-ROAD-MEDI-STRP	Road median - striping	42	Continuous	0.40
C	ROAD	OTLN		C-ROAD-OTLN	Roads	4	Continuous	0.50
C	ROAD	OTLN	ALLY	C-ROAD-OTLN-ALLY	Alleys	161	Continuous	V
C	ROAD	OTLN	FRWY	C-ROAD-OTLN-FRWY	Freeways	50	Continuous	V
C	ROAD	OTLN	HGWY	C-ROAD-OTLN-HGWY	Highways	60	Continuous	V
C	ROAD	OTLN	MINR	C-ROAD-OTLN-MINR	Minor Roads	41	Continuous	V
C	ROAD	OTLN	PRIM	C-ROAD-OTLN-PRIM	Primary roads	141	Continuous	V
C	ROAD	OTLN	PROP	C-ROAD-OTLN-PROP	Proposed roads	210	Continuous	V
C	ROAD	OTLN	RSTR	C-ROAD-OTLN-RSTR	Airfield service roads - restricted	5	Continuous	V
C	ROAD	OTLN	SCND	C-ROAD-OTLN-SCND	Secondary roads	121	Continuous	V
C	ROAD	OTLN	SERV	C-ROAD-OTLN-SERV	Airfield service roads	1	Continuous	V
C	ROAD	OTLN	SWLE	C-ROAD-OTLN-SWLE	Swale roads	40	Continuous	V
C	ROAD	OTLN	TWYC	C-ROAD-OTLN-TWYC	Airfield service roads - taxiway crossing	50	Continuous	V
C	ROAD	SHLD		C-ROAD-SHLD	Road shoulders	9	Continuous	0.40
C	ROAD	SHLD	PROP	C-ROAD-SHLD-PROP	Road shoulders - proposed	190	Continuous	V
RUNW - Runways								
C	RUNW	ARST		C-RUNW-ARST	Runway arresting gear location	1	Continuous	0.25
C	RUNW	BLST		C-RUNW-BLST	Blast pad markings	1	Continuous	0.25
C	RUNW	CNTR		C-RUNW-CNTR	Centerline	1	Continuous	0.25
C	RUNW	CNTR	MARK	C-RUNW-CNTR-MARK	Centerline markings	1	Continuous	0.25



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	RUNW	DISP		C-RUNW-DISP	Displaced threshold markings	1	Continuous	0.25
C	RUNW	DIST		C-RUNW-DIST	Fixed distance markings	1	Continuous	0.25
C	RUNW	EDGE		C-RUNW-EDGE	Airfield runway edges	6	Continuous	0.35
C	RUNW	IDEN		C-RUNW-IDEN	Runway numbers and letters	2	Continuous	0.35
C	RUNW	INTS		C-RUNW-INTS	Runway intersection	6	Continuous	0.35
C	RUNW	LAHS		C-RUNW-LAHS	Runway land and hold short area	6	Continuous	0.35
C	RUNW	SAFT		C-RUNW-SAFT	Runway Safety Area	6	Continuous	0.35
C	RUNW	SHLD		C-RUNW-SHLD	Shoulder markings	2	Continuous	0.35
C	RUNW	SIDE		C-RUNW-SIDE	Side stripes	4	Continuous	0.50
C	RUNW	STWY		C-RUNW-STWY	Runway stopway markings	1	Continuous	0.25
C	RUNW	TDZM		C-RUNW-TDZM	Touchdown zone markers	6	Continuous	0.35
C	RUNW	THRS		C-RUNW-THRS	Threshold markers	6	Continuous	0.35
SAFE - Police Responsibility Areas								
C	SAFE	PDBT		C-SAFE-PDBT	Police beat area	3	Continuous	0.25
C	SAFE	PDDS		C-SAFE-PDDS	Police reporting district area	1	Continuous	0.25
C	SAFE	PDSC		C-SAFE-PDSC	Police sector area	5	Continuous	0.25
SECT - Sections								
C	SECT	IDEN		C-SECT-IDEN	Component identification numbers	2	Continuous	0.35
C	SECT	MBND		C-SECT-MBND	Material beyond section cut	5	Continuous	0.18
C	SECT	MCUT		C-SECT-MCUT	Material cut by section	4	Continuous	0.50
C	SECT	PATT		C-SECT-PATT	Textures and hatch patterns	8	Continuous	0.18
SITE - Site Improvements								
C	SITE	AIRF		C-SITE-AIRF	Airfield - paved areas	2	Continuous	V
C	SITE	EROS		C-SITE-EROS	Riprap, revetments/stone protection, breakwaters, dikes, jetties, and drains	1	Continuous	0.25
C	SITE	EROS	IDEN	C-SITE-EROS-IDEN	Riprap, revetment/stone protection, breakwater, dike, jetty, and drain annotation	12	Continuous	0.35



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	SITE	FENC		C-SITE-FENC	Fences [exterior metal barriers & bollards]	6	FENCE_LINE	0.35
C	SITE	FENC	IDEN	C-SITE-FENC-IDEN	Fence, handrail, ramp, sign, and trail annotation	6	Continuous	0.35
C	SITE	GOLF	BNDY	C-SITE-GOLF-BNDY	Golf course area	3	Continuous	V
C	SITE	IDEN		C-SITE-IDEN	Site improvement annotation	6	Continuous	0.35
C	SITE	IFLD		C-SITE-IFLD	Airfield infield - unpaved areas	47	Continuous	0.35
C	SITE	IMPR		C-SITE-IMPR	Site improvements (channel or levee features)	4	Continuous	0.50
C	SITE	IMPR	BILB	C-SITE-IMPR-BILB	Billboard sites	4	Continuous	V
C	SITE	LOAD		C-SITE-LOAD	Cargo loading zones	3	Continuous	V
C	SITE	STRC		C-SITE-STRC	Structures (bridges, sheds, foundation pads, footings, etc.)	22	Continuous	0.35
C	SITE	STRC	COLM	C-SITE-STRC-COLM	Structure columns	3	Continuous	0.35
C	SITE	STRS		C-SITE-STRS	Stairs and ramps	6	Continuous	0.35
C	SITE	WALK		C-SITE-WALK	Walks, trails and bicycle paths	2	Continuous	0.35
C	SITE	WALL		C-SITE-WALL	Walls	6	7	0.18
SSWR - Sanitary Sewer								
C	SSWR	ABND		C-SSWR-ABND	Abandoned piping	6	2	0.35
C	SSWR	DEVC		C-SSWR-DEVC	Grease traps, grit chambers, flumes, neutralizers, oil/water separators, ejectors, and valves	6	Continuous	0.35
C	SSWR	DEVC	DSCG	C-SSWR-DEVC-DSCG	Discharge points	43	Continuous	V
C	SSWR	DEVC	GRES	C-SSWR-DEVC-GRES	Grease traps	43	Continuous	V
C	SSWR	DEVC	IDEN	C-SSWR-DEVC-IDEN	Identifier tags, symbol modifier, and text	6	Continuous	0.35
C	SSWR	DEVC	WSEP	C-SSWR-DEVC-WSEP	Oil - Water separators	43	Continuous	V
C	SSWR	FILT		C-SSWR-FILT	Filtration beds	3	Continuous	0.25
C	SSWR	FILT	IDEN	C-SSWR-FILT-IDEN	Identifier tags, symbol modifier, and text	3	Continuous	0.25
C	SSWR	FLOW		C-SSWR-FLOW	Flow direction arrows	6	Continuous	0.35
C	SSWR	FTTG		C-SSWR-FTTG	Caps and cleanouts	6	Continuous	0.35
C	SSWR	FTTG	CAPS	C-SSWR-FTTG-CAPS	Caps	43	Continuous	V



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	SSWR	FTTG	CLEN	C-SSWR-FTTG-CLEN	Cleanouts	43	Continuous	V
C	SSWR	FTTG	WYES	C-SSWR-FTTG-WYES	Wyes	43	Continuous	V
C	SSWR	GRES		C-SSWR-GRES	Grease waste pipes	183	Continuous	V
C	SSWR	IDEN		C-SSWR-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
C	SSWR	INLT		C-SSWR-INLT	Inlets	43	Continuous	V
C	SSWR	JBOX		C-SSWR-JBOX	Junction boxes and manholes	1	Continuous	0.25
C	SSWR	JBOX	DIST	C-SSWR-JBOX-DIST	Distribution boxes	43	Continuous	V
C	SSWR	JBOX	IDEN	C-SSWR-JBOX-IDEN	Identifier tags, symbol modifier, and text	1	Continuous	0.25
C	SSWR	LAGN		C-SSWR-LAGN	Lagoons	3	Continuous	0.25
C	SSWR	LEAC		C-SSWR-LEAC	Leach field	3	Continuous	0.25
C	SSWR	MAIN		C-SSWR-MAIN	Sanitary sewer piping	6	SSWAF	0.35
C	SSWR	MHOL		C-SSWR-MHOL	Manholes	43	Continuous	V
C	SSWR	MHOL	PROP	C-SSWR-MHOL-PROP	Proposed manholes	93	Continuous	0.25
C	SSWR	NITF		C-SSWR-NITF	Nitrification drain fields	3	Continuous	0.25
C	SSWR	OVER		C-SSWR-OVER	Overflow	43	Continuous	V
C	SSWR	PLNT		C-SSWR-PLNT	Treatment plants	6	Continuous	0.35
C	SSWR	PROP		C-SSWR-PROP	Proposed pipes	105	Continuous	0.35
C	SSWR	PUMP		C-SSWR-PUMP	Booster pump stations	6	Continuous	0.35
C	SSWR	PUMP	EJCT	C-SSWR-PUMP-EJCT	Ejector Station sites	212	Continuous	0.35
C	SSWR	REDC		C-SSWR-REDC	Reducers	43	Continuous	V
C	SSWR	REMV		C-SSWR-REMV	Removed pipes	93	Continuous	0.25
C	SSWR	RSVR	IDEN	C-SSWR-RSVR-IDEN	Identifier tags, symbol modifier, and text	3	Continuous	0.25
C	SSWR	SERV		C-SSWR-SERV	Sanitary sewer service piping	1	Continuous	0.25
C	SSWR	SIGN		C-SSWR-SIGN	Surface markers/signs	1	Continuous	0.25
C	SSWR	STNS	IDEN	C-SSWR-STNS-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
C	SSWR	TANK		C-SSWR-TANK	Septic tanks	3	Continuous	0.25
C	SSWR	VLVE		C-SSWR-VLVE	Valves	43	Continuous	V



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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STAT - Demolition (used only in existing demolition model file)

C	STAT	DEMO		C-STAT-DEMO	Demolition	6	2	0.35
C	STAT	DEMO	PHS1	C-STAT-DEMO-PHS1	Demolition - phase 1	203	Continuous	0.50
C	STAT	DEMO	PHS2	C-STAT-DEMO-PHS2	Demolition - phase 2	83	Continuous	0.50
C	STAT	DEMO	PHS3	C-STAT-DEMO-PHS3	Demolition - phase 3	163	Continuous	0.50
C	STAT	EXST		C-STAT-EXST	Existing to remain	3	Continuous	0.25
C	STAT	FUTR		C-STAT-FUTR	Future work	2	7	0.35
C	STAT	MOVE		C-STAT-MOVE	Items to be moved	6	6	0.35
C	STAT	NEWW		C-STAT-NEWW	New work	4	Continuous	0.50
C	STAT	NICN		C-STAT-NICN	Not in contract	8	3	0.18
C	STAT	PHS#		C-STAT-PHS#	Phase numbers (#=1-9)	2	Continuous	0.35
C	STAT	RELO		C-STAT-RELO	Relocated items	5	2	0.18
C	STAT	TEMP		C-STAT-TEMP	Temporary work	4	4	0.50

STRC - Structures

C	STRC	IDEN		C-STRC-IDEN	Bridges, piers, breakwaters, docks, floats, etc. - annotation	2	Continuous	0.35
C	STRC	OTLN		C-STRC-OTLN	Bridges, piers, breakwaters, docks, floats, etc. -outlines	4	Continuous	0.50
C	STRC	TOWR		C-STRC-TOWR	Tower	4	Continuous	0.50

STRM - Storm Drains

C	STRM	ABND		C-STRM-ABND	Abandoned piping	6	2	0.35
C	STRM	AFFF		C-STRM-AFFF	AFFF lagoon/detention pond	3	Continuous	0.25
C	STRM	CHUT		C-STRM-CHUT	Chutes and concrete erosion control structures	1	Continuous	0.25
C	STRM	CULV		C-STRM-CULV	Culverts	3	CULVRT	0.25
C	STRM	DEVC		C-STRM-DEVC	Downspouts, flumes, oil/water separators, and flap gates	6	Continuous	0.35
C	STRM	DEVC	WSEP	C-STRM-DEVC-WSEP	Oil - Water separators	1	Continuous	V
C	STRM	DRAN		C-STRM-DRAN	Storm drains	3	Continuous	0.25
C	STRM	DRAN	IDEN	C-STRM-DRAN-IDEN	Identifier tags, symbol modifier, and text	3	Continuous	0.25



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	STRM	DSCH		C-STRM-DSCH	Discharge points	1	Continuous	V
C	STRM	EROS		C-STRM-EROS	Erosion control (riprap)	5	Continuous	0.18
C	STRM	FLOW		C-STRM-FLOW	Flow direction arrows	6	Continuous	0.35
C	STRM	FLZN		C-STRM-FLZN	Storm drain flood zone	3	Continuous	0.25
C	STRM	FMON		C-STRM-FMON	Flow monitoring station	6	Continuous	0.35
C	STRM	FTTG		C-STRM-FTTG	Caps and cleanouts	6	Continuous	0.35
C	STRM	FTTG	CAPS	C-STRM-FTTG-CAPS	Caps	1	Continuous	V
C	STRM	FTTG	CLEN	C-STRM-FTTG-CLEN	Cleanouts	1	Continuous	V
C	STRM	FTTG	WYES	C-STRM-FTTG-WYES	Wyes	1	Continuous	V
C	STRM	HDWL		C-STRM-HDWL	Headwalls and endwalls	7	Continuous	0.70
C	STRM	IDEN		C-STRM-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
C	STRM	INLT		C-STRM-INLT	Inlets (curb, surface, and catch basins)	3	Continuous	0.25
C	STRM	INLT	COND	C-STRM-INLT-COND	Condensate Drain	1	Continuous	V
C	STRM	INLT	CTCH	C-STRM-INLT-CTCH	Catch basins	1	Continuous	V
C	STRM	INLT	CURB	C-STRM-INLT-CURB	Curbside inlets	1	Continuous	V
C	STRM	INLT	DROP	C-STRM-INLT-DROP	Drop inlets	1	Continuous	V
C	STRM	INLT	ROOF	C-STRM-INLT-ROOF	Roof inlets	1	Continuous	V
C	STRM	INLT	SURF	C-STRM-INLT-SURF	Surface inlets	1	Continuous	V
C	STRM	JBOX		C-STRM-JBOX	junction boxes	1	Continuous	V
C	STRM	LAGN		C-STRM-LAGN	Lagoons, ponds, watersheds, and basins	3	Continuous	0.25
C	STRM	MAIN		C-STRM-MAIN	Storm sewer piping	6	STRAF	0.35
C	STRM	MHOL		C-STRM-MHOL	Manholes	1	Continuous	0.25
C	STRM	MHOL	PROP	C-STRM-MHOL-PROP	Proposed manholes	105	Continuous	0.35
C	STRM	PROP		C-STRM-PROP	Proposed drains	200	Continuous	0.25
C	STRM	PUMP		C-STRM-PUMP	Pump stations	6	Continuous	0.35
C	STRM	REDC		C-STRM-REDC	Reducers	1	Continuous	V
C	STRM	REMV		C-STRM-REMV	Removed drains	5	2	0.18



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	STRM	ROOF		C-STRM-ROOF	Roof drain line	3	Continuous	0.25
C	STRM	RSVR	IDEN	C-STRM-RSVR-IDEN	Identifier tags, symbol modifier, and text	3	Continuous	0.25
C	STRM	SERV		C-STRM-SERV	Storm sewer service piping	1	Continuous	0.25
C	STRM	SIGN		C-STRM-SIGN	Surface markers/signs	1	Continuous	0.25
C	STRM	STNS	IDEN	C-STRM-STNS-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
C	STRM	STRC		C-STRM-STRC	Storm drainage, headwalls, inlets, manholes, culverts, and drainage structures	4	Continuous	0.50
C	STRM	SUBS		C-STRM-SUBS	Subsurface drain piping	3	Continuous	0.25
C	STRM	TANK		C-STRM-TANK	Storm drain tank area	105	Continuous	0.35
C	STRM	VLVE		C-STRM-VLVE	Valves	1	Continuous	V
SURV - Survey Data								
C	SURV	DATA		C-SURV-DATA	Survey data (benchmarks and horizontal control points or monuments)	6	Continuous	0.35
C	SURV	IDEN		C-SURV-IDEN	Survey, baseline, and control line annotation	6	Continuous	0.35
C	SURV	LINE		C-SURV-LINE	Survey, baseline, and control lines	4	2	0.50
TAXI - Taxiways								
C	TAXI	CNTR		C-TAXI-CNTR	Taxiway centerline	1	Continuous	0.25
C	TAXI	CNTR	IDEN	C-TAXI-CNTR-IDEN	Centerline annotation	2	Continuous	0.35
C	TAXI	CNTR	MARK	C-TAXI-CNTR-MARK	Centerline markings	1	Continuous	0.25
C	TAXI	EDGE		C-TAXI-EDGE	Edge markings	4	Continuous	0.50
C	TAXI	HOLD		C-TAXI-HOLD	Holding lines	2	Continuous	0.35
C	TAXI	IDEN		C-TAXI-IDEN	Annotation	2	Continuous	0.35
C	TAXI	JOIN		C-TAXI-JOIN	Taxiway joints	2	Continuous	0.35
C	TAXI	OTLN		C-TAXI-OTLN	Taxiway - outlines	4	Continuous	0.50
C	TAXI	SHLD		C-TAXI-SHLD	Shoulder transverse stripes	2	Continuous	0.35
TOPO - Topography								
C	TOPO	AUCO		C-TOPO-AUCO	Noise Complaint	6	Continuous	0.35



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	TOPO	AUST		C-TOPO-AUST	Noise Monitoring Station	6	Continuous	0.35
C	TOPO	AUZN		C-TOPO-AUZN	Noise Contour/Zone	6	Continuous	0.35
C	TOPO	BKLN		C-TOPO-BKLN	Break lines	7	4	0.70
C	TOPO	BORE		C-TOPO-BORE	Boring locations	6	Continuous	0.35
C	TOPO	COOR		C-TOPO-COOR	Coordinate grid ticks and text	122	Continuous	0.35
C	TOPO	DTMP		C-TOPO-DTMP	DTM points	6	Continuous	0.35
C	TOPO	DTMT		C-TOPO-DTMT	DTM triangles	22	Continuous	0.35
C	TOPO	FLZN		C-TOPO-FLZN	Flood Zone	6	Continuous	0.35
C	TOPO	MAJR		C-TOPO-MAJR	Major contours	2	Continuous	0.35
C	TOPO	MAJR	IDEN	C-TOPO-MAJR-IDEN	Major contours - annotation	2	Continuous	0.35
C	TOPO	MINR		C-TOPO-MINR	Minor contours	3	Continuous	0.25
C	TOPO	MINR	IDEN	C-TOPO-MINR-IDEN	Minor contours - annotation	3	Continuous	0.25
C	TOPO	RTWL		C-TOPO-RTWL	Retaining wall	7	Continuous	0.70
C	TOPO	SHOR		C-TOPO-SHOR	Shorelines, land features, and references	4	Continuous	0.50
C	TOPO	SLOP		C-TOPO-SLOP	Cut/fill slopes	2	Continuous	0.35
C	TOPO	SLOP	FILL	C-TOPO-SLOP-FILL	Cut/fill slopes	2	Continuous	0.35
C	TOPO	SLOP	IDEN	C-TOPO-SLOP-IDEN	Cut/fill slope, top/toe slope annotation	2	Continuous	0.35
C	TOPO	SLOP	TOPT	C-TOPO-SLOP-TOPT	Top/toe slopes	6	Continuous	0.35
C	TOPO	SLTP		C-TOPO-SLTP	Top/toe slopes	6	Continuous	0.35
C	TOPO	SOUN		C-TOPO-SOUN	Soundings	150	Continuous	0.18
C	TOPO	SPOT		C-TOPO-SPOT	Spot elevations	2	Continuous	0.35
TRAF - Traffic								
C	TRAF	IDEN		C-TRAF-IDEN	Airfield traffic area annotation	2	Continuous	0.35
C	TRAF	TYP A		C-TRAF-TYP A	Type A traffic area	4	4	0.50
C	TRAF	TYP B		C-TRAF-TYP B	Type B traffic area	4	6	0.50
C	TRAF	TYP C		C-TRAF-TYP C	Type C traffic area	4	10	0.50
TXLN - Taxilanes								



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	TXLN	CNTR		C-TXLN-CNTR	Centerlines	2	Continuous	0.35
WATR - Water								
C	WATR	ABND		C-WATR-ABND	Abandoned pipes	140	Continuous	V
C	WATR			C-WATR-EMG	Emergency domestic water connections	5	Continuous	V
C	WATR	FIRE	REMV	C-WATR-FIRE-REMV	Removed fire water pipes	90	4	V
C	WATR	FTTG	BEND	C-WATR-FTTG-BEND	90 degree bend	140	Continuous	V
C	WATR	FTTG	CAPS	C-WATR-FTTG-CAPS	Caps	140	Continuous	V
C	WATR	FTTG	CROS	C-WATR-FTTG-CROS	Cross connections	140	Continuous	V
C	WATR	FTTG	SERV	C-WATR-FTTG-SERV	Lateral fitting points	140	Continuous	V
C	WATR	FTTG	TAPS	C-WATR-FTTG-TAPS	Taps	140	Continuous	V
C	WATR	FTTG	TEES	C-WATR-FTTG-TEES	Tees	140	Continuous	V
C	WATR	HYDR		C-WATR-HYDR	Water hydrant	140	Continuous	V
C	WATR	HYDR	FAUC	C-WATR-HYDR-FAUC	Faucet	140	Continuous	V
C	WATR	HYDR	FDEP	C-WATR-HYDR-FDEP	Fire water connection	140	Continuous	V
C	WATR	HYDR	FIRE	C-WATR-HYDR-FIRE	Fire hydrant	140	Continuous	V
C	WATR	HYDR	SPRK	C-WATR-HYDR-SPRK	Sprinkler	140	Continuous	V
C	WATR	IRRG	CB	C-WATR-IRRG-CB	Irrigation control box	152	Continuous	V
C	WATR	JBOX		C-WATR-JBOX	Junction boxes	140	Continuous	V
C	WATR	MAIN		C-WATR-MAIN	Domestic water pipes	140	Continuous	V
C	WATR	MAIN	FIRE	C-WATR-MAIN-FIRE	Fire water pipes	40	Continuous	V
C	WATR	MAIN	REMV	C-WATR-MAIN-REMV	Removed domestic water pipes	90	0	V
C	WATR	METR		C-WATR-METR	Meters	140	Continuous	V
C	WATR	MHOL		C-WATR-MHOL	Manholes	140	Continuous	V
C	WATR	NONP		C-WATR-NONP	Non-potable water pipes	140	Continuous	V
C	WATR	PIGL		C-WATR-PIGL	Pig launch	140	Continuous	V
C	WATR	POIN	-REM	C-WATR-POINT-REMV	Removed valves / junction points	90	0	V
C	WATR	PROP	FIRE	C-WATR-PROP-FIRE	Proposed fire water pipes	1	Continuous	V



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

CIVIL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
C	WATR	PROP	MAIN	C-WATR-PROP-MAIN	Proposed domestic water pipes	6	Continuous	V
C	WATR	PROP	POIN	C-WATR-PROP-POINT	Proposed valves / junction points	1	Continuous	V
C	WATR	PUMP		C-WATR-PUMP	Pumps	140	Continuous	V
C	WATR	RECL		C-WATR-RECL	Reclaimed water pipes	140	Continuous	V
C	WATR	RISR		C-WATR-RISR	Risers	152	Continuous	V
C	WATR	SERV		C-WATR-SERV	Lateral Pipes	140	Continuous	V
C	WATR	SIPH		C-WATR-SIPH	Siphons	140	Continuous	V
C	WATR	SPRK		C-WATR-SPRK	Irrigation pipes	152	Continuous	V
C	WATR	TANK		C-WATR-TANK	Tanks	140	Continuous	V
C	WATR	TANK	FOAM	C-WATR-TANK-FOAM	Water-foam tanks	152	Continuous	V
C	WATR	VLVE		C-WATR-VLVE	Valves	140	Continuous	V
C	WATR	VLVE	BACK	C-WATR-VLVE-BACK	Backflow preventer valves	140	Continuous	V
C	WATR	VLVE	BLOW	C-WATR-VLVE-BLOW	Blow-off valves	140	Continuous	V
C	WATR	VLVE	CHEK	C-WATR-VLVE-CHEK	Check valves	140	Continuous	V
C	WATR	VLVE		C-WATR-VLVE-EMG	Emergency connection valves	5	Continuous	V
C	WATR	VLVE	GATE	C-WATR-VLVE-GATE	Gate valves	140	Continuous	V
C	WATR	VLVE	GLOB	C-WATR-VLVE-GLOB	Globe valves	140	Continuous	V
C	WATR	VLVE	IRRI	C-WATR-VLVE-IRRIG	Irrigation valves	111	Continuous	V
C	WATR	VLVE	PITS	C-WATR-VLVE-PITS	Valve pits	140	Continuous	V
C	WATR	VLVE	POST	C-WATR-VLVE-POST	Post-indicator valves	140	Continuous	V
C	WATR	VLVE	PRES	C-WATR-VLVE-PRES	Pressure reduce valves	140	Continuous	V
C	WATR	VLVE	REGU	C-WATR-VLVE-REGU	Regulator valves	140	Continuous	V
C	WATR	VLVE	SHUT	C-WATR-VLVE-SHUT	Shut-off valves	140	Continuous	V



Layer Name Parts			Layer Name	Description	Color Code	Line Type	Line Width (mm)
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ELECTRICAL

AIRF - Airfield

E	AIRF	DEVC		E-AIRF-DEVC	Capacitors, voltage regulators, motors, buses, generators, meters, grounds, and markers	23	Continuous	0.50
E	AIRF	DUCT		E-AIRF-DUCT	Ductbanks	83	EUDUCN	0.50
E	AIRF	JBOX		E-AIRF-JBOX	Junction boxes	23	Continuous	0.50
E	AIRF	UNDR		E-AIRF-UNDR	Underground electrical cables	83	Continuous	0.35
E	AIRF	VALT		E-AIRF-VALT	Vaults	3	Continuous	0.25

ALRM - Fire Alarm Detection Equipment

E	ALRM	IDEN		E-ALRM-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
E	ALRM	SYMB		E-ALRM-SYMB	Miscellaneous alarm system symbols	203	Continuous	0.50

ANNO - General Information

E	ANNO	DIMS		E-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	7	Continuous	V
E	ANNO	KEYN		E-ANNO-KEYN	Reference keynotes with associated leaders	7	Continuous	V
E	ANNO	LEGN		E-ANNO-LEGN	Legend & Schedule	7	Continuous	V
E	ANNO	NOTE		E-ANNO-NOTE	General notes and general remarks	2	Continuous	0.35
E	ANNO	NPLT		E-ANNO-NPLT	Non-plotting graphic information	5	Continuous	0.18
E	ANNO	PATT		E-ANNO-PATT	Miscellaneous patterning and hatching	8	Continuous	0.18
E	ANNO	REDL		E-ANNO-REDL	Redlines	1	Continuous	0.25
E	ANNO	REFR		E-ANNO-REFR	Reference files (AutoCAD users only, see Chapter 4)	7	Continuous	V
E	ANNO	REVS		E-ANNO-REVS	Revisions	4	Continuous	0.50
E	ANNO	SYMB		E-ANNO-SYMB	Miscellaneous symbols	6	Continuous	0.35
E	ANNO	TEXT		E-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	7	Continuous	V

BCNS - Beacons

E	BCNS	IDEN		E-BCNS-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
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CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

ELECTRICAL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
E	BCNS	MISC		E-BCNS-MISC	Miscellaneous navigational aids - wind cones and beacons	203	Continuous	0.50
E	BCNS	STRB		E-BCNS-STRB	Strobe beacons	203	Continuous	0.50
BELL - Bell System								
E	BELL	IDEN		E-BELL-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
E	BELL	SYMB		E-BELL-SYMB	Bell system symbols	203	Continuous	0.50
CABL - Cables								
E	CABL	COAX		E-CABL-COAX	Coaxial cables	83	2	0.50
E	CABL	COAX	CATV	E-CABL-COAX-CATV	Coaxial cables - television	40	Continuous	V
E	CABL	COAX	OTHR	E-CABL-COAX-OTHR	Coaxial cables - other	40	Continuous	V
E	CABL	COAX	PHON	E-CABL-COAX-PHON	Coaxial cables - telephone	40	Continuous	V
E	CABL	COAX	TBDT	E-CABL-COAX-TBDT	Coaxial cables - to-be-determined	40	Continuous	V
E	CABL	COAX	TELG	E-CABL-COAX-TELG	Coaxial cables - telegraph	40	Continuous	V
E	CABL	COAX	UNKW	E-CABL-COAX-UNKW	Coaxial cables - unknown	40	Continuous	V
E	CABL	FIBR		E-CABL-FIBR	Fiber optics cables	83	FIBOPT	0.50
E	CABL	FIBR	CATV	E-CABL-FIBR-CATV	Fiber optics cables - television	40	Continuous	V
E	CABL	FIBR	OTHR	E-CABL-FIBR-OTHR	Fiber optics cables - other	40	Continuous	V
E	CABL	FIBR	PHON	E-CABL-FIBR-PHON	Fiber optics cables - telephone	40	Continuous	V
E	CABL	FIBR	TBDT	E-CABL-FIBR-TBDT	Fiber optics cables - to-be-determined	40	Continuous	V
E	CABL	FIBR	TELG	E-CABL-FIBR-TELG	Fiber optics cables - telegraph	40	Continuous	V
E	CABL	FIBR	UNKW	E-CABL-FIBR-UNKW	Fiber optics cables - unknown	40	Continuous	V
E	CABL	IDEN		E-CABL-IDEN	Cable identifiers	2	Continuous	0.35
E	CABL	MULT		E-CABL-MULT	Multi-conductor cables	83	Continuous	0.50
E	CABL	MULT	CATV	E-CABL-MULT-CATV	Multi-conductor cables - television	40	Continuous	V
E	CABL	MULT	OTHR	E-CABL-MULT-OTHR	Multi-conductor cables - other	40	Continuous	V
E	CABL	MULT	PHON	E-CABL-MULT-PHON	Multi-conductor cables - telephone	40	Continuous	V
E	CABL	MULT	TBDT	E-CABL-MULT-TBDT	Multi-conductor cables - to-be-determined	40	Continuous	V



Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
E	CABL	MULT	TELG	E-CABL-MULT-TELG	Multi-conductor cables - telegraph	40	Continuous	V
E	CABL	MULT	UNKW	E-CABL-MULT-UNKW	Multi-conductor cables - unknown	40	Continuous	V
E	CABL	MULT	WLAN	E-CABL-MULT-WLAN	Multi-conductor cables - wireless connection	43	Continuous	V
E	CABL	OTHR		E-CABL-OTHR	Other cables	40	Continuous	V
E	CABL	OTHR	CATV	E-CABL-OTHR-CATV	Other cables - television	40	Continuous	V
E	CABL	OTHR	PHON	E-CABL-OTHR-PHON	Other cables - telephone	40	Continuous	V
E	CABL	OTHR	TBDT	E-CABL-OTHR-TBDT	Other cables - to-be-determined	40	Continuous	V
E	CABL	OTHR	TELG	E-CABL-OTHR-TELG	Other cables - telegraph	40	Continuous	V
E	CABL	OTHR	UNKW	E-CABL-OTHR-UNKW	Other cables - unknown	40	Continuous	V
E	CABL	TRAY		E-CABL-TRAY	Cable trays and wire ways	203	Continuous	0.50
E	CABL	VERT		E-CABL-VERT	Vertical riser	45	2	0.50
CATH - Cathodic Protection System								
E	CATH	ANOD		E-CATH-ANOD	Sacrificial anode system	83	Continuous	0.50
E	CATH	CURR		E-CATH-CURR	Impress current system	83	Continuous	0.50
E	CATH	IDEN		E-CATH-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
E	CATH	TEST		E-CATH-TEST	Test stations	83	Continuous	0.50
CATV - Cable TV System								
E	CATV	IDEN		E-CATV-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
E	CATV	SYMB		E-CATV-SYMB	Cable television system symbols	203	Continuous	0.50
CCTV - Closed-Circuit TV System								
E	CCTV	IDEN		E-CCTV-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
E	CCTV	SYMB		E-CCTV-SYMB	Closed-circuit television system symbols	203	Continuous	0.50
CIRC - Circuits								
E	CIRC	CTRL		E-CIRC-CTRL	Control and monitoring circuits	163	Continuous	0.50
E	CIRC	IDEN		E-CIRC-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
E	CIRC	MULT		E-CIRC-MULT	Multiple circuits	23	Continuous	0.50
E	CIRC	SERS		E-CIRC-SERS	Series circuits	203	Continuous	0.50



Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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CLOCK - Clock System

E	CLOK	IDEN		E-CLOK-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
E	CLOK	SYMB		E-CLOK-SYMB	Clock system symbols	203	Continuous	0.50

COMM - Communications

E	COMM	AIRP		E-COMM-AIRP	Air pipe lines	40	Continuous	V
E	COMM	EQPM		E-COMM-EQPM	Other communications distribution equipment	23	Continuous	0.50
E	COMM	EQPM	PTZC	E-COMM-EQPM-PTZC	PTZ camera	30	Continuous	V
E	COMM	EQPM	VIDC	E-COMM-EQPM-VIDC	Video camera	30	Continuous	V
E	COMM	JBOX		E-COMM-JBOX	Communication junction boxes, pull boxes, manholes, hand holes, pedestals, splices	23	Continuous	0.50
E	COMM	JBOX	HHOL	E-COMM-JBOX-HHOL	Hand holes	40	Continuous	V
E	COMM	JBOX	MHOL	E-COMM-JBOX-MHOL	Manholes	40	Continuous	V
E	COMM	JBOX	PEDS	E-COMM-JBOX-PEDS	Pedestals	40	Continuous	V
E	COMM	JBOX	PULL	E-COMM-JBOX-PULL	Pull boxes	40	Continuous	V
E	COMM	OVHD		E-COMM-OVHD	Overhead communications/telephone lines	4	COMARN	0.50
E	COMM	OVHD	IDEN	E-COMM-OVHD-IDEN	Identifier tags, symbol modifier and text	2	Continuous	0.35
E	COMM	PANL		E-COMM-PANL-IDF	IDF panel	33	Continuous	0.35
E	COMM	PANL		E-COMM-PANL-MDF	MDF panel	40	Continuous	0.35
E	COMM	PANL		E-COMM-PANL-TBD	To-be-determined panel	1	Continuous	0.35
E	COMM	UNDR		E-COMM-UNDR	Underground communications/telephone lines	4	COMUGN	0.50
E	COMM	UNDR	IDEN	E-COMM-UNDR-IDEN	Underground communications identifiers	2	Continuous	0.35
E	COMM	VALT		E-COMM-VALT	Communications vault	21	Continuous	0.25

DETL - General Information

E	DETL	GRPH		E-DETL-GRPH	Graphics, gridlines, non-text items	7	Continuous	V
E	DETL	INPD		E-DETL-INPD	Inch-pound-specific dimensions and notes	2	Continuous	0.35
E	DETL	METR		E-DETL-METR	Metric-specific dimensions and notes	2	Continuous	0.35

DIAG - Diagram Information



Layer Name Parts					Layer Name	Description	Color Code	Line Type	Line Width (mm)
E	DIAG	GRPH			E-DIAG-GRPH	Graphics, gridlines, non-text items	7	Continuous	V
E	DIAG	IDEN			E-DIAG-IDEN	Identifier tags, symbol modifier and text	2	Continuous	0.35
E	DIAG	INPD			E-DIAG-INPD	Inch-pound-specific dimensions and notes	2	Continuous	0.35
E	DIAG	METR			E-DIAG-METR	Metric-specific dimensions and notes	2	Continuous	0.35
DICT - Central Dictation System									
E	DICT	IDEN			E-DICT-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
E	DICT	SYMB			E-DICT-SYMB	Central dictation system symbols	203	Continuous	0.50
E	DISC	INFO			E-DISC-INFO	Clearances and working space information (NEC code, etc.)	3	Continuous	0.25
DUCT - Underground Duct Bank (to be used when multiple systems are in one ductbank system)									
E	DUCT	COMM			E-DUCT-COMM	Communications ductbank	40	Continuous	V
E	DUCT	MULT			E-DUCT-MULT	Ductbank - multi-use	83	0	0.50
E	DUCT	MULT	IDEN		E-DUCT-MULT-IDEN	Identifier tags, symbol modifier and text	2	Continuous	0.35
ELEC - Electrical Support Equipment									
E	ELEC	DEVC			E-ELEC-DEVC	Capacitors, voltage regulators, motors, buses, generators, meters, grounds, and markers	23	Continuous	0.50
E	ELEC	DEVC	GRND		E-ELEC-DEVC-GRND	Ground system	74	Continuous	V
E	ELEC	DEVC	METR		E-ELEC-DEVC-METR	Meters	23	Continuous	0.50
E	ELEC	JBOX			E-ELEC-JBOX	Junction boxes, pull boxes, manholes, hand holes, pedestals, splices	23	Continuous	0.50
E	ELEC	JBOX	HHOL		E-ELEC-JBOX-HHOL	Hand holes	74	Continuous	V
E	ELEC	JBOX	MHOL		E-ELEC-JBOX-MHOL	Manholes	74	Continuous	V
E	ELEC	JBOX	PBOX		E-ELEC-JBOX-PBOX	Pull boxes	74	Continuous	V
E	ELEC	JBOX	PEDS		E-ELEC-JBOX-PEDS	Pedestals	74	Continuous	V
E	ELEC	JBOX	PROP		E-ELEC-JBOX-PROP	Proposed junctions	210	Continuous	V
E	ELEC	JBOX	SPLC		E-ELEC-JBOX-SPLC	Splices	74	Continuous	V
E	ELEC	SUBS			E-ELEC-SUBS	Other substation equipment	23	Continuous	0.50



Layer Name Parts			Layer Name	Description	Color Code	Line Type	Line Width (mm)
E	ELEC	SWCH	E-ELEC-SWCH	Fuse cutouts, pole mounted switches, circuit breakers, gang operated disconnects, reclosers, cubicle switches	23	Continuous	0.50
E	ELEC	TRAN	E-ELEC-TRAN	Transformers	21	Continuous	0.25
E	ELEC	VALT	E-ELEC-VALT	Vaults	21	Continuous	0.25
EMCS - Energy Monitoring Control Systems							
E	EMCS	IDEN	E-EMCS-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
E	EMCS	SYMB	E-EMCS-SYMB	Energy monitoring control system symbols	203	Continuous	0.50
EMER - Emergency Equipment							
E	EMER	EMER	E-EMER-EMER	Emergency systems equipment	4	Continuous	0.50
FLOR - Floor Information							
E	FLOR	IDEN	E-FLOR-IDEN	Room name, space identification text (copied from Architectural - Floor Plan model file)	3	Continuous	0.25
E	FLOR	NUMB	E-FLOR-NUMB	Room/space identification number and symbol (copied from Architectural - Floor Plan model file)	3	Continuous	0.25
GRND - Ground System							
E	GRND	CIRC	E-GRND-CIRC	Circuits	4	Continuous	0.50
E	GRND	DIAG	E-GRND-DIAG	Ground system diagram	163	Continuous	0.50
E	GRND	EQUI	E-GRND-EQUI	Equipotential ground system	83	Continuous	0.50
E	GRND	REFR	E-GRND-REFR	Reference ground system	23	Continuous	0.50
INTC - Intercom/Public Address System							
E	INTC	IDEN	E-INTC-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
E	INTC	SYMB	E-INTC-SYMB	Intercom/PA system symbols	203	Continuous	0.50
LITE - Lights							
E	LITE	APPR	E-LITE-APPR	Approach lights	203	Continuous	0.50
E	LITE	APRN	E-LITE-APRN	Apron Lighting	6	Continuous	0.35
E	LITE	CIRC	E-LITE-CIRC	Lighting circuits (including cross lines and homeruns)	83	Continuous	0.50



Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
E	LITE	CIRC	NUMB	E-LITE-CIRC-NUMB	Lighting circuit numbers (e.g., panel/circuit number, wire/conduit size)	2	Continuous	0.35
E	LITE	CLNG		E-LITE-CLNG	Ceiling mounted (surface/pendant) fixtures	203	Continuous	0.50
E	LITE	CONS		E-LITE-CONS	Constant Current Regulators	7	Continuous	0.50
E	LITE	DIST		E-LITE-DIST	Distance markers and lights	203	Continuous	0.50
E	LITE	DIST	ARST	E-LITE-DIST-ARST	Arresting gear markers and lights	74	Continuous	V
E	LITE	EMER		E-LITE-EMER	Emergency fixtures (outline of light (if ceiling mounted) should go on E-LITE-CLNG)	23	Continuous	0.50
E	LITE	EXIT		E-LITE-EXIT	Exit fixtures (outline of light (if ceiling mounted) should go on E-LITE-CLNG)	203	Continuous	0.50
E	LITE	EXTR		E-LITE-EXTR	Exterior lights	203	Continuous	0.50
E	LITE	EXTR	IDEN	E-LITE-EXTR-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
E	LITE	FLOR		E-LITE-FLOR	Floor mounted fixtures (e.g., stage)	203	Continuous	0.50
E	LITE	FUEL	PITS	E-LITE-FUEL-PITS	Fuel pit lights	74	Continuous	V
E	LITE	IDEN		E-LITE-IDEN	Light fixture identifier tags	2	Continuous	0.35
E	LITE	JBOX		E-LITE-JBOX	Junction boxes	83	Continuous	0.50
E	LITE	LANE		E-LITE-LANE	Hover lane, taxilane, and helipad lights	203	Continuous	0.50
E	LITE	OBST		E-LITE-OBST	Obstruction lights	203	Continuous	0.50
E	LITE	OTHR		E-LITE-OTHR	Other airfield lights	74	Continuous	V
E	LITE	PANL		E-LITE-PANL	Main distribution panels, switchboards, lighting panels	4	Continuous	0.50
E	LITE	RNWX	GARD	E-LITE-RNWX-GARD	Runway guard lights	7	Continuous	0.50
E	LITE	ROOF		E-LITE-ROOF	Roof lighting	203	Continuous	0.50
E	LITE	RUNW		E-LITE-RUNW	Runway lights	74	Continuous	V
E	LITE	RUNW	CNTL	E-LITE-RUNW-CNTL	Runway touchdown lights	74	Continuous	V
E	LITE	RUNW	CNTR	E-LITE-RUNW-CNTR	Runway Centerline lights	203	Continuous	0.35
E	LITE	RUNW	DTGS1	E-LITE-RUNW-DTGS1	Runway Distance to go lights	6	Continuous	0.35
E	LITE	RUNW	EDGE	E-LITE-RUNW-EDGE	Runway edge lights	203	Continuous	0.50



Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
E	LITE	RUNW	GARD	E-LITE-RUNW-GARD	Flush runway guard lights	74	Continuous	V
E	LITE	RUNW	TDZN	E-LITE-RUNW-TDZN	Runway Touchdown Zone lights	203	Continuous	0.35
E	LITE	SIGN		E-LITE-SIGN	Taxiway guidance signs	203	Continuous	0.50
E	LITE	SPCL		E-LITE-SPCL	Special fixtures	203	Continuous	0.50
E	LITE	SWCH		E-LITE-SWCH	Lighting contactors, photoelectric controls, low-voltage lighting controls, etc.	163	Continuous	0.50
E	LITE	TAXI		E-LITE-TAXI	Taxiway lights	74	Continuous	V
E	LITE	TAXI	CNTL	E-LITE-TAXI-CNTL	Taxiway centerline lights	203	Continuous	0.50
E	LITE	TAXI	EDGE	E-LITE-TAXI-EDGE	Taxiway edge lights	7	Continuous	0.50
E	LITE	THRS		E-LITE-THRS	Threshold lights	203	Continuous	0.50
E	LITE	THRS	PRET	E-LITE-THRS-PRET	Pre-threshold lights	74	Continuous	V
E	LITE	WALL		E-LITE-WALL	Wall mounted fixtures	203	Continuous	0.50
LTNG - Lightning Protection System								
E	LTNG	COND		E-LTNG-COND	Lightning protection conductors	203	Continuous	0.50
E	LTNG	TERM		E-LTNG-TERM	Lightning protection terminals	203	Continuous	0.50
NURS - Nurse Call / Paging System								
E	NURS	IDEN		E-NURS-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
E	NURS	SYMB		E-NURS-SYMB	Nurse call/paging system symbols	203	Continuous	0.50
POLE - Utility Poles								
E	POLE	GUYS		E-POLE-GUYS	Guying equipment	203	Continuous	0.50
E	POLE	GUYS	IDEN	E-POLE-GUYS-IDEN	Guying equipment identifier tags, symbol modifiers, and text	2	Continuous	0.35
E	POLE	IDEN		E-POLE-IDEN	Utility pole identifier tags, symbol modifier, and text	2	Continuous	0.35
E	POLE	UTIL		E-POLE-UTIL	Utility poles	203	Continuous	0.50
POWR - Power								
E	POWR	ABND		E-POWR-ABND	Abandoned	74	Continuous	V
E	POWR	BUSW		E-POWR-BUSW	Bus ways and wire ways	203	Continuous	0.50



Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
E	POWR	CABL		E-POWR-CABL	Cable trays	203	Continuous	0.50
E	POWR	CIRC		E-POWR-CIRC	Power circuits (including cross lines and homeruns)	83	Continuous	0.50
E	POWR	CIRC	NUMB	E-POWR-CIRC-NUMB	Power circuit numbers (e.g., panel/circuit number, wire/conduit size)	2	Continuous	0.35
E	POWR	CLNG		E-POWR-CLNG	Ceiling outlets (receptacles and switches)	83	Continuous	0.50
E	POWR	CNDT		E-POWR-CNDT	Electrical power conduits	2	Continuous	0.35
E	POWR	FEED		E-POWR-FEED	Feeders	203	Continuous	0.50
E	POWR	GENR		E-POWR-GENR	Generators and auxiliary equipment	4	Continuous	0.50
E	POWR	JBOX		E-POWR-JBOX	Junction boxes	83	Continuous	0.50
E	POWR	MOTR		E-POWR-MOTR	Motors and utilization equipment	4	Continuous	0.50
E	POWR	PANL		E-POWR-PANL	Panel boards, switchboards, MCC, unit substations	4	Continuous	0.50
E	POWR	PANL	EMER	E-POWR-PANL-EMER	Emergency panels	1	Continuous	0.50
E	POWR	SWCH		E-POWR-SWCH	Disconnect switches, motor starters, contactors, etc.	163	Continuous	0.50
E	POWR	URAC		E-POWR-URAC	Underfloor raceways	203	3	0.50
E	POWR	WALL		E-POWR-WALL	Wall/floor outlets (receptacles and switches)	83	Continuous	0.50
PRIM - Primary Electrical Cables								
E	PRIM	OVHD		E-PRIM-OVHD	Overhead electrical utility lines	4	EPARN	0.50
E	PRIM	OVHD	IDEN	E-PRIM-OVHD-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
E	PRIM	UNDR		E-PRIM-UNDR	Underground electrical utility lines	4	EPUGN	0.50
E	PRIM	UNDR	IDEN	E-PRIM-UNDR-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
SCND - Secondary Electrical Cables								
E	SECD	OVHD		E-SECD-OVHD	Overhead electrical utility lines	163	ESARN	0.50
E	SECD	OVHD	IDEN	E-SECD-OVHD-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
E	SECD	UNDR		E-SECD-UNDR	Underground electrical utility lines	163	ESUGN	0.50
E	SECD	UNDR	IDEN	E-SECD-UNDR-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
SERT - Security Systems								
E	SERT	ACCS		E-SERT-ACCS	Access control system symbols	23	Continuous	0.50



Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
E	SERT	BURD		E-SERT-BURD	Buried sensors	23	Continuous	0.50
E	SERT	CLNG		E-SERT-CLNG	Ceiling mounted sensors	23	Continuous	0.50
E	SERT	FLOR		E-SERT-FLOR	Floor mounted sensors	23	Continuous	0.50
E	SERT	IDEN		E-SERT-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
E	SERT	UNDR		E-SERT-UNDR	Buried sensors	23	Continuous	0.50
E	SERT	WALL		E-SERT-WALL	Wall mounted sensors	23	Continuous	0.50
SERV - Minor Electrical Cables								
E	SERV	OVHD		E-SERV-OVHD	Overhead	74	Continuous	V
E	SERV	UNDR		E-SERV-UNDR	Underground	74	Continuous	V
SOUN - Sound Systems								
E	SOUN	IDEN		E-SOUN-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
E	SOUN	SYMB		E-SOUN-SYMB	Sound system symbols	203	Continuous	0.50
SPCL - Special Systems								
E	SPCL	IDEN		E-SPCL-IDEN	Special systems (UMCS, EMCS, CATV, etc.) identifier tags, symbol modifier, and text	2	Continuous	0.35
E	SPCL	JBOX		E-SPCL-JBOX	Junction boxes	83	Continuous	0.50
E	SPCL	PANL		E-SPCL-PANL	Panel boards, backing boards, patch panel racks	4	Continuous	0.50
E	SPCL	SRFS		E-SPCL-SRFS	Surface Sensor System	7	Continuous	0.50
E	SPCL	SYST		E-SPCL-SYST	Special systems (UMCS, EMCS, CATV, etc.)	203	Continuous	0.50
E	SPCL	TRAF		E-SPCL-TRAF	Traffic signal system	203	Continuous	0.50
E	SPCL	TRAF	IDEN	E-SPCL-TRAF-IDEN	Traffic signal identifier tags, symbol modifier, and text	2	Continuous	0.35
STAT - Demolition (used only in existing demolition model file)								
E	STAT	DEMO	PHS1	E-STAT-DEMO-PHS1	Demolition - phase 1	203	Continuous	0.50
E	STAT	DEMO	PHS2	E-STAT-DEMO-PHS2	Demolition - phase 2	83	Continuous	0.50
E	STAT	DEMO	PHS3	E-STAT-DEMO-PHS3	Demolition - phase 3	163	Continuous	0.50
TRAN - Transformers								
E	TRAN	PADM		E-TRAN-PADM	Pad mounted transformers	23	Continuous	0.50



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

ELECTRICAL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
E	TRAN	PADM	IDEN	E-TRAN-PADM-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
E	TRAN	POLE		E-TRAN-POLE	Pole mounted transformers	23	Continuous	0.50
E	TRAN	POLE	IDEN	E-TRAN-POLE-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
TVAN - TV Antenna System								
E	TVAN	IDEN		E-TVAN-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
E	TVAN	SYMB		E-TVAN-SYMB	TV antenna system symbols	203	Continuous	0.50



Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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FIRE PROTECTION

AFFF - Aqueous Film Forming Foam System

F	AFFF	EQPM		F-AFFF-EQPM	Equipment	82	Continuous	0.35
F	AFFF	PIPE		F-AFFF-PIPE	Piping	82	Continuous	0.35

ALRM - Fire Alarm / Detection Equipment

F	ALRM	DTCT		F-ALRM-DTCT	Smoke/heat/other detectors	23	Continuous	0.50
F	ALRM	INDC		F-ALRM-INDC	Indicating appliances	83	Continuous	0.50
F	ALRM	MANL		F-ALRM-MANL	Manual fire alarm pull stations	23	Continuous	0.50
F	ALRM	PHON		F-ALRM-PHON	Fire service or emergency telephone stations	1	Continuous	0.25

ANNO - General Information

F	ANNO	DIMS		F-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	7	Continuous	V
F	ANNO	KEYN		F-ANNO-KEYN	Reference keynotes with associated leaders	7	Continuous	V
F	ANNO	LEGN		F-ANNO-LEGN	Legend & Schedule	7	Continuous	V
F	ANNO	NOTE		F-ANNO-NOTE	General notes and general remarks	2	Continuous	0.35
F	ANNO	NPLT		F-ANNO-NPLT	Non-plotting graphic information	5	Continuous	0.18
F	ANNO	PATT		F-ANNO-PATT	Miscellaneous patterning and hatching	8	Continuous	0.18
F	ANNO	REDL		F-ANNO-REDL	Redlines	1	Continuous	0.25
F	ANNO	REFR		F-ANNO-REFR	Reference files (AutoCAD users only, see Chapter 4)	7	Continuous	V
F	ANNO	REVS		F-ANNO-REVS	Revisions	4	Continuous	0.50
F	ANNO	SYMB		F-ANNO-SYMB	Miscellaneous symbols	6	Continuous	0.35
F	ANNO	TEXT		F-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	7	Continuous	V

CO2S - CO2 Sprinkler System

F	CO2S	EQPM		F-CO2S-EQPM	Equipment	6	Continuous	0.35
F	CO2S	PIPE		F-CO2S-PIPE	CO2 piping or CO2 discharge nozzle piping	6	Continuous	0.35

CTRL - Control Panels

F	CTRL	PANL		F-CTRL-PANL	Control panels	23	Continuous	0.50
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Layer Name Parts					Layer Name	Description	Color Code	Line Type	Line Width (mm)
DETL - Detail Information									
F	DETL	GRPH			F-DETL-GRPH	Graphics, gridlines, non-text items	7	Continuous	V
F	DETL	INPD			F-DETL-INPD	Inch-pound-specific dimensions and notes	2	Continuous	0.35
F	DETL	METR			F-DETL-METR	Metric-specific dimensions and notes	2	Continuous	0.35
FLOR - Floor Information									
F	FLOR	IDEN			F-FLOR-IDEN	Room name, space identification text (copied from Architectural - Floor Plan model file)	3	Continuous	0.25
F	FLOR	NUMB			F-FLOR-NUMB	Room/space identification number and symbol (copied from Architectural - Floor Plan model file)	3	Continuous	0.25
HALN - Halon System									
F	HALN	EQPM			F-HALN-EQPM	Halon equipment	22	Continuous	0.35
F	HALN	PIPE			F-HALN-PIPE	Halon piping	22	Continuous	0.35
IGAS - Inert Gas									
F	IGAS	EQPM			F-IGAS-EQPM	Inert gas equipment	162	Continuous	0.35
F	IGAS	PIPE			F-IGAS-PIPE	Inert gas piping	162	Continuous	0.35
LITE - Lights									
F	LITE	EMER			F-LITE-EMER	Emergency fixtures	23	Continuous	0.50
F	LITE	EXIT			F-LITE-EXIT	Exit fixtures	203	Continuous	0.50
LSFT - Egress Requirements									
F	LSFT	EGRE			F-LSFT-EGRE	Egress requirements designator	6	Continuous	0.35
F	LSFT	OCCP			F-LSFT-OCCP	Occupant load for egress capacity	6	Continuous	0.35
F	LSFT	TRVL			F-LSFT-TRVL	Maximum travel distances	6	Continuous	0.35
PROT - Fire Protection / Suppression Equipment									
F	PROT	CABN			F-PROT-CABN	Fire hose cabinets	2	Continuous	0.35
F	PROT	EXTI			F-PROT-EXTI		2	Continuous	0.35
F	PROT	HOSE			F-PROT-HOSE	Fire hoses	2	Continuous	0.35
RATE - Fire Ratings									



Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
F	RATE	DOOR		F-RATE-DOOR	Door fire ratings	4	Continuous	0.50
F	RATE	WALL		F-RATE-WALL	Wall fire ratings	4	Continuous	0.50
SAFE - Fire Department Responsibility Areas								
F	SAFE	FD DS		F-SAFE-FD DS	Fire department reporting district			
SMOK - Smoke/Pressurization Control								
F	SMOK	DAMP		F-SMOK-DAMP	Dampers	22	Continuous	0.35
SPRN - Sprinkler System								
F	SPRN	CLHD		F-SPRN-CLHD	Sprinkler - ceiling heads	122	Continuous	0.35
F	SPRN	COMB		F-SPRN-COMB	Combination system	1	Continuous	0.25
F	SPRN	OTHD		F-SPRN-OTHD	Sprinkler - other heads	122	Continuous	0.35
F	SPRN	OTHR		F-SPRN-OTHR	Sprinkler - other	3	Continuous	0.25
F	SPRN	PEND		F-SPRN-PEND	Sprinkler - pendant	3	Continuous	0.25
F	SPRN	PIPE		F-SPRN-PIPE	Sprinkler piping	4	SPRINK	0.50
F	SPRN	STAN		F-SPRN-STAN	Standpipe system	2	Continuous	0.35
STAT - Demolition (used only in creating Existing Demolition model files)								
F	STAT	DEMO		F-STAT-DEMO	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	6	2	0.35
F	STAT	DEMO	PHS1	F-STAT-DEMO-PHS1	Demolition - phase 1	203	Continuous	0.50
F	STAT	DEMO	PHS2	F-STAT-DEMO-PHS2	Demolition - phase 2	83	Continuous	0.50
F	STAT	DEMO	PHS3	F-STAT-DEMO-PHS3	Demolition - phase 3	163	Continuous	0.50
F	STAT	EXST		F-STAT-EXST	Existing to remain	3	Continuous	0.25
F	STAT	FUTR		F-STAT-FUTR	Future work	2	7	0.35
F	STAT	MOVE		F-STAT-MOVE	Items to be moved	6	6	0.35
F	STAT	NEWW		F-STAT-NEWW	New work	4	Continuous	0.50
F	STAT	NICN		F-STAT-NICN	Not in contract	8	3	0.18
F	STAT	PHS#		F-STAT-PHS#	Phase numbers (#=1-9)	2	Continuous	0.35
F	STAT	RELO		F-STAT-RELO	Relocated items	5	2	0.18



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

FIRE PROTECTION

Layer Name Parts			Layer Name	Description	Color Code	Line Type	Line Width (mm)
F	STAT	TEMP	F-STAT-TEMP	Temporary work	4	4	0.50
WATR - Water Supply and Distribution							
F	WATR	CONN	F-WATR-CONN	Fire department connections	122	Continuous	0.35
F	WATR	HYDR	F-WATR-HYDR	Hydrants	122	Continuous	0.35
F	WATR	PIPE	F-WATR-PIPE	Piping	4	FIRE	0.50
F	WATR	PUMP	F-WATR-PUMP	Fire pumps	122	Continuous	0.35



Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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GENERAL

ANNO - General Information

G	ANNO	LEGN			G-ANNO-LEGN	Legend & Schedule	7	Continuous	V
G	ANNO	NPLT			G-ANNO-NPLT	Non-plotting graphic information	5	Continuous	0.18
G	ANNO	PATT			G-ANNO-PATT	Miscellaneous patterning and hatching	8	Continuous	0.18
G	ANNO	REDL			G-ANNO-REDL	Redlines	1	Continuous	0.25
G	ANNO	REFR			G-ANNO-REFR	Reference files (AutoCAD users only, see Chapter 4)	7	Continuous	V
G	ANNO	REVS			G-ANNO-REVS	Revisions	4	Continuous	0.50
G	ANNO	SYMB			G-ANNO-SYMB	Miscellaneous symbols	6	Continuous	0.35
G	ANNO	SYMB	NARW		G-ANNO-SYMB-NARW-RT	North arrow - East	12	Continuous	0.35
G	ANNO	SYMB	NARW	DN	G-ANNO-SYMB-NARW-DN	North arrow - South	12	Continuous	0.35
G	ANNO	SYMB	NARW	LT	G-ANNO-SYMB-NARW-LT	North arrow - West	12	Continuous	0.35
G	ANNO	SYMB	NARW	UP	G-ANNO-SYMB-NARW-UP	North arrow - North	12	Continuous	0.35
G	ANNO	SYMB	SCAL		G-ANNO-SYMB-SCAL	Scale bar	12	Continuous	0.35
G	ANNO	SYMB	SCAL	ATTR	G-ANNO-SYMB-SCAL-ATTR	Scale text	3	Continuous	0.25
G	ANNO	TEXT			G-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	7	Continuous	V
G	ANNO	VPRT			G-ANNO-VPRT	Viewport	8	Continuous	0.18

COMM - Common

G	COMM	NAME			G-COMM-NAME	Dispatch points – common names	2	Continuous	0.35
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GRID - Grid Lines

G	GRID	EXTR			G-GRID-EXTR	Column grid outside building	5	7	0.18
G	GRID	IDEN			G-GRID-IDEN	Column grid tags	1	Continuous	0.25

PLAN - Floor Information

G	PLAN	OTLN			G-PLAN-OTLN	Floor outline/perimeter/building footprint	6	Continuous	0.35
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SHBD - Title Block

G	SHBD	TTLB	NODE		G-SHBD-TTLB	[Title block layer]	1	Continuous	V
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SITE - Site Plan



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

GENERAL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
G	SITE	OTLN		G-SITE-OTLN	Site plan - key map	6	Continuous	0.35



Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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HAZARDOUS MATERIALS

ANNO - General Information

H	ANNO	DIMS		H-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	7	Continuous	V
H	ANNO	KEYN		H-ANNO-KEYN	Reference keynotes with associated leaders	7	Continuous	V
H	ANNO	LEGN		H-ANNO-LEGN	Legend & Schedule	7	Continuous	V
H	ANNO	NPLT		H-ANNO-NPLT	Non-plotting graphic information	5	Continuous	0.18
H	ANNO	PATT		H-ANNO-PATT	Miscellaneous patterning	8	Continuous	0.18
H	ANNO	REDL		H-ANNO-REDL	Redlines	1	Continuous	0.25
H	ANNO	REVS		H-ANNO-REVS	Revisions	4	Continuous	0.50
H	ANNO	SYMB		H-ANNO-SYMB	Reference bubbles, match lines and break lines	6	Continuous	0.35
H	ANNO	TEXT		H-ANNO-TEXT	Detail title text, text and associated leaders, notes	7	Continuous	V

BLDG - Buildings

H	BLDG	IDEN		H-BLDG-IDEN	Annotation	2	Continuous	0.35
H	BLDG	OTLN		H-BLDG-OTLN	Command posts, information centers	2	Continuous	0.35

DECN - Decontamination

H	DECN	EQPM		H-DECN-EQPM	Decontamination equipment	1	Continuous	0.25
H	DECN	IDEN		H-DECN-IDEN	Annotation	6	Continuous	0.35

DETL - Detail Information

H	DETL	GRPH		H-DETL-GRPH	Graphics, gridlines, non-text items	7	Continuous	V
H	DETL	INPD		H-DETL-INPD	Inch-pound-specific dimensions and notes	1	Continuous	0.25
H	DETL	METR		H-DETL-METR	Metric-specific dimensions and notes	3	Continuous	0.25

DISP - Disposal Areas

H	DISP	HAZW		H-DISP-HAZW	Hazardous waste	5	Continuous	0.18
H	DISP	IDEN		H-DISP-IDEN	Annotation	6	Continuous	0.35
H	DISP	MUNT		H-DISP-MUNT	Munitions	5	Continuous	0.18
H	DISP	TANK		H-DISP-TANK	Spill containment tanks	6	Continuous	0.35



Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
FIXT - Emergency Fixtures								
H	FIXT	EYEW		H-FIXT-EYEW	Emergency eyewashes	3	Continuous	0.25
H	FIXT	SHOW		H-FIXT-SHOW	Emergency showers	3	Continuous	0.25
MNST - Monitoring Stations								
H	MNST	AIRQ		H-MNST-AIRQ	Air quality	3	Continuous	0.25
H	MNST	GWTR		H-MNST-GWTR	Ground water	3	Continuous	0.25
H	MNST	IDEN		H-MNST-IDEN	Annotation	3	Continuous	0.25
H	MNST	LAND		H-MNST-LAND	Landfill gas	3	Continuous	0.25
H	MNST	SOIL		H-MNST-SOIL	Soil gas	3	Continuous	0.25
H	MNST	SWTR		H-MNST-SWTR	Surface water	3	Continuous	0.25
POLL - Pollution Areas								
H	POLL	CONC		H-POLL-CONC	Polluted area of concern	2	Continuous	0.35
H	POLL	IDEN		H-POLL-IDEN	Annotation	2	Continuous	0.35
H	POLL	ORIG		H-POLL-ORIG	Point of pollution origin	2	Continuous	0.35
H	POLL	POTN		H-POLL-POTN	Potential spill, emission, or release source	2	Continuous	0.35
SAMP - Sample Points								
H	SAMP	AIRS		H-SAMP-AIRS	Air samples	1	Continuous	0.25
H	SAMP	BIOL		H-SAMP-BIOL	Biological samples	1	Continuous	0.25
H	SAMP	GWTR		H-SAMP-GWTR	Ground water samples	1	Continuous	0.25
H	SAMP	IDEN		H-SAMP-IDEN	Annotation	1	Continuous	0.25
H	SAMP	MAGN		H-SAMP-MAGN	Magnetometer location points	1	Continuous	0.25
H	SAMP	SEDI		H-SAMP-SEDI	Sediment samples	1	Continuous	0.25
H	SAMP	SOIL		H-SAMP-SOIL	Soil samples	1	Continuous	0.25
H	SAMP	SOLI		H-SAMP-SOLI	Solid material samples	1	Continuous	0.25
H	SAMP	SWTR		H-SAMP-SWTR	Surface water samples	1	Continuous	0.25
H	SAMP	WAST		H-SAMP-WAST	Waste samples	1	Continuous	0.25
SECT - Sections								



Layer Name Parts					Layer Name	Description	Color Code	Line Type	Line Width (mm)
H	SECT	IDEN			H-SECT-IDEN	Component identification numbers	2	Continuous	0.35
H	SECT	MBND			H-SECT-MBND	Material beyond section cut	5	Continuous	0.18
H	SECT	MCUT			H-SECT-MCUT	Material cut by section	4	Continuous	0.50
H	SECT	PATT			H-SECT-PATT	Textures and hatch patterns	8	Continuous	0.18
STAT - Demolition (used only in creating Existing Demolition model files)									
H	STAT	DEMO	PHS1		H-STAT-DEMO-PHS1	Demolition - phase 1	203	Continuous	0.50
H	STAT	DEMO	PHS2		H-STAT-DEMO-PHS2	Demolition - phase 2	83	Continuous	0.50
H	STAT	DEMO	PHS3		H-STAT-DEMO-PHS3	Demolition - phase 3	163	Continuous	0.50
STOR - Storage Facilities									
H	STOR	HAZM			H-STOR-HAZM	Hazardous materials	6	Continuous	0.35
H	STOR	HAZW			H-STOR-HAZW	Hazardous waste	6	Continuous	0.35
H	STOR	IDEN			H-STOR-IDEN	Annotation	6	Continuous	0.35
H	STOR	TANK	ABVG		H-STOR-TANK-ABVG	Above ground tank	20	2	0.40
H	STOR	TANK	UNDG		H-STOR-TANK-UNDG	Underground tank	1	Continuous	V



Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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INTERIORS

ANNO - General Information

I	ANNO	DIMS		I-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	7	Continuous	V
I	ANNO	KEYN		I-ANNO-KEYN	Reference keynotes with associated leaders	7	Continuous	V
I	ANNO	LEGN		I-ANNO-LEGN	Legend & Schedule	7	Continuous	V
I	ANNO	NOTE		I-ANNO-NOTE	General notes and general remarks	2	Continuous	0.35
I	ANNO	NPLT		I-ANNO-NPLT	Non-plotting graphic information	5	Continuous	0.18
I	ANNO	PATT		I-ANNO-PATT	Miscellaneous patterning	8	Continuous	0.18
I	ANNO	REDL		I-ANNO-REDL	Redlines	1	Continuous	0.25
I	ANNO	REVS		I-ANNO-REVS	Revisions	4	Continuous	0.50
I	ANNO	SYMB		I-ANNO-SYMB	Reference bubbles, match lines and break lines	6	Continuous	0.35
I	ANNO	TEXT		I-ANNO-TEXT	Detail title text, text and associated leaders, notes	7	Continuous	V

DETL - Detail Information

I	DETL	GRPH		I-DETL-GRPH	Graphics, gridlines, non-text items	7	Continuous	V
I	DETL	INPD		I-DETL-INPD	Inch-pound-specific dimensions and notes	2	Continuous	0.35
I	DETL	METR		I-DETL-METR	Metric-specific dimensions and notes	2	Continuous	0.35

DOOR - Door

I	DOOR	107		I-DOOR-107	Security access - 107 doors	3	Continuous	0.35
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ELEV - Elevations

I	ELEV	CASE		I-ELEV-CASE	Wall mounted casework	2	Continuous	0.35
I	ELEV	FIXT		I-ELEV-FIXT	Miscellaneous fixtures	3	Continuous	0.25
I	ELEV	FNSH		I-ELEV-FNSH	Finishes, woodwork and trim	2	Continuous	0.35
I	ELEV	IDEN		I-ELEV-IDEN	Component identification numbers	5	Continuous	0.18
I	ELEV	PATT		I-ELEV-PATT	Textures and hatch patterns	1	Continuous	0.25
I	ELEV	PFIX		I-ELEV-PFIX	Plumbing fixtures in elevation	1	Continuous	0.25
I	ELEV	SIGN		I-ELEV-SIGN	Signage	1	Continuous	0.25



Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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EQPM - Equipment

I	EQPM	ACCS		I-EQPM-ACCS	Equipment access	8	2	0.18
I	EQPM	CHLD		I-EQPM-CHLD	Child development (play toys, teaching rugs, play forms)	2	Continuous	0.35
I	EQPM	COPY		I-EQPM-COPY	Copiers, fax machines, office equipment	2	Continuous	0.35
I	EQPM	FIXD		I-EQPM-FIXD	Fixed equipment	5	Continuous	0.18
I	EQPM	IDEN		I-EQPM-IDEN	Equipment identification numbers	1	Continuous	0.25
I	EQPM	MEDI		I-EQPM-MEDI	Medical (exam beds, dental chairs, etc.)	2	Continuous	0.35
I	EQPM	MOVE		I-EQPM-MOVE	Moveable equipment	5	2	0.18
I	EQPM	NICN		I-EQPM-NICN	Not in contract equipment	8	1	0.18
I	EQPM	OVHD		I-EQPM-OVHD	Overhead, ceiling mounted, and suspended equipment	3	Continuous	0.25
I	EQPM	STOR		I-EQPM-STOR	Storage equipment	2	Continuous	0.35

FLOR - Floor Information

I	FLOR	SIGN		I-FLOR-SIGN	Signage	6	Continuous	0.35
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FURN - Furniture

I	FURN	ACCS		I-FURN-ACCS	Accessories (vestibule mats, partitions, draperies, clocks, trash cans, lamps, etc.)	1	Continuous	0.25
I	FURN	ADPC		I-FURN-ADPC	Automated Data Processing Components	2	Continuous	0.35
I	FURN	ARTW		I-FURN-ARTW	Artwork	2	Continuous	0.35
I	FURN	CASE		I-FURN-CASE	Case goods (desks, credenzas, beds, dressers, nightstands, wardrobes, etc.)	6	Continuous	0.35
I	FURN	FLOR		I-FURN-FLOR	Flooring (carpet, rugs, etc.)	2	Continuous	0.35
I	FURN	FREE		I-FURN-FREE	Free-standing furnishings (desks, beds, tables, dressers, credenzas, case goods)	6	Continuous	0.35
I	FURN	GRID		I-FURN-GRID	Planning grid/modular outline	4	Continuous	0.50
I	FURN	IDEN		I-FURN-IDEN	Furniture code identification	3	Continuous	0.25
I	FURN	MISC		I-FURN-MISC	Miscellaneous furniture	2	Continuous	0.35
I	FURN	PLNT		I-FURN-PLNT	Plants	1	Continuous	0.25



Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
I	FURN	SEAT		I-FURN-SEAT	Chairs, sofas, etc.	2	Continuous	0.35
I	FURN	STOR		I-FURN-STOR	File cabinets, high density storage, shelving, storage cabinets	2	Continuous	0.35
STAT - Demolition (used only in creating Existing Demolition model files)								
I	STAT	DEMO	PHS1	I-STAT-DEMO-PHS1	Demolition - phase 1	203	Continuous	0.50
I	STAT	DEMO	PHS2	I-STAT-DEMO-PHS2	Demolition - phase 2	83	Continuous	0.50
I	STAT	DEMO	PHS3	I-STAT-DEMO-PHS3	Demolition - phase 3	163	Continuous	0.50
SYST - Systems Furniture								
I	SYST	FURN		I-SYST-FURN	Furniture	2	Continuous	0.35
I	SYST	IDEN		I-SYST-IDEN	Code identification	1	Continuous	0.25
I	SYST	LITE		I-SYST-LITE	Lighting components	4	Continuous	0.50
I	SYST	PATT		I-SYST-PATT	Patterns	8	Continuous	0.18
I	SYST	PNLS		I-SYST-PNLS	Panels	2	Continuous	0.35
I	SYST	POWR		I-SYST-POWR	Power, communication components	4	Continuous	0.50
I	SYST	STOR		I-SYST-STOR	Storage components	2	Continuous	0.35
I	SYST	WALL		I-SYST-WALL	Systems furniture partition walls	2	Continuous	0.35
I	SYST	WKSF		I-SYST-WKSF	Work surface components	2	Continuous	0.35



Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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LANDSCAPE

ANNO - General Information

L	ANNO	DIMS		L-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	7	Continuous	V
L	ANNO	KEYN		L-ANNO-KEYN	Reference keynotes with associated leaders	7	Continuous	V
L	ANNO	LEGN		L-ANNO-LEGN	Legend & Schedule	7	Continuous	V
L	ANNO	NOTE		L-ANNO-NOTE	General notes and general remarks	2	Continuous	0.35
L	ANNO	NPLT		L-ANNO-NPLT	Non-plotting graphic information	5	Continuous	0.18
L	ANNO	PATT		L-ANNO-PATT	Miscellaneous patterning	8	Continuous	0.18
L	ANNO	REDL		L-ANNO-REDL	Redlines	1	Continuous	0.25
L	ANNO	REVS		L-ANNO-REVS	Revisions	4	Continuous	0.50
L	ANNO	SYMB		L-ANNO-SYMB	Reference bubbles, match lines and break lines	6	Continuous	0.35
L	ANNO	TEXT		L-ANNO-TEXT	Detail title text, text and associated leaders, notes	7	Continuous	V

DETL - Detail Information

L	DETL	CABS		L-DETL-CABS	Cabinets, enclosures	2	Continuous	0.35
L	DETL	CONC		L-DETL-CONC	Concrete	1	Continuous	0.25
L	DETL	ERTH		L-DETL-ERTH	Earth	3	Continuous	0.25
L	DETL	FENC		L-DETL-FENC	Fencing	6	Continuous	0.35
L	DETL	FILL		L-DETL-FILL	Fill/cover material	5	Continuous	0.18
L	DETL	FURN		L-DETL-FURN	Furniture, furnishings	2	Continuous	0.35
L	DETL	GATE		L-DETL-GATE	Gate	2	Continuous	0.35
L	DETL	GENF		L-DETL-GENF	General features (miscellaneous items)	6	Continuous	0.35
L	DETL	GRAS		L-DETL-GRAS	Grass, sod	3	Continuous	0.25
L	DETL	GRPH		L-DETL-GRPH	Graphics, gridlines, non-text items	7	Continuous	V
L	DETL	INPD		L-DETL-INPD	Inch-pound-specific dimensions and notes	1	Continuous	0.25
L	DETL	METR		L-DETL-METR	Metric-specific dimensions and notes	3	Continuous	0.25
L	DETL	STRC		L-DETL-STRC	Structural metal, supports	6	Continuous	0.35



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

LANDSCAPE

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
L	DETL	TKST		L-DETL-TKST	Tank Site	2	Continuous	0.35
L	DETL	VEGI		L-DETL-VEGI	Planting details	3	Continuous	0.25
L	DETL	VLVE		L-DETL-VLVE	Valves, fittings	2	Continuous	0.35
L	DETL	WIRE		L-DETL-WIRE	Wiring	6	Continuous	0.35
IRRG - Irrigation System								
L	IRRG	COVR		L-IRRG-COVR	Irrigation coverage, spray distribution patterns	5	Continuous	0.18
L	IRRG	EQPM		L-IRRG-EQPM	Equipment (e.g., controllers, valves, RPBPs, etc.)	6	Continuous	0.35
L	IRRG	HEAD		L-IRRG-HEAD	Irrigation heads, bubblers, and drip irrigation emitters	1	Continuous	0.25
L	IRRG	IDEN		L-IRRG-IDEN	Annotation	2	Continuous	0.35
L	IRRG	PIPE		L-IRRG-PIPE	Piping	6	LAWNSP	0.35
L	IRRG	SPKL		L-IRRG-SPKL	Sprinklers	6	Continuous	0.35
PLNT - Plants								
L	PLNT	BEDS		L-PLNT-BEDS	Planting beds	6	Continuous	0.35
L	PLNT	BUSH		L-PLNT-BUSH	Bushes and shrubs (e.g., evergreen, deciduous)	83	Continuous	0.50
L	PLNT	BUSH	LINE	L-PLNT-BUSH-LINE	Bush and shrub line	83	Continuous	0.50
L	PLNT	CTNR		L-PLNT-CTNR	Containers or planters	1	Continuous	0.25
L	PLNT	GRND		L-PLNT-GRND	Groundcover and vines	82	Continuous	0.35
L	PLNT	IDEN		L-PLNT-IDEN	Annotation	6	Continuous	0.35
L	PLNT	MLCH		L-PLNT-MLCH	Mulches - organic and inorganic	3	Continuous	0.25
L	PLNT	PLTS		L-PLNT-PLTS	Planting plants (e.g., ornamental annuals and perennials)	83	Continuous	0.50
L	PLNT	SHAD		L-PLNT-SHAD	Shadow areas	5	Continuous	0.18
L	PLNT	SPRG		L-PLNT-SPRG	Sprigs	3	Continuous	0.25
L	PLNT	TREE		L-PLNT-TREE	Trees (e.g., evergreen, deciduous, etc.)	83	Continuous	0.50
L	PLNT	TREE	LINE	L-PLNT-TREE-LINE	Tree line	83	TREEL	0.50
L	PLNT	TURF		L-PLNT-TURF	Lawn areas (turving limits)	23	Continuous	0.50
SITE - Site								
L	SITE	BRDG		L-SITE-BRDG	Bridges	22	Continuous	0.35



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

LANDSCAPE

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
L	SITE	DECK		L-SITE-DECK	Decks	232	Continuous	0.35
L	SITE	FENC		L-SITE-FENC	Fencing	2	Continuous	0.35
L	SITE	FURN		L-SITE-FURN	Furnishings	4	Continuous	0.50
L	SITE	GATE		L-SITE-GATE	Gate	2	Continuous	0.35
L	SITE	IDEN		L-SITE-IDEN	Annotation	6	Continuous	0.35
L	SITE	PARK		L-SITE-PARK	Park	3	Continuous	0.35
L	SITE	PEST		L-SITE-PEST	Pest control	1	Continuous	0.35
L	SITE	PLAY		L-SITE-PLAY	Play structures	2	Continuous	0.35
L	SITE	POOL		L-SITE-POOL	Pools and spas	162	Continuous	0.35
L	SITE	RDNT		L-SITE-RDNT	Rodent control	2	Continuous	0.35
L	SITE	RECL		L-SITE-RECL	Reclaimed water	3	Continuous	0.35
L	SITE	ROCK		L-SITE-ROCK	Boulders and cobble	1	Continuous	0.25
L	SITE	RTWL		L-SITE-RTWL	Retaining walls	4	Continuous	0.50
L	SITE	SPRT		L-SITE-SPRT	Sports fields	2	Continuous	0.35
L	SITE	TUNL		L-SITE-TUNL	Tunnels	22	Continuous	0.35
L	SITE	WALK		L-SITE-WALK	Walks and steps	7	Continuous	V
L	SITE	WEED		L-SITE-WEED	Weeds	6	Continuous	0.35
STAT - Demolition (used only in creating Existing Demolition model files)								
L	STAT	DEMO		L-STAT-DEMO	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	6	2	0.35
L	STAT	DEMO	PHS1	L-STAT-DEMO-PHS1	Demolition - phase 1	203	Continuous	0.50
L	STAT	DEMO	PHS2	L-STAT-DEMO-PHS2	Demolition - phase 2	83	Continuous	0.50
L	STAT	DEMO	PHS3	L-STAT-DEMO-PHS3	Demolition - phase 3	163	Continuous	0.50
L	STAT	EXST		L-STAT-EXST	Existing to remain	3	Continuous	0.25
L	STAT	FUTR		L-STAT-FUTR	Future work	2	7	0.35
L	STAT	MOVE		L-STAT-MOVE	Items to be moved	6	6	0.35
L	STAT	NEWW		L-STAT-NEWW	New work	4	Continuous	0.50



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

LANDSCAPE

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
L	STAT	NICN		L-STAT-NICN	Not in contract	8	3	0.18
L	STAT	PHS#		L-STAT-PHS#	Phase numbers (#=1-9)	2	Continuous	0.35
L	STAT	RELO		L-STAT-RELO	Relocated items	5	2	0.18
L	STAT	TEMP		L-STAT-TEMP	Temporary work	4	4	0.50



Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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MECHANICAL

ACID - Industrial Waste Piping AFRZ

M	ACID	EQPM		M-ACID-EQPM	Acid, alkaline, and oil waste equipment	6	Continuous	0.35
M	ACID	PIPE		M-ACID-PIPE	Acid, alkaline, and oil waste piping	2	ACIDWS	0.35
M	ACID	VENT		M-ACID-VENT	Acid, alkaline, and oil waste vent piping	2	2	0.35

AFRZ - Antifreeze

M	AFRZ	PIPE		M-AFRZ-PIPE	Anti-freeze piping	82	Continuous	0.35
M	AFRZ	WAST		M-AFRZ-WAST	Waste anti-freeze piping	82	Continuous	0.35

ALGN - Alignments

M	ALGN	DATA		M-ALGN-DATA	Alignment coordinates and curve data	3	Continuous	0.25
M	ALGN	LINE		M-ALGN-LINE	Alignments	2	4	0.35
M	ALGN	STAT		M-ALGN-STAT	Alignment stationing and tick marks	3	Continuous	0.25

ANNO - General Information

M	ANNO	DIMS		M-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	7	Continuous	V
M	ANNO	KEYN		M-ANNO-KEYN	Reference keynotes with associated leaders	7	Continuous	V
M	ANNO	LEGN		M-ANNO-LEGN	Legend & Schedule	7	Continuous	V
M	ANNO	NOTE		M-ANNO-NOTE	General notes and general remarks	2	Continuous	0.35
M	ANNO	NPLT		M-ANNO-NPLT	Non-plotting graphic information	5	Continuous	0.18
M	ANNO	PATT		M-ANNO-PATT	Miscellaneous patterning and hatching	8	Continuous	0.18
M	ANNO	REDL		M-ANNO-REDL	Redlines	1	Continuous	0.25
M	ANNO	REFR		M-ANNO-REFR	Reference files (AutoCAD users only, see Chapter 4)	7	Continuous	V
M	ANNO	REVS		M-ANNO-REVS	Revisions	4	Continuous	0.50
M	ANNO	SYMB		M-ANNO-SYMB	Miscellaneous symbols	6	Continuous	0.35
M	ANNO	TEXT		M-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	7	Continuous	V

BRIN - Brine Systems

M	BRIN	EQPM		M-BRIN-EQPM	Brine system equipment	6	Continuous	0.35
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Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
M	BRIN	PIPE		M-BRIN-PIPE	Brine system piping	2	BRINER	0.35
CHEM - Chemical Treatment System								
M	CHEM	EQPM		M-CHEM-EQPM	Equipment	121	Continuous	0.25
M	CHEM	PIPE		M-CHEM-PIPE	Piping (includes fittings, valves)	121	Continuous	0.25
CNDW - Condenser Water System CNTL								
M	CNDW	EQPM		M-CNDW-EQPM	Condenser water equipment	82	Continuous	0.35
M	CNDW	PIPE		M-CNDW-PIPE	Condenser water piping	82	CONDWR	0.35
COND - Condensate								
M	COND	PIPE		M-COND-PIPE	Condensate piping (includes fittings, valves)	3	CDRNAF	0.25
CONT - Controls								
M	CONT	THER		M-CONT-THER	Thermostats, controls, instrumentation, and sensors	1	Continuous	0.25
M	CONT	WIRE		M-CONT-WIRE	Low voltage wiring	1	1	0.25
CWTR - Chilled Water System								
M	CWTR	EQPM		M-CWTR-EQPM	Equipment	122	Continuous	0.35
M	CWTR	PIPE		M-CWTR-PIPE	Piping (includes fittings, valves)	122	CWR	0.35
DETL - Detail Information								
M	DETL	ACCS		M-DETL-ACCS	Accessories	6	Continuous	0.35
M	DETL	BOIL		M-DETL-BOIL	Boilers	4	Continuous	0.50
M	DETL	CABS		M-DETL-CABS	Cabinets	6	Continuous	0.35
M	DETL	COIL		M-DETL-COIL	Coils and fin tubes	1	Continuous	0.25
M	DETL	DUCT		M-DETL-DUCT	Ducts	5	Continuous	0.18
M	DETL	EQPT		M-DETL-EQPT	Equipment and fixtures	2	Continuous	0.35
M	DETL	FANS		M-DETL-FANS	Fans	3	Continuous	0.25
M	DETL	GENF		M-DETL-GENF	General features (miscellaneous items)	7	Continuous	V
M	DETL	GRLS		M-DETL-GRLS	Grilles and louvers	3	Continuous	0.25
M	DETL	GRPH		M-DETL-GRPH	Graphics, gridlines, non-text items	7	Continuous	V
M	DETL	INPD		M-DETL-INPD	Inch-pound-specific dimensions and notes	1	Continuous	0.25



Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
M	DETL	INSL		M-DETL-INSL	Insulation and coverings	1	Continuous	0.25
M	DETL	METR		M-DETL-METR	Metric-specific dimensions and notes	3	Continuous	0.25
M	DETL	MOTR		M-DETL-MOTR	Motors	3	Continuous	0.25
M	DETL	PIPE		M-DETL-PIPE	Piping	2	Continuous	0.35
M	DETL	PUMP		M-DETL-PUMP	Pumps and compressors	3	Continuous	0.25
M	DETL	STRC		M-DETL-STRC	Structural support features	6	Continuous	0.35
M	DETL	TANK		M-DETL-TANK	Tanks	2	Continuous	0.35
M	DETL	TRAP		M-DETL-TRAP	Traps and drains	3	Continuous	0.25
M	DETL	VENT		M-DETL-VENT	Vents	3	Continuous	0.25
M	DETL	VLVE		M-DETL-VLVE	Valves and fittings	2	Continuous	0.35
M	DETL	WIRE		M-DETL-WIRE	Electrical wiring	1	Continuous	0.25
DIAG - Diagram Information								
M	DIAG	GRPH		M-DIAG-GRPH	Graphics, gridlines, non-text items	7	Continuous	V
M	DIAG	INPD		M-DIAG-INPD	Inch-pound-specific dimensions and notes	1	Continuous	0.25
M	DIAG	METR		M-DIAG-METR	Metric-specific dimensions and notes	3	Continuous	0.25
DISC - Other Discipline Information								
M	DISC	INFO		M-DISC-INFO	Clearances and working space information	3	Continuous	0.25
DUAL - Dual Temperature Systems								
M	DUAL	EQPM		M-DUAL-EQPM	Equipment	22	Continuous	0.35
M	DUAL	PIPE		M-DUAL-PIPE	Piping (includes fittings, valves)	22	DTR	0.35
DUST - Dust and Fume Collection Systems								
M	DUST	DUCT		M-DUST-DUCT	Dust and fume ductwork	22	Continuous	0.35
M	DUST	EQPM		M-DUST-EQPM	Dust and fume collection equipment	22	Continuous	0.35
ELEV - Elevations								
M	ELEV	FIXT		M-ELEV-FIXT	Miscellaneous fixtures	6	Continuous	0.35
M	ELEV	IDEN		M-ELEV-IDEN	Component identification numbers	2	Continuous	0.35
M	ELEV	OTLN		M-ELEV-OTLN	Building outlines	6	Continuous	0.35



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

MECHANICAL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
M	ELEV	PATT		M-ELEV-PATT	Textures and hatch patterns	8	Continuous	0.18
M	ELEV	PFIX		M-ELEV-PFIX	Plumbing fixtures	6	Continuous	0.35
EXHS - Exhaust								
M	EXHS	CDFF		M-EXHS-CDFF	Exhaust air ceiling registers and grilles	82	Continuous	0.35
M	EXHS	DUCT		M-EXHS-DUCT	Exhaust ductwork	82	Continuous	0.35
M	EXHS	EQPM		M-EXHS-EQPM	Equipment	82	Continuous	0.35
FLOR - Floor Information								
M	FLOR	IDEN		M-FLOR-IDEN	Room name, space identification text (copied from Architectural - Floor Plan model file)	3	Continuous	0.25
M	FLOR	NUMB		M-FLOR-NUMB	Room/space identification number and symbol (copied from Architectural - Floor Plan model file)	3	Continuous	0.25
GTHP - Geothermal Heat Pump System								
M	GTHP	EQPM		M-GTHP-EQPM	Equipment	6	Continuous	0.35
M	GTHP	PIPE		M-GTHP-PIPE	Piping (includes fittings, valves)	6	Continuous	0.35
HTCW - Hot and Chilled Water								
M	HTCW	ABND		M-HTCW-ABND	Abandoned piping	6	2	0.35
M	HTCW	CHLL		M-HTCW-CHLL	Main chilled water piping	6	Continuous	0.35
M	HTCW	CHLL	RTRN	M-HTCW-CHLL-RTRN	Chilled water return	135	Continuous	V
M	HTCW	CHLL	SERV	M-HTCW-CHLL-SERV	Chilled water lateral pipes	135	Continuous	V
M	HTCW	CHLP		M-HTCW-CHLP	Chilled water plant	6	Continuous	0.35
M	HTCW	CHLS		M-HTCW-CHLS	Chilled water service piping	3	Continuous	0.25
M	HTCW	DEVC		M-HTCW-DEVC	Rigid anchors, anchor guides, rectifiers, reducers, markers, meters, pumps, regulators, tanks, and valves	6	Continuous	0.35
M	HTCW	DEVC	DRAN	M-HTCW-DEVC-DRAN	Drain	135	Continuous	V
M	HTCW	DEVC	DRIP	M-HTCW-DEVC-DRIP	Drip	135	Continuous	V
M	HTCW	DUAL		M-HTCW-DUAL	Dual water pipes	135	Continuous	V
M	HTCW	DUAL	RTRN	M-HTCW-DUAL-RTRN	Dual water return	135	Continuous	V



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

MECHANICAL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
M	HTCW	DUAL	SERV	M-HTCW-DUAL-SERV	Dual water lateral pipes	135	Continuous	V
M	HTCW	FLOW		M-HTCW-FLOW	Flow direction arrows	3	Continuous	0.25
M	HTCW	FTTG		M-HTCW-FTTG	Fittings	6	Continuous	0.35
M	HTCW	FTTG	CAPS	M-HTCW-FTTG-CAPS	Caps	135	Continuous	V
M	HTCW	FTTG	FLNG	M-HTCW-FTTG-FLNG	Flange	135	Continuous	V
M	HTCW	HTPL		M-HTCW-HTPL	Main high temperature piping	1	Continuous	0.25
M	HTCW	HTPL	RTRN	M-HTCW-HTPL-RTRN	High temperature piping return	135	Continuous	V
M	HTCW	HTPL	SERV	M-HTCW-HTPL-SERV	High temperature piping - lateral	135	Continuous	V
M	HTCW	HTPP		M-HTCW-HTPP	High temperature water plant	6	Continuous	0.35
M	HTCW	HTPS		M-HTCW-HTPS	High temperature service piping	3	Continuous	0.25
M	HTCW	IDEN		M-HTCW-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
M	HTCW	JBOX		M-HTCW-JBOX	Junction boxes, manholes, hand holes, test boxes	1	Continuous	0.25
M	HTCW	LTPL		M-HTCW-LTPL	Main low temperature piping	2	Continuous	0.35
M	HTCW	LTPL	RTRN	M-HTCW-LTPL-RTRN	Low temperature piping return	135	Continuous	V
M	HTCW	LTPL	SERV	M-HTCW-LTPL-SERV	Low temperature piping lateral	135	Continuous	V
M	HTCW	LTPS		M-HTCW-LTPS	Low temperature service piping	3	Continuous	0.25
M	HTCW	MHOL		M-HTCW-MHOL	Manhole	135	Continuous	V
M	HTCW	PITS		M-HTCW-PITS	Valve pits/vaults, steam pits	3	Continuous	0.25
M	HTCW	PLNT	IDEN	M-HTCW-PLNT-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
M	HTCW	PUMP		M-HTCW-PUMP	Pump stations	6	Continuous	0.35
M	HTCW	RTRN		M-HTCW-RTRN	Return for all HTCW lines	5	Continuous	0.18
M	HTCW	STML		M-HTCW-STML	Main steam piping	1	Continuous	0.25
M	HTCW	STML	RTRN	M-HTCW-STML-RTRN	Steam piping return	135	Continuous	V
M	HTCW	STML	SERV	M-HTCW-STML-SERV	Steam piping lateral	135	Continuous	V
M	HTCW	STMS		M-HTCW-STMS	Steam service piping	3	Continuous	0.25
M	HTCW	STNS	IDEN	M-HTCW-STNS-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
M	HTCW	VLVE		M-HTCW-VLVE	Valves	135	Continuous	V



Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
M	HTCW	VLVE	PITS	M-HTCW-VLVE-PITS	Valve pits	135	Continuous	V
HVAC - Heating, Ventilation and Air Conditioning								
M	HVAC	ACCS		M-HVAC-ACCS	Equipment access doors	3	Continuous	0.25
M	HVAC	CDFF		M-HVAC-CDFF	Ceiling diffusers, registers, and grilles	12	Continuous	0.35
M	HVAC	DAMP		M-HVAC-DAMP	Fire and smoke dampers	1	Continuous	0.25
M	HVAC	EQPM		M-HVAC-EQPM	Air system equipment	2	Continuous	0.35
M	HVAC	FDFF		M-HVAC-FDFF	Floor diffusers, registers, and grilles	162	Continuous	0.35
M	HVAC	IDEN		M-HVAC-IDEN	Duct sizes	6	Continuous	0.35
M	HVAC	RETN		M-HVAC-RETN	Return ductwork	23	Continuous	0.50
M	HVAC	ROOF		M-HVAC-ROOF	Roof mounted HVAC equipment	2	Continuous	0.35
M	HVAC	SUPP		M-HVAC-SUPP	Supply ductwork	4	Continuous	0.50
M	HVAC	TAGS		M-HVAC-TAGS	Diffuser/register/grille tags and air flow arrows	6	Continuous	0.35
M	HVAC	WDFF		M-HVAC-WDFF	Wall diffusers, registers, and grilles	2	Continuous	0.35
HWTR - Hot Water Heating System								
M	HWTR	EQPM		M-HWTR-EQPM	Equipment	12	Continuous	0.35
M	HWTR	PIPE		M-HWTR-PIPE	Piping (includes fittings, valves)	12	HWR	0.35
HYDR - Hydraulic								
M	HYDR	EQPM		M-HYDR-EQPM	Hydraulic system equipment	6	Continuous	0.35
M	HYDR	PIPE		M-HYDR-PIPE	Hydraulic system piping	2	Continuous	0.35
INSL - Insulating (transformer) Oil								
M	INSL	EQPM		M-INSL-EQPM	Insulating oil equipment	6	Continuous	0.35
M	INSL	PIPE		M-INSL-PIPE	Insulating oil piping	2	Continuous	0.35
LUBE - Lubrication Oil								
M	LUBE	EQPM		M-LUBE-EQPM	Lubrication oil equipment	6	Continuous	0.35
M	LUBE	PIPE		M-LUBE-PIPE	Lubrication oil piping	2	Continuous	0.35
MACH - Machine Design								
M	MACH	BASE		M-MACH-BASE	Machinery bases	2	Continuous	0.35



Layer Name Parts			Layer Name	Description	Color Code	Line Type	Line Width (mm)
M	MACH	COMP	M-MACH-COMP	Miscellaneous machinery parts and components	2	Continuous	0.35
M	MACH	EXST	M-MACH-EXST	Existing machinery	3	Continuous	0.25
M	MACH	FAST	M-MACH-FAST	Fasteners, nuts, and bolts	2	Continuous	0.35
M	MACH	LROT	M-MACH-LROT	Large rotating machinery (turbine and pump outlines)	6	Continuous	0.35
M	MACH	MOTR	M-MACH-MOTR	Machinery motors	6	Continuous	0.35
MATL - Material Handling							
M	MATL	CRAN	M-MATL-CRAN	Bridge cranes, jib cranes, and monorails	2	Continuous	0.35
M	MATL	HOIS	M-MATL-HOIS	Hoists and hooks	2	Continuous	0.35
M	MATL	LIFT	M-MATL-LIFT	Miscellaneous lifting equipment	6	Continuous	0.35
PENE - Penetrations							
M	PENE	FLOR	M-PENE-FLOR	Floor penetrations	3	2	0.25
M	PENE	ROOF	M-PENE-ROOF	Roof penetrations	1	2	0.25
PROC - Process Piping							
M	PROC	EQPM	M-PROC-EQPM	Equipment	6	Continuous	0.35
M	PROC	PIPE	M-PROC-PIPE	Process piping	2	Continuous	0.35
RCOV - Energy Recovery System							
M	RCOV	EQPM	M-RCOV-EQPM	Equipment	6	Continuous	0.35
M	RCOV	PIPE	M-RCOV-PIPE	Piping (includes fittings, valves)	6	Continuous	0.35
REFG - Refrigeration System							
M	REFG	EQPM	M-REFG-EQPM	Equipment	6	Continuous	0.35
M	REFG	PIPE	M-REFG-PIPE	Piping (includes fittings, valves)	6	REFRD	0.35
RWTR - Raw Water Piping							
M	RWTR	EQPM	M-RWTR-EQPM	Raw water equipment	6	Continuous	0.35
M	RWTR	PIPE	M-RWTR-PIPE	Raw water piping	2	Continuous	0.35
SECT - Sections							
M	SECT	IDEN	M-SECT-IDEN	Component identification numbers	2	Continuous	0.35
M	SECT	MBND	M-SECT-MBND	Material beyond section cut	5	Continuous	0.18



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

MECHANICAL

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
M	SECT	MCUT		M-SECT-MCUT	Material cut by section	4	Continuous	0.50
M	SECT	PATT		M-SECT-PATT	Textures and hatch patterns	8	Continuous	0.18
STAT - Demolition (used only in creating Existing Demolition model files)								
M	STAT	DEMO		M-STAT-DEMO	Demolition	6	2	0.35
M	STAT	DEMO	PHS1	M-STAT-DEMO-PHS1	Demolition - phase 1	203	Continuous	0.50
M	STAT	DEMO	PHS2	M-STAT-DEMO-PHS2	Demolition - phase 2	83	Continuous	0.50
M	STAT	DEMO	PHS3	M-STAT-DEMO-PHS3	Demolition - phase 3	163	Continuous	0.50
M	STAT	EXST		M-STAT-EXST	Existing to remain	3	Continuous	0.25
M	STAT	FUTR		M-STAT-FUTR	Future work	2	7	0.35
M	STAT	MOVE		M-STAT-MOVE	Items to be moved	6	6	0.35
M	STAT	NEWW		M-STAT-NEWW	New work	4	Continuous	0.50
M	STAT	NICN		M-STAT-NICN	Not in contract	8	3	0.18
M	STAT	PHS#		M-STAT-PHS#	Phase numbers (#=1-9)	2	Continuous	0.35
M	STAT	RELO		M-STAT-RELO	Relocated items	5	2	0.18
M	STAT	TEMP		M-STAT-TEMP	Temporary work	4	4	0.50
STEM - Steam								
M	STEM	EQPM		M-STEM-EQPM	Equipment	2	Continuous	0.35
M	STEM	PIPE		M-STEM-PIPE	Steam piping	2	STEAM	0.35



Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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PLUMBING

ANNO - General Information

P	ANNO	DIMS		P-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	7	Continuous	V
P	ANNO	KEYN		P-ANNO-KEYN	Reference keynotes with associated leaders	7	Continuous	V
P	ANNO	LEGN		P-ANNO-LEGN	Legend & Schedule	7	Continuous	V
P	ANNO	NOTE		P-ANNO-NOTE	General notes and general remarks	2	Continuous	0.35
P	ANNO	NPLT		P-ANNO-NPLT	Non-plotting graphic information	5	Continuous	0.18
P	ANNO	PATT		P-ANNO-PATT	Miscellaneous patterning and hatching	8	Continuous	0.18
P	ANNO	REDL		P-ANNO-REDL	Redlines	1	Continuous	0.25
P	ANNO	REFR		P-ANNO-REFR	Reference files (AutoCAD users only, see Chapter 4)	7	Continuous	V
P	ANNO	REVS		P-ANNO-REVS	Revisions	4	Continuous	0.50
P	ANNO	SYMB		P-ANNO-SYMB	Reference bubbles, match lines and break lines	6	Continuous	0.35
P	ANNO	TEXT		P-ANNO-TEXT	Detail title text, text and associated leaders, notes	7	Continuous	V

CMPA - Compressed Air

P	CMPA	EQPM		P-CMPA-EQPM	Equipment	84	Continuous	0.70
P	CMPA	PIPE		P-CMPA-PIPE	Piping	83	CMPAIR	0.50

DETL - Detail Information

P	DETL	GRPH		P-DETL-GRPH	Graphics, gridlines, non-text items	7	Continuous	V
P	DETL	INPD		P-DETL-INPD	Inch-pound-specific dimensions and notes	2	Continuous	0.35
P	DETL	METR		P-DETL-METR	Metric-specific dimensions and notes	2	Continuous	0.35

DIAG - Diagram Information

P	DIAG	GRPH		P-DIAG-GRPH	Graphics, gridlines, non-text items	7	Continuous	V
P	DIAG	INPD		P-DIAG-INPD	Inch-pound-specific dimensions and notes	1	Continuous	0.25
P	DIAG	METR		P-DIAG-METR	Metric-specific dimensions and notes	1	Continuous	0.25

DISC - Other Discipline Information

P	DISC	INFO		P-DISC-INFO	Information and notes for other disciplines	7	Continuous	V
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Layer Name Parts			Layer Name	Description	Color Code	Line Type	Line Width (mm)	
FLOR - Floor Information								
P	FLOR	FIXT	P-FLOR-FIXT	Plumbing fixtures [toilets, urinals, lavatories, toilet partitions & specialties]	131	Continuous	0.35	
P	FLOR	IDEN	P-FLOR-IDEN	Room name, space identification text (copied from Architectural - Floor Plan model file)	3	Continuous	0.25	
P	FLOR	NUMB	P-FLOR-NUMB	Room/space identification number and symbol (copied from Architectural - Floor Plan model file)	3	Continuous	0.25	
FUEL - Liquid Fuel								
P	FUEL	EQPM	P-FUEL-EQPM	Equipment	24	Continuous	0.70	
P	FUEL	FGAS	P-FUEL-FGAS	Fuel gas piping	23	NTGASN	0.50	
P	FUEL	FOIL	P-FUEL-FOIL	Fuel oil piping	23	FUELOR	0.50	
P	FUEL	NGAS	P-FUEL-NGAS	Natural gas piping	23	LIQPET	0.50	
LGAS - Laboratory Piping								
P	LGAS	EQPM	P-LGAS-EQPM	Equipment	24	Continuous	0.70	
P	LGAS	PIPE	P-LGAS-PIPE	Piping	23	OXYGEN	0.50	
PENE - Penetrations								
P	PENE	FLOR	P-PENE-FLOR	Floor penetrations	3	2	0.25	
P	PENE	ROOF	P-PENE-ROOF	Roof penetrations	1	2	0.25	
SANR - Sanitary Drainage Piping								
P	SANR	COND	P-SANR-COND	Condensate piping	83	Continuous	0.50	
P	SANR	EQPM	P-SANR-EQPM	Equipment (e.g., sand/oil/water separators)	204	Continuous	0.70	
P	SANR	FIXT	P-SANR-FIXT	Plumbing fixtures	6	Continuous	0.35	
P	SANR	FLDR	P-SANR-FLDR	Floor drains, sinks, and cleanouts	6	Continuous	0.35	
P	SANR	PIPE	P-SANR-PIPE	Piping	203	SSWAF	0.50	
P	SANR	RISR	P-SANR-RISR	Sanitary risers	203	2	0.50	
P	SANR	VENT	P-SANR-VENT	Vent piping	203	VENT	0.50	
STAT - Demolition (used only in creating Existing Demolition model files)								



Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
P	STAT	DEMO		P-STAT-DEMO	Demolition	6	2	0.35
P	STAT	DEMO	PHS1	P-STAT-DEMO-PHS1	Demolition - phase 1	203	Continuous	0.50
P	STAT	DEMO	PHS2	P-STAT-DEMO-PHS2	Demolition - phase 2	83	Continuous	0.50
P	STAT	DEMO	PHS3	P-STAT-DEMO-PHS3	Demolition - phase 3	163	Continuous	0.50
P	STAT	EXST		P-STAT-EXST	Existing to remain	3	Continuous	0.25
P	STAT	FUTR		P-STAT-FUTR	Future work	2	7	0.35
P	STAT	MOVE		P-STAT-MOVE	Items to be moved	6	6	0.35
P	STAT	NEWW		P-STAT-NEWW	New work	4	Continuous	0.50
P	STAT	NICN		P-STAT-NICN	Not in contract	8	3	0.18
P	STAT	PHS#		P-STAT-PHS#	Phase numbers (#=1-9)	2	Continuous	0.35
P	STAT	RELO		P-STAT-RELO	Relocated items	5	2	0.18
P	STAT	TEMP		P-STAT-TEMP	Temporary work	4	4	0.50
STRM - Storm Drain								
P	STRM	PIPE		P-STRM-PIPE	Storm drain piping	163	STRAF	0.50
P	STRM	RFDR		P-STRM-RFDR	Roof drains	163	Continuous	0.50
P	STRM	RISR		P-STRM-RISR	Storm drain risers	163	2	0.50



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

EQUIPMENT

Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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EQUIPMENT

POWR - Electrical

Q	POWR	EVCS		Q-POWR-EVCS	Electrical vehicle charging stations	6	Continuous	V
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Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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STRUCTURAL

ANNO - General Information

S	ANNO	DIMS		S-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text, welding symbols	7	Continuous	V
S	ANNO	KEYN		S-ANNO-KEYN	Reference keynotes with associated leaders	7	Continuous	V
S	ANNO	LEGN		S-ANNO-LEGN	Legend & Schedule	7	Continuous	V
S	ANNO	NOTE		S-ANNO-NOTE	General notes and general remarks	2	Continuous	0.35
S	ANNO	NPLT		S-ANNO-NPLT	Non-plotting graphic information	5	Continuous	0.18
S	ANNO	PATT		S-ANNO-PATT	Miscellaneous patterning and hatching	8	Continuous	0.18
S	ANNO	REDL		S-ANNO-REDL	Redlines	1	Continuous	0.25
S	ANNO	REFR		S-ANNO-REFR	Reference files (AutoCAD users only, see Chapter 4)	7	Continuous	V
S	ANNO	REVS		S-ANNO-REVS	Revisions	4	Continuous	0.50
S	ANNO	SYMB		S-ANNO-SYMB	Reference bubbles, match lines and break lines	6	Continuous	0.35
S	ANNO	TEXT		S-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	7	Continuous	V

AREA - Structural Area

S	AREA			S-AREA	Building areas between joints	2	Continuous	0.35
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BEAM - Beam

S	BEAM	CNTR		S-BEAM-CNTR	Beam centerlines	5	7	0.18
S	BEAM	PRIM		S-BEAM-PRIM	Primary beams, girders	4	Continuous	0.50
S	BEAM	SECD		S-BEAM-SECD	Secondary beams, girders	6	Continuous	0.35

BRAC - Bracing

S	BRAC	LATL		S-BRAC-LATL	Lateral bracing	2	Continuous	0.35
S	BRAC	SHEA		S-BRAC-SHEA	Shear walls	2	Continuous	0.35
S	BRAC	VERT		S-BRAC-VERT	Vertical bracing	2	Continuous	0.35

COLS - Columns

S	COLS			S-COLS	Columns (unattached to walls)	2	Continuous	0.35
S	COLS	CNTR		S-COLS-CNTR	Column centerlines/working lines	10	7	0.18



Layer Name Parts			Layer Name	Description	Color Code	Line Type	Line Width (mm)	
S	COLS	MSC1		S-COLS-MSC1	Miscellaneous columns (Type 1)	22	Continuous	0.35
S	COLS	MSC2		S-COLS-MSC2	Miscellaneous columns (Type 2)	22	Continuous	0.35
S	COLS	MSC3		S-COLS-MSC3	Miscellaneous columns (Type 3)	22	Continuous	0.35
S	COLS	MSC4		S-COLS-MSC4	Miscellaneous columns (Type 4)	22	Continuous	0.35
S	COLS	PRIM		S-COLS-PRIM	Primary columns	6	Continuous	0.35
S	COLS	SCND		S-COLS-SCND	Secondary columns	2	Continuous	0.35
DECK - Deck								
S	DECK	FLOR		S-DECK-FLOR	Floor deck	3	Continuous	0.25
S	DECK	OPEN		S-DECK-OPEN	Openings and penetrations	1	Continuous	0.25
S	DECK	RBAR		S-DECK-RBAR	Deck/slab reinforcing	7	Continuous	0.70
S	DECK	ROOF		S-DECK-ROOF	Roof deck	3	Continuous	0.25
DETL - Detail Information								
S	DETL	GRPH		S-DETL-GRPH	Graphics, gridlines, non-text items	7	Continuous	V
S	DETL	INPD		S-DETL-INPD	Inch-pound-specific dimensions and notes	2	Continuous	0.35
S	DETL	METR		S-DETL-METR	Metric-specific dimensions and notes	2	Continuous	0.35
FEAT - Features								
S	FEAT	CMUW		S-FEAT-CMUW	CMU outline (no patterning)	2	Continuous	0.35
S	FEAT	CNTR		S-FEAT-CNTR	Feature centerlines	5	7	0.18
S	FEAT	CONC		S-FEAT-CONC	Concrete outline (no patterning)	6	Continuous	0.35
S	FEAT	GENL		S-FEAT-GENL	General features (miscellaneous items)	6	Continuous	0.35
S	FEAT	WOOD		S-FEAT-WOOD	Wood outline (no patterning)	2	Continuous	0.35
FNDN - Foundation								
S	FNDN	CNTR		S-FNDN-CNTR	Beam centerlines	5	7	0.18
S	FNDN	FTNG		S-FNDN-FTNG	Footings	4	Continuous	0.50
S	FNDN	GRBM		S-FNDN-GRBM	Grade beams	4	Continuous	0.50
S	FNDN	PEDS		S-FNDN-PEDS	Column pedestals	4	Continuous	0.50



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

STRUCTURAL

Layer Name Parts			Layer Name	Description	Color Code	Line Type	Line Width (mm)
S	FNDN	PILE	S-FNDN-PILE	Piles (steel sheet, concrete, wood), piers, caisson piers, drilled piers	2	Continuous	0.35
S	FNDN	RBAR	S-FNDN-RBAR	Foundation reinforcing	7	Continuous	0.70
GRAT - Grating GRDL							
S	GRAT	ELEV	S-GRAT-ELEV	Elevated grating (catwalks)	3	Continuous	0.25
S	GRAT	FLOR	S-GRAT-FLOR	Floor grating	3	Continuous	0.25
S	GRAT	SUBS	S-GRAT-SUBS	Subsurface grating	3	Continuous	0.25
GRDL - Grade Lines							
S	GRDL	EXGL	S-GRDL-EXGL	Existing ground	3	3	0.25
S	GRDL	FNGR	S-GRDL-FNGR	Finished grade	2	Continuous	0.35
S	GRDL	WATR	S-GRDL-WATR	Water surface	3	Continuous	0.25
GRID - Grid Lines							
S	GRID		S-GRID	Grid lines	5	CENTER2	0.18
S	GRID	DIMS	S-GRID-DIMS	Grid line dimensions	1	Continuous	0.25
S	GRID	HORZ	S-GRID-HORZ	Primary grid lines (horizontal)	5	7	0.18
S	GRID	IDEN	S-GRID-IDEN	Column I.D. tags	1	Continuous	0.25
S	GRID	IDEN	S-GRID-IDEN	Column I.D. tags	1	Continuous	0.25
S	GRID	MSC	S-GRID-MSC	Miscellaneous grid lines (Type 1)	8	Continuous	0.18
S	GRID	MSC2	S-GRID-MSC2	Miscellaneous grid lines (Type 2)	8	Continuous	0.18
S	GRID	MSC3	S-GRID-MSC3	Miscellaneous grid lines (Type 3)	8	Continuous	0.18
S	GRID	MSC4	S-GRID-MSC4	Miscellaneous grid lines (Type 4)	8	Continuous	0.18
S	GRID	VERT	S-GRID-VERT	Primary grid lines (vertical)	5	7	0.18
JOIN - Joints							
S	JOIN	CNST	S-JOIN-CNST	Construction joints	3	Continuous	0.25
S	JOIN	CTRL	S-JOIN-CTRL	Control/expansion joints	1	Continuous	0.25
JOIS - Open Web Joists							
S	JOIS	BRDG	S-JOIS-BRDG	Bridging	1	2	0.25



Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
S	JOIS	PRIM		S-JOIS-PRIM	Primary joists	4	Continuous	0.50
S	JOIS	SECD		S-JOIS-SECD	Secondary joists	6	Continuous	0.35
METL - Miscellaneous Metal								
S	METL	MISC		S-METL-MISC	Miscellaneous metal	6	Continuous	0.35
OPEN - Openings								
S	OPEN	MISC		S-OPEN-MISC	Openings and penetrations	1	Continuous	0.25
PADS - Pads (Arm/Disarm, Calibrations, etc.)								
S	PADS	EQPM		S-PADS-EQPM	Equipment pads	6	Continuous	0.35
PIPE - Piping								
S	PIPE	GATE		S-PIPE-GATE	Gates (flap gates, sluice gates, other)	3	Continuous	0.25
S	PIPE	MISC		S-PIPE-MISC	Miscellaneous piping/culverts	2	Continuous	0.35
S	PIPE	TRSH		S-PIPE-TRSH	Trash racks	3	Continuous	0.25
REIN - Reinforcement								
S	REIN	RBAR		S-REIN-RBAR	Reinforcing bar, welded wire mesh	7	Continuous	0.70
SAFE - Safety Barriers								
S	SAFE	FENC		S-SAFE-FENC	Fencing	3	Continuous	0.25
S	SAFE	HRAL		S-SAFE-HRAL	Handrails	3	Continuous	0.25
SECT - Sections								
S	SECT	CMUW		S-SECT-CMUW	CMU outline (no patterning)	2	Continuous	0.35
S	SECT	CNTR		S-SECT-CNTR	Centerlines	5	7	0.18
S	SECT	CONC		S-SECT-CONC	Concrete outline (no patterning)	6	Continuous	0.35
S	SECT	FNGR		S-SECT-FNGR	Finished grade	2	Continuous	0.35
S	SECT	GENF		S-SECT-GENF	General features (miscellaneous items)	6	Continuous	0.35
S	SECT	JOIN		S-SECT-JOIN	Joint materials (e.g., felt), vapor barrier, other	1	Continuous	0.25
S	SECT	MISC		S-SECT-MISC	Miscellaneous fasteners, anchor bolts, supports	3	Continuous	0.25
S	SECT	PRIM		S-SECT-PRIM	Primary beams/girders outlines	4	Continuous	0.50
S	SECT	RBAR		S-SECT-RBAR	Rebar, welded wire mesh	7	Continuous	0.70



Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
S	SECT	SHPS		S-SECT-SHPS	Miscellaneous shapes, plates	3	Continuous	0.25
S	SECT	STLS		S-SECT-STLS	Wide flange shapes, plates, open web joists, decking	3	Continuous	0.25
S	SECT	WOOD		S-SECT-WOOD	Wood outline (no patterning)	2	Continuous	0.35
SLAB - Slabs								
S	SLAB	EDGE		S-SLAB-EDGE	Edge of slab	2	Continuous	0.35
S	SLAB	OPEN		S-SLAB-OPEN	Openings and penetrations	1	Continuous	0.25
S	SLAB	RBAR		S-SLAB-RBAR	Slab reinforcing	7	Continuous	0.70
SPPT - Miscellaneous Supports								
S	SPPT	MISC		S-SPPT-MISC	Miscellaneous fasteners, anchor bolts, supports	3	Continuous	0.25
S	SPPT	SHPS		S-SPPT-SHPS	Miscellaneous shapes, plates	3	Continuous	0.25
STAT - Demolition (used only in creating Existing Demolition model files)								
S	STAT	DEMO		S-STAT-DEMO	Demolition	6	2	0.35
S	STAT	DEMO	PHS1	S-STAT-DEMO-PHS1	Demolition - phase 1	203	Continuous	0.50
S	STAT	DEMO	PHS2	S-STAT-DEMO-PHS2	Demolition - phase 2	83	Continuous	0.50
S	STAT	DEMO	PHS3	S-STAT-DEMO-PHS3	Demolition - phase 3	163	Continuous	0.50
S	STAT	EXST		S-STAT-EXST	Existing to remain	91	Continuous	0.25
S	STAT	FUTR		S-STAT-FUTR	Future work	2	7	0.35
S	STAT	MOVE		S-STAT-MOVE	Items to be moved	6	6	0.35
S	STAT	NEWW		S-STAT-NEWW	New work	4	Continuous	0.50
S	STAT	NICN		S-STAT-NICN	Not in contract	8	3	0.18
S	STAT	PHS#		S-STAT-PHS#	Phase numbers (#=1-9)	2	Continuous	0.35
S	STAT	RELO		S-STAT-RELO	Relocated items	5	2	0.18
S	STAT	TEMP		S-STAT-TEMP	Temporary work	4	4	0.50
STRS - Stairs and Elevators								
S	STRS	FRAM		S-STRS-FRAM	Stair/elevator framing	6	Continuous	0.35
S	STRS	LADD		S-STRS-LADD	Ladders, ladder handrails, safety guard, grab bars	3	Continuous	0.25
S	STRS	RBAR		S-STRS-RBAR	Stair reinforcing	7	Continuous	0.70



Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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SUBS - Substructures

S	SUBS	DUCT		S-SUBS-DUCT	Duct banks/ substructures	1	Continuous	V
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TRUS - Trusses

S	TRUS	PRIM		S-TRUS-PRIM	Primary trusses	4	Continuous	0.50
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S	TRUS	SECD		S-TRUS-SECD	Secondary trusses	6	Continuous	0.35
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WALL - Walls

S	WALL	CONC		S-WALL-CONC	Concrete walls	2	Continuous	0.35
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S	WALL	HBAR		S-WALL-HBAR	Horizontal/secondary reinforcement	4	Continuous	0.50
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S	WALL	LOAD		S-WALL-LOAD	Load bearing CMU walls	2	Continuous	0.35
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S	WALL	NONL		S-WALL-NONL	Non-load bearing CMU walls	6	Continuous	0.35
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S	WALL	OPEN		S-WALL-OPEN	Openings and penetrations	1	Continuous	0.25
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S	WALL	OTLN		S-WALL-OTLN	Wall outline	2	Continuous	0.35
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S	WALL	PCST		S-WALL-PCST	Precast walls	2	Continuous	0.35
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S	WALL	RBAR		S-WALL-RBAR	Wall reinforcing	7	Continuous	0.70
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S	WALL	STUD		S-WALL-STUD	Stud walls	2	Continuous	0.35
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S	WALL	VBAR		S-WALL-VBAR	Vertical/primary reinforcement	4	Continuous	0.50
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Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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TELECOMMUNICATIONS

ALRM - Fire Alarm / Detection Equipment

T	ALRM	IDEN		T-ALRM-IDEN	Identifier tags, symbol modifier, and text	1	Continuous	0.25
T	ALRM	SYST		T-ALRM-SYST	Miscellaneous alarm system symbols	6	Continuous	0.35

ANNO - General Information

T	ANNO	DIMS		T-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	7	Continuous	V
T	ANNO	KEYN		T-ANNO-KEYN	Reference keynotes with associated leaders	7	Continuous	V
T	ANNO	LEGN		T-ANNO-LEGN	Legend & Schedule	7	Continuous	V
T	ANNO	NOTE		T-ANNO-NOTE	General notes and general remarks	2	Continuous	0.35
T	ANNO	NPLT		T-ANNO-NPLT	Non-plotting graphic information	5	Continuous	0.18
T	ANNO	PATT		T-ANNO-PATT	Miscellaneous patterning and hatching	8	Continuous	0.18
T	ANNO	REDL		T-ANNO-REDL	Redlines	1	Continuous	0.25
T	ANNO	REFR		T-ANNO-REFR	Reference files (AutoCAD users only, see Chapter 4)	7	Continuous	V
T	ANNO	REVS		T-ANNO-REVS	Revisions	4	Continuous	0.50
T	ANNO	SYMB		T-ANNO-SYMB	Miscellaneous symbols	6	Continuous	0.35
T	ANNO	TEXT		T-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	7	Continuous	V

CABL - Cable System

T	CABL	COAX		T-CABL-COAX	Coax cable	83	2	0.50
T	CABL	FIBR		T-CABL-FIBR	Fiber optics cable	83	FIBOPT	0.50
T	CABL	IDEN		T-CABL-IDEN	Cable identifiers	2	Continuous	0.35
T	CABL	MULT		T-CABL-MULT	Multi-conductor cable	83	Continuous	0.50
T	CABL	TRAY		T-CABL-TRAY	Cable trays and wire ways	203	Continuous	0.50

CLOK - Clock System

T	CLOK	IDEN		T-CLOK-IDEN	Identifier tags, symbol modifier, and text	1	Continuous	0.25
T	CLOK	SYST		T-CLOK-SYST	Clock system symbols	6	Continuous	0.35

COMM - Communications



Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
T	COMM	APSY		T-COMM-APSY	Audio paging system	7	Continuous	0.35
T	COMM	ATMS		T-COMM-ATMS	Advanced traffic management system	7	Continuous	0.35
T	COMM	AVID		T-COMM-AVID	Automatic vehicle identification system	7	Continuous	0.35
T	COMM	BIDS		T-COMM-BIDS	Baggage information display system	7	Continuous	0.35
T	COMM	FIDS		T-COMM-FIDS	Flight information display system	7	Continuous	0.35
T	COMM	GISY		T-COMM-GISY	Gate information system	7	Continuous	0.35
T	COMM	JBOX		T-COMM-JBOX	Junction boxes	83	Continuous	0.50
T	COMM	PMRC		T-COMM-PMRC	Parking management and revenue control	7	Continuous	0.35
T	COMM	VPSY		T-COMM-VPSY	Visual paging system	7	Continuous	0.35
T	COMM	WLAN		T-COMM-WLAN		45	2	0.50
DIAG - Diagram Information								
T	DIAG	GRPH		T-DIAG-GRPH	Graphics, gridlines, non-text items	7	Continuous	V
T	DIAG	IDEN		T-DIAG-IDEN	Identifier tags, symbol modifier and text	2	Continuous	0.35
T	DIAG	INPD		T-DIAG-INPD	Inch-pound-specific dimensions and notes	2	Continuous	0.35
T	DIAG	METR		T-DIAG-METR	Metric-specific dimensions and notes	2	Continuous	0.35
DISC - Other Discipline Information								
T	DISC	INFO		T-DISC-INFO	Information and notes for other disciplines	7	Continuous	V
EQPM - Equipment								
T	EQPM	COMB		T-EQPM-COMB	Distribution equipment for both copper and fiber optics	4	Continuous	0.50
T	EQPM	COPP		T-EQPM-COPP	Distribution equipment for copper	4	Continuous	0.50
T	EQPM	FIBR		T-EQPM-FIBR	Distribution equipment for fiber optic	4	Continuous	0.50
T	EQPM	OTHR		T-EQPM-OTHR	Other telecommunications equipment	4	Continuous	0.50
T	EQPM	RELA		T-EQPM-RELA	Relays, resistors, capacitors, and inducers	4	Continuous	0.50
FLOR - Floor Information								
T	FLOR	IDEN		T-FLOR-IDEN	Room name, space identification text (copied from Architectural - Floor Plan model file)	3	Continuous	0.25



Layer Name Parts					Layer Name	Description	Color Code	Line Type	Line Width (mm)
T	FLOR	NUMB			T-FLOR-NUMB	Room/space identification number and symbol (copied from Architectural - Floor Plan model file)	3	Continuous	0.25
JACK - Jacks									
T	JACK	COMB			T-JACK-COMB	Combination telephone and data/LAN jacks	203	Continuous	0.50
T	JACK	DATA			T-JACK-DATA	Data/LAN jacks	203	Continuous	0.50
T	JACK	IDEN			T-JACK-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
T	JACK	PHON			T-JACK-PHON	Telephone jacks	203	Continuous	0.50
NURS - Nurse Call / Paging System									
T	NURS	IDEN			T-NURS-IDEN	Identifier tags, symbol modifier, and text	1	Continuous	0.25
T	NURS	SYST			T-NURS-SYST	Nurse call system symbols	6	Continuous	0.35
SOUN - Sound Systems									
T	SOUN	IDEN			T-SOUN-IDEN	Identifier tags, symbol modifier, and text	1	Continuous	0.25
T	SOUN	SYST			T-SOUN-SYST	Sound system symbols	6	Continuous	0.35
STAT - Demolition (used only in creating Existing Demolition model files)									
T	STAT	DEMO	PHS1		T-STAT-DEMO-PHS1	Demolition - phase 1	203	Continuous	0.50
T	STAT	DEMO	PHS2		T-STAT-DEMO-PHS2	Demolition - phase 2	83	Continuous	0.50
T	STAT	DEMO	PHS3		T-STAT-DEMO-PHS3	Demolition -phase 3	163	Continuous	0.50



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

SURVEY

Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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SURVEY

AERI - Aerial Survey

V	AERI	BNDY			V-AERI-BNDY	Aerial photography boundaries	6	Continuous	0.35
V	AERI	INDX			V-AERI-INDX	Aerial photo index	7	Continuous	0.70
V	AERI	PATH			V-AERI-PATH	Aerial flight lines/paths	22	11	0.35

AIRF - Airfield

V	AIRF	BLST	PAD		V-AIRF-BLST-PAD	Blast pads	8	Continuous	V
V	AIRF	DEVC			V-AIRF-DEVC	Capacitors, voltage regulators, motors, buses, generators, meters, grounds, and markers	6	Continuous	0.35
V	AIRF	DUCT			V-AIRF-DUCT	Ductbanks	3	Continuous	0.25
V	AIRF	JBOX			V-AIRF-JBOX	Junction boxes, pull boxes, manholes, hand holes, pedestals, splices	1	Continuous	0.25
V	AIRF	PVMT	APRN		V-AIRF-PVMT-APRN	Apron	120	Continuous	V
V	AIRF	PVMT	APRN	MRKG	V-AIRF-PVMT-APRN-MRKG	Apron markings	123	Continuous	V
V	AIRF	PVMT	APRN	SHLR	V-AIRF-PVMT-APRN-SHLR	Apron shoulders	160	Continuous	V
V	AIRF	PVMT	RUNW		V-AIRF-PVMT-RUNW	Runways	4	Continuous	V
V	AIRF	PVMT	RUNW	MRKG	V-AIRF-PVMT-RUNW-MRKG	Runway markings	7	Continuous	V
V	AIRF	PVMT	RUNW	SHLR	V-AIRF-PVMT-RUNW-SHLR	Runway shoulders	4	Continuous	V
V	AIRF	PVMT	TAXI		V-AIRF-PVMT-TAXI	Taxiway	140	Continuous	V
V	AIRF	PVMT	TAXI	MRKG	V-AIRF-PVMT-TAXI-MRKG	Taxiway markings	7	Continuous	V
V	AIRF	PVMT	TAXI	SHLR	V-AIRF-PVMT-TAXI-SHLR	Taxiway shoulders	140	Continuous	V

ALGN - Alignments

V	ALGN	DATA			V-ALGN-DATA	Alignment coordinates and curve data	3	Continuous	0.25
V	ALGN	LINE			V-ALGN-LINE	Alignments	2	4	0.35
V	ALGN	MARK			V-ALGN-MARK	Alignment tick marks	3	Continuous	0.25
V	ALGN	STAT			V-ALGN-STAT	Alignment stationing and tick marks	3	Continuous	0.25

ANNO - General Information



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

SURVEY

Layer Name Parts			Layer Name	Description	Color Code	Line Type	Line Width (mm)
V	ANNO	DIMS	V-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	7	Continuous	V
V	ANNO	KEYN	V-ANNO-KEYN	Reference keynotes with associated leaders	7	Continuous	V
V	ANNO	LEGN	V-ANNO-LEGN	Legend & Schedule	7	Continuous	V
V	ANNO	NOTE	V-ANNO-NOTE	General notes and general remarks	2	Continuous	0.35
V	ANNO	NPLT	V-ANNO-NPLT	Non-plotting graphic information	5	Continuous	0.18
V	ANNO	PATT	V-ANNO-PATT	Miscellaneous patterning and hatching	8	Continuous	0.18
V	ANNO	REDL	V-ANNO-REDL	Redlines	1	Continuous	0.25
V	ANNO	REFR	V-ANNO-REFR	Reference files (AutoCAD users only, see Chapter 4)	7	Continuous	V
V	ANNO	REVS	V-ANNO-REVS	Revisions	4	Continuous	0.50
V	ANNO	SYMB	V-ANNO-SYMB	Miscellaneous symbols	6	Continuous	0.35
V	ANNO	TEXT	V-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	7	Continuous	V
BCNS - Beacons							
V	BCNS	IDEN	V-BCNS-IDEN	Identifier tags, symbol modifier, and text	6	Continuous	0.35
V	BCNS	MISC	V-BCNS-MISC	Miscellaneous navigational aids - wind cones and beacons	6	Continuous	0.35
V	BCNS	STRB	V-BCNS-STRB	Strobe beacons	6	Continuous	0.35
BLDG - Buildings							
V	BLDG	IDEN	V-BLDG-IDEN	Building and other structure annotation	2	Continuous	0.35
V	BLDG	OTLN	V-BLDG-OTLN	Buildings and other structures	7	Continuous	0.70
CATH - Cathodic Protection System							
V	CATH	ANOD	V-CATH-ANOD	Sacrificial anode system	161	Continuous	0.25
V	CATH	CURR	V-CATH-CURR	Impress current system	161	Continuous	0.25
V	CATH	IDEN	V-CATH-IDEN	Identifier tags, symbol modifier, and text	161	Continuous	0.25
V	CATH	TEST	V-CATH-TEST	Test stations	161	Continuous	0.25
CHAN - Channels (waterway)							
V	CHAN	AIDS	V-CHAN-AIDS	Navigation aids and text	2	Continuous	0.35



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

SURVEY

Layer Name Parts					Layer Name	Description	Color Code	Line Type	Line Width (mm)
V	CHAN	CNTR			V-CHAN-CNTR	Channel centerline and survey report lines	5	4	0.18
V	CHAN	CNTR	IDEN		V-CHAN-CNTR-IDEN	Channel centerline and survey report lines -annotation	5	Continuous	0.18
V	CHAN	DACL			V-CHAN-DACL	De-authorized channel limits, anchorages, etc.	3	Continuous	0.25
V	CHAN	DACL	IDEN		V-CHAN-DACL-IDEN	De-authorized channel limits, anchorages, etc. - annotation	3	Continuous	0.25
V	CHAN	IDEN			V-CHAN-IDEN	Channel limits, anchorages, turning basins, disposal areas, etc. - annotation	6	Continuous	0.35
V	CHAN	LIMT			V-CHAN-LIMT	Channel limits, anchorages, turning basins, disposal areas, etc.	6	Continuous	0.35
CIRC - Circuits									
V	CIRC	CTRL			V-CIRC-CTRL	Control and monitoring circuits	12	Continuous	0.35
V	CIRC	IDEN			V-CIRC-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
V	CIRC	MULT			V-CIRC-MULT	Multiple circuits	22	Continuous	0.35
V	CIRC	SERS			V-CIRC-SERS	Series circuits	82	Continuous	0.35
COMM - Communications									
V	COMM	EQPM			V-COMM-EQPM	Other communications distribution equipment	21	Continuous	0.25
V	COMM	JBOX			V-COMM-JBOX	Communication junction boxes, pull boxes, manholes, hand holes, pedestals, splices	21	Continuous	0.25
V	COMM	OVHD			V-COMM-OVHD	Overhead communications/telephone lines	81	COMARX	0.25
V	COMM	OVHD	IDEN		V-COMM-OVHD-IDEN	Overhead identifier tags/text	81	Continuous	0.25
V	COMM	UNDR			V-COMM-UNDR	Underground communications/telephone lines	81	COMUGX	0.25
V	COMM	UNDR	IDEN		V-COMM-UNDR-IDEN	Identifier tags, symbol modifier and text	81	Continuous	0.25
V	COMM	VALT			V-COMM-VALT	Communications vault	21	Continuous	0.25
DUCT - Underground Duct Bank (to be used when multiple systems are in one ductbank system)									
V	DUCT	MULT			V-DUCT-MULT	Ductbank	201	EUDUCX	0.25
V	DUCT	MULT	IDEN		V-DUCT-MULT-IDEN	Identifier tags, symbol modifier and text	201	Continuous	0.25
ELEC - Electrical Support Equipment									



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

SURVEY

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
V	ELEC	DEVC		V-ELEC-DEVC	Capacitors, voltage regulators, motors, buses, generators, meters, grounds, and markers	21	Continuous	0.25
V	ELEC	JBOX		V-ELEC-JBOX	Junction boxes, pull boxes, manholes, hand holes, pedestals, splices	21	Continuous	0.25
V	ELEC	SUBS		V-ELEC-SUBS	Other substation equipment	21	Continuous	0.25
V	ELEC	SWCH		V-ELEC-SWCH	Fuse cutouts, pole mounted switches, circuit breakers, gang operated disconnects, reclosers, cubicle switches	21	Continuous	0.25
V	ELEC	VALT		V-ELEC-VALT	Vaults	21	Continuous	0.25
FUEL - Liquid Fuel								
V	FUEL	ABND		V-FUEL-ABND	Abandoned piping	6	2	0.35
V	FUEL	DEFL		V-FUEL-DEFL	Defueling piping	6	Continuous	0.35
V	FUEL	DEVC		V-FUEL-DEVC	Air eliminators, filter strainers, hydrant fill points, line vents, markers, oil/water separators, reducers, regulators, and valves	6	Continuous	0.35
V	FUEL	DEVC	AIRE	V-FUEL-DEVC-AIRE	Air eliminators	50	Continuous	V
V	FUEL	DEVC	FLIT	V-FUEL-DEVC-FLIT	Filters	50	Continuous	V
V	FUEL	DEVC	HYDR	V-FUEL-DEVC-HYDR	Hydrants	50	Continuous	V
V	FUEL	FLOW		V-FUEL-FLOW	Flow direction arrows	6	Continuous	0.35
V	FUEL	FTTG		V-FUEL-FTTG	Caps, crosses, and tees	6	Continuous	0.35
V	FUEL	FTTG	CAPS	V-FUEL-FTTG-CAPS	Caps	50	Continuous	V
V	FUEL	HYDR		V-FUEL-HYDR	Hydrant control pits	3	Continuous	0.25
V	FUEL	IDEN		V-FUEL-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
V	FUEL	JBOX		V-FUEL-JBOX	Junction boxes, manholes, hand holes, test boxes	1	Continuous	0.25
V	FUEL	MAIN		V-FUEL-MAIN	Main fuel piping	6	LIQPET	0.35
V	FUEL	METR		V-FUEL-METR	Meters	3	Continuous	0.25
V	FUEL	PITS	IDEN	V-FUEL-PITS-IDEN	Identifier tags, symbol modifier, and text	1	Continuous	0.25
V	FUEL	PUMP		V-FUEL-PUMP	Booster pump stations	6	Continuous	0.35



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

SURVEY

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
V	FUEL	SERV		V-FUEL-SERV	Service piping	6	Continuous	0.35
V	FUEL	STNS	IDEN	V-FUEL-STNS-IDEN	Stains identification/text	2	Continuous	0.35
V	FUEL	TANK		V-FUEL-TANK	Fuel tanks	3	Continuous	0.25
V	FUEL	TRCH		V-FUEL-TRCH	Fuel line trench	3	Continuous	0.25
V	FUEL	VENT		V-FUEL-VENT	Vent pits	3	Continuous	0.25
V	FUEL	VLVE		V-FUEL-VLVE	Valve pits	3	Continuous	0.25
GRAD - Grade Line Work								
V	GRAD	EXST		V-GRAD-EXST	Existing grade, ground line	6	3	0.35
V	GRAD	FNSH		V-GRAD-FNSH	Finished grade	4	Continuous	0.50
GRID - Grid Lines								
V	GRID	FRAM		V-GRID-FRAM	Frame	4	Continuous	0.50
V	GRID	MAJR		V-GRID-MAJR	Major grid lines	1	Continuous	0.25
V	GRID	MINR		V-GRID-MINR	Minor grid lines	8	1	0.18
V	GRID	TEXT		V-GRID-TEXT	Border text, annotation	2	Continuous	0.35
GTHP - Geothermal Heat Pump System								
V	GTHP	EQPM		V-GTHP-EQPM	Equipment	6	Continuous	0.35
V	GTHP	PIPE		V-GTHP-PIPE	Piping (includes fittings, valves)	6	Continuous	0.35
HTCW - Hot and Chilled Water								
V	HTCW	ABND		V-HTCW-ABND	Abandoned piping	6	2	0.35
V	HTCW	CHLL		V-HTCW-CHLL	Main chilled water piping	6	Continuous	0.35
V	HTCW	CHLP		V-HTCW-CHLP	Chilled water plant	6	Continuous	0.35
V	HTCW	CHLS		V-HTCW-CHLS	Chilled water service piping	3	Continuous	0.25
V	HTCW	DEVC		V-HTCW-DEVC	Rigid anchors, anchor guides, rectifiers, reducers, markers, meters, pumps, regulators, tanks, and valves	6	Continuous	0.35
V	HTCW	FLOW		V-HTCW-FLOW	Flow direction arrows	3	Continuous	0.25
V	HTCW	FTTG		V-HTCW-FTTG	Caps and flanges	6	Continuous	0.35
V	HTCW	HTPL		V-HTCW-HTPL	Main high temperature piping	1	Continuous	0.25



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

SURVEY

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
V	HTCW	HTPP		V-HTCW-HTPP	High temperature water plant	6	Continuous	0.35
V	HTCW	HTPS		V-HTCW-HTPS	High temperature service piping	3	Continuous	0.25
V	HTCW	IDEN		V-HTCW-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
V	HTCW	JBOX		V-HTCW-JBOX	Junction boxes, manholes, hand holes, test boxes	1	Continuous	0.25
V	HTCW	LTPL		V-HTCW-LTPL	Main low temperature piping	2	Continuous	0.35
V	HTCW	LTPS		V-HTCW-LTPS	Low temperature service piping	3	Continuous	0.25
V	HTCW	PITS		V-HTCW-PITS	Valve pits/vaults, steam pits	3	Continuous	0.25
V	HTCW	PLNT	IDEN	V-HTCW-PLNT-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
V	HTCW	PUMP		V-HTCW-PUMP	Pump stations	6	Continuous	0.35
V	HTCW	RTRN		V-HTCW-RTRN	Return for all HTCW lines	5	Continuous	0.18
V	HTCW	STML		V-HTCW-STML	Main steam piping	1	Continuous	0.25
V	HTCW	STMS		V-HTCW-STMS	Steam service piping	3	Continuous	0.25
V	HTCW	STNS	IDEN	V-HTCW-STNS-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
INDW - Industrial Waste Water								
V	INDW	ABND		V-INDW-ABND	Abandoned piping	6	2	0.35
V	INDW	DEVC		V-INDW-DEVC	Grit chambers, meters, flumes, neutralizers, oil/water separators, ejectors, tanks, and valves	6	Continuous	0.35
V	INDW	FLOW		V-INDW-FLOW	Flow direction arrows	6	Continuous	0.35
V	INDW	FTTG		V-INDW-FTTG	Caps and cleanouts	6	Continuous	0.35
V	INDW	IDEN		V-INDW-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
V	INDW	JBOX		V-INDW-JBOX	Junction boxes and manholes	1	Continuous	0.25
V	INDW	LAGN		V-INDW-LAGN	Lagoons	6	Continuous	0.35
V	INDW	LIFT		V-INDW-LIFT	Lift stations	6	Continuous	0.35
V	INDW	MAIN		V-INDW-MAIN	Main industrial waste water piping	6	IWASTE	0.35
V	INDW	PLNT		V-INDW-PLNT	Treatment plants	6	Continuous	0.35
V	INDW	RSVR	IDEN	V-INDW-RSVR-IDEN	Identifier tags, symbol modifier, and text	6	Continuous	0.35
V	INDW	SERV		V-INDW-SERV	Industrial waste water service piping	1	Continuous	0.25



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

SURVEY

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
V	INDW	SIGN		V-INDW-SIGN	Surface markers/signs	1	Continuous	0.25
V	INDW	STNS	IDEN	V-INDW-STNS-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
LITE - Lights								
V	LITE	APPR		V-LITE-APPR	Approach lights	6	Continuous	0.35
V	LITE	DIST		V-LITE-DIST	Distance and arresting gear markers	6	Continuous	0.35
V	LITE	FIXT		V-LITE-FIXT	Exterior Lights	121	Continuous	0.25
V	LITE	FIXT	IDEN	V-LITE-FIXT-IDEN	Identifier tags, symbol modifier, and text	121	Continuous	0.25
V	LITE	LANE		V-LITE-LANE	Hover lane, taxilane, and helipad lights	6	Continuous	0.35
V	LITE	OBST		V-LITE-OBST	Obstruction lights	2	Continuous	0.35
V	LITE	RUNW		V-LITE-RUNW	Runway lights	6	Continuous	0.35
V	LITE	RUNW	CNTL	V-LITE-RUNW-CNTL	Runway Centerline lights	6	Continuous	0.35
V	LITE	RUNW	TDZN	V-LITE-RUNW-TDZN	Runway Touchdown Zone lights	6	Continuous	0.35
V	LITE	SIGN		V-LITE-SIGN	Taxiway guidance signs	6	Continuous	0.35
V	LITE	TAXI		V-LITE-TAXI	Taxiway lights	6	Continuous	0.35
V	LITE	THRS		V-LITE-THRS	Threshold lights	6	Continuous	0.35
NGAS - Natural Gas								
V	NGAS	ABND		V-NGAS-ABND	Abandoned piping	6	2	0.35
V	NGAS	DEVC		V-NGAS-DEVC	Hydrant fill points, lights, vents, markers, rectifiers, reducers, regulators, sources, tanks, drip pots, taps, and valves	6	Continuous	0.35
V	NGAS	DEVC	IDEN	V-NGAS-DEVC-IDEN	Identifier tags, symbol modifier, and text	6	Continuous	0.35
V	NGAS	FLOW		V-NGAS-FLOW	Flow direction arrows	6	Continuous	0.25
V	NGAS	FTTG		V-NGAS-FTTG	Caps, crosses, and tees	6	Continuous	0.35
V	NGAS	IDEN		V-NGAS-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
V	NGAS	MAIN		V-NGAS-MAIN	Main natural gas piping	6	NTGASX	0.35
V	NGAS	METR		V-NGAS-METR	Meters	3	Continuous	0.25
V	NGAS	PITS	IDEN	V-NGAS-PITS-IDEN	Identifier tags, symbol modifier, and text	1	Continuous	0.25



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

SURVEY

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
V	NGAS	PUMP		V-NGAS-PUMP	Compressor stations	6	Continuous	0.35
V	NGAS	REDC		V-NGAS-REDC	Reducing stations	6	Continuous	0.35
V	NGAS	SERV		V-NGAS-SERV	Service piping	1	Continuous	0.25
V	NGAS	SIGN		V-NGAS-SIGN	Surface markers/signs	1	Continuous	0.25
V	NGAS	STNS	IDEN	V-NGAS-STNS-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
V	NGAS	VENT		V-NGAS-VENT	Vent pits	3	Continuous	0.25
V	NGAS	VLVE		V-NGAS-VLVE	Valve pits/boxes	3	Continuous	0.25
PKNG - Vehicle Parking								
V	PKNG	OTLN		V-PKNG-OTLN	Parking	4	Continuous	V
POLE - Utility Poles								
V	POLE	GUYS		V-POLE-GUYS	Guying equipment	3	Continuous	0.25
V	POLE	GUYS	IDEN	V-POLE-GUYS-IDEN	Guying equipment identifier tags, symbol modifiers, and text	3	Continuous	0.25
V	POLE	IDEN		V-POLE-IDEN	Utility pole identifier tags, symbol modifier, and text	3	Continuous	0.25
V	POLE	UTIL		V-POLE-UTIL	Utility poles	3	Continuous	0.25
PRIM - Primary Electrical Cables								
V	PRIM	OVHD		V-PRIM-OVHD	Overhead electrical utility lines	1	EPARX	0.25
V	PRIM	OVHD	IDEN	V-PRIM-OVHD-IDEN	Identifier tags, symbol modifier, and text	1	Continuous	0.25
V	PRIM	UNDR		V-PRIM-UNDR	Underground electrical utility lines	1	EPUGX	0.25
V	PRIM	UNDR	IDEN	V-PRIM-UNDR-IDEN	Identifier tags, symbol modifier, and text	1	Continuous	0.25
PROF - Profile								
V	PROF	CUID		V-PROF-CUID	Existing grade and grading cuts - annotation	1	Continuous	0.25
V	PROF	FILL		V-PROF-FILL	New work, grading fills	3	Continuous	0.25
V	PROF	INLT		V-PROF-INLT	Curb and surface inlets, catch basins	3	Continuous	0.25
V	PROF	MHOL		V-PROF-MHOL	Manholes	1	Continuous	0.25
V	PROF	PIPE		V-PROF-PIPE	Piping	6	Continuous	0.35
V	PROF	ROAD		V-PROF-ROAD	Roads	2	Continuous	0.35



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

SURVEY

Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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PROJ - Project Boundaries

V	PROJ	AIRF		V-PROJ-AIRF	Airfield grid - used for airfield feature naming	2	Continuous	0.35
V	PROJ	BNDY		V-PROJ-BNDY	UMS Grid Lines	6	Continuous	0.35
V	PROJ	UMS_		V-PROJ-UMS_	UMS grid polygons - used for building FM names	4	Continuous	0.35

PROP - Property

V	PROP	BRNG		V-PROP-BRNG	Bearings and distance labels	6	Continuous	0.35
V	PROP	CNTY		V-PROP-CNTY	County Boundary	6	11	0.35
V	PROP	ESMT		V-PROP-ESMT	Government easements/property lines	4	Continuous	0.50
V	PROP	IDEN		V-PROP-IDEN	Property annotation	6	Continuous	0.35
V	PROP	LEAS		V-PROP-LEAS	Lease line (surveyed)	6	Continuous	0.35
V	PROP	LINE		V-PROP-LINE	Property lines (Existing recorded plats)	2	3	0.35
V	PROP	LUSE		V-PROP-LUSE	Land Use Area	6	11	0.35
V	PROP	MUNI		V-PROP-MUNI	Municipal Boundary	6	11	0.35
V	PROP	QTRS		V-PROP-QTRS	Quarter lines	6	11	0.35
V	PROP	RWAY		V-PROP-RWAY	Right of ways	7	RTOFWY	0.70
V	PROP	SECT		V-PROP-SECT	Section lines	6	7	0.35
V	PROP	STAT		V-PROP-STAT	State Boundary	6	11	0.35
V	PROP	SXTS		V-PROP-SXTS	Sixteenth lines (40 lines)	6	16THLN	0.35
V	PROP	ZONG		V-PROP-ZONG	Zoning Areas	6	11	0.35

PVMT - Pavements/Transportation

V	PVMT	CONC		V-PVMT-CONC	Concrete pavement	8	Continuous	V
V	PVMT	IDEN		V-PVMT-IDEN	Road, parking lot, railroad, airfield pavement annotation	2	Continuous	0.35
V	PVMT	MRKG		V-PVMT-MRKG	Pavement markings	2	Continuous	0.35
V	PVMT	PATT		V-PVMT-PATT	Joint patterns, text and dimensions	2	Continuous	0.35
V	PVMT	ROAD		V-PVMT-ROAD	Roads, parking lots, railroads, airfield pavements	2	Continuous	0.35
V	ROAD	CNTR		V-ROAD-CNTR	Centerlines	4	Continuous	V
V	ROAD	CURB		V-ROAD-CURB	Curb lines	6	Continuous	V



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

SURVEY

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
V	ROAD	PVMT		V-ROAD-PVMT	Road pavement	4	Continuous	V
SECD - Secondary Electrical Cables								
V	SECD	OVHD		V-SECD-OVHD	Overhead electrical utility lines	61	ESARX	0.25
V	SECD	OVHD	IDEN	V-SECD-OVHD-IDEN	Overhead electrical utility lines identifications	61	Continuous	0.25
V	SECD	UNDR		V-SECD-UNDR	Underground electrical utility lines	61	ESUGX	0.25
V	SECD	UNDR	IDEN	V-SECD-UNDR-IDEN	Identifier tags, symbol modifier, and text	61	Continuous	0.25
SECT - Sections								
V	SECT	IDEN		V-SECT-IDEN	Component identification numbers	2	Continuous	0.35
V	SECT	MBND		V-SECT-MBND	Material beyond section cut	5	Continuous	0.18
V	SECT	MCUT		V-SECT-MCUT	Material cut by section	4	Continuous	0.50
V	SECT	PATT		V-SECT-PATT	Textures and hatch patterns	8	Continuous	0.18
SITE - Site								
V	SITE	EROS		V-SITE-EROS	Riprap, revetments/stone protection, breakwaters, dikes, jetties, and drains	1	Continuous	0.25
V	SITE	EWAT		V-SITE-EWAT	Water features	162	Continuous	0.35
V	SITE	FENC		V-SITE-FENC	Fences and handrails	6	Continuous	0.35
V	SITE	FENC	IDEN	V-SITE-FENC-IDEN	Fence, handrail, ramp, and trail annotation	6	Continuous	0.35
V	SITE	IDEN		V-SITE-IDEN	Existing site feature/structure annotation	6	Continuous	0.35
V	SITE	OTLN		V-SITE-OTLN	Existing site features (play structures, bike racks, benches, recreational equipment)	4	Continuous	0.50
V	SITE	STRC		V-SITE-STRC	Structures (bridges, sheds, foundation pads, footings, etc.)	22	Continuous	0.35
V	SITE	STRC	CNTM	V-SITE-STRC-CNTM	Slab areas	6	Continuous	0.35
V	SITE	STRS		V-SITE-STRS	Stairs and ramps	6	Continuous	0.35
V	SITE	VEGE		V-SITE-VEGE	Existing tree lines and vegetation	82	Continuous	0.35
V	SITE	VEGE	SHRB	V-SITE-VEGE-SHRB	Bushes	82	Continuous	V
V	SITE	VEGE	TREE	V-SITE-VEGE-TREE	Trees	82	Continuous	V



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

SURVEY

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
V	SITE	WALK		V-SITE-WALK	Walks, trails, and bicycle paths	2	Continuous	0.35
V	SITE	WALL	RTWL	V-SITE-WALL-RTWL	Retaining walls	22	Continuous	V
V	SITE	WATR		V-SITE-WATR	Water features	162	Continuous	0.35
SPCL - Special Systems								
V	SPCL	IDEN		V-SPCL-IDEN	Special systems (UMCS, EMCS, CATV, etc.) identifier tags, symbol modifier, and text	151	Continuous	0.25
V	SPCL	SYST		V-SPCL-SYST	Special systems (UMCS, EMCS, CATV, etc.)	151	Continuous	0.25
V	SPCL	TRAF		V-SPCL-TRAF	Traffic signal system	151	Continuous	0.25
V	SPCL	TRAF	BARR	V-SPCL-TRAF-BARR	Barrier	151	Continuous	0.25
V	SPCL	TRAF	CONT	V-SPCL-TRAF-CONT	Traffic counter	151	Continuous	0.25
V	SPCL	TRAF	IDEN	V-SPCL-TRAF-IDEN	Traffic signal identifier tags, symbol modifier, and text	151	Continuous	0.25
V	SPCL	TRAF	LITE	V-SPCL-TRAF-LITE	Traffic lights	151	Continuous	0.25
V	SPCL	TRAF	MISC	V-SPCL-TRAF-MISC	Miscellaneous	151	Continuous	0.25
V	SPCL	TRAF	SIGN	V-SPCL-TRAF-SIGN	Signs	151	Continuous	0.25
SSWR - Sanitary Sewer								
V	SSWR	ABND		V-SSWR-ABND	Abandoned piping	6	2	0.35
V	SSWR	DEVC		V-SSWR-DEVC	Grease traps, grit chambers, flumes, neutralizers, oil/water separators, ejectors, and valves	6	Continuous	0.35
V	SSWR	DEVC	IDEN	V-SSWR-DEVC-IDEN	Identifier tags, symbol modifier, and text	6	Continuous	0.35
V	SSWR	FILT		V-SSWR-FILT	Filtration beds	3	Continuous	0.25
V	SSWR	FILT	IDEN	V-SSWR-FILT-IDEN	Identifier tags, symbol modifier, and text	3	Continuous	0.25
V	SSWR	FLOW		V-SSWR-FLOW	Flow direction arrows	6	Continuous	0.35
V	SSWR	FTTG		V-SSWR-FTTG	Caps and cleanouts	6	Continuous	0.35
V	SSWR	IDEN		V-SSWR-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
V	SSWR	JBOX		V-SSWR-JBOX	Junction boxes and manholes	1	Continuous	0.25
V	SSWR	JBOX	IDEN	V-SSWR-JBOX-IDEN	Identifier tags, symbol modifier, and text	1	Continuous	0.25
V	SSWR	LAGN		V-SSWR-LAGN	Lagoons	3	Continuous	0.25



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

SURVEY

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
V	SSWR	LEAC		V-SSWR-LEAC	Leach field	3	Continuous	0.25
V	SSWR	MAIN		V-SSWR-MAIN	Sanitary sewer piping	6	SSWAFX	0.35
V	SSWR	NITF		V-SSWR-NITF	Nitrification drain fields	3	Continuous	0.25
V	SSWR	PLNT		V-SSWR-PLNT	Treatment plants	6	Continuous	0.35
V	SSWR	PUMP		V-SSWR-PUMP	Booster pump stations	6	Continuous	0.35
V	SSWR	RSVR	IDEN	V-SSWR-RSVR-IDEN	Identifier tags, symbol modifier, and text	3	Continuous	0.25
V	SSWR	SERV		V-SSWR-SERV	Sanitary sewer service piping	1	Continuous	0.25
V	SSWR	SIGN		V-SSWR-SIGN	Surface markers/signs	1	Continuous	0.25
V	SSWR	STNS	IDEN	V-SSWR-STNS-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
V	SSWR	TANK		V-SSWR-TANK	Septic tanks	3	Continuous	0.25
STAT - Demolition (used only in creating Existing Demolition model files)								
V	STAT	DEMO		V-STAT-DEMO	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	6	2	0.35
V	STAT	EXST		V-STAT-EXST	Existing to remain	3	Continuous	0.25
V	STAT	FUTR		V-STAT-FUTR	Future work	2	7	0.35
V	STAT	MOVE		V-STAT-MOVE	Items to be moved	6	6	0.35
V	STAT	NEWW		V-STAT-NEWW	New work	4	Continuous	0.50
V	STAT	NICN		V-STAT-NICN	Not in contract	8	3	0.18
V	STAT	PHS#		V-STAT-PHS#	Phase numbers (#=1-9)	2	Continuous	0.35
V	STAT	RELO		V-STAT-RELO	Relocated items	5	2	0.18
V	STAT	TEMP		V-STAT-TEMP	Temporary work	4	4	0.50
STRC - Structures								
V	STRC	IDEN		V-STRC-IDEN	Bridges, piers, breakwaters, docks, floats, etc. - annotation	2	Continuous	0.35
V	STRC	OTLN		V-STRC-OTLN	Bridges, piers, breakwaters, docks, floats, etc. -outlines	4	Continuous	0.50
V	STRC	TOWR		V-STRC-TOWR	Tower	4	Continuous	0.50
STRM - Storm Drain								



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

SURVEY

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V	STRM	ABND		V-STRM-ABND	Abandoned piping	6	2	0.35
V	STRM	AFFF		V-STRM-AFFF	AFFF lagoon/detention pond	3	Continuous	0.25
V	STRM	CHUT		V-STRM-CHUT	Chutes and concrete erosion control structures	1	Continuous	0.25
V	STRM	CULV		V-STRM-CULV	Culverts	3	Continuous	0.25
V	STRM	DEVC		V-STRM-DEVC	Downspouts, flumes, oil/water separators, and flap gates	6	Continuous	0.35
V	STRM	DRAN	IDEN	V-STRM-DRAN-IDEN	Identifier tags, symbol modifier, and text	3	Continuous	0.25
V	STRM	EROS		V-STRM-EROS	Erosion control (riprap)	5	Continuous	0.18
V	STRM	FLOW		V-STRM-FLOW	Flow direction arrows	6	Continuous	0.35
V	STRM	FMON		V-STRM-FMON	Flow monitoring station	6	Continuous	0.35
V	STRM	FTTG		V-STRM-FTTG	Caps and cleanouts	6	Continuous	0.35
V	STRM	HDWL		V-STRM-HDWL	Headwalls and endwalls	7	Continuous	0.70
V	STRM	IDEN		V-STRM-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
V	STRM	INLT		V-STRM-INLT	Inlets (curb, surface, and catch basins)	3	Continuous	0.25
V	STRM	LAGN		V-STRM-LAGN	Lagoons, ponds, watersheds, and basins	3	Continuous	0.25
V	STRM	MAIN		V-STRM-MAIN	Storm sewer piping	6	STRAFX	0.35
V	STRM	MHOL		V-STRM-MHOL	Manholes	1	Continuous	0.25
V	STRM	PUMP		V-STRM-PUMP	Pump stations	6	Continuous	0.35
V	STRM	ROOF		V-STRM-ROOF	Roof drain line	3	Continuous	0.25
V	STRM	RSVR	IDEN	V-STRM-RSVR-IDEN	Identifier tags, symbol modifier, and text	3	Continuous	0.25
V	STRM	SERV		V-STRM-SERV	Storm sewer service piping	1	Continuous	0.25
V	STRM	SIGN		V-STRM-SIGN	Surface markers/signs	1	Continuous	0.25
V	STRM	STNS	IDEN	V-STRM-STNS-IDEN	Identifier tags, symbol modifier, and text	2	Continuous	0.35
V	STRM	SUBS		V-STRM-SUBS	Subsurface drain piping	3	Continuous	0.25
SURV - Survey Data								
V	SURV	DATA		V-SURV-DATA	Survey data (benchmarks and horizontal control points or monuments)	6	Continuous	0.35
V	SURV	IDEN		V-SURV-IDEN	Survey, baseline, and control line annotation	6	Continuous	0.35



CAD LAYER ASSIGNMENT TABLE
Los Angeles World Airport

SURVEY

Layer Name Parts				Layer Name	Description	Color Code	Line Type	Line Width (mm)
V	SURV	LINE		V-SURV-LINE	Survey, baseline, and control line	4	2	0.50
TOPO - Topography								
V	TOPO	BKLN		V-TOPO-BKLN	Break lines	7	4	0.70
V	TOPO	BORE		V-TOPO-BORE	Boring locations	6	Continuous	0.35
V	TOPO	COOR		V-TOPO-COOR	Coordinate grid ticks and text	122	Continuous	0.35
V	TOPO	DTCH		V-TOPO-DTCH	Ditches and swales	3	Continuous	0.25
V	TOPO	DTMP		V-TOPO-DTMP	DTM points	6	Continuous	0.35
V	TOPO	DTMT		V-TOPO-DTMT	DTM triangles	22	Continuous	0.35
V	TOPO	MAJR		V-TOPO-MAJR	Major contours	2	Continuous	0.35
V	TOPO	MAJR	DEPR	V-TOPO-MAJR-DEPR	Major contours - depression	2	Continuous	0.35
V	TOPO	MAJR	IDEN	V-TOPO-MAJR-IDEN	Major contours - annotation	2	Continuous	0.35
V	TOPO	MINR		V-TOPO-MINR	Minor contours	3	Continuous	0.25
V	TOPO	MINR	DEPR	V-TOPO-MINR-DEPR	Minor contours - depression	2	Continuous	0.35
V	TOPO	MINR	IDEN	V-TOPO-MINR-IDEN	Minor contours - annotation	3	Continuous	0.25
V	TOPO	SHOR		V-TOPO-SHOR	Shorelines, land features, and references	4	Continuous	0.50
V	TOPO	SLOP	TOPT	V-TOPO-SLOP-TOPT	Top/toe slopes	6	Continuous	0.35
V	TOPO	SOUN		V-TOPO-SOUN	Soundings	7	Continuous	0.18
V	TOPO	SPEC		V-TOPO-SPEC	Species Site	2	Continuous	0.35
V	TOPO	SPOT		V-TOPO-SPOT	Spot elevations	2	Continuous	0.35
V	TOPO	SURV		V-TOPO-SURV	Surveyed elevation	2	Continuous	V
V	TOPO	WETL		V-TOPO-WETL	Wetland	2	Continuous	0.35
V	TRAN	PADM		V-TRAN-PADM	Pad mounted transformers	21	Continuous	0.25
V	TRAN	PADM	IDEN	V-TRAN-PADM-IDEN	Identifier tags, symbol modifier, and text	21	Continuous	0.25
V	TRAN	POLE		V-TRAN-POLE	Pole mounted transformers	21	Continuous	0.25
V	TRAN	POLE	IDEN	V-TRAN-POLE-IDEN	Identifier tags, symbol modifier, and text	21	Continuous	0.25
UNID - Undefined Utilities								
V	UNID	UTIL		V-UNID-UTIL	Undefined utility lines/features	180	Continuous	V



Layer Name Parts	Layer Name	Description	Color Code	Line Type	Line Width (mm)
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UTIL - Utilities

V	UTIL	ELEC		V-UTIL-ELEC	Power lines, lights, telephone poles, communication lines	4	Continuous	0.50
V	UTIL	ELEC	IDEN	V-UTIL-ELEC-IDEN	Power/communication annotation	2	Continuous	0.35
V	UTIL	IDEN		V-UTIL-IDEN	Utility annotation	2	Continuous	0.35
V	UTIL	LINE		V-UTIL-LINE	Utilities	4	Continuous	0.50
V	UTIL	NGAS		V-UTIL-NGAS	Gas lines, features, and valves	4	Continuous	0.50
V	UTIL	NGAS	IDEN	V-UTIL-NGAS-IDEN	Gas annotation	2	Continuous	0.35
V	UTIL	SSWR		V-UTIL-SSWR	Sanitary lines and manholes	4	Continuous	0.50
V	UTIL	SSWR	IDEN	V-UTIL-SSWR-IDEN	Sanitary annotation	2	Continuous	0.35
V	UTIL	STEM		V-UTIL-STEM	Steam lines and annotation	2	Continuous	0.35
V	UTIL	STRM		V-UTIL-STRM	Storm sewer lines, culverts, manholes, and headwalls	4	Continuous	0.50
V	UTIL	STRM	IDEN	V-UTIL-STRM-IDEN	Storm sewer annotation	2	Continuous	0.35
V	UTIL	WATR		V-UTIL-WATR	Water lines, hydrants, tanks	4	Continuous	0.50
V	UTIL	WATR	IDEN	V-UTIL-WATR-IDEN	Water annotation	2	Continuous	0.35