



SURVEY & MAPPING LAYERS (1 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-ALGN-CNTR	8	GEN-CENTRE (COFC) _____	Alignment: centreline
V-ALGN-DATA	8	CONTINUOUS _____	Alignment: coordinates and curve data
V-ALGN-GEOM	8	CONTINUOUS _____	Alignment: geometry point
V-ALGN-MAJR-STAN	8	CONTINUOUS _____	Alignment: major: stationing
V-ALGN-MINR-STAN	8	CONTINUOUS _____	Alignment: minor: stationing
V-ALGN-SYMB	8	CONTINUOUS _____	Alignment: symbols
V-ALGN-TEXT	11	SAMPLE TEXT	Alignment: text
V-ALGN-TICK	8	CONTINUOUS _____	Alignment: tick marks
V-ANNO-NPLT	8	CONTINUOUS	Annotation: no plot
V-ANNO-SYMB	8	CONTINUOUS _____	Annotation: symbols
V-ANNO-TEXT	11	SAMPLE TEXT	Annotation: text
V-CABL-COAX	165	EX-CABLE TV (COFC) _____ <i>CABL</i> _____	Cable systems: coax cable
V-CABL-FIBR	165	EX-FIBEROPTICS (COFC) _____ <i>FO</i> _____	Cable systems: fiber optics cable
V-CABL-FIBR-COFC	165	EX-FIBEROPTICS-CITY (COFC) _____ <i>FO (CofC)</i> _____	Cable systems: fiber optics cable: City of Calgary
V-CABL-MHOL	9	CONTINUOUS _____	Cable systems: manhole
V-CABL-PBOX	8	CONTINUOUS _____	Cable systems: pull box
V-CABL-POLE	8	CONTINUOUS _____	Cable systems: pole
V-CABL-STRC	8	CONTINUOUS _____	Cable systems: structure
V-CABL-TEXT	163	SAMPLE TEXT	Cable systems: text
V-CATH-ANOD	223	CONTINUOUS _____	Cathodic protection system: sacrificial anode
V-CATH-CABL	31	GEN-CATHODIC (COFC) -----	Cathodic protection system: cable
V-CATH-CURR	223	CONTINUOUS _____	Cathodic protection system: impress current
V-CATH-STRC	8	CONTINUOUS _____	Cathodic protection system: structure
V-CATH-TEST	223	CONTINUOUS _____	Cathodic protection system: test stations



SURVEY & MAPPING LAYERS (2 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-CATH-TEXT	223	SAMPLE TEXT	Cathodic protection system: text
V-COMM-CAB~	8	CONTINUOUS	Communications: cabinet
V-COMM-DUCT	191	CONTINUOUS	Communications: duct
V-COMM-JBOX	8	CONTINUOUS	Communications: junction box
V-COMM-LINE	191	EX-TEL (COFC) T	Communications: line
V-COMM-MHOL	9	CONTINUOUS	Communications: manhole
V-COMM-POLE	8	CONTINUOUS	Communications: pole
V-COMM-STRC	8	CONTINUOUS	Communications: structure
V-COMM-TEXT	190	SAMPLE TEXT	Communications: text
V-CTRL	8	CONTINUOUS	Control monuments and traverse stations
V-EROS-CIPR	8	CONTINUOUS	Erosion and sediment control: culvert inlet protection
V-EROS-CNTE	8	CONTINUOUS	Erosion and sediment control: construction entrance
V-EROS-DDIV	8	JIS_02_2.0 - - - - -	Erosion and sediment control: drainage divides
V-EROS-DIMS	12	CONTINUOUS	Erosion and sediment control: dimensions
V-EROS-DITC	74	DASHDOT2 _ _ _ . _ _ _ . _ _ _ . _ _ _	Erosion and sediment control: ditch
V-EROS-DVDK	8	CONTINUOUS	Erosion and sediment control: diversion dike
V-EROS-FLOW	8	CONTINUOUS	Erosion and sediment control: flow direction
V-EROS-HTCH	8	CONTINUOUS	Erosion and sediment control: hatch
V-EROS-HTCH-WIDE	34	CONTINUOUS	Erosion and sediment control: hatch: wide (for dot patterns)
V-EROS-INPR	8	CONTINUOUS	Erosion and sediment control: inlet protection
V-EROS-POND	8	CONTINUOUS	Erosion and sediment control: ponding area
V-EROS-SHDE	9	CONTINUOUS	Erosion and sediment control: shading
V-EROS-SSLT	8	CONTINUOUS	Erosion and sediment control: super silt fence
V-EROS-TEXT	11	SAMPLE TEXT	Erosion and sediment control: text

SURVEY & MAPPING LAYERS (3 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-FENC	8	GEN-FENCE (NCS) — X — X — X —	Fences (general)
V-FENC-BRBW	8	GEN-FENCE (NCS) — X — X — X —	Fences: barbed wire
V-FENC-BRBW-OBSC	8	GEN-FENCE (NCS) — X — X — X —	Fences: barbed wire: obscured
V-FENC-CONC	8	GEN-FENCE CONCRETE (COFC) — ☒ — ☒ — ☒ —	Fences: concrete
V-FENC-GRAL	8	GEN-GUARD RAIL (COFC) — □ — □ — □ — □ — □ — □ —	Fences: guard rail
V-FENC-GRAL-TEXT	11	SAMPLE TEXT	Fences: guard rail: text
V-FENC-NSBR	8	GEN-NOISE BARRIER (COFC) — ■ — ■ — ■ —	Fences: noise barrier
V-FENC-NSBR-OBSC	8	GEN-NOISE BARRIER (COFC) — ■ — ■ — ■ —	Fences: noise barrier: obscured
V-FENC-OBSC	8	GEN-FENCE (NCS) — X — X — X —	Fences (general): obscured
V-FENC-POST	8	GEN-FENCE POST & CABLE (COFC) — ○ — ○ — ○ —	Fences: post (and cable)
V-FENC-POST-OBSC	8	GEN-FENCE POST & CABLE (COFC) — ○ — ○ — ○ —	Fences: post (and cable): obscured
V-FENC-SILT	8	GEN-FENCE SILT (COFC) — △ — △ — △ —	Fences: silt
V-FENC-STEL	8	GEN-FENCE CHAINLINK (COFC) — ⊗ — ⊗ — ⊗ —	Fences: steel (chain link)
V-FENC-STEL-OBSC	8	GEN-FENCE CHAINLINK (COFC) — ⊗ — ⊗ — ⊗ —	Fences: steel (chain link): obscured
V-FENC-TEXT	11	SAMPLE TEXT	Fences: text
V-FENC-WOOD	8	GEN-FENCE WOOD (COFC) — □ — □ — □ —	Fences: wood
V-FENC-WOOD-OBSC	8	GEN-FENCE WOOD (COFC) — □ — □ — □ —	Fences: wood: obscured
V-FENC-WOOD-TEXT	11	SAMPLE TEXT	Fences: wood: text
V-GRID-COOR	8	CONTINUOUS	Grid: coordinates (3tm)
V-GRID-COOR-TEXT	11	SAMPLE TEXT	Grid: coordinates (3tm): text
V-IRRG-COVR	217	CONTINUOUS	Irrigation: coverage
V-IRRG-DRIP	217	CONTINUOUS	Irrigation: drip irrigation tubing
V-IRRG-EQPM	8	CONTINUOUS	Irrigation: equipment (pumps, valves, and controllers)
V-IRRG-EQPM-IDEN	217	SAMPLE TEXT	Irrigation: equipment: identification

SURVEY & MAPPING LAYERS (4 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-IRRG-LTRL-0025	217	JIS_02_2.0 -----	Irrigation: lateral pipe 25 mm
V-IRRG-LTRL-0050	217	CONTINUOUS _____	Irrigation: lateral pipe 50 mm
V-IRRG-MAIN-0050	217	JIS_02_4.0 -----	Irrigation: mainline 50 mm
V-IRRG-MAIN-0100	217	GEN-IRRG MAIN 100 MM (COFC) -----	Irrigation: mainline 100 mm
V-IRRG-MAIN-0150	217	GEN-IRRG MAIN 150 MM (COFC) -----	Irrigation: mainline 150 mm
V-IRRG-PIPE	217	EX-IRRIGATION (COFC) _____ <i>IRR</i> _____	Irrigation: piping (general)
V-IRRG-SLVE	217	CONTINUOUS _____	Irrigation: pipe sleeve
V-IRRG-SPKL	8	CONTINUOUS _____	Irrigation: sprinklers (rotors, heads)
V-IRRG-TEXT	218	SAMPLE TEXT	Irrigation: text
V-IRRG-VALV	8	CONTINUOUS _____	Irrigation: valves
V-LITE-POLE	8	CONTINUOUS _____	Lighting: pole
V-LITE-POLE-D	8	CONTINUOUS _____	Lighting: pole: demolished / removed
V-LITE-POLE-M	8	CONTINUOUS _____	Lighting: pole: moved / updated
V-LITE-POLE-OBSC	8	CONTINUOUS _____	Lighting: pole: obscured
V-LITE-POLE-SWEP	8	CONTINUOUS _____	Lighting: pole: sweep
V-LITE-POLE-SWEP-OBSC	8	CONTINUOUS _____	Lighting: pole: sweep: obscured
V-LITE-WALL	31	CONTINUOUS _____	Lighting: wall
V-LITE-WALL-D	31	CONTINUOUS _____	Lighting: wall: demolished / removed
V-LITE-WALL-M	31	CONTINUOUS _____	Lighting: wall: moved / updated
V-MISC	8	CONTINUOUS _____	Miscellaneous
V-NGAS-HPIP	133	EX-G LINE H PRESS (COFC) _____ <i>HG</i> _____	Natural gas: high pressure piping
V-NGAS-HPIP-A	133	EX-G LINE H PRESS (COFC) _____ <i>HG</i> _____	Natural gas: high pressure piping: abandoned
V-NGAS-HPIP-TRCE	133	EX-G LINE H PRESS (COFC) _____ <i>HG</i> _____	Natural gas: high pressure piping: trace
V-NGAS-LPIP	133	EX-G LINE LP (COFC) _____ <i>G</i> _____	Natural gas: low pressure piping



SURVEY & MAPPING LAYERS (5 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-NGAS-LPIP-A	133	EX-G LINE LP (COFC) 	Natural gas: low pressure piping: abandoned
V-NGAS-LPIP-TRCE	133	EX-G LINE LP (COFC) 	Natural gas: low pressure piping: trace
V-NGAS-MHOL	9	CONTINUOUS 	Natural gas: manhole
V-NGAS-SRVC	8	CONTINUOUS 	Natural gas: service
V-NGAS-STRC	8	CONTINUOUS 	Natural gas: structure
V-NGAS-TEXT	132	SAMPLE TEXT 	Natural gas: text
V-NGAS-VALV	8	CONTINUOUS 	Natural gas: valve
V-NODE	8	CONTINUOUS 	Node
V-NODE-TEXT	11	SAMPLE TEXT 	Node: text
V-PIPE-FORE	224	EX-FOREIGN PIPE (COFC) 	Pipes: foreign
V-PIPE-FORE-STRC	224	CONTINUOUS 	Pipes: foreign: structure
V-PIPE-FORE-STRC-A	224	CONTINUOUS 	Pipes: foreign: structure: abandoned
V-PIPE-FORE-TEXT	225	SAMPLE TEXT 	Pipes: foreign: text
V-PLNT-BEDS	8	CONTINUOUS 	Plant and landscape material: perennial and annual beds
V-PLNT-BUSH	8	CONTINUOUS 	Plant and landscape material: bushes and shrubs
V-PLNT-BUSH-HTCH	8	CONTINUOUS 	Plant and landscape material: bushes and shrubs: hatch
V-PLNT-CLRG	8	CONTINUOUS 	Plant and landscape materials: clearings
V-PLNT-CLRG-OBSC	8	CONTINUOUS 	Plant and landscape materials: clearings: obscured
V-PLNT-CONI	8	CONTINUOUS 	Plant and landscape material: coniferous trees
V-PLNT-CTNR	8	CONTINUOUS 	Plant and landscape material: container or planter
V-PLNT-EDGR	8	CONTINUOUS 	Plant and landscape material: planting bed edger
V-PLNT-EVGR	8	CONTINUOUS 	Plant and landscape material: evergreen trees broadleaf
V-PLNT-GCVR	8	CONTINUOUS 	Plant and landscape material: ground cover
V-PLNT-LOAM	8	CONTINUOUS 	Plant and landscape material: loam

SURVEY & MAPPING LAYERS (6 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-PLNT-MISC	8	CONTINUOUS	Plant and landscape material: miscellaneous
V-PLNT-MLCH	8	CONTINUOUS	Plant and landscape material: mulches organic and inorganic
V-PLNT-MLCH-HTCH	8	CONTINUOUS	Plant and landscape material: mulches organic and inorganic: hatch
V-PLNT-PLNT	8	CONTINUOUS	Plant and landscape material: plants
V-PLNT-SEED	8	CONTINUOUS	Plant and landscape material: seeding areas
V-PLNT-SEED-HTCH-FINE	250	CONTINUOUS	Plant and landscape material: seeding areas: hatch: fine (for line patterns)
V-PLNT-SEED-HTCH-WIDE	34	CONTINUOUS	Plant and landscape material: seeding areas: hatch: wide (for dot patterns)
V-PLNT-SEED-HTCH-XFIN	8	CONTINUOUS	Plant and landscape material: seeding areas: hatch: extra fine (for line patterns)
V-PLNT-SHAD	8	CONTINUOUS	Plant and landscape material: shadow area
V-PLNT-SOIL	8	CONTINUOUS	Plant and landscape material: soil area
V-PLNT-SOIL-HTCH	8	CONTINUOUS	Plant and landscape material: soil area: hatch
V-PLNT-TEXT	11	SAMPLE TEXT	Plant and landscape material: text
V-PLNT-TREE	8	CONTINUOUS	Plant and landscape material: trees
V-PLNT-TREE-CONF	8	CONTINUOUS	Plant and landscape material: trees: coniferous
V-PLNT-TREE-CONF-OTLN	8	CONTINUOUS	Plant and landscape material: trees: coniferous: outlined
V-PLNT-TREE-CONF-TRNK	8	CONTINUOUS	Plant and landscape material: trees: coniferous: trunk
V-PLNT-TREE-DECD	8	CONTINUOUS	Plant and landscape material: trees: deciduous
V-PLNT-TREE-DECD-OTLN	8	CONTINUOUS	Plant and landscape material: trees: deciduous: outlined
V-PLNT-TREE-DECD-TRNK	8	CONTINUOUS	Plant and landscape material: trees: deciduous: trunk
V-PLNT-TREE-HTCH	250	CONTINUOUS	Plant and landscape material: trees: hatch
V-PLNT-TREE-LINE	8	GEN-VEGETREE (COFC)	Plant and landscape material: tree: line
V-PLNT-TREE-OBSC	8	CONTINUOUS	Plant and landscape material: trees: obscured
V-PLNT-TURF	8	CONTINUOUS	Plant and landscape material: lawn areas
V-PLNT-VINE	8	CONTINUOUS	Plant and landscape material: vines



SURVEY & MAPPING LAYERS (7 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-POLE-MISC	8	CONTINUOUS	Pole: miscellaneous
V-POLE-MISC-OBSC	8	CONTINUOUS	Pole: miscellaneous: obscured
V-POND	170	CONTINUOUS	Pond
V-POND-BOTM	170	CONTINUOUS	Pond: bottom
V-POND-CONT	170	CONTINUOUS	Pond: contours
V-POND-EDGE	170	CONTINUOUS	Pond: edge
V-POND-SWAY	170	CONTINUOUS	Pond: spillway
V-POND-TOPB	170	CONTINUOUS	Pond: top of bank
V-POWR-BRKP-OVHD	31	CONTINUOUS	Power: breakpoint: overhead
V-POWR-BRKP-OVHD-A	31	CONTINUOUS	Power: breakpoint: overhead: abandoned
V-POWR-BRKP-UGND	31	CONTINUOUS	Power: breakpoint: underground
V-POWR-BRKP-UGND-A	31	CONTINUOUS	Power: breakpoint: underground: abandoned
V-POWR-C&P~-OVHD-FLSE	35	CONTINUOUS	Power: conductor & pilot: overhead: false location
V-POWR-C&P~-OVHD-TRUE	31	CONTINUOUS	Power: conductor & pilot: overhead: true location
V-POWR-C&P~-UGND-FLSE	35	GEN-STL CONDUCTOR & PILOT (UG) (COFC)	Power: conductor & pilot: underground: false location
V-POWR-C&P~-UGND-TRUE	31	GEN-STL CONDUCTOR & PILOT (UG) (COFC)	Power: conductor & pilot: underground: true location
V-POWR-CAB~	8	CONTINUOUS	Power: cabinet
V-POWR-CAP~	8	CONTINUOUS	Power: cap
V-POWR-CAP~-A	8	CONTINUOUS	Power: cap: abandoned
V-POWR-CNDT	31	EX-RIGID CND LINE (COFC) <i>RC</i>	Power: conduit
V-POWR-CNDT-COFC	31	EX-RIGID CND LINE-CITY (COFC) <i>RCTC</i>	Power: conduit: City of Calgary
V-POWR-COND-OVHD-FLSE	35	CONTINUOUS	Power: conductor: overhead: false location
V-POWR-COND-OVHD-TRUE	31	CONTINUOUS	Power: conductor: overhead: true location
V-POWR-COND-UGND-FLSE	35	JIS_02_1.2	Power: conductor: underground: false location



SURVEY & MAPPING LAYERS (8 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-POWR-COND-UGND-TRUE	31	JIS_02_1.2 -----	Power: conductor: underground: true location
V-POWR-DUCT	31	EX-UNDERGROUND ELECTRIC (COFC) ——— UE ———	Power: duct
V-POWR-DUCT-FLSE	35	CONTINUOUS —————	Power: duct: false location
V-POWR-DUCT-FLSE-A	31	CONTINUOUS —————	Power: duct: false location: abandoned
V-POWR-DUCT-TRUE	31	CONTINUOUS —————	Power: duct: true location
V-POWR-DUCT-TRUE-A	31	CONTINUOUS —————	Power: duct: true location: abandoned
V-POWR-JBOX	8	CONTINUOUS —————	Power: junction box
V-POWR-JBOX-CONC	8	CONTINUOUS —————	Power: junction box: concrete
V-POWR-JBOX-CONC-A	8	CONTINUOUS —————	Power: junction box: concrete: abandoned
V-POWR-JBOX-PLAS	8	CONTINUOUS —————	Power: junction box: plastic
V-POWR-JBOX-PLAS-A	8	CONTINUOUS —————	Power: junction box: plastic: abandoned
V-POWR-JBOX-VAUL	8	CONTINUOUS —————	Power: junction box: vault
V-POWR-JBOX-VAUL-A	8	CONTINUOUS —————	Power: junction box: vault: abandoned
V-POWR-LOOP	31	CONTINUOUS —————	Power: loop
V-POWR-MHOL	9	CONTINUOUS —————	Power: manhole
V-POWR-OVHD	31	EX-OVERHEAD ELECTRIC (COFC) ——— OE ———	Power: overhead
V-POWR-OVHD-DIST	31	EX-OVERHEAD ELECTRIC DISTRIBUTION (COFC) ——— OE(D) ———	Power: overhead: distribution
V-POWR-OVHD-FLSE	35	CONTINUOUS —————	Power: overhead: false location
V-POWR-OVHD-FLSE-D	31	CONTINUOUS —————	Power: overhead: false location: demolished / removed
V-POWR-OVHD-TRAN	31	EX-OVERHEAD ELECTRIC TRANSMISSION (COFC) ——— OE(T) ———	Power: overhead: transmission
V-POWR-OVHD-TRUE	31	CONTINUOUS —————	Power: overhead: true location
V-POWR-OVHD-TRUE-D	31	CONTINUOUS —————	Power: overhead: true location: demolished / removed
V-POWR-PBOX	8	CONTINUOUS —————	Power: pull box
V-POWR-PILT-OVHD-FLSE	35	CONTINUOUS —————	Power: pilot: overhead: false location



SURVEY & MAPPING LAYERS (9 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-POWR-PILT-OVHD-TRUE	31	CONTINUOUS	Power: pilot: overhead: true location
V-POWR-PILT-UGND-FLSE	35	JIS_02_4.0	Power: pilot: underground: false location
V-POWR-PILT-UGND-TRUE	31	JIS_02_4.0	Power: pilot: underground: true location
V-POWR-POLE	8	CONTINUOUS	Power: pole
V-POWR-POLE-OBSC	8	CONTINUOUS	Power: pole: obscured
V-POWR-PVMD-CELL	8	CONTINUOUS	Power: photo electric cell
V-POWR-PVMD-RELY	8	CONTINUOUS	Power: photo electric relay
V-POWR-RELY	8	CONTINUOUS	Power: relay
V-POWR-SPLC	8	CONTINUOUS	Power: splice
V-POWR-SPLC-A	8	CONTINUOUS	Power: splice: abandoned
V-POWR-STLF	31	EX-STREETLIGHT FEED (COFC) STLF	Power: streetlight feed
V-POWR-STRC	8	CONTINUOUS	Power: structure
V-POWR-STRC-PED~	8	CONTINUOUS	Power: structure: pedestal
V-POWR-STRC-PED~-OBSC	8	CONTINUOUS	Power: structure: pedestal: obscured
V-POWR-STUB	31	CONTINUOUS	Power: stub
V-POWR-TEXT	30	SAMPLE TEXT	Power: text
V-POWR-UGND	31	EX-UNDERGROUND ELECTRIC (COFC) UE	Power: underground
V-POWR-UGND-FLSE	35	PHANTOM2	Power: underground: false location
V-POWR-UGND-FLSE-A	31	JIS_02_1.2	Power: underground: false location: abandoned
V-POWR-UGND-TRUE	31	PHANTOM2	Power: underground: true location
V-POWR-UGND-TRUE-A	31	JIS_02_1.2	Power: underground: true location: abandoned
V-POWR-XFMR	8	CONTINUOUS	Power: transformer
V-POWR-XFMR-OVHD-FLSE	8	CONTINUOUS	Power: transformer: overhead: false location
V-POWR-XFMR-OVHD-TRUE	8	CONTINUOUS	Power: transformer: overhead: true location



SURVEY & MAPPING LAYERS (10 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-POWR-XFMR-PADM	8	CONTINUOUS	Power: transformers: pad-mounted
V-POWR-XFMR-POLM	8	CONTINUOUS	Power: transformers: pole-mounted
V-POWR-XFMR-UGND-FLSE	31	GEN-STL POWER (UG) (COFC)	Power: transformer: underground: false location
V-POWR-XFMR-UGND-TRUE	31	GEN-STL POWER (UG) (COFC)	Power: transformer: underground: true location
V-PRKG	8	CONTINUOUS	Parking lot
V-PRKG-MRKG	8	CONTINUOUS	Parking lot: pavement markings
V-PRKG-TEXT	11	SAMPLE TEXT	Parking lot: text
V-PRKG-TRAN	8	CONTINUOUS	Parking lot: transit
V-PRKG-TRAN-TEXT	11	SAMPLE TEXT	Parking lot: transit: text
V-PROF-EGND	55	DASHED2	Profile: existing ground
V-PROF-TEXT	11	SAMPLE TEXT	Profile: text
V-PROP-ADDR-TEXT-NR~~	11	SAMPLE TEXT	Property: address: text: non-registered plan
V-PROP-ADDR-TEXT-RP~~	11	SAMPLE TEXT	Property: address: text: registered plan
V-PROP-ALS~~-TEXT-NR~~	11	SAMPLE TEXT	Property: ALS: text: non-registered plan
V-PROP-ALS~~-TEXT-RP~~	11	SAMPLE TEXT	Property: ALS: text: registered plan
V-PROP-APRV-TEXT-NR~~	11	SAMPLE TEXT	Property: approvals: text: non-registered plan
V-PROP-APRV-TEXT-RP~~	11	SAMPLE TEXT	Property: approvals: text: registered plan
V-PROP-AREA-TEXT-NR~~	11	SAMPLE TEXT	Property: area: text: non-registered plan
V-PROP-AREA-TEXT-RP~~	11	SAMPLE TEXT	Property: area: text: registered plan
V-PROP-BLAW-CLOS-NR~~	8	CONTINUOUS	Property: bylaw: closure: non-registered plan
V-PROP-BLAW-CLOS-RP~~	8	CONTINUOUS	Property: bylaw: closure: registered plan
V-PROP-BLAW-CLOS-TEXT-NR~~	11	SAMPLE TEXT	Property: bylaw: closure: text: non-registered plan
V-PROP-BLAW-CLOS-TEXT-RP~~	11	SAMPLE TEXT	Property: bylaw: closure: text: registered plan
V-PROP-BLKS-NR~~	22	CONTINUOUS	Property: blocks: non-registered plan



SURVEY & MAPPING LAYERS (11 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-PROP-BLKS-RP~~	22	CONTINUOUS	Property: blocks: registered plan
V-PROP-BLKS-TEXT-NR~~	11	SAMPLE TEXT	Property: blocks: text: non-registered plan
V-PROP-BLKS-TEXT-RP~~	11	SAMPLE TEXT	Property: blocks: text: registered plan
V-PROP-BOLC-LINE-NR~~	8	CONTINUOUS	Property: back of lot: line: non-registered plan
V-PROP-BOLC-LINE-RP~~	8	CONTINUOUS	Property: back of lot: line: registered plan
V-PROP-DESC-TEXT-NR~~	11	SAMPLE TEXT	Property: description: text: non-registered plan
V-PROP-DESC-TEXT-RP~~	11	SAMPLE TEXT	Property: description: text: registered plan
V-PROP-DIMS-ARRW	8	CONTINUOUS	Property: dimensions: arrow
V-PROP-DIMS-NR~~	12	CONTINUOUS	Property: dimensions: non-registered plan
V-PROP-DIMS-RP~~	12	CONTINUOUS	Property: dimensions: registered plan
V-PROP-EOBL-TEXT-NR~~	11	SAMPLE TEXT	Property: end of block: text: non-registered plan
V-PROP-EOBL-TEXT-RP~~	11	SAMPLE TEXT	Property: end of block: text: registered plan
V-PROP-ESMT-DIMS-ARRW-NR~~	8	CONTINUOUS	Property: easement: dimensions: arrow: non-registered plan
V-PROP-ESMT-DIMS-ARRW-RP~~	8	CONTINUOUS	Property: easement: dimensions: arrow: registered plan
V-PROP-ESMT-DIMS-NR~~	12	CONTINUOUS	Property: easement: dimensions: non-registered plan
V-PROP-ESMT-DIMS-RP~~	12	CONTINUOUS	Property: easement: dimensions: registered plan
V-PROP-ESMT-NR~~	8	CONTINUOUS	Property: easement: non-registered plan
V-PROP-ESMT-RP~~	8	CONTINUOUS	Property: easement: registered plan
V-PROP-ESMT-TEXT-NR~~	11	SAMPLE TEXT	Property: easement: text: non-registered plan
V-PROP-ESMT-TEXT-RP~~	11	SAMPLE TEXT	Property: easement: text: registered plan
V-PROP-EXT~~NR~~	8	CONTINUOUS	Property: external (outside): non-registered plan
V-PROP-EXT~~RP~~	8	CONTINUOUS	Property: external (outside): registered plan
V-PROP-EXT~~TEXT-NR~~	11	SAMPLE TEXT	Property: external (outside): text: non-registered plan
V-PROP-EXT~~TEXT-RP~~	11	SAMPLE TEXT	Property: external (outside): text: registered plan



SURVEY & MAPPING LAYERS (12 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-PROP-LINE-NR~~	22	CONTINUOUS	Property: line: non-registered plan
V-PROP-LINE-RP~~	22	CONTINUOUS	Property: line: registered plan
V-PROP-LOCA-TEXT-NR~~	11	SAMPLE TEXT	Property: location: text: non-registered plan
V-PROP-LOCA-TEXT-RP~~	11	SAMPLE TEXT	Property: location: text: registered plan
V-PROP-LOTS-DPLX-NR~~	8	JIS_02_4.0	Property: lots: duplex: non-registered plan
V-PROP-LOTS-DPLX-RP~~	8	JIS_02_4.0	Property: lots: duplex: registered plan
V-PROP-LOTS-KEY~-TEXT-NR~~	11	SAMPLE TEXT	Property: lots: key: text: non-registered plan
V-PROP-LOTS-KEY~-TEXT-RP~~	11	SAMPLE TEXT	Property: lots: key: text: registered plan
V-PROP-LOTS-NR~~	8	CONTINUOUS	Property: lots: non-registered plan
V-PROP-LOTS-PARK	8	CONTINUOUS	Property: lot: park
V-PROP-LOTS-RES	8	CONTINUOUS	Property: lot: residential/commercial
V-PROP-LOTS-RP~~	8	CONTINUOUS	Property: lots: registered plan
V-PROP-LOTS-SCHL-PRIV	8	CONTINUOUS	Property: lot: private school
V-PROP-LOTS-SCHL-PUBL	8	CONTINUOUS	Property: lot: public school
V-PROP-LOTS-STUB	8	CONTINUOUS	Property: lot: stub
V-PROP-LOTS-TEXT-NR~~	11	SAMPLE TEXT	Property: lots: text: non-registered plan
V-PROP-LOTS-TEXT-RP~~	11	SAMPLE TEXT	Property: lots: text: registered plan
V-PROP-MASC-NR~~	8	CONTINUOUS	Property: MASCOT (number and symbol): non-registered plan
V-PROP-MASC-RP~~	8	CONTINUOUS	Property: MASCOT (number and symbol): registered plan
V-PROP-MISC-TEXT-NR~~	11	SAMPLE TEXT	Property: miscellaneous: text: non-registered plan
V-PROP-MISC-TEXT-RP~~	11	SAMPLE TEXT	Property: miscellaneous: text: registered plan
V-PROP-PLAN-NR~~	8	CONTINUOUS	Property: plan: non-registered plan
V-PROP-PLAN-RP~~	8	CONTINUOUS	Property: plan: registered plan
V-PROP-PLAN-TEXT-NR~~	11	SAMPLE TEXT	Property: plan: text: non-registered plan



SURVEY & MAPPING LAYERS (13 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-PROP-PLAN-TEXT-RP~~	11	SAMPLE TEXT	Property: plan: text: registered plan
V-PROP-RADI-TEXT-NR~~	11	SAMPLE TEXT	Property: radius: text: non-registered plan
V-PROP-RADI-TEXT-RP~~	11	SAMPLE TEXT	Property: radius: text: registered plan
V-PROP-ROAD-TEXT-LRG~~NR~~	11	SAMPLE TEXT	Property: roadways: text: large: non-registered plan
V-PROP-ROAD-TEXT-LRG~~RP~~	11	SAMPLE TEXT	Property: roadways: text: large: registered plan
V-PROP-ROAD-TEXT-MED~~NR~~	11	SAMPLE TEXT	Property: roadways: text: medium: non-registered plan
V-PROP-ROAD-TEXT-MED~~RP~~	11	SAMPLE TEXT	Property: roadways: text: medium: registered plan
V-PROP-ROAD-WDTH-DIMS-NR~~	12	CONTINUOUS	Property: roadways: width: dimensions: non-registered plan
V-PROP-ROAD-WDTH-DIMS-RP~~	12	CONTINUOUS	Property: roadways: width: dimensions: registered plan
V-PROP-ROW~	8	GEN-ROW (COFC)	Property: right of way
V-PROP-ROW~-ACCS-DASH-NR~~	8	DASHED2	Property: right of way: access: dashed line: non-registered plan
V-PROP-ROW~-ACCS-DASH-RP~~	8	DASHED2	Property: right of way: access: dashed line: registered plan
V-PROP-ROW~-ACCS-DIMS-ARRW-NR~~	8	CONTINUOUS	Property: right of way: access: dimension: arrow: non-registered plan
V-PROP-ROW~-ACCS-DIMS-ARRW-RP~~	8	CONTINUOUS	Property: right of way: access: dimension: arrow: registered plan
V-PROP-ROW~-ACCS-DIMS-NR~~	12	CONTINUOUS	Property: right of way: access: dimension: non-registered plan
V-PROP-ROW~-ACCS-DIMS-RP~~	12	CONTINUOUS	Property: right of way: access: dimension: registered plan
V-PROP-ROW~-ACCS-NR~~	8	GEN-ROW (COFC)	Property: right of way: access: non-registered plan
V-PROP-ROW~-ACCS-RP~~	8	GEN-ROW (COFC)	Property: right of way: access: registered plan
V-PROP-ROW~-ACCS-TEXT-NR~~	11	SAMPLE TEXT	Property: right of way: access: text: non-registered plan
V-PROP-ROW~-ACCS-TEXT-RP~~	11	SAMPLE TEXT	Property: right of way: access: text: registered plan
V-PROP-ROW~-DASH	8	DASHED2	Property: right of way: dashed line
V-PROP-ROW~-DIMS	12	CONTINUOUS	Property: right of way: dimension
V-PROP-ROW~-OVDR-DASH-NR~~	8	DASHED2	Property: right of way: overland drainage: dashed line: non-registered plan
V-PROP-ROW~-OVDR-DASH-RP~~	8	DASHED2	Property: right of way: overland drainage: dashed line: registered plan



SURVEY & MAPPING LAYERS (14 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-PROP-ROW~~OVDR-DIMS-ARRW-NR~~	8	CONTINUOUS	Property: right of way: overland drainage: dimension: arrow: non-registered plan
V-PROP-ROW~~OVDR-DIMS-ARRW-RP~~	8	CONTINUOUS	Property: right of way: overland drainage: dimension: arrow: registered plan
V-PROP-ROW~~OVDR-DIMS-NR~~	12	CONTINUOUS	Property: right of way: overland drainage: dimension: non-registered plan
V-PROP-ROW~~OVDR-DIMS-RP~~	12	CONTINUOUS	Property: right of way: overland drainage: dimension: registered plan
V-PROP-ROW~~OVDR-NR~~	8	GEN-ROW (COFC)	Property: right of way: overland drainage: non-registered plan
V-PROP-ROW~~OVDR-RP~~	8	GEN-ROW (COFC)	Property: right of way: overland drainage: registered plan
V-PROP-ROW~~OVDR-TEXT-NR~~	11	SAMPLE TEXT	Property: right of way: overland drainage: text: non-registered plan
V-PROP-ROW~~OVDR-TEXT-RP~~	11	SAMPLE TEXT	Property: right of way: overland drainage: text: registered plan
V-PROP-ROW~~PCKT-DASH-NR~~	8	DASHED2	Property: right of way: pocket: dashed line: non-registered plan
V-PROP-ROW~~PCKT-DASH-RP~~	8	DASHED2	Property: right of way: pocket: dashed line: registered plan
V-PROP-ROW~~PCKT-DIMS-ARRW-NR~~	8	CONTINUOUS	Property: right of way: pocket: dimension: arrow: non-registered plan
V-PROP-ROW~~PCKT-DIMS-ARRW-RP~~	8	CONTINUOUS	Property: right of way: pocket: dimension: arrow: registered plan
V-PROP-ROW~~PCKT-DIMS-NR~~	12	CONTINUOUS	Property: right of way: pocket: dimension: non-registered plan
V-PROP-ROW~~PCKT-DIMS-RP~~	12	CONTINUOUS	Property: right of way: pocket: dimension: registered plan
V-PROP-ROW~~PCKT-NR~~	8	GEN-ROW (COFC)	Property: right of way: pocket: non-registered plan
V-PROP-ROW~~PCKT-RP~~	8	GEN-ROW (COFC)	Property: right of way: pocket: registered plan
V-PROP-ROW~~PCKT-TEXT-NR~~	11	SAMPLE TEXT	Property: right of way: pocket: text: non-registered plan
V-PROP-ROW~~PCKT-TEXT-RP~~	11	SAMPLE TEXT	Property: right of way: pocket: text: registered plan
V-PROP-ROW~~TEXT	11	SAMPLE TEXT	Property: right of way: text
V-PROP-ROW~~UTIL-DASH-NR~~	8	DASHED2	Property: right of way: utility: dashed line: non-registered plan
V-PROP-ROW~~UTIL-DASH-RP~~	8	DASHED2	Property: right of way: utility: dashed line: registered plan
V-PROP-ROW~~UTIL-DIMS-ARRW-NR~~	8	CONTINUOUS	Property: right of way: utility: dimension: arrow: non-registered plan
V-PROP-ROW~~UTIL-DIMS-ARRW-RP~~	8	CONTINUOUS	Property: right of way: utility: dimension: arrow: registered plan
V-PROP-ROW~~UTIL-DIMS-NR~~	12	CONTINUOUS	Property: right of way: utility: dimension: non-registered plan



SURVEY & MAPPING LAYERS (15 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-PROP-ROW~-UTIL-DIMS-RP~~	12	CONTINUOUS	Property: right of way: utility: dimension: registered plan
V-PROP-ROW~-UTIL-NR~~	8	GEN-ROW (COFC)	Property: right of way: utility: non-registered plan
V-PROP-ROW~-UTIL-RP~~	8	GEN-ROW (COFC)	Property: right of way: utility: registered plan
V-PROP-ROW~-UTIL-TEXT-NR~~	11	SAMPLE TEXT	Property: right of way: utility: text: non-registered plan
V-PROP-ROW~-UTIL-TEXT-RP~~	11	SAMPLE TEXT	Property: right of way: utility: text: registered plan
V-PROP-SUPR-NR~~	8	CONTINUOUS	Property: superseded: non-registered plan
V-PROP-SUPR-RP~~	8	CONTINUOUS	Property: superseded: registered plan
V-PROP-SUPR-TEXT-NR~~	11	SAMPLE TEXT	Property: superseded: text: non-registered plan
V-PROP-SUPR-TEXT-RP~~	11	SAMPLE TEXT	Property: superseded: text: registered plan
V-PROP-TEXT-NR~~	11	SAMPLE TEXT	Property: text: non-registered plan
V-PROP-TEXT-RP~~	11	SAMPLE TEXT	Property: text: registered plan
V-PROP-TPNT	8	CONTINUOUS	Property: transition point
V-PROP-TUC~	8	GEN-ROW (COFC)	Property: transportation utility corridor
V-PROP-TUC~-DASH	8	DASHED2	Property: transportation utility corridor: dashed line
V-PROP-TUC~-DIMS	12	CONTINUOUS	Property: transportation utility corridor: dimension
V-PROP-TUC~-DIMS-ARRW	8	CONTINUOUS	Property: transportation utility corridor: dimension arrow
V-PROP-TUC~-TEXT	11	SAMPLE TEXT	Property: transportation utility corridor: text
V-PROP-WWAY	8	CONTINUOUS	Property: waterway
V-PROP-WWAY-ARRW	8	CONTINUOUS	Property: waterway: arrow
V-PROP-WWAY-BLKS	8	CONTINUOUS	Property: waterway: blocks (within)
V-PROP-WWAY-BLKS-TEXT	11	SAMPLE TEXT	Property: waterway: blocks (within): text
V-PROP-WWAY-LOTS	8	CONTINUOUS	Property: waterway: lots (within)
V-PROP-WWAY-LOTS-TEXT	11	SAMPLE TEXT	Property: waterway: lots (within): text
V-PROP-WWAY-TEXT	11	SAMPLE TEXT	Property: waterway: text



SURVEY & MAPPING LAYERS (16 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-RAIL-BLST	8	CONTINUOUS	Railroad: ballast
V-RAIL-CNTR	8	GEN-CENTRE (COFC)	Railroad: centreline
V-RAIL-EQPM	8	CONTINUOUS	Railroad: equipment
V-RAIL-SIG~	8	CONTINUOUS	Railroad: signal
V-RAIL-TEXT	11	SAMPLE TEXT	Railroad: text
V-RAIL-TRAK	8	GEN-RAILROAD TRACK (COFC)	Railroad: track
V-RAIL-TRAK-LRT~	8	GEN-RAILROAD TRACK (COFC)	Railroad: track: LRT
V-RAIL-TRAK-LRT~-OBSC	8	GEN-RAILROAD TRACK (COFC)	Railroad: track: LRT: obscured
V-RAIL-TRAK-OBSC	8	GEN-RAILROAD TRACK (COFC)	Railroad: track: obscured
V-REFR	WHITE	CONTINUOUS	Reference: external files (images, pdfs, xrefs, etc)
V-ROAD	8	CONTINUOUS	Roadways: miscellaneous features
V-ROAD-ACCS	8	CONTINUOUS	Roadways: access
V-ROAD-ACTV	8	CONTINUOUS	Roadways: activity centre
V-ROAD-ACTV-UBUI	8	CONTINUOUS	Roadways: activity centre: unbuilt
V-ROAD-ARTL	8	CONTINUOUS	Roadways: arterial
V-ROAD-ARTL-UBUI	8	CONTINUOUS	Roadways: arterial: unbuilt
V-ROAD-ASPH	8	CONTINUOUS	Roadways: asphalt
V-ROAD-ASPH-HTCH-WIDE	34	CONTINUOUS	Roadways: asphalt: hatch: wide (for dot patterns)
V-ROAD-ASPH-HTCH-XFIN	8	CONTINUOUS	Roadways: asphalt: hatch: extra fine (for line patterns)
V-ROAD-BLAW-TEXT	11	SAMPLE TEXT	Roadways: bylaw: text
V-ROAD-BLVD	8	CONTINUOUS	Roadways: boulevards
V-ROAD-BUSP	8	CONTINUOUS	Roadways: bus pad
V-ROAD-BUST	8	CONTINUOUS	Roadways: bus trap
V-ROAD-CLOS-SSEG	8	CONTINUOUS	Roadways: closure: street segments



SURVEY & MAPPING LAYERS (17 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-ROAD-CLOS-SSEG-UBUI	8	CONTINUOUS	Roadways: closure: street segments: unbuilt
V-ROAD-CNTR	8	GEN-CENTRE (COFC)	Roadways: centreline
V-ROAD-COLL	8	CONTINUOUS	Roadways: collector
V-ROAD-COLL-CRBI	8	CONTINUOUS	Roadways: collector: curbs-in
V-ROAD-COLL-UBUI	8	CONTINUOUS	Roadways: collector: unbuilt
V-ROAD-CONC	8	CONTINUOUS	Roadways: concrete
V-ROAD-CONC-HTCH	8	CONTINUOUS	Roadways: concrete: hatch
V-ROAD-CONN-CNTR	8	GEN-CENTRE (COFC)	Roadways: connectors: centreline
V-ROAD-CRBI-PREL	8	CONTINUOUS	Roadways: curbs-in: preliminary
V-ROAD-CRBI-RP~~	8	CONTINUOUS	Roadways: curbs-in: registered plan
V-ROAD-CRBI-TENT	8	CONTINUOUS	Roadways: curbs-in: tentative
V-ROAD-CRWN	8	CONTINUOUS	Roadways: crowns
V-ROAD-CURB	8	CONTINUOUS	Roadways: curb
V-ROAD-CURB-BACK	8	CONTINUOUS	Roadways: curb: back
V-ROAD-CURB-FACE	8	CONTINUOUS	Roadways: curb: face
V-ROAD-CURB-FACE-MAJR	8	CONTINUOUS	Roadways: curb: face: major
V-ROAD-CURB-FACE-MAJR-TEXT	11	SAMPLE TEXT	Roadways: curb: face: major: text
V-ROAD-CURB-FLEX-DELI	8	CONTINUOUS	Roadways: curb: flexible: delineator
V-ROAD-CURB-WALL-FACE	8	CONTINUOUS	Roadways: curb: wall: face
V-ROAD-CURB-WALL-FACE-TEXT	11	SAMPLE TEXT	Roadways: curb: wall: face: text
V-ROAD-CUSH	8	CONTINUOUS	Roadways: cushion (speed)
V-ROAD-DATA	11	CONTINUOUS	Roadways: data
V-ROAD-DIMS	12	CONTINUOUS	Roadways: street and lane widths within area to be registered
V-ROAD-DRIV	8	CONTINUOUS	Roadways: driveways (general)



SURVEY & MAPPING LAYERS (18 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-ROAD-DRIV-ASPH	8	CONTINUOUS	Roadways: asphalt driveways
V-ROAD-DRIV-BRCK	8	CONTINUOUS	Roadways: brick driveways
V-ROAD-DRIV-CNTR	8	GEN-CENTRE (COFC)	Roadways: driveways: centreline
V-ROAD-DRIV-CONC	8	CONTINUOUS	Roadways: concrete driveways
V-ROAD-DRIV-DIRT	8	GEN-DIRT (COFC)	Roadways: dirt driveways
V-ROAD-DRIV-GRVL	8	GEN-GRAV (COFC)	Roadways: gravel driveways
V-ROAD-EDGE	8	GEN-ROAD EDGE (COFC)	Roadways: edge
V-ROAD-EDGE-ASPH	8	GEN-ROAD EDGE (COFC)	Roadways: edge: asphalt
V-ROAD-EDGE-ASPH-TEXT	11	SAMPLE TEXT	Roadways: edge: asphalt: text
V-ROAD-EDGE-CONC	8	GEN-ROAD EDGE (COFC)	Roadways: edge: concrete
V-ROAD-EDGE-DIRT	8	GEN-DIRT (COFC)	Roadways: edge: dirt
V-ROAD-EDGE-GRVL	8	GEN-GRAV (COFC)	Roadways: edge: gravel
V-ROAD-GUTR	8	CONTINUOUS	Roadways: gutter
V-ROAD-GUTR-COLL	8	CONTINUOUS	Roadways: gutter: collector
V-ROAD-GUTR-COLL-TEXT	11	SAMPLE TEXT	Roadways: gutter: collector: text
V-ROAD-GUTR-LOCL	8	CONTINUOUS	Roadways: gutter: local
V-ROAD-GUTR-LOCL-TEXT	11	SAMPLE TEXT	Roadways: gutter: local
V-ROAD-GUTR-MAJR	8	CONTINUOUS	Roadways: gutter: major
V-ROAD-GUTR-MAJR-TEXT	11	SAMPLE TEXT	Roadways: gutter: major: text
V-ROAD-HSRA-UBUI	8	CONTINUOUS	Roadways: historic road allowance: unbuilt
V-ROAD-INDA	8	CONTINUOUS	Roadways: industrial arterial
V-ROAD-INDA-UBUI	8	CONTINUOUS	Roadways: industrial arterial: unbuilt
V-ROAD-INDS	8	CONTINUOUS	Roadways: industrial street
V-ROAD-INDS-UBUI	8	CONTINUOUS	Roadways: industrial street: unbuilt



SURVEY & MAPPING LAYERS (19 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-ROAD-LANE	8	CONTINUOUS	Roadways: lanes (alleys)
V-ROAD-LANE-BASE	8	GEN-ROAD EDGE (COFC) ///	Roadways: lanes: base structure granular
V-ROAD-LANE-CLOS	8	CONTINUOUS	Roadways: lanes: closure
V-ROAD-LANE-CNTR	8	GEN-CENTRE (COFC)	Roadways: lanes: centreline
V-ROAD-LANE-CRBI	8	CONTINUOUS	Roadways: lanes (alleys): curbs-in
V-ROAD-LANE-EDGE	8	GEN-ROAD EDGE (COFC) ///	Roadways: lanes: edge
V-ROAD-LANE-SHAP	8	CONTINUOUS	Roadways: lanes: shape
V-ROAD-LANE-UBUI	8	CONTINUOUS	Roadways: lanes (alleys): unbuilt
V-ROAD-LOCA	8	CONTINUOUS	Roadways: local arterial
V-ROAD-LOCA-UBUI	8	CONTINUOUS	Roadways: local arterial: unbuilt
V-ROAD-MAJR	8	CONTINUOUS	Roadways: major
V-ROAD-MAJR-CRBI	8	CONTINUOUS	Roadways: major: curbs-in
V-ROAD-MAJR-TEXT	11	SAMPLE TEXT	Roadways: major: text
V-ROAD-MAJR-UBUI	8	CONTINUOUS	Roadways: major: unbuilt
V-ROAD-MISC-MAJR	8	CONTINUOUS	Roadways: miscellaneous: major
V-ROAD-MISC-MLC~	8	CONTINUOUS	Roadways: miscellaneous: major/local/collector
V-ROAD-MRKG	8	CONTINUOUS	Roadways: pavement markings
V-ROAD-MRKG-BDEL	8	GEN-ROAD MARKING 1_5 TO 1_5 (COFC) -----	Roadways: pavement markings: lane delineation, bicycle path
V-ROAD-MRKG-BUSB	8	GEN-ROAD MARKING 1_5 TO 1_5 (COFC) - - - - -	Roadways: pavement markings: bus lay by
V-ROAD-MRKG-CHEV-WHTE	8	CONTINUOUS	Roadways: pavement markings: chevron: white
V-ROAD-MRKG-CHEV-YELL	8	CONTINUOUS	Roadways: pavement markings: chevron: yellow
V-ROAD-MRKG-CNTY-WHTE	8	GEN-ROAD MARKING 3 TO 3 (COFC) - - - - -	Roadways: pavement markings: turn bays, merge and diverge areas: white
V-ROAD-MRKG-CNTY-YELL	8	GEN-ROAD MARKING 3 TO 3 (COFC) - - - - -	Roadways: pavement markings: turn bays, merge and diverge areas: yellow
V-ROAD-MRKG-DBL~-WHTE	8	GEN-ROAD MARKING DOUBLE LINE (COFC) =====	Roadways: pavement markings: lane delineation where lane change / passing prohibited: white



SURVEY & MAPPING LAYERS (20 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-ROAD-MRKG-DBL~-WHITE-1C1B	8	GEN-ROAD MARKING CONTINUOUS & BROKEN (COFC) _____	Roadways: pavement markings: lane delineation where lane changing prohibited from lane nearest solid line: white
V-ROAD-MRKG-DBL~-YELL	8	GEN-ROAD MARKING DOUBLE LINE (COFC) _____	Roadways: pavement markings: lane delineation where lane change / passing prohibited: yellow
V-ROAD-MRKG-DBL~-YELL-1C1B	8	GEN-ROAD MARKING CONTINUOUS & BROKEN (COFC) _____	Roadways: pavement markings: lane delineation where lane changing prohibited from lane nearest solid line: yellow
V-ROAD-MRKG-LOAD-ZONE	8	CONTINUOUS _____	Roadways: pavement markings: loading: zone
V-ROAD-MRKG-OBSC	8	CONTINUOUS _____	Roadways: pavement markings: obscured by structures
V-ROAD-MRKG-SDSH-WHITE	8	GEN-ROAD MARKING _5 TO _5 (COFC) -----	Roadways: pavement markings: lane delineation through offset intersections: white
V-ROAD-MRKG-SDSH-YELL	8	GEN-ROAD MARKING _5 TO _5 (COFC) -----	Roadways: pavement markings: lane delineation through offset intersections: yellow
V-ROAD-MRKG-SGL~-WHITE	8	CONTINUOUS _____	Roadways: pavement markings: lane delineation, right shoulder line, gore lines: white
V-ROAD-MRKG-SGL~-WHITE-WIDE	8	CONTINUOUS _____	Roadways: pavement markings: right edgeline and gore lines for freeway merge / diverge areas: white: wide
V-ROAD-MRKG-SGL~-YELL	8	CONTINUOUS _____	Roadways: pavement markings: lane delineation, right shoulder line, gore lines: yellow
V-ROAD-MRKG-SKIP-WHITE	8	GEN-ROAD MARKING 3 TO 6 (COFC) _ _ _ _ _	Roadways: pavement markings: delineation between lanes: white
V-ROAD-MRKG-SKIP-YELL	8	GEN-ROAD MARKING 3 TO 6 (COFC) _ _ _ _ _	Roadways: pavement markings: delineation between lanes: yellow
V-ROAD-MRKG-STEN-SHDE	9	CONTINUOUS _____	Roadways: pavement markings: stencil: shading
V-ROAD-MRKG-STEN-SYMB	8	CONTINUOUS _____	Roadways: pavement markings: stencil: symbol
V-ROAD-MRKG-STOP-LINE	8	CONTINUOUS _____	Roadways: pavement markings: stop: line
V-ROAD-MRKG-STOP-X~~~	8	CONTINUOUS _____	Roadways: pavement markings: stop: X
V-ROAD-MRKG-SYMB	8	CONTINUOUS _____	Roadways: pavement markings: symbols
V-ROAD-MRKG-TEXT	11	SAMPLE TEXT	Roadways: pavement markings: text
V-ROAD-MRKG-XWLK	8	CONTINUOUS _____	Roadways: pavement markings: crosswalk lines
V-ROAD-MRKG-XWLK-CNTR	8	GEN-CENTRE (COFC) _____	Roadways: pavement markings: crosswalk lines: centreline
V-ROAD-MRKG-XWLK-STMP	8	CONTINUOUS _____	Roadways: pavement markings: crosswalk lines: stamped concrete
V-ROAD-NBLV	8	CONTINUOUS _____	Roadways: neighbourhood boulevard
V-ROAD-NBLV-UBUI	8	CONTINUOUS _____	Roadways: neighbourhood boulevard: unbuilt
V-ROAD-PCOL	8	CONTINUOUS _____	Roadways: primary collector



SURVEY & MAPPING LAYERS (21 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-ROAD-PCOL-UBUI	8	CONTINUOUS	Roadways: primary collector: unbuilt
V-ROAD-PPAD-ASPH	8	CONTINUOUS	Roadways: parking pad: asphalt
V-ROAD-PPAD-CONC	8	CONTINUOUS	Roadways: parking pad: concrete
V-ROAD-PPAD-GRVL	8	CONTINUOUS	Roadways: parking pad: gravel
V-ROAD-PREL	8	CONTINUOUS	Roadways: preliminary
V-ROAD-PRIV	8	CONTINUOUS	Roadways: private
V-ROAD-PRIV-SSEG	8	CONTINUOUS	Roadways: private: street segments
V-ROAD-PRIV-TEXT	11	SAMPLE TEXT	Roadways: private: text
V-ROAD-PRIV-UBUI	8	CONTINUOUS	Roadways: private: unbuilt
V-ROAD-PRIV-UBUI-NR~~	8	CONTINUOUS	Roadways: private: unbuilt: non-registered plan
V-ROAD-PRKW	8	CONTINUOUS	Roadways: parkway
V-ROAD-PRKW-UBUI	8	CONTINUOUS	Roadways: parkway: unbuilt
V-ROAD-PROF-TEXT	11	SAMPLE TEXT	Roadways: profile: text
V-ROAD-RESD	8	CONTINUOUS	Roadways: residential
V-ROAD-RESD-UBUI	8	CONTINUOUS	Roadways: residential: unbuilt
V-ROAD-RNDG	8	CONTINUOUS	Roadways: rounding line
V-ROAD-RP~~	8	CONTINUOUS	Roadways: registered plan
V-ROAD-SECT	8	CONTINUOUS	Roadways: section
V-ROAD-SHLD	8	CONTINUOUS	Roadways: shoulder
V-ROAD-SIGN	8	CONTINUOUS	Roadways: signs
V-ROAD-SKEL	8	CONTINUOUS	Roadways: skeletal
V-ROAD-SKEL-UBUI	8	CONTINUOUS	Roadways: skeletal: unbuilt
V-ROAD-TENT	8	CONTINUOUS	Roadways: tentative
V-ROAD-TENT-PREL-TEXT	11	SAMPLE TEXT	Roadways: tentative: preliminary: text



SURVEY & MAPPING LAYERS (22 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-ROAD-TEXT	11	SAMPLE TEXT	Roadways: text
V-ROAD-TPNT	8	CONTINUOUS	Roadways: transition point
V-ROAD-TURN-RADI	8	JIS_02_2.0 - - - - -	Roadways: turning: radius
V-ROAD-UBLV	8	CONTINUOUS	Roadways: urban boulevard
V-ROAD-UBLV-UBUI	8	CONTINUOUS	Roadways: urban boulevard: unbuilt
V-ROAD-UBUI-PREL	8	CONTINUOUS	Roadways: unbuilt: preliminary
V-ROAD-UBUI-RP~~	8	CONTINUOUS	Roadways: unbuilt: registered plan
V-ROAD-UBUI-TENT	8	CONTINUOUS	Roadways: unbuilt: tentative
V-ROAD-UBUI-TEXT	11	SAMPLE TEXT	Roadways: unbuilt: text
V-ROAD-UCLS	8	CONTINUOUS	Roadways: unclassified
V-ROAD-UCLS-UBUI	8	CONTINUOUS	Roadways: unclassified: unbuilt
V-ROAD-XMC~-TEXT	11	SAMPLE TEXT	Roadways: expressway/major/collector: text
V-ROAD-XPRS	8	CONTINUOUS	Roadways: expressway
V-ROAD-XPRS-CRBI	8	CONTINUOUS	Roadways: expressway: curbs-in
V-ROAD-XPRS-TEXT	11	SAMPLE TEXT	Roadways: expressway: text
V-ROAD-XPRS-UBUI	8	CONTINUOUS	Roadways: expressway: unbuilt
V-ROAD-XPRS-UBUI-NR~~-TEXT	11	SAMPLE TEXT	Roadways: expressway: unbuilt: non-registered plan: text
V-ROAD-XPRS-UBUI-TEXT	11	SAMPLE TEXT	Roadways: expressway: unbuilt: text
V-SECT-EGND	55	DASHED2 _ _ _ _ _	Section: existing ground
V-SITE-ANT~	8	CONTINUOUS	Site features: antenna
V-SITE-ASPH	8	CONTINUOUS	Site features: asphalt
V-SITE-ASPH-HTCH	8	CONTINUOUS	Site features: asphalt: hatch
V-SITE-BARR	8	CONTINUOUS	Site features: barriers
V-SITE-BERM	8	CONTINUOUS	Site features: berms



SURVEY & MAPPING LAYERS (23 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-SITE-BIKE-RACK	8	CONTINUOUS	Site features: bike: rack
V-SITE-BIKE-RAMP	8	CONTINUOUS	Site features: bike: ramp
V-SITE-BLDG-COM~	8	CONTINUOUS	Site features: building: commercial
V-SITE-BLDG-CONS	8	CONTINUOUS	Site features: building: under construction
V-SITE-BLDG-GRGE	8	CONTINUOUS	Site features: building: garage
V-SITE-BLDG-HOUS	8	CONTINUOUS	Site features: building: house
V-SITE-BLDG-LSHL	8	CONTINUOUS	Site features: building: LRT shelters and stations
V-SITE-BLDG-MISC	8	CONTINUOUS	Site features: building: miscellaneous
V-SITE-BLDG-OTLN	8	CONTINUOUS	Site features: building: outline
V-SITE-BLDG-PRKG	8	CONTINUOUS	Site features: building: parking garage
V-SITE-BLDG-RELG	8	CONTINUOUS	Site features: building: religious
V-SITE-BLDG-SCHL	8	CONTINUOUS	Site features: building: school
V-SITE-BLDG-SHPC	8	CONTINUOUS	Site features: building: shopping center
V-SITE-BLDG-STDN	8	CONTINUOUS	Site features: building: stadium
V-SITE-BLDG-TEXT	11	SAMPLE TEXT	Site features: building: text
V-SITE-BLDG-UCLS	8	CONTINUOUS	Site features: building: unclassified
V-SITE-BOLL	8	CONTINUOUS	Site features: bollards
V-SITE-BRCK	8	CONTINUOUS	Site features: brick
V-SITE-BRCK-HTCH	8	CONTINUOUS	Site features: brick: hatch
V-SITE-BRDG-15~~	8	CONTINUOUS	Site features: bridge: +15
V-SITE-BRDG-OTLN	8	CONTINUOUS	Site features: bridge: outline
V-SITE-BRDG-OTLN-NR~~	8	CONTINUOUS	Site features: bridge: outline: non-registered
V-SITE-BRDG-OTLN-NR~~-TEXT	11	SAMPLE TEXT	Site features: bridge: outline: non-registered: text
V-SITE-BRDG-OTLN-TEXT	11	SAMPLE TEXT	Site features: bridge: outline: text



SURVEY & MAPPING LAYERS (24 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-SITE-BRDG-PED~	8	CONTINUOUS	Site features: bridge: pedestrian
V-SITE-BRDG-PED~-CNTR	8	GEN-CENTRE (COFC)	Site features: bridge: pedestrian: centreline
V-SITE-BSHL	8	CONTINUOUS	Site features: bus shelter
V-SITE-CANL-CNTR	8	GEN-CENTRE (COFC)	Site features: canal: centreline
V-SITE-CLAY	8	CONTINUOUS	Site features: clay
V-SITE-CLAY-HTCH	8	CONTINUOUS	Site features: clay: hatch
V-SITE-CLOS-HTCH	8	CONTINUOUS	Site features: closure: hatch
V-SITE-CLOS-HTCH-TEXT	11	SAMPLE TEXT	Site features: closure: hatch: text
V-SITE-CONC	8	CONTINUOUS	Site features: concrete
V-SITE-CONC-AGGR	8	CONTINUOUS	Site features: concrete: exposed aggregate
V-SITE-CONC-HTCH	8	CONTINUOUS	Site features: concrete: hatch
V-SITE-CTLJ	8	CONTINUOUS	Site features: control joint
V-SITE-DECK	8	CONTINUOUS	Site features: deck (wood, typ.)
V-SITE-DEEP-GRVL-SHAP	8	CONTINUOUS	Site features: deep: gravel base: shape
V-SITE-EXPJ	8	CONTINUOUS	Site features: expansion joint
V-SITE-FLAG	8	CONTINUOUS	Site features: flag pole
V-SITE-FURN	8	CONTINUOUS	Site features: furnishings (benches, etc)
V-SITE-FURN-OBSC	8	CONTINUOUS	Site features: furnishings (benches, etc): obscured
V-SITE-GABN	8	CONTINUOUS	Site features: gabion
V-SITE-GARB	8	CONTINUOUS	Site features: garbage receptacles
V-SITE-GARB-OBSC	8	CONTINUOUS	Site features: garbage receptacles: obscured
V-SITE-GOLF	8	CONTINUOUS	Site features: sports fields: golf course greens
V-SITE-GRAD-BEAM	8	CONTINUOUS	Site features: grade: beam
V-SITE-GRVL	8	CONTINUOUS	Site features: gravel



SURVEY & MAPPING LAYERS (25 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-SITE-GRVL-HTCH	8	CONTINUOUS	Site features: gravel: hatch
V-SITE-MAIL	8	CONTINUOUS	Site features: mail box
V-SITE-MAIL-OBSC	8	CONTINUOUS	Site features: mail box: obscured
V-SITE-MISC-STRS-RAMP	8	CONTINUOUS	Site features: miscellaneous: stairs: wheelchair ramp
V-SITE-MISC-SWLK-MONO-SEP~	8	CONTINUOUS	Site features: miscellaneous: sidewalks: monolithic: separate
V-SITE-MISC-SWLK-SEP~-CNTR	8	CONTINUOUS	Site features: miscellaneous: sidewalks: separate: centreline
V-SITE-MOVE-STRC	8	CONTINUOUS	Site features: moveable: structure
V-SITE-PARK	8	CONTINUOUS	Site features: park
V-SITE-PARK-TEXT	11	SAMPLE TEXT	Site features: park: text
V-SITE-PAVR	8	CONTINUOUS	Site features: unit pavers
V-SITE-PAVR-HTCH	8	CONTINUOUS	Site features: unit pavers: hatch
V-SITE-PHON	8	CONTINUOUS	Site features: phone (pay)
V-SITE-PHON-OBSC	8	CONTINUOUS	Site features: phone (pay): obscured
V-SITE-PILE	8	CONTINUOUS	Site features: pile
V-SITE-PLAY	8	CONTINUOUS	Site features: play structures
V-SITE-PLAY-EQPM	8	CONTINUOUS	Site features: play structures: equipment
V-SITE-PLAY-ZONE	8	DASHED	Site features: play structures: zoning
V-SITE-POLE	8	CONTINUOUS	Site features: pole (general)
V-SITE-POOL	8	CONTINUOUS	Site features: pools and spas
V-SITE-POOL-BACK	8	CONTINUOUS	Site features: pools and spas: back
V-SITE-POOL-FACE	8	CONTINUOUS	Site features: pools and spas: face
V-SITE-POOL-PRIV	8	CONTINUOUS	Site features: pools and spas: private
V-SITE-POST	8	CONTINUOUS	Site features: post (general)
V-SITE-PVMT	8	CONTINUOUS	Site features: paved area



SURVEY & MAPPING LAYERS (26 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-SITE-ROCK	8	CONTINUOUS	Site features: large rocks and rock outcroppings
V-SITE-RRAP	8	CONTINUOUS	Site features: riprap
V-SITE-RTWL	8	GEN-WALL (COFC)	Site features: retaining wall (flood walls, wingwalls, etc.)
V-SITE-RTWL-HTCH	8	CONTINUOUS	Site features: retaining wall (flood walls, wingwalls, etc.): hatch
V-SITE-SIGN	8	CONTINUOUS	Site features: sign
V-SITE-SIGN-BASE	8	CONTINUOUS	Site features: sign: base
V-SITE-SIGN-OBSC	8	CONTINUOUS	Site features: sign: obscured
V-SITE-SOIL	8	CONTINUOUS	Site features: soil area
V-SITE-SOIL-HTCH	8	CONTINUOUS	Site features: soil area: hatch
V-SITE-SPRT	8	CONTINUOUS	Site features: sports fields
V-SITE-SPRT-BASE-GRAS	8	CONTINUOUS	Site features: sports field: ball diamond: grass
V-SITE-SPRT-BASE-SHAL	8	CONTINUOUS	Site features: sports field: ball diamond: shale
V-SITE-SPRT-EQPM	8	CONTINUOUS	Site features: sports fields: equipment
V-SITE-SPRT-PERI	8	JIS_02_2.0	Site features: sports fields: perimeter
V-SITE-STEP	8	CONTINUOUS	Site features: steps
V-SITE-STEP-TEXT	11	SAMPLE TEXT	Site features: steps: text
V-SITE-STRS-RISR	8	CONTINUOUS	Site features: stairs: risers
V-SITE-STRS-SIDE	8	CONTINUOUS	Site features: stairs: side
V-SITE-SWLK	8	CONTINUOUS	Site features: sidewalks
V-SITE-SWLK-BACK	8	CONTINUOUS	Site features: sidewalks: back (general)
V-SITE-SWLK-BACK-MONO	8	CONTINUOUS	Site features: sidewalks: back: monolithic
V-SITE-SWLK-BACK-SEP~	8	CONTINUOUS	Site features: sidewalks: back: separate
V-SITE-SWLK-CNTR	8	GEN-CENTRE (COFC)	Site features: sidewalks: centreline
V-SITE-SWLK-FRNT	8	CONTINUOUS	Site features: sidewalks: front



SURVEY & MAPPING LAYERS (27 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-SITE-SWLK-HTCH	8	CONTINUOUS	Site features: sidewalks: hatch
V-SITE-SWLK-POLY	8	CONTINUOUS	Site features: sidewalks: polygon
V-SITE-SWLK-RAMP	8	CONTINUOUS	Site features: sidewalks: wheelchair ramp
V-SITE-SWLK-TEXT	11	SAMPLE TEXT	Site features: sidewalks: text
V-SITE-TANK	8	CONTINUOUS	Site features: storage tank
V-SITE-TEXT	11	SAMPLE TEXT	Site features: text
V-SITE-TOWR	8	CONTINUOUS	Site features: tower (cell, etc)
V-SITE-TOWR-OBSC	8	CONTINUOUS	Site features: tower (cell, etc): obscured
V-SITE-TRAL	8	CONTINUOUS	Site features: trail or path
V-SITE-TRAL-ASPH	8	CONTINUOUS	Site features: trail or path: asphalt
V-SITE-TRAL-ASPH-CNTR	8	GEN-CENTRE (COFC)	Site features: trail or path: asphalt: centreline
V-SITE-TRAL-ASPH-POLY	8	CONTINUOUS	Site features: trail or path: asphalt: polygon
V-SITE-TRAL-CNTR	8	GEN-CENTRE (COFC)	Site features: trail or path: centreline
V-SITE-TRAL-CONC	8	CONTINUOUS	Site features: trail or path: concrete
V-SITE-TRAL-EMRG	8	CONTINUOUS	Site features: trail or path: emergency access route
V-SITE-TRAL-GRVL	8	CONTINUOUS	Site features: trail or path: gravel
V-SITE-TRAL-GRVL-CNTR	8	GEN-CENTRE (COFC)	Site features: trail or path: gravel: centreline
V-SITE-TRAL-GRVL-POLY	8	CONTINUOUS	Site features: trail or path: gravel: polygon
V-SITE-TRAL-HTCH	250	CONTINUOUS	Site features: trail or path: hatch
V-SITE-TRAL-L&R~	8	CONTINUOUS	Site features: trail or path: local & regional
V-SITE-TRAL-OBSC	8	CONTINUOUS	Site features: trail or path: obscured
V-SITE-TRAL-RAMP	8	CONTINUOUS	Site features: trail or path: wheelchair ramp
V-SITE-TRAL-TEXT	11	SAMPLE TEXT	Site features: trail or path: text
V-SITE-TUNL	8	CONTINUOUS	Site features: tunnel (underpass)



SURVEY & MAPPING LAYERS (28 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-SITE-WALL	8	CONTINUOUS	Site features: walls
V-SITE-WEIR	8	CONTINUOUS	Site features: weir
V-SSWR-AREA	24	CONTINUOUS	Sanitary sewer: area
V-SSWR-AREA-TEXT	23	SAMPLE TEXT	Sanitary sewer: area: text
V-SSWR-CBAS	9	CONTINUOUS	Sanitary sewer: catch basins
V-SSWR-CBAS-LEAD	24	CONTINUOUS	Sanitary sewer: catch basins: leads
V-SSWR-CHAM	24	CONTINUOUS	Sanitary sewer: chamber
V-SSWR-DIMS	23	CONTINUOUS	Sanitary sewer: dimensions
V-SSWR-FORC	24	GEN-SS (COFC)	Sanitary sewer: pipes forcemain
V-SSWR-FORC-A	24	GEN-SS (COFC)	Sanitary sewer: pipes forcemain: abandoned
V-SSWR-MHOL	9	CONTINUOUS	Sanitary sewer: manhole
V-SSWR-PIPE	24	GEN-SS (COFC)	Sanitary sewer: pipes
V-SSWR-PIPE-A	24	GEN-SS (COFC)	Sanitary sewer: pipes: abandoned
V-SSWR-SRVC	8	CONTINUOUS	Sanitary sewer: services
V-SSWR-STRC	8	CONTINUOUS	Sanitary sewer: structure
V-SSWR-TEXT	23	SAMPLE TEXT	Sanitary sewer: text
V-SSWR-TRCE	24	GEN-SS (COFC)	Sanitary sewer: traced location
V-SSWR-VALV	8	CONTINUOUS	Sanitary sewer: valves
V-STRM-AREA	94	CONTINUOUS	Storm: area
V-STRM-AREA-TEXT	93	SAMPLE TEXT	Storm: area: text
V-STRM-CBAS	9	CONTINUOUS	Storm: catch basins
V-STRM-CBAS-LEAD	94	CONTINUOUS	Storm: catch basins: leads
V-STRM-CBAS-OBSC	9	CONTINUOUS	Storm: catch basins : obscured
V-STRM-CBAS-SPOT	8	CONTINUOUS	Storm: catch basins: spot elevation



SURVEY & MAPPING LAYERS (29 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-STRM-CBAS-TEXT	93	SAMPLE TEXT	Storm: catch basins: text
V-STRM-CHAM	94	CONTINUOUS	Storm: chamber
V-STRM-CULV	94	GEN-STRMCULV (COFC)	Storm: culverts (precast / manufactured)
V-STRM-DIMS	93	CONTINUOUS	Storm: dimensions
V-STRM-DTCH	94	GEN-STRMCNTR (COFC)	Storm: ditches
V-STRM-FORC	94	CONTINUOUS	Storm: forcemain
V-STRM-FORC-A	94	CONTINUOUS	Storm: forcemain: abandoned
V-STRM-LINE-OVDR	94	CONTINUOUS	Storm: lines: overland drainage
V-STRM-MHOL	9	CONTINUOUS	Storm: manhole
V-STRM-MHOL-GRAT	8	CONTINUOUS	Storm: manhole: grated
V-STRM-MHOL-SPOT	8	CONTINUOUS	Storm: manhole: spot elevation
V-STRM-PIPE	94	CONTINUOUS	Storm: pipes
V-STRM-PIPE-A	94	CONTINUOUS	Storm: pipes: abandoned
V-STRM-RGRD	94	CONTINUOUS	Storm: rain garden
V-STRM-SRVC	8	CONTINUOUS	Storm: services
V-STRM-STRC	8	CONTINUOUS	Storm: structure
V-STRM-SWLE-BIO~	94	GEN-STRMCNTR (COFC)	Storm: swale: bio
V-STRM-SWLE-CONC	94	GEN-STRMCNTR (COFC)	Storm: swale: concrete
V-STRM-SWLE-CSPL	94	CONTINUOUS	Storm: swale: concrete splash pad
V-STRM-SWLE-GRAS	94	GEN-STRMCNTR (COFC)	Storm: swale: grass
V-STRM-SWLE-OVDR	94	GEN-STRMCNTR (COFC)	Storm: swale: overland drainage
V-STRM-SWLE-RRAP	94	CONTINUOUS	Storm: swale: riprap
V-STRM-TEXT	93	SAMPLE TEXT	Storm: text
V-STRM-TEXT-OVDR	93	SAMPLE TEXT	Storm: text: overland drainage



SURVEY & MAPPING LAYERS (30 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-STRM-TLOW-OVDR	94	CONTINUOUS	Storm: trap low: overland drainage
V-STRM-TRCE	94	CONTINUOUS	Storm: traced location
V-STRM-WBDY	94	CONTINUOUS	Storm: waterbody
V-STRM-WWAY	94	CONTINUOUS	Storm: waterway
V-SURV-CTRL	8	CONTINUOUS	Survey: control monuments and traverse stations
V-SURV-CTRL-ASCM	8	CONTINUOUS	Survey: ASCM symbols at true coordinates or to scale
V-SURV-CTRL-ASCM-TEXT	11	SAMPLE TEXT	Survey: ASCM text identifier at true coordinates or to scale
V-SURV-EGND	8	CONTINUOUS	Survey: existing ground
V-SURV-EVDC	8	CONTINUOUS	Survey: survey evidence, ip's, wood posts, i pipes, etc
V-SURV-GONE	8	CONTINUOUS	Survey: destroyed monuments and traverse stations
V-SURV-GONE-TEXT	11	SAMPLE TEXT	Survey: destroyed monuments and traverse stations: text
V-SURV-GORE	8	CONTINUOUS	Survey: goreline
V-SURV-INFO	8	CONTINUOUS	Survey: control text - pnt type, accuracy, info etc
V-SURV-INV~	8	CONTINUOUS	Survey: inverts
V-SURV-LINE	8	CONTINUOUS	Survey: line
V-SURV-OGND	8	CONTINUOUS	Survey: original ground
V-SURV-PGON	8	CONTINUOUS	Survey: polygon
V-SURV-PNTS	8	CONTINUOUS	Survey: points
V-SURV-STAK	8	CONTINUOUS	Survey: stakeline
V-SURV-TEXT	11	SAMPLE TEXT	Survey: text
V-TOPO	8	CONTINUOUS	Topographic feature
V-TOPO-BRKL	8	CONTINUOUS	Topographic feature: breaklines
V-TOPO-DTCH	8	GEN-STRMCNTR (COFC)	Topographic feature: ditch
V-TOPO-DTCH-EDGE	8	GEN-TOPODTCH (COFC)	Topographic feature: ditch: edge



SURVEY & MAPPING LAYERS (31 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-TOPO-EMBK-BOTM	8	GEN-TOPOTOPB (COFC) 	Topographic feature: embankment: bottom
V-TOPO-EMBK-CUT~	8	HIDDEN 	Topographic feature: embankment: cut
V-TOPO-EMBK-FILL	8	DASHDOT 	Topographic feature: embankment: fill
V-TOPO-EMBK-TOP~	8	GEN-TOPOTOPB (COFC) 	Topographic feature: embankment: top
V-TOPO-FEAT	8	CONTINUOUS 	Topographic feature: feature line
V-TOPO-MAJR	251	CONTINUOUS 	Topographic feature: major (contours)
V-TOPO-MAJR-10M~	251	CONTINUOUS 	Topographic feature: major (contours): 10 m
V-TOPO-MAJR-2.5M	251	CONTINUOUS 	Topographic feature: major (contours): 2.5 m
V-TOPO-MAJR-20M~	251	CONTINUOUS 	Topographic feature: major (contours): 20 m
V-TOPO-MAJR-25M~	251	CONTINUOUS 	Topographic feature: major (contours): 25 m
V-TOPO-MAJR-5M~~	251	CONTINUOUS 	Topographic feature: major (contours): 5 m
V-TOPO-MINR	252	CONTINUOUS 	Topographic feature: minor (contours)
V-TOPO-MINR-0.5M	252	CONTINUOUS 	Topographic feature: minor (contours): 0.5 m
V-TOPO-MRSH	8	GEN-TOPOMRSH (COFC) 	Topographic feature: marsh or swamp outline
V-TOPO-RNDG	8	GEN-ROUNDING (COFC) 	Topographic feature: rounding line
V-TOPO-ROCK	8	GEN-TOPOROCK (COFC) 	Topographic feature: large rocks and rock outcroppings
V-TOPO-SPOT	8	CONTINUOUS 	Topographic feature: spot elevation
V-TOPO-STRC	8	CONTINUOUS 	Topographic feature: structure
V-TOPO-SWLE	8	GEN-STRMCNTR (COFC) 	Topographic feature: swale
V-TOPO-TEXT	11	SAMPLE TEXT 	Topographic feature: text
V-TOPO-TEXT-10M~	11	SAMPLE TEXT 	Topographic feature: contours: text: 10 m
V-TOPO-TEXT-2.5M	11	SAMPLE TEXT 	Topographic feature: contours: text: 2.5 m
V-TOPO-TEXT-20M~	11	SAMPLE TEXT 	Topographic feature: contours: text: 20 m
V-TOPO-TEXT-25M~	11	SAMPLE TEXT 	Topographic feature: contours: text: 25 m



SURVEY & MAPPING LAYERS (32 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-TOPO-TEXT-5M~~	11	SAMPLE TEXT	Topographic feature: contours: text: 5 m
V-TRAF-CAB~	8	CONTINUOUS	Traffic: cabinet
V-TRAF-CAB~-D	8	CONTINUOUS	Traffic: cabinet: demolished / removed
V-TRAF-CAB~-M	8	CONTINUOUS	Traffic: cabinet: moved / updated
V-TRAF-CAB~-OBSC	8	CONTINUOUS	Traffic: cabinet: obscured
V-TRAF-POLE	8	CONTINUOUS	Traffic: pole
V-TRAF-POLE-D	8	CONTINUOUS	Traffic: pole: demolished / removed
V-TRAF-POLE-M	8	CONTINUOUS	Traffic: pole: moved / updated
V-TRAF-SIGN	8	CONTINUOUS	Traffic: sign
V-TRAF-STRC	8	CONTINUOUS	Traffic: structure
V-TRAF-STRC-D	8	CONTINUOUS	Traffic: structure: demolished / removed
V-TRAF-STRC-M	8	CONTINUOUS	Traffic: structure: moved / updated
V-TRAF-TEXT	211	SAMPLE TEXT	Traffic: text
V-UTIL-MHOL	9	CONTINUOUS	Utility: manhole (unspecified utility)
V-UTIL-MHOL-A	9	CONTINUOUS	Utility: manhole (unspecified utility): abandoned
V-UTIL-MHOL-OBSC	9	CONTINUOUS	Utility: manhole (unspecified utility): obscured
V-UTIL-VALV	8	CONTINUOUS	Utility: valve (unspecified utility)
V-UTIL-VAUL	8	CONTINUOUS	Utility: vault (unspecified utility)
V-WATR-AREA	170	CONTINUOUS	Water: area
V-WATR-AREA-TEXT	172	SAMPLE TEXT	Water: area: text
V-WATR-CASE	170	GEN-PW (COFC)	Water: casing
V-WATR-CASE-NPW~	170	CONTINUOUS	Water: casing: non-potable water system
V-WATR-CHAM	170	CONTINUOUS	Water: chamber
V-WATR-CHAM-NPW~	170	CONTINUOUS	Water: chamber: non-potable water system



SURVEY & MAPPING LAYERS (33 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-WATR-DIMS	172	CONTINUOUS	Water: dimensions
V-WATR-DIMS-NPW~	172	CONTINUOUS	Water: dimensions: non-potable water system
V-WATR-EWAT	170	CONTINUOUS	Water: edge of water
V-WATR-FEED	170	GEN-PW (COFC)	Water: feedermain
V-WATR-FEED-A	170	GEN-PW (COFC)	Water: feedermain: abandoned
V-WATR-FEED-NPW~	170	GEN-PW (COFC)	Water: feedermain: non-potable water system
V-WATR-FEED-NPW~-A	170	GEN-PW (COFC)	Water: feedermain: non-potable water system: abandoned
V-WATR-FITT	8	CONTINUOUS	Water: fitting
V-WATR-FITT-NPW~	8	CONTINUOUS	Water: fitting: non-potable water system
V-WATR-HYDT	9	CONTINUOUS	Water: hydrants
V-WATR-HYDT-FLSE	9	CONTINUOUS	Water: hydrants: false location
V-WATR-HYDT-FLSE-NPW~	9	CONTINUOUS	Water: hydrants: false location: non-potable water system
V-WATR-HYDT-LEAD	170	CONTINUOUS	Water: hydrants: leads
V-WATR-HYDT-LEAD-NPW~	170	CONTINUOUS	Water: hydrants: leads: non-potable water system
V-WATR-HYDT-NPW~	9	CONTINUOUS	Water: hydrants: non-potable water system
V-WATR-HYDT-OBSC	9	CONTINUOUS	Water: hydrants: obscured
V-WATR-HYDT-TRUE	9	CONTINUOUS	Water: hydrants: true location
V-WATR-HYDT-TRUE-NPW~	9	CONTINUOUS	Water: hydrants: true location: non-potable water system
V-WATR-HYDT-VALV	8	CONTINUOUS	Water: hydrants: valves
V-WATR-HYDT-VALV-NPW~	8	CONTINUOUS	Water: hydrants: valves: non-potable water system
V-WATR-LEVL	170	CONTINUOUS	Water: level
V-WATR-LEVL-NPW~	170	CONTINUOUS	Water: level: non-potable water system
V-WATR-MARK	170	CONTINUOUS	Water: mark
V-WATR-MARK-NPW~	170	CONTINUOUS	Water: mark: non-potable water system



SURVEY & MAPPING LAYERS (34 of 35)

LAYER NAME	COLOUR	LINETYPE/TEXT SAMPLE	DESCRIPTION
V-WATR-MHOL	9	CONTINUOUS	Water: manhole
V-WATR-MHOL-NPW~	9	CONTINUOUS	Water: manhole: non-potable water system
V-WATR-NPLT	8	CONTINUOUS	Water: no plot
V-WATR-NPLT-NPW~	8	CONTINUOUS	Water: no plot: non-potable water system
V-WATR-PIPE	170	GEN-PW (COFC)	Water: pipes
V-WATR-PIPE-A	170	GEN-PW (COFC)	Water: pipes: abandoned
V-WATR-PIPE-NPW~	170	GEN-PW (COFC)	Water: pipes: non-potable water system
V-WATR-PIPE-NPW~-A	170	GEN-PW (COFC)	Water: pipes: non-potable water system: abandoned
V-WATR-PS~~	170	CONTINUOUS	Water: pump station
V-WATR-PS~~-NPW~	170	CONTINUOUS	Water: pump station: non-potable water system
V-WATR-RES~	170	CONTINUOUS	Water: reservoir
V-WATR-RES~-NPW~	170	CONTINUOUS	Water: reservoir: non-potable water system
V-WATR-SRVC	8	CONTINUOUS	Water: services
V-WATR-SRVC-50MM	8	CONTINUOUS	Water: services: 50 mm or less
V-WATR-SRVC-NPW~	8	CONTINUOUS	Water: services: non-potable water system
V-WATR-STRC	8	CONTINUOUS	Water: structure
V-WATR-STRC-NPW~	8	CONTINUOUS	Water: structures: non-potable water system
V-WATR-TEXT	172	SAMPLE TEXT	Water: text
V-WATR-TEXT-NPW~	172	SAMPLE TEXT	Water: text: non-potable water system
V-WATR-TRCE	170	GEN-PW (COFC)	Water: traced location
V-WATR-VALV	8	CONTINUOUS	Water: valves
V-WATR-VALV-NPW~	8	CONTINUOUS	Water: valves: non-potable water system
V-WWAY	170	CONTINUOUS	Waterway
V-WWAY-BOTM	170	CONTINUOUS	Waterway: bottom

