MMCD IDS C3D 2022 Update Notes – February 2022

1. Pressure Networks
    a. Updated pressure network functionality for existing and proposed watermain
    b. Custom Content Catalog for PVC and Ductile Iron
    c. New Pipe, Fitting and Appurtenance styles and label styles
    d. Updated Command Settings
    e. New Pressure Network Catalogs
        i. MMCD_PVC
        ii. MMCD_DI
    f. New Pressure Network Parts List
        i. MMCD EX Water HDPE
        ii. MMCD EX Water PVC DI
        iii. MMCD PR Water HDPE
        iv. MMCD PR Water PVC DI
    g. New Pressure Pipe Styles
        i. PR WAT (Plan Prof Sect)
        ii. PR WAT Cross (Plan Prof Sect)
            1. Use to show Crossing Pipe Inside Wall in Profile View
        iii. EX WAT (Plan Prof Sect)
        iv. EX WAT Cross (Plan Prof Sect)
                a. Use to show Crossing Pipe Inside Wall in Profile View
    h. New Pressure Pipe Label Styles
        i. Plan Profile
            1. _<off>
            2. EX WAT Plan (Dia Mat)
            3. EX WAT Prof (Dia Mat)
            4. PR WAT Plan (Dia Mat)
            5. PR WAT Prof (Len Grad Dia Mat WAT)
                a. Uses expression to correct grade sign
            6. PR WAT Prof (LVC)
            7. PR WAT Plan Prof (Name)
                a. Use when creating tables
        ii. Crossing Section
            1. EX WAT (Dia WAT)
            2. PR WAT (Dia WAT)
        iii. Crossing Section
            1. EX WAT (Dia WAT)
            2. PR WAT (Dia WAT)
    i. New Pressure Pipe Table Style
        i. PR WAT Pipes
    j. New Pressure Network Profile View Bands
        i. Length and Grade
    k. New Pressure Network Band Set
        i. Pressure Network – EG FG Elev – Station

l. New Fitting Styles
    i. _<off>
    ii. EX WAT Bend
    iii. PR WAT Bend
    iv. PR WAT Fitting
    v. PR WAT Reducer
    vi. PR WAT Tee
m. New Fitting Label Styles
    i. _<off>
    ii. PR WAT Plan Bend (Angle Sta Coords)
    iii. PR WAT Plan Fitting (Desc)
    iv. PR WAT Plan Reducer (Desc)
    v. PR WAT Plan Tee (Desc Sta Coords)
    vi. PR WAT Prof Bend (Sta Elev Ang)
    vii. PR WAT Prof Reducer (Sta Elev Desc)
    viii. PR WAT Prof Tee (Sta Elev Desc)
n. New Fitting Table Style
    i. PR WAT Fittings
o. New Appurtenance Styles
    i. _<off>
    ii. PR WAT Appurtenance
    iii. PR WAT Hydrant
    iv. PR WAT Valve
p. New Appurtenance Label Styles
    i. _<off>
    ii. PR WAT Plan Appurtenance (Desc)
    iii. PR WAT Plan Hydrant (Coords)
    iv. PR WAT Plan Valve (Dia)
    v. PR WAT Prof Valve (Dia)
q. Pressure Network Block Definitions
        1. Solid fill add to
            a. PR Water Cross
            b. PR Water Hydrant
            c. PR Water Valve
            d. PR Water Tee
            e. PR Water Reducer
            f. PR Water Robar
            g. PR Water Valve Branch
            h. PR Water Bends

2. Gravity Networks
    a. General
        i. Station, length and elevation label style components now reference 2 decimal places
        ii. Many styles renamed to shorten the names

iii. Styles adjusted to improve dragged state performance
iv. The _<Off> structure style, which is referenced by the Null Structure in the Parts Lists, has been changed to a new _Null Structure, structure style, which shows a circle on Defpoints layer. This makes it easier to label bends with out structures and also to select the null structure to change the name.

b. Delete parts lists, object style and label styles for water, as this functionality is now available in pressure networks
c. Parts Lists
    i. Changed default structure inner dimension to 1200mm for all manholes in all parts lists
    ii. Fixed incorrect style assignment in the Parts Lists
    iii. Added MMCD PR Elec and Gas Conduit Parts List
        1. Added PR Cond Elec (Plan Prof Sect) pipe style
        2. Added PR Cond Gas (Plan Prof Sect) pipe style
d. Pipe Plan Profile Label Styles
    i. EX Comb Prof (Dia Mat Len Grade) Aligned
        1. Renamed to EX Comb Prof (Dia Mat) Aligned
        2. Updated to annotate just diameter and material
    ii. EX ByLayer Prof (Dia Mat Len Grad) Aligned
        1. Renamed to EX ByLayer Prof (Dia Mat) Aligned
        2. Updated to annotate just diameter and material
    iii. EX San Prof (Dia Mat Len Grad) Aligned
        1. Renamed to EX San Prof (Dia Mat) Aligned
        2. Updated to annotate just diameter and material
    iv. EX Stm Prof (Dia Mat Len Grad) Aligned
        1. Renamed to EX Stm Prof (Dia Mat) Aligned
        2. Updated to annotate just diameter and material
e. Pipe Crossing Profile Label Styles
    i. Styles renamed with shorter names
    ii. Better performance with dragged state
f. Structure Styles
    i. Plan view Part masking turned on
    ii. Add the following:
        1. PR San CHMB (Plan Prof Sect)
        2. PR Stm CHMB (Plan Prof Sect)
        3. PR Stm HDWALL (Plan Prof Sect)
        4. PR Stm DISCHARGE (Plan Prof Sect)
g. Structure Label Styles
    i. EX Comb Profile (Name Rim Elev Sta TOP)
        1. Renamed to EX Comb Prof (EXCMH) TOP
        2. Style reconfigured to perform better in dragged state
        3.
    ii. EX San Profile (Name Rim Elev Sta TOP)
        1. Renamed to EX Comb Prof (EXSMH) TOP

2. Style reconfigured to perform better in dragged state

iii. EX Stm Profile (Name Rim Elev Sta TOP)
1. Renamed to EX Stm Prof (EXDMH) TOP
2. Style reconfigured to perform better in dragged state

iv. Ex Comb Prof (Inv Elevs BOT)
1. Renamed to EX Comb Prof (Inv Elevs) BOT
2. Style reconfigured to perform better in dragged state

v. Ex San Prof (Inv Elevs BOT)
1. Renamed to EX San Prof (Inv Elevs) BOT
2. Style reconfigured to perform better in dragged state

3. Points and Description Keys
   a. 00 – Misc Spot and Linear Features
      i. Add BK code for Bike Rack, Misc Bike Rack point style, EX Misc Bike Rack block
      ii. Add BN code for Bench, Misc Bench point style and EX Misc Bench block
      iii. Add PR code for Parking Post, Misc Parking Post point style and EX Misc Parking Post block
      iv. Add PM code for Parking Meter, Misc Parking Meter point style and EX Misc Parking Meter block
      v. Added PPS code for Parking Pay Station, Misc Parking Pay Station point style and EX Misc Parking Pay Station block
      vi. Add GAR code for Garbage Bin, Misc Garb Bin point style and EX Misc Garb Bin block
      vii. Changed BUS* to BUS and now references Misc Bus Shelter point style, and block EX Misc Bus Shelter (BUS* used to be a linework shot, now references a symbol)
      viii. BG* (Building) changed to BLD* to eliminate conflict with BGP (Building Post)
      ix. PG* (Playground Edge) changed to PGE* to eliminate conflict with PGW (Util Power Guy Wire)
      x. RRB* (Railroad Ballast) changed to RB*
      xi. RRS (Railroad Signal) changed to RS
      xii.
   b. 01 – Roads Walks Driveways
      i. Removed CB, CBC, CBD, CBMH and CBR as these are found in 04 – Storm Sewer and Drainage
      ii. CR* (Crown) changed to CRN* to eliminate conflict with CRK* (Creek)
   c. 02 – Topography
      i. CK* (Creek) changed to CRK* to eliminate conflict with CK (Cable Kiosk)
      ii. PD* (Pond) changed to PND* to eliminate conflict with PDT* (Power Duct Traced)
      iii. RC* (Road Cut) changed to RDC* to eliminate conflict with RCK (Rock)
   d. 03 – Sanitary
      i. Add SOC for Sanitary Inspection Chamber (symbol already in DWT)
      ii. Add SVT for Sanitary Vent, San Vent point style and EX San Vent block
      iii. Add SF for Sanitary Flush, San Flush point style and EX San Flush block

iv. Add SVA, San Vlv Air point style and EX San Vlv Air block

e. 04 – Storm Sewer and Drainage
   i. Add DIC for Storm Inspection Chamber (symbol already in DWT)
   ii. Add DVT for Stm Vent, Stm Vent point style and EX Stm Vent
f. 05 – Watermain
   i. Change AV code to WVA (Water Valve Air)
   ii.
g. 06 – Survey
   i. PK (Surv PK Nail) changed to PKN to eliminate conflict with PK (Power Kiosk)
h. 07 – Utility Power
   i. The following codes were changed to change the H (which used to stand for Hydro) to P (which stands for Power). All survey codes and block names now reference P for Power.
      1. HDT* → PDT*
      2. HGW → PGW
      3. HJB → PJ
      4. HK → PK
      5. HMH → PMH
      6. HMRK → PMRK
      7. HP → PP
      8. HPD → PPD
      9. HPI* → PPI
      10. HPL → PPL
      11. HPLD → PPLD
      12. HT → PT
      13. HV → PV
   ii. Add PS, Util Powr Splice Box point style and EX Util Powr Splice Box block
   iii. Add PGN, Util Powr Gen point style and EX Util Powr Gen block
i. 08 – Utility Lighting and Signals
   i. Add LCC for Utility Lighting Cluster Crossed, Util Light Cluster Crossed point style and EX Util Light Cluster Crossed block
   ii. Add LCS for Utility Lighting Cluster Straight, Util Light Cluster Straight point style and EX Util Light Cluster Straight block
   iii. Add LMH with Util Light MH point style and EX Util Light MH block
   iv. LJB (Light Junction Box) changed to LJ
   v. LK (Light Kiosk) add which references Util Light Kiosk point style and EX Util Light Kiosk block
   vi. LV (Light Vault) add which references Util Light Vault point style and EX Util Light Vault block
   vii. Add LS with Util Light Splice Box point style and EX Util Light Splice Box block
   viii. Add LSP with Util Light Davit Signal Pole point style and EX Util Light Traf Signal Pole block
j. 10 – Utility Telephone and Cable TV
   i. CJB (Cable Junction Box) changed to CJ

ii. TJB (Telephone Junction Box) change to TJ
iii. TK* (Telephone Kiosk) changed to TK and now references point style
iv. Add TS with Util Tel Splice Box point style and EX Util Tel Splice Box block
v. Add CS with Util CTV Splice Box point style and EX Util CTV Splice Box block

k. 11 – Vegetation
    i. BL* changed to BSL* to eliminate conflict with BLO (Water Blowoff)
l. Point style names have been abbreviated

4. Alignment Styles
    a. Renamed alignment style to shorten names
    b. Deleted PR Watermain, PR Sanitary Sewer and PR Storm Drain
    c. Add PR Trail Centreline
5. Alignment Label Styles
    a. All station, length and geometry components now report the station value to 2 decimal places (was 3). Tables have been updated also
    b. Station Offset
        i. Add Int Align Sta (Drag Left) and Int Align Sta (Drag Right) to label the alignment names, stations and coordinates at the intersection of 2 alignments
        ii. Add Feat (Left) and Feat (Right) to label features to the left and right of alignments
        iii. Add LOC (Left) and LOC (Right) – these are Limit of Construction label styles that label
6. Profile Label Styles
    a. Grade Breaks
        i. Elevation components in labels now display 2 decimals (was 3)
    b. Curve
        i. Elevation components in labels now display 2 decimals (was 3)
7. Profile View Label Styles
    a. All Elevation components in labels now display 2 decimals (was 3)
    b. All Station components in labels now display 2 decimals (was 3)
    c. Band Styles
        i. All Elevation components in labels now display 2 decimals (was 3)
        ii. All Station components in labels now display 2 decimals (was 3)
8. General → Multipurpose Styles
    a. Marker Styles
        i. Offset Elevation (Plotted Sections) renamed to OS Elev (Plot Sect) and text height changed to 1.5
        ii. Offset Elevation Code (Section Editor) renamed to OS Elev Code (Sect Edit)
        iii. Offset Elevation (Section Editor) renamed to OS Elev (Sect Edit)
        iv. Added ROW (Right of Way) to be used with Section View – Profile Grades to label ROW locations
    b. Link Styles
        i. Grade (Plotted Section) renamed to Grade (Plot Sect) and text height changed to 1.5
        ii. Grade (Section Editor) renamed to Grade (Sect Edit)

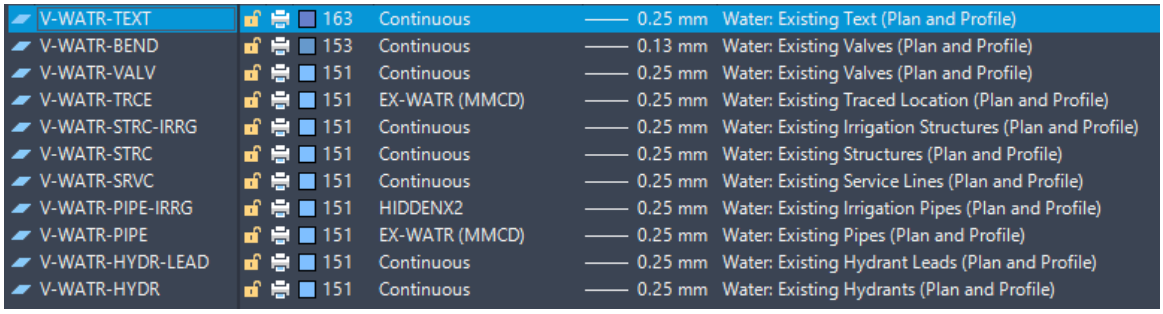
iii. Slope (Plotted Sections) renamed to Slope (Plot Sect) and text heigh changed to 1.5
iv. Slope (Section Editor) renamed to Slope (Sect Edit)

c. Shape Styles
i. Added Transparent Solid shape style for colours 1 through 8
ii. Densified dot hatching in section view for Dot shape styles

9. Block Definitions
a. Block renamed to more abbreviate yet still intuitive names
b. Renamed all blocks with suffix “Civil 3D” to suffix “C3D”
c. Renamed all blocks with suffix “AutoCAD” suffix “ACAD”
d. Renamed EX Util Junct Box to EX Util Light Junct Box
e. Add PR Stm Chamb (ACAD) and PR Stm Chamb (C3D)
f. Add PR San Chamb (ACAD) and PR San Chamb (C3D)
g. Add PR Stm MH Clean (ACAD) and PR Stm MH Clean (C3D)
h. Add PR Stm Valve Ctrl, PR San Valve Ctrl and PR Wat Valve Ctrl. These are control valves with visibility states for Enclosure and No Enclosure.
i. Add PR Stm Discharge (ACAD) and PR Stm Discharge (C3D)
j. Add PR Stm Headwall (ACAD) and PR Stm Headwall (C3D)
k. Add EX San Septic Tank and PR San Septic Tank
l. Add EX San Vent and EX Stm Vent
m. Add EX San Pig Port and PR San Pig Port (Pigging Port)
n. Add EX Util Powr Gen and PR Util Powr Gen (Generator)
o. Add EX San Flush and PR San Flush
p. Add EX San Vlv Air and PR San Vlv Air
q. Add EX Misc Bike Rack
r. Add EX Misc Bench
s. Add EX Misc Gate (non annotative with visibility states for person and vehicle)
t. Add EX Misc Parking Post
u. Add EX Misc Parking Pay Station
v. Add EX Misc Parking Meter
w. Add EX Util Light Cluster Crossed
x. Add EX Util Light Cluster Straight
y. Add EX Util Light MH
z. Add EX Util Light Kiosk
aa. Add EX Util Tel Kiosk
bb. Add EX Util Light Vault
cc. Add EX Util Powr Splice Box
dd. Add EX Util Light Splice Box
ee. Add EX Util CTV Splice Box
ff. Add EX Util Tel Splice Box
gg. Edit EX Util Light Junct Box to change J to LJ
hh. Edit EX Util Powr Junct Box to change J to PJ
ii. Edit EX Util Tel Junct Box to change J to TJ
jj. Edit EX Misc Sign to reduce size and simplify the block

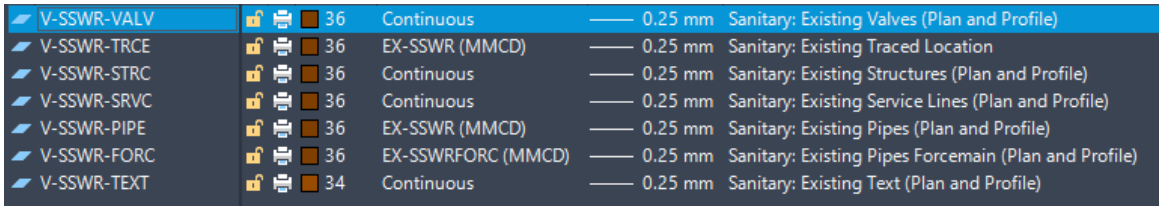
kk. Edit PR Misc Sign to reduce size and simplify the block
ll. All EX Util Powr* blocks with letter H inside the block (which stood for Hydro) have now been updated to change the letter H to a letter P (for Power)
mm. Add PR Misc Gate (Dynamic and non-annotative)
nn. Deleted PR Sanitary Cleanout
oo. Deleted PR Water Bend 11.25, PR Water Bend 22.5, PR Water Bend 45, PR Water Bend 90 as these have been replaced with dynamic block PR Water Bends (visibility states for bend angle)
pp. Deleted EX Water Bend 11.25, EX Water Bend 22.5, EX Water Bend 45 and EX Water Bend 90 as these have been replaced with dynamic block EX Water Bends (visibility states for bend angle)
qq. PR San Valve add solid hatch
rr. PR San Srvc Clean Prof add solid hatch

10. Layers, Colours and CTB
    a. Layer Groups renamed to be more abbreviated
    b. Lineweights assigned to all layers to match those assigned in CTB
    c. Some layer colours and lineweights adjusted for better visibility and to align properly with CTB
    d. Renamed V-ROAD-BVLD to V-ROAD-BLVD
    e. CTB updates to help better distinguish underground and to align with lineweights assigned to layers
    f. MMCD Colour with Black Annotation.ctb updated so all annotations are black / grey and every other colour plots the colour. This also warranted layer colour adjustments to TEXT and ANNO layers.
    g. Deleted C-COMB-* layers (proposed combined sanitary and storm)
    h. Consolidate proposed sanitary structure layers to C-SSWR-STRC
        i. Delete C-SSWR-VALV
    i. New layers
        i. V-WATR-BEND w/colour 153 (60% screen 0.13mm LW) for part display
        ii. C-WATR-AREA assigned DASHED2 linetype
        iii. C-WATR-PIPE-CASE, C-SSWR-PIPE-CASE and C-DRAN-PIPE CASE for pipe casings
        iv. C-ROAD-SHAP-TRAN for transparent shape styles
        v. V-WATR-PIPE-IRRG, V-WATR-STRC-IRRG, C-WATR-PIPE-IRRG, C-WATR-STRC-IRRG for irrigation
        vi. R-WATR-PIPE-IRRG, R-WATR-STRC-IRRG (Existing Recorded Assets)
    j. V-PROP-ESMT and C-PROP-ESMT have been assigned linetype HIDDEN2
    k. All C3D* layers (Object Layers) renamed to _C3D* for better sorting
    l. EX Watermain V-WATR-* layer colours and lineweights adjusted to provide better differentiation between existing and proposed watermain



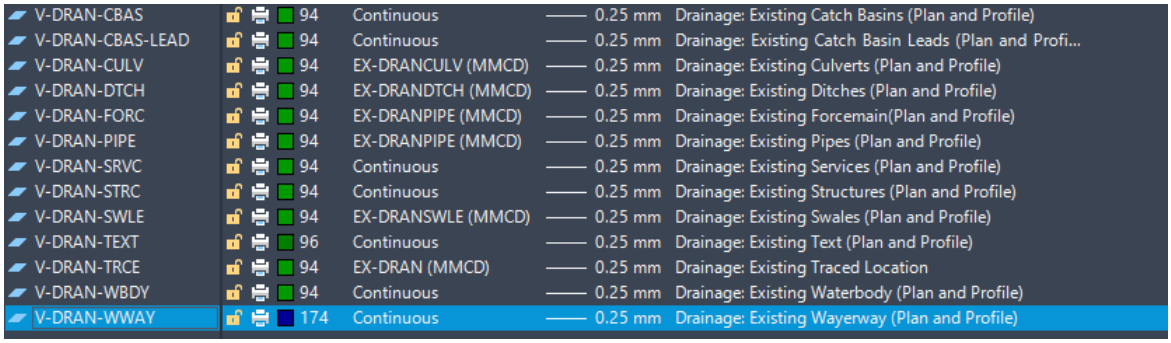
V-WATR-TEXT	163	Continuous	0.25 mm	Water: Existing Text (Plan and Profile)
V-WATR-BEND	153	Continuous	0.13 mm	Water: Existing Valves (Plan and Profile)
V-WATR-VALV	151	Continuous	0.25 mm	Water: Existing Valves (Plan and Profile)
V-WATR-TRCE	151	EX-WATR (MMCD)	0.25 mm	Water: Existing Traced Location (Plan and Profile)
V-WATR-STRC-IRRG	151	Continuous	0.25 mm	Water: Existing Irrigation Structures (Plan and Profile)
V-WATR-STRC	151	Continuous	0.25 mm	Water: Existing Structures (Plan and Profile)
V-WATR-SRVC	151	Continuous	0.25 mm	Water: Existing Service Lines (Plan and Profile)
V-WATR-PIPE-IRRG	151	HIDDENX2	0.25 mm	Water: Existing Irrigation Pipes (Plan and Profile)
V-WATR-PIPE	151	EX-WATR (MMCD)	0.25 mm	Water: Existing Pipes (Plan and Profile)
V-WATR-HYDR-LEAD	151	Continuous	0.25 mm	Water: Existing Hydrant Leads (Plan and Profile)
V-WATR-HYDR	151	Continuous	0.25 mm	Water: Existing Hydrants (Plan and Profile)

m. EX Sanitary V-SSWR* layers changed to colour 36 (60% screen 0.13mm LW) for better differentiation between existing and proposed SSWR



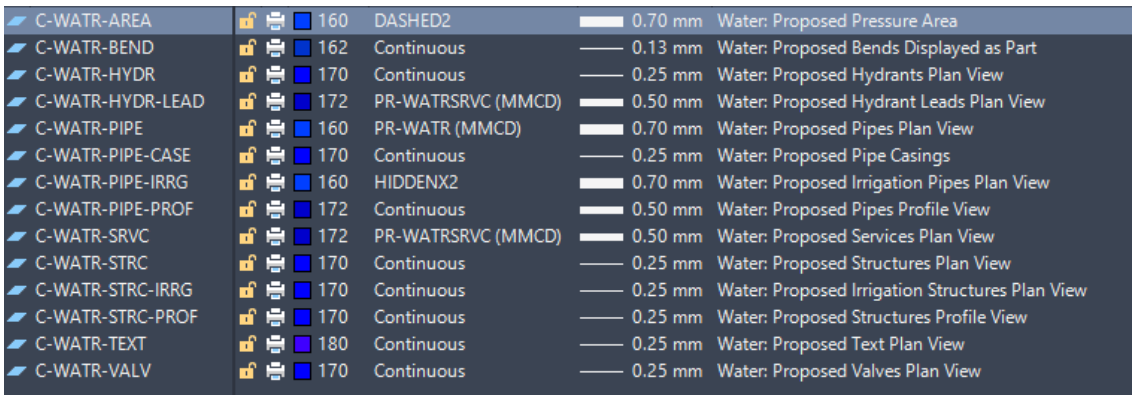
V-SSWR-VALV	36	Continuous	0.25 mm	Sanitary: Existing Valves (Plan and Profile)
V-SSWR-TRCE	36	EX-SSWR (MMCD)	0.25 mm	Sanitary: Existing Traced Location
V-SSWR-STRC	36	Continuous	0.25 mm	Sanitary: Existing Structures (Plan and Profile)
V-SSWR-SRVC	36	Continuous	0.25 mm	Sanitary: Existing Service Lines (Plan and Profile)
V-SSWR-PIPE	36	EX-SSWR (MMCD)	0.25 mm	Sanitary: Existing Pipes (Plan and Profile)
V-SSWR-FORC	36	EX-SSWRFORC (MMCD)	0.25 mm	Sanitary: Existing Pipes Forcemain (Plan and Profile)
V-SSWR-TEXT	34	Continuous	0.25 mm	Sanitary: Existing Text (Plan and Profile)

n. EX Drainage V-DRAN* layers



V-DRAN-CBAS	94	Continuous	0.25 mm	Drainage: Existing Catch Basins (Plan and Profile)
V-DRAN-CBAS-LEAD	94	Continuous	0.25 mm	Drainage: Existing Catch Basin Leads (Plan and Profi...
V-DRAN-CULV	94	EX-DRANCULV (MMCD)	0.25 mm	Drainage: Existing Culverts (Plan and Profile)
V-DRAN-DTCH	94	EX-DRANDTCH (MMCD)	0.25 mm	Drainage: Existing Ditches (Plan and Profile)
V-DRAN-FORC	94	EX-DRANPIPE (MMCD)	0.25 mm	Drainage: Existing Forcemain(Plan and Profile)
V-DRAN-PIPE	94	EX-DRANPIPE (MMCD)	0.25 mm	Drainage: Existing Pipes (Plan and Profile)
V-DRAN-SRVC	94	Continuous	0.25 mm	Drainage: Existing Services (Plan and Profile)
V-DRAN-STRC	94	Continuous	0.25 mm	Drainage: Existing Structures (Plan and Profile)
V-DRAN-SWLE	94	EX-DRANSWLE (MMCD)	0.25 mm	Drainage: Existing Swales (Plan and Profile)
V-DRAN-TEXT	96	Continuous	0.25 mm	Drainage: Existing Text (Plan and Profile)
V-DRAN-TRCE	94	EX-DRAN (MMCD)	0.25 mm	Drainage: Existing Traced Location
V-DRAN-WBDY	94	Continuous	0.25 mm	Drainage: Existing Waterbody (Plan and Profile)
V-DRAN-WWAY	174	Continuous	0.25 mm	Drainage: Existing Wayerway (Plan and Profile)

o. PR Watermain C-WATR-* layers colours adjusted for better lineweight plotting control



C-WATR-AREA	160	DASHED2	0.70 mm	Water: Proposed Pressure Area
C-WATR-BEND	162	Continuous	0.13 mm	Water: Proposed Bends Displayed as Part
C-WATR-HYDR	170	Continuous	0.25 mm	Water: Proposed Hydrants Plan View
C-WATR-HYDR-LEAD	172	PR-WATRSRVC (MMCD)	0.50 mm	Water: Proposed Hydrant Leads Plan View
C-WATR-PIPE	160	PR-WATR (MMCD)	0.70 mm	Water: Proposed Pipes Plan View
C-WATR-PIPE-CASE	170	Continuous	0.25 mm	Water: Proposed Pipe Casings
C-WATR-PIPE-IRRG	160	HIDDENX2	0.70 mm	Water: Proposed Irrigation Pipes Plan View
C-WATR-PIPE-PROF	172	Continuous	0.50 mm	Water: Proposed Pipes Profile View
C-WATR-SRVC	172	PR-WATRSRVC (MMCD)	0.50 mm	Water: Proposed Services Plan View
C-WATR-STRC	170	Continuous	0.25 mm	Water: Proposed Structures Plan View
C-WATR-STRC-IRRG	170	Continuous	0.25 mm	Water: Proposed Irrigation Structures Plan View
C-WATR-STRC-PROF	170	Continuous	0.25 mm	Water: Proposed Structures Profile View
C-WATR-TEXT	180	Continuous	0.25 mm	Water: Proposed Text Plan View
C-WATR-VALV	170	Continuous	0.25 mm	Water: Proposed Valves Plan View

p. PR Sanitary C-SSWR-* layers colours adjusted for better lineweight plotting control

C-SSWR-AREA	22	DASHED2	0.70 mm	Sanitary Sewer: Proposed Area
C-SSWR-FORC	22	PR-SSWRFORC (MMCD)	0.70 mm	Sanitary Sewer: Proposed Forceman Plan
C-SSWR-FORC-PROF	20	Continuous	0.50 mm	Sanitary Sewer: Proposed Forcemain Profile
C-SSWR-PIPE	22	PR-SSWR (MMCD)	0.70 mm	Sanitary Sewer: Proposed Pipes Plan View
C-SSWR-PIPE-CASE	10	Continuous	0.25 mm	Sanitary Sewer: Proposed Pipe Casing
C-SSWR-PIPE-PROF	20	Continuous	0.50 mm	Sanitary Sewer: Proposed Pipes Profile View
C-SSWR-SRVC	20	PR-SSWRSRVC (MMCD)	0.50 mm	Sanitary Sewer: Proposed Service Lines Plan View
C-SSWR-STRC	10	Continuous	0.25 mm	Sanitary Sewer: Proposed Structures Plan View
C-SSWR-STRC-PROF	10	Continuous	0.25 mm	Sanitary Sewer: Proposed Structures Profile View
C-SSWR-TEXT	14	Continuous	0.25 mm	Sanitary Sewer: Proposed Text
C-SSWR-VALV	10	Continuous	0.25 mm	Sanitary Sewer: Proposed Structures Plan View

q. C-DRAN-* layers colours adjusted for better lineweight plotting control

C-DRAN-AREA	100	DASHED2	0.70 mm	Drainage: Proposed Catchment Area
C-DRAN-CBAS	92	Continuous	0.25 mm	Drainage: Proposed Catch Basins Plan View
C-DRAN-CBAS-LEAD	90	PR-DRANSRVC (MMCD)	0.50 mm	Drainage: Proposed Catch Basin Leads Plan View
C-DRAN-CULV	100	PR-DRANCULV (MMCD)	0.70 mm	Drainage: Proposed Culverts Plan View
C-DRAN-DTCH	90	PR-DRANDTCH (MMCD)	0.50 mm	Drainage: Proposed Ditches Plan View
C-DRAN-FORC	100	PR-DRANPIPE (MMCD)	0.70 mm	Drainage: Proposed Pipes Plan View
C-DRAN-FORC-PROF	90	Continuous	0.50 mm	Drainage: Proposed Pipes Profile View
C-DRAN-PIPE	100	PR-DRANPIPE (MMCD)	0.70 mm	Drainage: Proposed Forcemain Plan View
C-DRAN-PIPE-CASE	92	Continuous	0.25 mm	Drainage: Proposed Pipe Casing
C-DRAN-PIPE-PROF	90	Continuous	0.50 mm	Drainage: Proposed Forcemain Profile View
C-DRAN-SRVC	90	PR-DRANSRVC (MMCD)	0.50 mm	Drainage: Proposed Services Plan View
C-DRAN-STRC	92	Continuous	0.25 mm	Drainage: Proposed Structures Plan View
C-DRAN-STRC-PROF	92	Continuous	0.25 mm	Drainage: Proposed Structures Profile View
C-DRAN-SWLE	90	PR-DRANSWLE (MMCD)	0.50 mm	Drainage: Proposed Swale Plan View
C-DRAN-TEXT	82	Continuous	0.25 mm	Drainage: Proposed Text Plan View
C-DRAN-WBDY	90	Continuous	0.50 mm	Drainage: Proposed Waterbody Plan View
C-DRAN-WWAY	90	Continuous	0.50 mm	Drainage: Proposed Waterway Plan View

r. EX Survey V-SURV-* layer colours and lineweights

V-SURV-CTRL	210	Continuous	0.25 mm	Survey Control Monuments and Traverse Stations
V-SURV-EVDC	210	Continuous	0.25 mm	Survey: Survey Evidence, IP's, Wood Posts, I Pipes, etc
V-SURV-GONE	210	Continuous	0.25 mm	Survey: Destroyed Monuments and Traverse Stations
V-SURV-INFO	210	Continuous	0.25 mm	Survey: Control Text - Pnt Type, Accuracy, Info etc
V-SURV-PNTS	210	Continuous	0.25 mm	Survey: Points (C3D)
V-SURV-TEXT	212	Continuous	0.25 mm	Survey: Text and Annotation

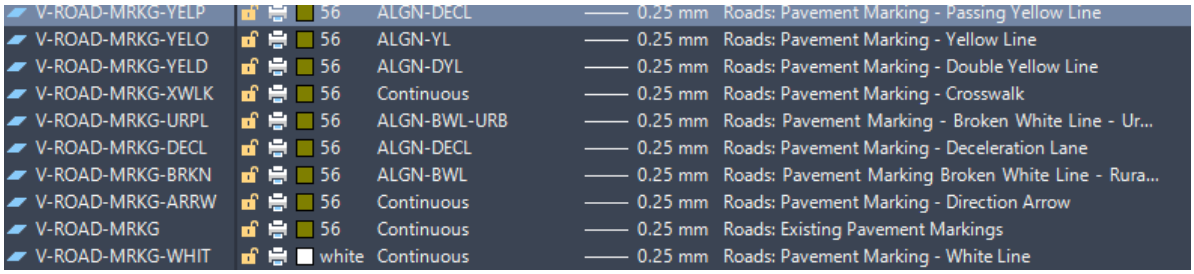
s. EX Combined V-COMB-* layer colours and lineweights

V-COMB-PIPE	224	EX-COMB (MMCD)	0.25 mm	Combined: Existing Pipe (Plan and Profile)
V-COMB-SRVC	224	Continuous	0.25 mm	Combined: Existing Service (Plan and Profile)
V-COMB-STRC	224	Continuous	0.25 mm	Combined: Existing Structures (Plan and Profile)
V-COMB-TEXT	226	Continuous	0.25 mm	Combined: Existing Text (Plan and Profile)

t. EX Property V-PROP-* layer colours and lineweights

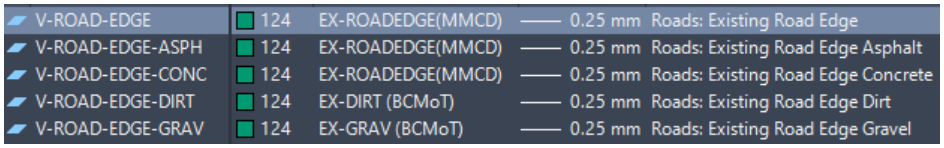
V-PROP-BNDY	35	Continuous	0.25 mm	Property: Existing Boundaries
V-PROP-BNDY-MUNI	35	Continuous	0.25 mm	Property: Municipal Boundaries
V-PROP-ESMT	35	HIDDEN2	0.25 mm	Property: Existing Easements
V-PROP-LOTS	35	Continuous	0.25 mm	Property: Existing Lots
V-PROP-ROW~	35	EX-ROW (MMCD)	0.25 mm	Property: Existing ROW's
V-PROP-TEXT	25	Continuous	0.25 mm	Property: Existing Address, Area, ID Text

u. EX Roads Markings V-ROAD-MRKG* layer colours and lineweights



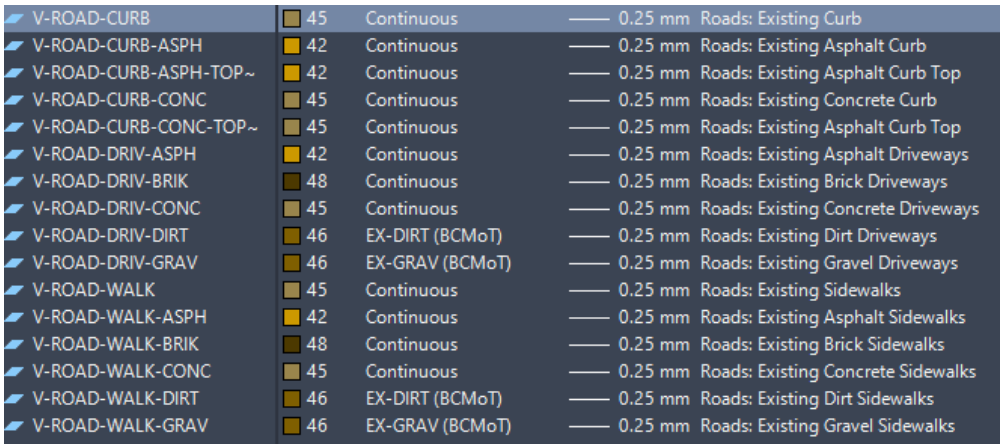
V-ROAD-MRKG-YELP	56	ALGN-DECL	0.25 mm	Roads: Pavement Marking - Passing Yellow Line
V-ROAD-MRKG-YELO	56	ALGN-YL	0.25 mm	Roads: Pavement Marking - Yellow Line
V-ROAD-MRKG-YELD	56	ALGN-DYL	0.25 mm	Roads: Pavement Marking - Double Yellow Line
V-ROAD-MRKG-XWLK	56	Continuous	0.25 mm	Roads: Pavement Marking - Crosswalk
V-ROAD-MRKG-URPL	56	ALGN-BWL-URB	0.25 mm	Roads: Pavement Marking - Broken White Line - Ur...
V-ROAD-MRKG-DECL	56	ALGN-DECL	0.25 mm	Roads: Pavement Marking - Deceleration Lane
V-ROAD-MRKG-BRKN	56	ALGN-BWL	0.25 mm	Roads: Pavement Marking Broken White Line - Rura...
V-ROAD-MRKG-ARRW	56	Continuous	0.25 mm	Roads: Pavement Marking - Direction Arrow
V-ROAD-MRKG	56	Continuous	0.25 mm	Roads: Existing Pavement Markings
V-ROAD-MRKG-WHIT	white	Continuous	0.25 mm	Roads: Pavement Marking - White Line

v. EX Roads Edges V-ROAD-EDGE* layer colours and lineweights



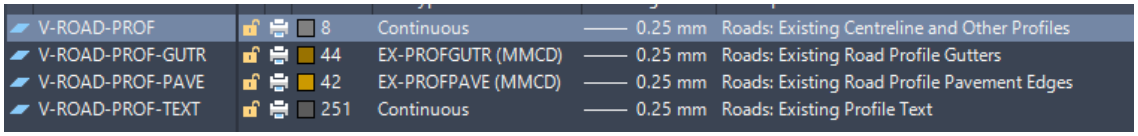
V-ROAD-EDGE	124	EX-ROADEDGE(MMCD)	0.25 mm	Roads: Existing Road Edge
V-ROAD-EDGE-ASPH	124	EX-ROADEDGE(MMCD)	0.25 mm	Roads: Existing Road Edge Asphalt
V-ROAD-EDGE-CONC	124	EX-ROADEDGE(MMCD)	0.25 mm	Roads: Existing Road Edge Concrete
V-ROAD-EDGE-DIRT	124	EX-DIRT (BCMoT)	0.25 mm	Roads: Existing Road Edge Dirt
V-ROAD-EDGE-GRAV	124	EX-GRAV (BCMoT)	0.25 mm	Roads: Existing Road Edge Gravel

w. EX Roads SW CG DW, V-ROAD-WALK*, V-ROAD-CURB*, V-ROAD-DRIV* layer colours and lineweights



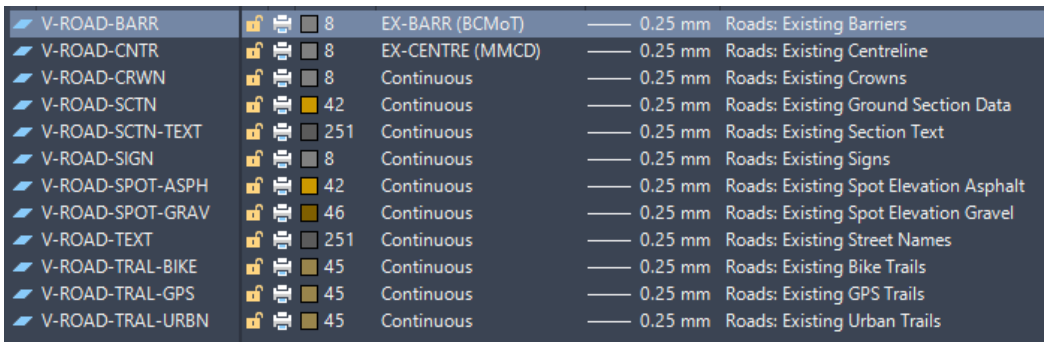
V-ROAD-CURB	45	Continuous	0.25 mm	Roads: Existing Curb
V-ROAD-CURB-ASPH	42	Continuous	0.25 mm	Roads: Existing Asphalt Curb
V-ROAD-CURB-ASPH-TOP~	42	Continuous	0.25 mm	Roads: Existing Asphalt Curb Top
V-ROAD-CURB-CONC	45	Continuous	0.25 mm	Roads: Existing Concrete Curb
V-ROAD-CURB-CONC-TOP~	45	Continuous	0.25 mm	Roads: Existing Asphalt Curb Top
V-ROAD-DRIV-ASPH	42	Continuous	0.25 mm	Roads: Existing Asphalt Driveways
V-ROAD-DRIV-BRIK	48	Continuous	0.25 mm	Roads: Existing Brick Driveways
V-ROAD-DRIV-CONC	45	Continuous	0.25 mm	Roads: Existing Concrete Driveways
V-ROAD-DRIV-DIRT	46	EX-DIRT (BCMoT)	0.25 mm	Roads: Existing Dirt Driveways
V-ROAD-DRIV-GRAV	46	EX-GRAV (BCMoT)	0.25 mm	Roads: Existing Gravel Driveways
V-ROAD-WALK	45	Continuous	0.25 mm	Roads: Existing Sidewalks
V-ROAD-WALK-ASPH	42	Continuous	0.25 mm	Roads: Existing Asphalt Sidewalks
V-ROAD-WALK-BRIK	48	Continuous	0.25 mm	Roads: Existing Brick Sidewalks
V-ROAD-WALK-CONC	45	Continuous	0.25 mm	Roads: Existing Concrete Sidewalks
V-ROAD-WALK-DIRT	46	EX-DIRT (BCMoT)	0.25 mm	Roads: Existing Dirt Sidewalks
V-ROAD-WALK-GRAV	46	EX-GRAV (BCMoT)	0.25 mm	Roads: Existing Gravel Sidewalks

x. EX Roads Profile V-ROAD-PROF* layer colours and lineweights



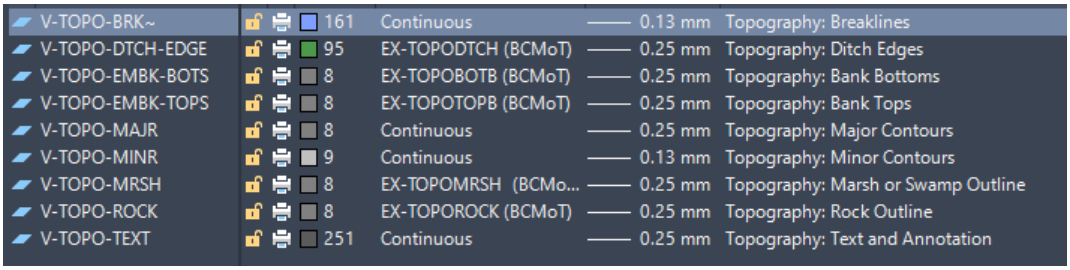
V-ROAD-PROF	8	Continuous	0.25 mm	Roads: Existing Centreline and Other Profiles
V-ROAD-PROF-GUTR	44	EX-PROFGUTR (MMCD)	0.25 mm	Roads: Existing Road Profile Gutters
V-ROAD-PROF-PAVE	42	EX-PROFPAVE (MMCD)	0.25 mm	Roads: Existing Road Profile Pavement Edges
V-ROAD-PROF-TEXT	251	Continuous	0.25 mm	Roads: Existing Profile Text

y. EX Roads z_Other layer colours and lineweights



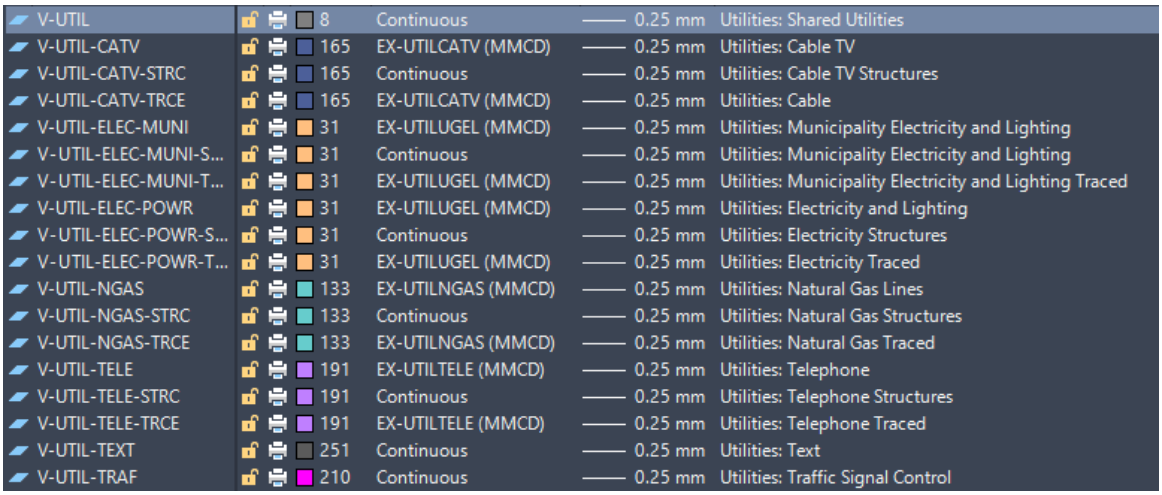
V-ROAD-BARR	8	EX-BARR (BCMoT)	0.25 mm	Roads: Existing Barriers
V-ROAD-CNTR	8	EX-CENTRE (MMCD)	0.25 mm	Roads: Existing Centreline
V-ROAD-CRWN	8	Continuous	0.25 mm	Roads: Existing Crowns
V-ROAD-SCTN	42	Continuous	0.25 mm	Roads: Existing Ground Section Data
V-ROAD-SCTN-TEXT	251	Continuous	0.25 mm	Roads: Existing Section Text
V-ROAD-SIGN	8	Continuous	0.25 mm	Roads: Existing Signs
V-ROAD-SPOT-ASPH	42	Continuous	0.25 mm	Roads: Existing Spot Elevation Asphalt
V-ROAD-SPOT-GRAV	46	Continuous	0.25 mm	Roads: Existing Spot Elevation Gravel
V-ROAD-TEXT	251	Continuous	0.25 mm	Roads: Existing Street Names
V-ROAD-TRAL-BIKE	45	Continuous	0.25 mm	Roads: Existing Bike Trails
V-ROAD-TRAL-GPS	45	Continuous	0.25 mm	Roads: Existing GPS Trails
V-ROAD-TRAL-URBN	45	Continuous	0.25 mm	Roads: Existing Urban Trails

z. EX Topography V-TOPO* layer colours and lineweights



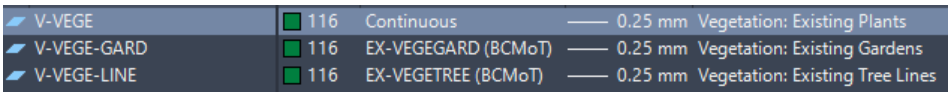
V-TOPO-BRK~	161	Continuous	0.13 mm	Topography: Breaklines
V-TOPO-DTCH-EDGE	95	EX-TOPODTCH (BCMoT)	0.25 mm	Topography: Ditch Edges
V-TOPO-EMBK-BOTS	8	EX-TOPOBOTB (BCMoT)	0.25 mm	Topography: Bank Bottoms
V-TOPO-EMBK-TOPS	8	EX-TOPOTOPB (BCMoT)	0.25 mm	Topography: Bank Tops
V-TOPO-MAJR	8	Continuous	0.25 mm	Topography: Major Contours
V-TOPO-MINR	9	Continuous	0.13 mm	Topography: Minor Contours
V-TOPO-MRSH	8	EX-TOPOMRSH (BCMo...	0.25 mm	Topography: Marsh or Swamp Outline
V-TOPO-ROCK	8	EX-TOPOROCK (BCMoT)	0.25 mm	Topography: Rock Outline
V-TOPO-TEXT	251	Continuous	0.25 mm	Topography: Text and Annotation

aa. EX Utilities V-UTIL* layer colours and lineweights



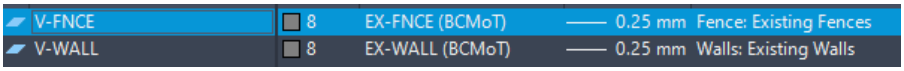
V-UTIL	8	Continuous	0.25 mm	Utilities: Shared Utilities
V-UTIL-CATV	165	EX-UTILCATV (MMCD)	0.25 mm	Utilities: Cable TV
V-UTIL-CATV-STRC	165	Continuous	0.25 mm	Utilities: Cable TV Structures
V-UTIL-CATV-TRCE	165	EX-UTILCATV (MMCD)	0.25 mm	Utilities: Cable
V-UTIL-ELEC-MUNI	31	EX-UTILUGEL (MMCD)	0.25 mm	Utilities: Municipality Electricity and Lighting
V-UTIL-ELEC-MUNI-S...	31	Continuous	0.25 mm	Utilities: Municipality Electricity and Lighting
V-UTIL-ELEC-MUNI-T...	31	EX-UTILUGEL (MMCD)	0.25 mm	Utilities: Municipality Electricity and Lighting Traced
V-UTIL-ELEC-POWR	31	EX-UTILUGEL (MMCD)	0.25 mm	Utilities: Electricity and Lighting
V-UTIL-ELEC-POWR-S...	31	Continuous	0.25 mm	Utilities: Electricity Structures
V-UTIL-ELEC-POWR-T...	31	EX-UTILUGEL (MMCD)	0.25 mm	Utilities: Electricity Traced
V-UTIL-NGAS	133	EX-UTILNGAS (MMCD)	0.25 mm	Utilities: Natural Gas Lines
V-UTIL-NGAS-STRC	133	Continuous	0.25 mm	Utilities: Natural Gas Structures
V-UTIL-NGAS-TRCE	133	EX-UTILNGAS (MMCD)	0.25 mm	Utilities: Natural Gas Traced
V-UTIL-TELE	191	EX-UTILTELE (MMCD)	0.25 mm	Utilities: Telephone
V-UTIL-TELE-STRC	191	Continuous	0.25 mm	Utilities: Telephone Structures
V-UTIL-TELE-TRCE	191	EX-UTILTELE (MMCD)	0.25 mm	Utilities: Telephone Traced
V-UTIL-TEXT	251	Continuous	0.25 mm	Utilities: Text
V-UTIL-TRAF	210	Continuous	0.25 mm	Utilities: Traffic Signal Control

bb. EX Vegetation V-VEGE* layer colours and lineweights



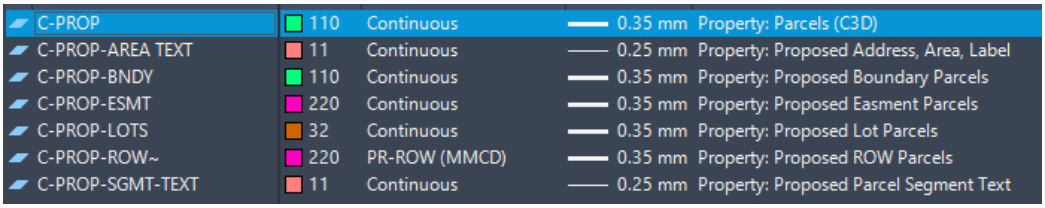
V-VEGE	116	Continuous	0.25 mm	Vegetation: Existing Plants
V-VEGE-GARD	116	EX-VEGEGARD (BCMoT)	0.25 mm	Vegetation: Existing Gardens
V-VEGE-LINE	116	EX-VEGETREE (BCMoT)	0.25 mm	Vegetation: Existing Tree Lines

cc. EX Walls Fences Barriers V-FNCE and V-WALL layer colours and lineweights



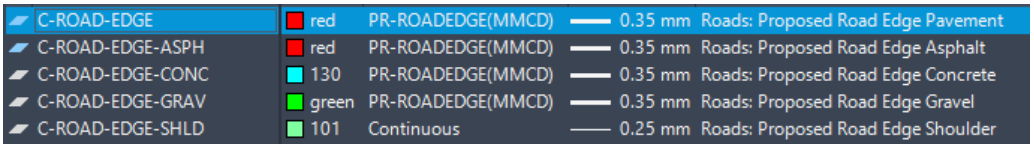
V-FNCE	8	EX-FNCE (BCMoT)	0.25 mm	Fence: Existing Fences
V-WALL	8	EX-WALL (BCMoT)	0.25 mm	Walls: Existing Walls

dd. PR Property C-PROP* layer colours and lineweights



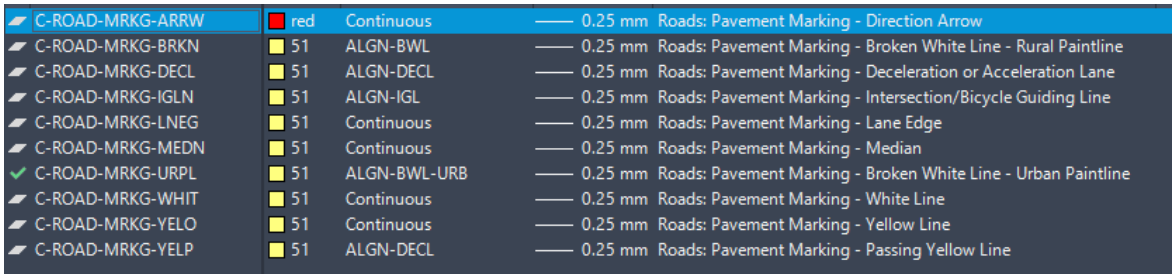
C-PROP	110	Continuous	0.35 mm	Property: Parcels (C3D)
C-PROP-AREA TEXT	11	Continuous	0.25 mm	Property: Proposed Address, Area, Label
C-PROP-BNDY	110	Continuous	0.35 mm	Property: Proposed Boundary Parcels
C-PROP-ESMT	220	Continuous	0.35 mm	Property: Proposed Easment Parcels
C-PROP-LOTS	32	Continuous	0.35 mm	Property: Proposed Lot Parcels
C-PROP-ROW~	220	PR-ROW (MMCD)	0.35 mm	Property: Proposed ROW Parcels
C-PROP-SGMT-TEXT	11	Continuous	0.25 mm	Property: Proposed Parcel Segment Text

ee. PR Roads Edges C-ROAD-EDGE* layer colours and lineweights



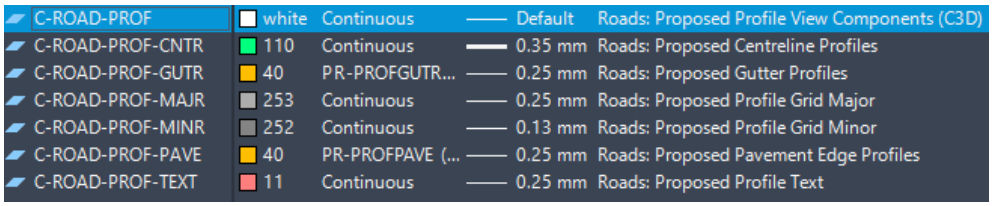
C-ROAD-EDGE	red	PR-ROADEDGE(MMCD)	0.35 mm	Roads: Proposed Road Edge Pavement
C-ROAD-EDGE-ASPH	red	PR-ROADEDGE(MMCD)	0.35 mm	Roads: Proposed Road Edge Asphalt
C-ROAD-EDGE-CONC	130	PR-ROADEDGE(MMCD)	0.35 mm	Roads: Proposed Road Edge Concrete
C-ROAD-EDGE-GRAV	green	PR-ROADEDGE(MMCD)	0.35 mm	Roads: Proposed Road Edge Gravel
C-ROAD-EDGE-SHLD	101	Continuous	0.25 mm	Roads: Proposed Road Edge Shoulder

ff. PR Roads Markings C-ROAD-MRKG* layer colours and lineweights



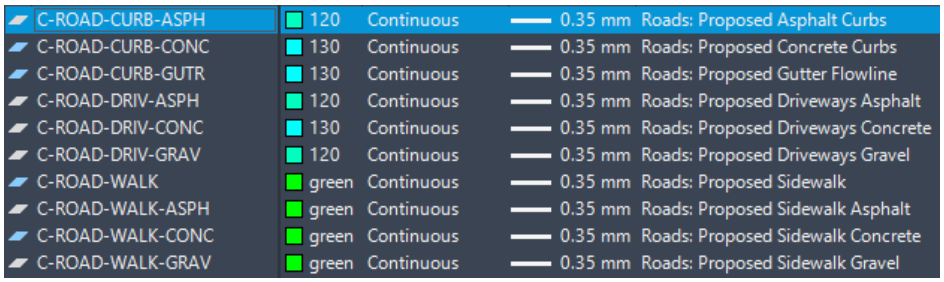
C-ROAD-MRKG-ARRW	red	Continuous	0.25 mm	Roads: Pavement Marking - Direction Arrow
C-ROAD-MRKG-BRKN	51	ALGN-BWL	0.25 mm	Roads: Pavement Marking - Broken White Line - Rural Paintline
C-ROAD-MRKG-DECL	51	ALGN-DECL	0.25 mm	Roads: Pavement Marking - Deceleration or Acceleration Lane
C-ROAD-MRKG-IGLN	51	ALGN-IGL	0.25 mm	Roads: Pavement Marking - Intersection/Bicycle Guiding Line
C-ROAD-MRKG-LNEG	51	Continuous	0.25 mm	Roads: Pavement Marking - Lane Edge
C-ROAD-MRKG-MEDN	51	Continuous	0.25 mm	Roads: Pavement Marking - Median
C-ROAD-MRKG-URPL	51	ALGN-BWL-URB	0.25 mm	Roads: Pavement Marking - Broken White Line - Urban Paintline
C-ROAD-MRKG-WHIT	51	Continuous	0.25 mm	Roads: Pavement Marking - White Line
C-ROAD-MRKG-YELO	51	Continuous	0.25 mm	Roads: Pavement Marking - Yellow Line
C-ROAD-MRKG-YELP	51	ALGN-DECL	0.25 mm	Roads: Pavement Marking - Passing Yellow Line

gg. PR Roads Profile C-ROAD-PROF* layer colours and lineweights



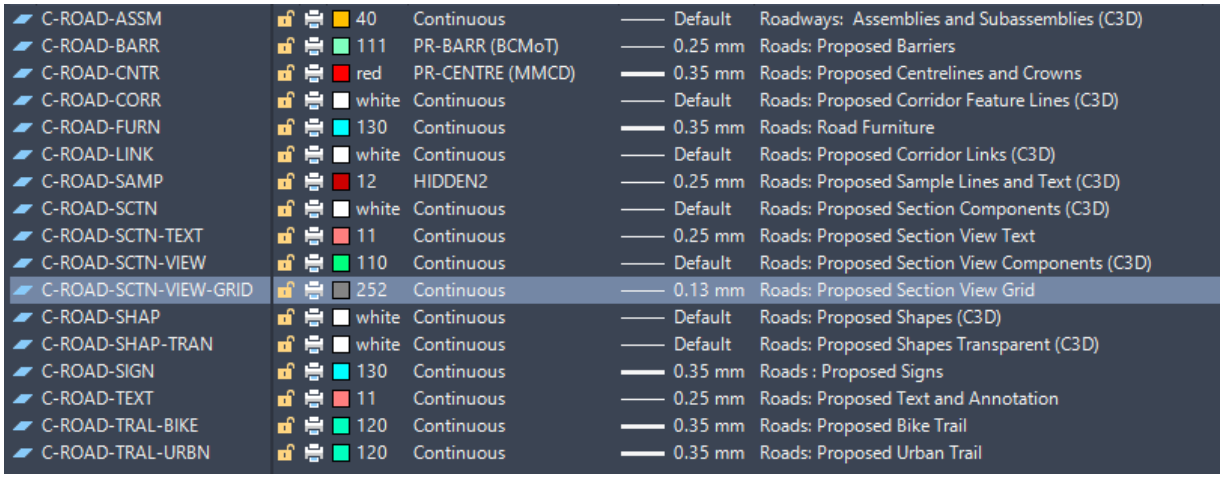
C-ROAD-PROF	white	Continuous	Default	Roads: Proposed Profile View Components (C3D)
C-ROAD-PROF-CNTR	110	Continuous	0.35 mm	Roads: Proposed Centreline Profiles
C-ROAD-PROF-GUTR	40	PR-PROFGUTR...	0.25 mm	Roads: Proposed Gutter Profiles
C-ROAD-PROF-MAJR	253	Continuous	0.25 mm	Roads: Proposed Profile Grid Major
C-ROAD-PROF-MINR	252	Continuous	0.13 mm	Roads: Proposed Profile Grid Minor
C-ROAD-PROF-PAVE	40	PR-PROFPAVE (...	0.25 mm	Roads: Proposed Pavement Edge Profiles
C-ROAD-PROF-TEXT	11	Continuous	0.25 mm	Roads: Proposed Profile Text

hh. PR Roads SW CG DW, C-ROAD-WALK*, C-ROAD-CURB*, C-ROAD-DRIVE* layer colours and lineweights



C-ROAD-CURB-ASPH	120	Continuous	0.35 mm	Roads: Proposed Asphalt Curbs
C-ROAD-CURB-CONC	130	Continuous	0.35 mm	Roads: Proposed Concrete Curbs
C-ROAD-CURB-GUTR	130	Continuous	0.35 mm	Roads: Proposed Gutter Flowline
C-ROAD-DRIV-ASPH	120	Continuous	0.35 mm	Roads: Proposed Driveways Asphalt
C-ROAD-DRIV-CONC	130	Continuous	0.35 mm	Roads: Proposed Driveways Concrete
C-ROAD-DRIV-GRAV	120	Continuous	0.35 mm	Roads: Proposed Driveways Gravel
C-ROAD-WALK	green	Continuous	0.35 mm	Roads: Proposed Sidewalk
C-ROAD-WALK-ASPH	green	Continuous	0.35 mm	Roads: Proposed Sidewalk Asphalt
C-ROAD-WALK-CONC	green	Continuous	0.35 mm	Roads: Proposed Sidewalk Concrete
C-ROAD-WALK-GRAV	green	Continuous	0.35 mm	Roads: Proposed Sidewalk Gravel

ii. PR Roads z_Other layer colours and lineweights



C-ROAD-ASSM	40	Continuous	Default	Roadways: Assemblies and Subassemblies (C3D)
C-ROAD-BARR	111	PR-BARR (BCMoT)	0.25 mm	Roads: Proposed Barriers
C-ROAD-CNTR	red	PR-CENTRE (MMCD)	0.35 mm	Roads: Proposed Centrelines and Crowns
C-ROAD-CORR	white	Continuous	Default	Roads: Proposed Corridor Feature Lines (C3D)
C-ROAD-FURN	130	Continuous	0.35 mm	Roads: Road Furniture
C-ROAD-LINK	white	Continuous	Default	Roads: Proposed Corridor Links (C3D)
C-ROAD-SAMP	12	HIDDEN2	0.25 mm	Roads: Proposed Sample Lines and Text (C3D)
C-ROAD-SCTN	white	Continuous	Default	Roads: Proposed Section Components (C3D)
C-ROAD-SCTN-TEXT	11	Continuous	0.25 mm	Roads: Proposed Section View Text
C-ROAD-SCTN-VIEW	110	Continuous	Default	Roads: Proposed Section View Components (C3D)
C-ROAD-SCTN-VIEW-GRID	252	Continuous	0.13 mm	Roads: Proposed Section View Grid
C-ROAD-SHAP	white	Continuous	Default	Roads: Proposed Shapes (C3D)
C-ROAD-SHAP-TRAN	white	Continuous	Default	Roads: Proposed Shapes Transparent (C3D)
C-ROAD-SIGN	130	Continuous	0.35 mm	Roads : Proposed Signs
C-ROAD-TEXT	11	Continuous	0.25 mm	Roads: Proposed Text and Annotation
C-ROAD-TRAL-BIKE	120	Continuous	0.35 mm	Roads: Proposed Bike Trail
C-ROAD-TRAL-URBN	120	Continuous	0.35 mm	Roads: Proposed Urban Trail

jj. PR Topography C-TOPO* layer colours and lineweights

C-TOPO	white	Continuous	Default	Topography: Surface Components (C3D)
C-TOPO-DTCH	113	PR-DRANCNTR (BCMoT)	0.25 mm	Topography: Ditches
C-TOPO-EMBK	yellow	DOT2	0.35 mm	Topography: C3D Grading Components (C3D)
C-TOPO-EMBK-CUT~	12	HIDDEN2	0.25 mm	Topography: C3D Grading Cut Components
C-TOPO-EMBK-FILL	91	HIDDEN2	0.25 mm	Topography: C3D Grading Fill Components
C-TOPO-FEAT	white	Continuous	Default	Topography: Feature Line Components (C3D)
C-TOPO-GRAD	white	Continuous	Default	Topography: Grading Obejct Components (C3D)
C-TOPO-MAJR	242	Continuous	0.25 mm	Topography: Major Contours
C-TOPO-MINR	143	Continuous	0.25 mm	Topography: Minor Contours
C-TOPO-STRC	21	Continuous	0.25 mm	Topography: Structures
C-TOPO-SWLE	113	PR-DRANSWLE (MMCD)	0.25 mm	Topography: Swales
C-TOPO-TEXT	11	Continuous	0.25 mm	Topography: Text and Annotation

kk. PR Utilities C-UTIL* layer colours and lineweights

C-ILLM-PIPE	12	PR-UTILUGEL (MMCD)	0.25 mm	Utilities: Proposed Municipality Electricity (Over and Under)
C-ILLM-STRC	13	Continuous	0.25 mm	Utilities: Proposed Municipality Electricity and Lighting
C-UTIL	230	Continuous	0.25 mm	Utilities: Proposed and Shared Utilities
C-UTIL-CATV	30	PR-UTILCATV (MMCD)	0.25 mm	Utilities: Proposed Cable TV (Over and Under)
C-UTIL-ELEC-MUNI	230	PR-UTILUGEL (MMCD)	0.25 mm	Utilities: Proposed Municipality Electricity (Over and Under)
C-UTIL-ELEC-POWR	230	PR-UTILUGEL (MMCD)	0.25 mm	Utilities: Proposed Electricity (Over and Under)
C-UTIL-NGAS	40	PR-UTILNGAS (MMCD)	0.25 mm	Utilities: Proposed Natural Gas (Over and Under)
C-UTIL-TELE	30	PR-UTILTELE (MMCD)	0.25 mm	Utilities: Proposed Telephone (Over and Under)
C-UTIL-TEXT	11	Continuous	0.25 mm	Utilities: General Utilities Text
C-UTIL-TRAF	30	Continuous	0.25 mm	Utilities: Proposed Traffic Signal Controls

ll. PR Vegetation C-VEGE* layer colours and lineweights

C-VEGE	80	Continuous	0.25 mm	Vegetation: Plants and Trees
C-VEGE-GARD	80	PR-VEGEGARD (BCM...	0.25 mm	Vegetation: Garden Lines
C-VEGE-LINE	80	PR-VEGETREE (BCMoT)	0.25 mm	Vegetation: Tree and Bush Lines

mm. PR Walls Fences Barriers C-FNCE, C-ROAD-BARR, C-WALL layer colours and lineweights

C-FNCE	122	PR-FNCE (BCMoT)	0.25 mm	Walls: Proposed Fences
C-ROAD-BARR	111	PR-BARR (BCMoT)	0.25 mm	Roads: Proposed Barriers
C-WALL	122	PR-WALL (BCMoT)	0.25 mm	Walls: Proposed Walls