THE REGIONAL MUNICIPALITY OF DURHAM

DESIGN SPECIFICATIONS FOR CAD DRAWING STANDARDS

WORKS DEPARTMENT

April 2023

TABLE OF CONTENTS

1. Introduction

The following requirements shall be used as guidelines for the preparation of engineering drawings for Region of Durham contracts.

Note: Civil 3D Template Drawings are available upon request, for the creation of standard contract drawings from the Region of Durham, Works Department 905-668-7711 Ext. 3419.

In summary, drawings submitted to the Region of Durham shall be in the following format:

1.1 AutoCAD

- current version of AutoCAD being used by the Region of Durham at the time the drawings are being prepared

1.2 Page Size

- ISO A1 (594 mm X 841 mm = 23.39 in. X 33.11 in.)
- ARCH D (609.6 mm X 914.4 mm = 24 in. X 36 in.)
- ANSI B half size (279 mm X 432 mm = 11 in. X 17 in.)

1.3 Units

- Linear – Metres
- Linear – Millimeters for structural drawings
- Angle – Degrees

1.4 Scale

- Plan/Profile – Horizontal 1:250 or 1:500, Vertical 1:50
- Design Cross-Sections – Horizontal 1:250, Vertical 1:50 or Horizontal 1:200, Vertical 1:40
- Typical Sections – 2:1 Vertical

1.5 Text Font

- RomanS for text height 0.40 to 1.50
- Arial for text height greater than 1.50
- Use L80 for Existing text and L100 for Proposed text, unless otherwise approved by Region Project Manager
- Apply the corresponding text heights for the scale (1:250 L80 = 0.50, L100 = 0.65; 1:500 L80 = 1.0, L100 = 1.30)

1.6 Co-ordinates

- UTM NAD83, Zone 17

2. Layering Structure

2.1 Digital Terrain Model and Base Plans

The PCODE Structure Chart is available upon request.

2.2 Engineering Drawings

The AutoCAD drawing template file for existing and proposed layers is available electronically upon request, (DrawingStandards\TemplateDrawings\RMD C3D.dwt).

All drawings submitted shall be in accordance with the layer structure as outlined in the following AutoCAD Layering Guide.

Layers not appearing on this list may be added at the designer's discretion.

AutoCAD Layering Guide
*All existing base layers to be colour 252 when used in contract drawings.

Layer Name	*Colour	Pen Size	Text Height (1:250)	Linetype	Description
_V-PORTS	8	0.13		Continuous	Viewport
Description	7 (white)	0.25	0.5	Continuous	Description
DIMENSIONS	7 (white)	0.25	0.5	Continuous	DIMENSIONS
EX-ALGN	7 (white)	0.25	0.5	Continuous	Existing Alignment
EX-ALGN-TEXT	50	0.4	0.5	Continuous	Existing Alignment-Labeling
EX-ANTENNA-SYM	7 (white)	0.25	0.5	Continuous	Antenna
EX-BELL-SYM	7 (white)	0.25	0.5	Continuous	Existing Bell Symbol
EX-BLDG	6 magenta)	1	0.5	Continuous	Existing Building
EX-BLDG-BUS	7 (white)	0.25	0.5	Continuous	Existing Building Bus
EX-BLDG-DRAN	7 (white)	0.25	0.5	Continuous	Existing Building Drain
EX-BLDG-GARB	8	0.13	0.5	Continuous	Existing Building Garbage
EX-BLDG-HAND	6 magenta)	1	0.5	Continuous	Existing Building Hand
EX-BLDG-PATIO	7 (white)	0.25	0.5	Continuous	Existing Building Patio
EX-BLDG-PIER	7 (white)	0.25	0.5	Continuous	Existing Building Pier

AutoCAD Layering Guide *All existing base layers to be colour 252 when used in contract drawings.					
Layer Name	***Colour**	**Pen Size**	**Text Height (1:250)**	**Linetype**	**Description**
EX-BLDG-PILR	7 (white)	0.25	0.5	Continuous	Existing Building Pillar
EX-BLDG-PRCH	6 magenta)	1	0.5	Continuous	Existing Building Porch
EX-BLDG-SPRK	7 (white)	0.25	0.5	Continuous	Existing Building SPRK
EX-BLDG-STEP	7 (white)	0.25	0.5	Continuous	Existing Building Step
EX-BOLLARD-SYM	7 (white)	0.25	0.5	Continuous	Existing Bollard Symbol
EX-BOULDER-SYM	7 (white)	0.25	0.5	Continuous	Existing Boulder Symbol
EX-CABLE-SYM	7 (white)	0.25	0.5	Continuous	Existing Cable Symbol
EX-CLEAN_CLEANOUT -SYM	7 (white)	0.25	0.5	Continuous	Existing cleanout Symbol
EX-CONC_MO-SYM	7 (white)	0.25	0.5	Continuous	Existing Concrete Monument Symbol
EX-CONTROL-SYM	7 (white)	0.25	0.5	Continuous	Existing Control Symbol
EX-CULVERT-SYM	7 (white)	0.25	0.5	Continuous	Existing Culvert Symbol
EX-CULV-FIELD	7 (white)	0.25	0.5	Continuous	EX-CULV-FIELD
EX-DECID-SYM	7 (white)	0.25	0.5	Continuous	Existing Deciduous Symbol
EX-DICBMH-SYM	7 (white)	0.25	0.5	Continuous	Existing Ditch Inlet Catchbasin Symbol
EX-DRAINBRIDGE-SYM	7 (white)	0.25	0.5	Continuous	Existing Bridge Drain Symbol
EX-FDN_DRAIN-SYM	7 (white)	0.25	0.5	Continuous	Existing Foundation Drain Symbol
EX-FENCE-SYM	7 (white)	0.25	0.5	Continuous	Existing Fence Symbol
EX-FRENCH_DRAIN-SYM	7 (white)	0.25	0.5	Continuous	Existing French Drain Symbol
EX-GAS_PUMP-SYM	7 (white)	0.25	0.5	Continuous	Existing Gas Pump Symbol
EX-GAS-SYM	7 (white)	0.25	0.5	Continuous	Existing Gas Symbol
EX-HYDRO-SYM	7 (white)	0.25	0.5	Continuous	Existing Hydro Symbol
EX-LEACH_INV-SYM	7 (white)	0.25	0.5	Continuous	Existing Leach Inv Symbol

AutoCAD Layering Guide *All existing base layers to be colour 252 when used in contract drawings.					
Layer Name	***Colour**	**Pen Size**	**Text Height (1:250)**	**Linetype**	**Description**
EX-LEGAL-SYM	7 (white)	0.25	0.5	Continuous	Existing Legal Symbol
EX-MAIL-SYM	7 (white)	0.25	0.5	Continuous	Existing Mail Symbol
EX-MH-SYM	7 (white)	0.25	0.5	Continuous	Existing MH Symbol
EX-MISC-ANTA	7 (white)	0.25	0.5	Continuous	Existing Misc Antenna
EX-MISC-BORE	7 (white)	0.25	0.5	Continuous	Existing Misc Borehole
EX-MISC-INTERLOC	7 (white)	1	0.5	Continuous	Existing Misc Interlock
EX-MISC-SCALE	6(magenta)	1	0.5	Continuous	Existing Misc Scale
EX-MISC-SYM	7 (white)	0.25	0.5	Continuous	Existing Misc Symbol
EX-MISC-TEST	7 (white)	0.25	0.5	Continuous	Existing Misc Test
EX-MISC-TOWR	7 (white)	0.25	0.5	Continuous	Existing Misc Tower
EXOBWELLPL	7 (white)	0.25	0.5	Continuous	Existing OBS Well
EX-OUTFALL_INV-SYM	7 (white)	0.25	0.5	Continuous	Existing Outfall Invert Symbol
EX-PAVE	7 (white)	0.25	0.5	Continuous	Existing Pavement
EX-PAVE-ASPH	1 (red)	0.25	0.5	Continuous	Existing Pavement Ashpalt
EX-PAVE-BRCK	7 (white)	0.25	0.5	Continuous	Existing Pavement Brick
EX-PAVE-CLAY	7 (white)	0.25	0.5	Continuous	Existing Pavement Clay
EX-PAVE-CONC	8	0.13	0.5	Continuous	Existing Pavement Concrete
EX-PAVE-CONC-STAM	8	0.13	0.5	Continuous	Existing Pavement Concrete STAM
EX-PAVE-EDGE	1 (red)	0.25	0.5	Continuous	Existing Pavement Edge
EX-PAVE-GRAV	7 (white)	0.25	0.5	HIDDEN2	Existing Pavement Gravel
EX-PAVE-JOIN	1 (red)	0.25	0.5	Continuous	Existing Pavement Joint
EX-PAVE-WALK	8	0.13	0.5	Continuous	Existing Pavement WALK
EX-PILLAR-SYM	7 (white)	0.25	0.5	Continuous	Existing Pillar Symbol
EX-PRCL-BLK	74	0.01	0.5	DASHED2	Existing Proposed Centerline BLK
EX-PRCL-ESMT	42	0.13	0.5	DASHED2	Existing Proposed Centerline Estimate
EX-PRCL-LOT	14	0.19	0.5	DASHED2	Existing Proposed Centerline

AutoCAD Layering Guide *All existing base layers to be colour 252 when used in contract drawings.					
Layer Name	***Colour**	**Pen Size**	**Text Height (1:250)**	**Linetype**	**Description**
EX-PRCL-TABL	7 (white)	0.25	0.5	Continuous	Existing Proposed Centerline Table
EX-PRCL-TEXT	50	0.4	0.5	Continuous	Existing Proposed Centerline Text
EX-PROF	231	0.35	0.5	HIDDEN	Existing Profile
EX-PROF-TEXT	231	0.35	0.5	Continuous	Existing Profile-Labeling
EX-PROPERTY LINE	13	0.5	0.5	Continuous	Existing Property Line
EX-RAIL	7 (white)	0.25	0.5	Continuous	Existing Rail
EX-RAIL-CL	7 (white)	0.25	0.5	CENTER2	Existing Rail Centerline
EX-RAIL-SYM	7 (white)	0.25	0.5	Continuous	Existing Rail Symbol
EX-ROAD-BARI	7 (white)	0.25	0.5	Continuous	Existing Road BARI
EX-ROAD-BRDG	6(magenta)	1	0.5	Continuous	Existing Road BRDG
EX-ROAD-CL	7 (white)	0.25	0.5	CENTER2	Existing Road Centerline
EX-ROAD-CONC	7 (white)	0.25	0.5	Continuous	Existing Road Concrete
EX-ROAD-CRWN	7 (white)	0.25	0.5	CENTER2	EX-ROAD-CRWN
EX-ROAD-CURB	1 (red)	0.25	0.5	Continuous	Existing Road Curb
EX-ROAD-CURB-CONC	8	0.13	0.5	Continuous	Existing Road Curb Concrete
EX-ROAD-DRIV	7 (white)	0.25	0.5	Continuous	Existing Road Driveway
EX-ROAD-DRIV-CONC	8	0.13	0.5	Continuous	Existing Road Driveway Concrete
EX-ROAD-GRAV	7 (white)	0.25	0.5	HIDDEN2	Existing Road Gravel
EX-ROAD-GUID	8	0.13	0.5	Continuous	Existing Road Guide
EX-ROAD-LANE-YELLOW	40	1	0.5	Continuous	Existing Road Lane Yellow
EX-ROAD-MRKS	7 (white)	0.25	0.5	DASHED2	Existing Road Marks
EX-ROAD-SENS-TRAF	2 (yellow)	0.25	0.5	Continuous	Existing Road Sensor Traffic
EX-ROAD-SHLD	1 (red)	0.25	0.5	Continuous	Existing Road Shoulder
EX-ROAD-SHLD-GR	7 (white)	0.25	0.5	HIDDEN2	Existing Road Shoulder Gravel
EX-ROAD-STOP	7 (white)	0.25	0.5	Continuous	Existing Road STOP
EX-ROAD-XWLK	7 (white)	0.25	0.5	Continuous	Existing Road Crosswalk

AutoCAD Layering Guide *All existing base layers to be colour 252 when used in contract drawings.					
Layer Name	***Colour**	**Pen Size**	**Text Height (1:250)**	**Linetype**	**Description**
EX-SAN-SYM	7 (white)	0.25	0.5	Continuous	Existing Sanitary Symbol
EX-SECT	231	0.35	0.5	STORM	Existing Section
EX-SIGN-SYM	7 (white)	0.25	0.5	Continuous	Existing Sign Symbol
EX-SPRING-SYM	7 (white)	0.25	0.5	Continuous	Existing Spring Symbol
EX-STRM-SYM	7 (white)	0.25	0.5	Continuous	Existing Storm Symbol
EX-STONE_MO-SYM	7 (white)	0.25	0.5	Continuous	Existing Stone Monument Symbol
EX-SURV	7 (white)	0.25	0.5	Continuous	Existing Survey
EX-SURV-CTRL	7 (white)	0.25	0.5	Continuous	Existing Survey Control
EX-SURV-MISC	7 (white)	0.25	0.5	Continuous	Existing Survey Misc
EX-SURV-MONU-CONC	7 (white)	0.25	0.5	Continuous	Existing Survey Monument Concrete
EX-SURV-MONU-STON	7 (white)	0.25	0.5	Continuous	Existing Survey Monument Stone
EX-SURV-TEXT	7 (white)	0.25	0.5	Continuous	Existing Survey-Labeling
EX-TOPO	7 (white)	0.25	0.5	DOT2	Existing Topo
EX-TOPO-BLDR	7 (white)	0.25	0.5	Continuous	Existing Topo BLDR
EX-TOPO-BOLL	7 (white)	0.25	0.5	Continuous	Existing Topo BOLL
EX-TOPO-BUS	7 (white)	0.25	0.5	Continuous	Existing Topo Bus
EX-TOPO-CMTRY	7 (white)	0.25	0.5	Continuous	Existing Topo Cemetery
EX-TOPO-CONT-MAJR	253	0.13	0.5	HIDDEN	Existing Topo Contour Major
EX-TOPO-CONT-MINR	251	0.13	0.5	HIDDEN2	Existing Topo Contour Minor
EX-TOPO-CREK	5 (blue)	0.25	0.5	Continuous	Existing Topo Creek
EX-TOPO-CREK-CL	5 (blue)	0.25	0.5	CENTER2	Existing Topo Creek Centerline
EX-TOPO-DAM	7 (white)	0.25	0.5	Continuous	Existing Topo Dam
EX-TOPO-DTCH-CL	7 (white)	0.25	0.5	CENTER2	Existing Topo Ditch Centerline
EX-TOPO-FENC	7 (white)	0.25	0.5	Continuous	Existing Topo Fence
EX-TOPO-FENC-CHAN	7 (white)	0.25	0.5	Fence_Chain_Link	Existing Topo Fence Chainlink
EX-TOPO-FENC-IRON	7 (white)	0.25	0.5	Continuous	Existing Topo Fence Iron
EX-TOPO-FENC-PW	7 (white)	0.25	0.5	Fence_Stock	Existing Topo Fence Post and Wire

AutoCAD Layering Guide *All existing base layers to be colour 252 when used in contract drawings.					
Layer Name	***Colour**	**Pen Size**	**Text Height (1:250)**	**Linetype**	**Description**
EX-TOPO-FENC-RAIL	7 (white)	0.25	0.5	Guide_Rail	Existing Topo Fence Rail
EX-TOPO-FENC-SNOW	7 (white)	0.25	0.5	Continuous	Existing Topo Fence Snow
EX-TOPO-FENC-WOOD	7 (white)	0.25	0.5	Fence_Stoc	Existing Topo Fence Wood
EX-TOPO-MAIL	7 (white)	0.25	0.5	Continuous	Existing Topo Mail
EX-TOPO-MARSH	5 (blue)	0.25	0.5	Continuous	Existing Topo Marsh
EX-TOPO-MISC	7 (white)	0.25	0.5	Continuous	Existing Topo Misc
EX-TOPO-PNTS	7 (white)	0.25	0.5	Continuous	Existing Topo Points
EX-TOPO-POND	5 (blue)	0.25	0.5	Continuous	Existing Topo Pond
EX-TOPO-RIPR	7 (white)	0.25	0.5	Continuous	Existing Topo RIPR
EX-TOPO-ROCK	8	0.13	0.5	Continuous	Existing Topo Rock
EX-TOPO-SIGN	7 (white)	0.25	0.5	Continuous	Existing Topo Sign
EX-TOPO-SPRNG	7 (white)	0.25	0.5	Continuous	Existing Topo Spring
EX-TOPO-SWAL-CL	7 (white)	0.25	0.5	CENTER2	Existing Topo Swale Centerline
EX-TOPO-TEXT	1 (red)	0.25	0.5	Continuous	Existing Topo-Labeling
EX-TOPO-TINN-ANAL	252	0.25	0.5	Continuous	Existing Topo TINN-ANAL
EX-TOPO-TINN-BRDR	3 (green)	0.25	0.5	Continuous	Existing Topo TINN-BRDR
EX-TOPO-TINN-LINE	3 (green)	0.25	0.5	Continuous	Existing Topo TINN-LINE
EX-TOPO-TINN-PNTS	1 (red)	0.25	0.5	Continuous	Existing Topo TINN-Points
EX-TOPO-WALL	7 (white)	0.25	0.5	Continuous	Existing Topo Wall
EX-TOPO-WALL-BRCK	1 (red)	0.25	0.5	Continuous	Existing Topo Wall Brick
EX-TOPO-WALL-CONC	8	0.13	0.5	Continuous	Existing Topo Wall Concrete
EX-TOPO-WALL-GABN	8	0.13	0.5	Continuous	Existing Topo Wall Gabion
EX-TOPO-WALL-STEL	7 (white)	0.25	0.5	Continuous	Existing Topo Wall Steel
EX-TOPO-WALL-STON	8	0.13	0.5	Continuous	Existing Topo Wall Stone
EX-TOPO-WALL-TIMB	7 (white)	0.25	0.5	Continuous	Existing Topo Wall Timber

AutoCAD Layering Guide *All existing base layers to be colour 252 when used in contract drawings.					
Layer Name	***Colour**	**Pen Size**	**Text Height (1:250)**	**Linetype**	**Description**
EX-TREE-SYM	7 (white)	0.25	0.5	Continuous	Existing Topo Tree Symbol
EX-UTIL-BELL	152	0.01	0.5	BellCable_ Un-derground	Existing Bell
EX-UTIL-BELL-VALT	2 (yellow)	0.25	0.5	Continuous	Existing Bell Vault
EX-UTIL-CATV	7 (white)	0.25	0.5	TVCable_ Un-derground	Existing Cable
EX-UTIL-CATV-DISH	7 (white)	0.25	0.5	Continuous	Existing Cable Dish
EX-UTIL-COMM	2 (yellow)	0.25	0.5	Continuous	Existing COMM
EX-UTIL-COMM-TOWR	2 (yellow)	0.25	0.5	Continuous	Existing COMM Tower
EX-UTIL-ELEC-GUY	2 (yellow)	0.25	0.5	Continuous	Existing Electric Guy Wire
EX-UTIL-ELEC-TRANS-VALT	2 (yellow)	0.25	0.5	Continuous	Existing Electric Transformer Vault
EX-UTIL-ELEC-TRNS	7 (white)	0.25	0.5	Continuous	Existing Electric TRNS
EX-UTIL-FUEL	7 (white)	0.25	0.5	Continuous	Existing Fuel
EX-UTIL-FUEL-TANK	8	0.13	0.5	Continuous	Existing Fuel Tank
EX-UTIL-GAS	2 (yellow)	0.25	0.5	GasLine	Existing Gas
EX-UTIL-HYDRO	7 (white)	0.25	0.5	HydroCable_Underground	Existing Hydro
EX-UTIL-HYDRO-TOWR	230	0.21	0.5	Continuous	Existing Hydro Tower
EX-UTIL-HYDRO-TRAF	7 (white)	0.25	0.5	Continuous	Existing Hydro Transformer
EX-UTIL-LOCT-CATV	12	0.25	0.5	TVCable_ Un-derground	Existing Cable Locate

AutoCAD Layering Guide *All existing base layers to be colour 252 when used in contract drawings.					
Layer Name	***Colour**	**Pen Size**	**Text Height (1:250)**	**Linetype**	**Description**
EX-UTIL-LOCT-FOC	12	0.25	0.5	FOC FIBER OPTIC	Existing FOC Locate
EX-UTIL-LOCT-GAS	72	0.01	0.5	GasLine	Existing Gas Locate
EX-UTIL-LOCT-HYDRO	11	0.13	0.5	HydroCable_Underground	Existing Hydro Locate
EX-UTIL-LOCT-HYDRO-STRT	11	0.13	0.5	H-SL	Existing Hydro Locate-STRT
EX-UTIL-LOCT-HYDRO-TRAF	11	0.13	0.5	H-TL	Existing Hydro Locate Transformer
EX-UTIL-LOCT-MISC	7 (white)	0.25	0.5	Continuous	Existing Misc Locate
EX-UTIL-LOCT-WATR	154	0.01	0.5	Continuous	Existing Water Locate
EX-UTIL-MISC-MH	7 (white)	0.25	0.5	Continuous	Existing Misc MH
EX-UTIL-SANS	1 (red)	0.25	0.5	Continuous	Existing San
EX-UTIL-SANS-CO	7 (white)	0.25	0.5	Continuous	Existing San Cleanout
EX-UTIL-SANS-MH	1 (red)	0.25	0.5	Continuous	Existing San MH
EX-UTIL-SANS-SEPT	1 (red)	0.25	0.5	Continuous	Existing San Septic
EX-UTIL-SANS-TEXT	1 (red)	0.25	0.5	Continuous	Existing San-Labeling
EX-UTIL-SANS-VENT	7 (white)	0.25	0.5	Continuous	Existing San Vent
EX-UTIL-STRM	3 (green)	0.25	0.5	Continuous	Existing Storm
EX-UTIL-STRM-CB	3 (green)	0.25	0.5	Continuous	Existing Storm CB
EX-UTIL-STRM-CULV	3 (green)	0.25	0.5	Continuous	Existing Storm Culvert
EX-UTIL-STRM-DCBMH	3 (green)	0.25	0.5	Continuous	Existing Storm DCBMH
EX-UTIL-STRM-DICBMH	3 (green)	0.25	0.5	Continuous	Existing Storm DICBMH
EX-UTIL-STRM-LECH	3 (green)	0.25	0.5	Continuous	Existing Storm LECH

AutoCAD Layering Guide *All existing base layers to be colour 252 when used in contract drawings.					
Layer Name	***Colour**	**Pen Size**	**Text Height (1:250)**	**Linetype**	**Description**
EX-UTIL-STRM-MH	3 (green)	0.25	0.5	Continuous	Existing Storm MH
EX-UTIL-STRM-OUTF	3 (green)	0.25	0.5	Continuous	Existing Storm Outfall
EX-UTIL-STRM-TEXT	3 (green)	0.25	0.5	Continuous	Existing Storm-Labeling
EX-UTIL-TABL	7 (white)	0.25	0.5	Continuous	Existing Table
EX-UTIL-WATR	5 (blue)	0.25	0.5	Continuous	Existing Water
EX-UTIL-WATR-CPP	5 (blue)	0.25	0.5	Continuous	Existing Water CPP
EX-UTIL-WATR-LEVL	5 (blue)	0.25	0.5	Continuous	Existing Water Level
EX-UTIL-WATR-SERV	5 (blue)	0.25	0.5	Continuous	Existing Water Service
EX-UTIL-WATR-TEXT	5 (blue)	0.25	0.5	Continuous	Existing Water-Labeling
EX-UTIL-WATR-TOWR	5 (blue)	0.25	0.5	Continuous	Existing Water Tower
EX-UTIL-WATR-WELL	5 (blue)	0.25	0.5	Continuous	Existing Water Well
EX-VEGE-BUSH	3 (green)	0.25	0.5	TREELINE	Existing Bush
EX-VEGE-DRIP	7 (white)	0.25	0.5	Continuous	Existing Drip Line
EX-VEGE-HDGE	3 (green)	0.25	0.5	TREELINE	Existing Hedge
EX-VEGE-PLNT	3 (green)	0.25	0.5	Continuous	Existing Plant
EX-VEGE-TREE	7 (white)	0.25	0.5	Continuous	Existing Tree
EX-VEGE-TREE-CONF	7 (white)	0.25	0.5	Continuous	EX-VEGE-TREE-CONF
EX-VEGE-TREE-DECD	7 (white)	0.25	0.5	Continuous	EX-VEGE-TREE-DECD
EX-VEGE-TREE-ROW	3 (green)	0.25	0.5	TREELINE	EX-VEGE-TREE-ROW
EX-WATER-SYM	7 (white)	0.25	0.5	Continuous	EX-WATER-SYM
EX-WATLEVEL-SYM	7 (white)	0.25	0.5	Continuous	EX-WATLEVEL-SYM
EX-WELL-SYM	7 (white)	0.25	0.5	Continuous	EX-WELL-SYM
NORTHARROW	7 (white)	0.25	0.5	Continuous	NORTHARROW

AutoCAD Layering Guide *All existing base layers to be colour 252 when used in contract drawings.					
Layer Name	***Colour**	**Pen Size**	**Text Height (1:250)**	**Linetype**	**Description**
OB-ALGN	7 (white)	0.25	0.5	Continuous	Object Layer Alignment
OB-ALGN-P CL	7 (white)	0.25	0.5	Continuous	Object Layer
OB-ALGN-P-CL	7 (white)	0.25	0.5	Continuous	Object Layer
OB-ALGN-TABL	7 (white)	0.25	0.5	Continuous	Object Layer Alignment Table
OB-ALGN-TEXT	7 (white)	0.25	0.5	Continuous	Object Layer Alignment-Labeling
OB-ALGN-TEXT-P CL	7 (white)	0.25	0.5	Continuous	Object Layer
OB-ALGN-TEXT-P-CL	7 (white)	0.25	0.5	Continuous	Object Layer
OB-BLDG	7 (white)	0.25	0.5	Continuous	Object Layer Building Site
OB-CATC	7 (white)	0.25	0.5	Continuous	Object Layer Catchment
OB-CATC-TEXT	7 (white)	0.25	0.5	Continuous	Object Layer Catchment-Labeling
OB-CORR	7 (white)	0.25	0.5	Continuous	Object Layer Corridor
OB-CORR-ASSM	7 (white)	0.25	0.5	Continuous	Object Layer Assembly/Subassembly
OB-CORR-ASSM-BLIN	1 (red)	0.25	0.5	Continuous	Object Layer Assembly BLIN
OB-CORR-ASSM-OFFS	1 (red)	0.25	0.5	Continuous	Object Layer Assembly
OB-CORR-INTS	7 (white)	0.25	0.5	Continuous	Object Layer Intersection
OB-CORR-INTS-TEXT	7 (white)	0.25	0.5	Continuous	Object Layer Intersection-Labeling
OB-CORR-SECT	7 (white)	0.25	0.5	Continuous	Object Layer Corridor Section
OB-GRAD	7 (white)	0.25	0.5	Continuous	Object Layer Grading
OB-GRAD-FEAT	3 (green)	0.25	0.5	Continuous	Object Layer Feature Line
OB-GRAD-TEXT	7 (white)	0.25	0.5	Continuous	Object Layer Grading-Labeling
OB-PARC	7 (white)	0.25	0.5	Continuous	Object Layer Parcel/Parcel Segment
OB-PARC-TABL	7 (white)	0.25	0.5	Continuous	Object Layer Parcel Table

AutoCAD Layering Guide *All existing base layers to be colour 252 when used in contract drawings.					
Layer Name	***Colour**	**Pen Size**	**Text Height (1:250)**	**Linetype**	**Description**
OB-PARC-TEXT	7 (white)	0.25	0.5	Continuous	Object Layer Parcel-Labeling/Parcel Segment-Labeling
OB-PIPE	7 (white)	0.25	0.5	Continuous	Object Layer Pipe
OB-PIPE-INTF	7 (white)	0.25	0.5	Continuous	Object Layer Interference
OB-PIPE-PROF	7 (white)	0.25	0.5	Continuous	Object Layer Pipe or Structure Profile
OB-PIPE-SECT	7 (white)	0.25	0.5	Continuous	Object Layer Pipe Network Section
OB-PIPE-TABL	7 (white)	0.25	0.5	Continuous	Object Layer Pipe and Structure Table
OB-PIPE-TEXT	7 (white)	0.25	0.5	Continuous	Object Layer Pipe-Labeling/Structure-Labeling
OB-PNTS-TABL	7 (white)	0.25	0.5	Continuous	Object Layer Point Table
OB-PROF	7 (white)	0.25	0.5	Continuous	Object Layer Profile
OB-PROF-TEXT	7 (white)	0.25	0.5	Continuous	Object Layer Profile-Labeling
OB-PROF-VIEW	7 (white)	0.25	0.5	Continuous	Object Layer Profile View-Labeling
OB-RAIL	7 (white)	0.25	0.5	Continuous	Object Layer Cant View
OB-SECT	7 (white)	0.25	0.5	DASHED2	Object Layer Section
OB-SECT-MASS-LINE	7 (white)	0.25	0.5	Continuous	Object Layer Mass Haul Line
OB-SECT-MASS-VIEW	7 (white)	0.25	0.5	Continuous	Object Layer Mass Haul View
OB-SECT-MATR	7 (white)	0.25	0.5	Continuous	Object Layer Material Section
OB-SECT-MATR-TABL	7 (white)	0.25	0.5	Continuous	Object Layer Material Table
OB-SECT-SAMP	7 (white)	0.25	0.5	Continuous	Object Layer Material Table
OB-SECT-TABL	7 (white)	0.25	0.5	Continuous	Object Layer Section View Quantity Takeoff Table
OB-SECT-TEXT	7 (white)	0.25	0.5	Continuous	Object Layer Sample Line-Labeling/Section

AutoCAD Layering Guide *All existing base layers to be colour 252 when used in contract drawings.					
Layer Name	***Colour**	**Pen Size**	**Text Height (1:250)**	**Linetype**	**Description**
					View-Labeling/Section-Labeling
OB-SECT-VIEW	7 (white)	0.25	0.5	Continuous	Object Layer Section View
OB-SHET	7 (white)	0.25	0.5	Continuous	Object Layer Sheet
OB-SHET-FRM	7 (white)	0.25	0.5	Continuous	Object Layer Sheet Frame
OB-SHET-FRM-TEXT	7 (white)	0.25	0.5	Continuous	Object Layer View Frame-Labeling
OB-SHET-MATC	7 (white)	0.25	0.5	Continuous	Object Layer Match Line
OB-SHET-MATC-TEXT	7 (white)	0.25	0.5	Continuous	Object Layer Match Line-Labeling
OB-SHET-VIEW	7 (white)	0.25	0.5	Continuous	Object Layer Sheet View
OB-SHET-VIEW-TEXT	7 (white)	0.25	0.5	Continuous	Object Layer Sheet View-Labeling
OB-SUPR-TABL	7 (white)	0.25	0.5	Continuous	Object Layer Superelevation Table
OB-SUPR-VIEW	7 (white)	0.25	0.5	Continuous	Object Layer Superelevation View
OB-SURF	7 (white)	0.25	0.5	Continuous	Object Layer Grid Surface/Tin Surface
OB-SURF-TABL	7 (white)	0.25	0.5	Continuous	Object Layer Surface Legend Table
OB-SURF-TEXT	7 (white)	0.25	0.5	Continuous	Object Layer Grid Surface-Labeling/Tin Surface-Labeling
OB-SURF-TEXT-EG	7 (white)	0.25	0.5	Continuous	Object Layer
OB-SURV-FIGR	7 (white)	0.25	0.5	Continuous	Object Layer Survey Figure
OB-SURV-FIGR-TEXT	7 (white)	0.25	0.5	Continuous	Object Layer Survey Figure Segment Label/Survey Figure-Labeling
OB-SURV-NETW	7 (white)	0.25	0.5	Continuous	Object Layer Survey Network

AutoCAD Layering Guide *All existing base layers to be colour 252 when used in contract drawings.					
Layer Name	***Colour**	**Pen Size**	**Text Height (1:250)**	**Linetype**	**Description**
OB-TEXT	7 (white)	0.25	0.5	Continuous	Object Layer General Note Label/General Segment Label
OB-UTIL-WATR	7 (white)	0.25	0.5	Continuous	Object Layer Appurtenance/Fitting/Pressure Network Section/Pressure Part Profile/Pressure Pipe
OB-UTIL-WATR-TABL	7 (white)	0.25	0.5	Continuous	Object Layer Pressure Part Table
OB-UTIL-WATR-TEXT	7 (white)	0.25	0.5	Continuous	Object Layer Appurtenance-Labeling/Fitting-Labeling/Pressure Pipe-Labeling
O-TEXT	7 (white)	0.25	0.5	Continuous	O-TEXT
PLPR-L80-TXT	232	0.3	0.5	Continuous	PLPR-L80-TXT
PLPR-L100-TXT	50	0.4	0.65	Continuous	PLPR-L100-TXT
PLPR-L120-TXT	90	0.5	0.75	Continuous	Plan and Profile Template 120 Text
PLPR-L140-TXT	130	0.6	0.9	Continuous	PLPR-L140-TXT
PLPR-L175-TXT	160	0.7	1.1	Continuous	PLPR-L175-TXT
PLPR-L240-TXT	200	0.8	1.5	Continuous	PLPR-L240-TXT
PLPR-L290-TXT	210	1.4	1.9	Continuous	PLPR-L290-TXT
PLPR-L500-TXT	210	1.4	3.2	Continuous	PLPR-L500-TXT
PLPR-OUTLINE	7 (white)	0.25		Continuous	PLPR-OUTLINE
PLPR-PAPER	7 (white)	0.25		DOTX2	PLPR-PAPER
PLPR-STMCHART	255	0.13		Continuous	PLPR-STMCHART
PR-ALGN-CL	4 (cyan)	0.5	0.65	Continuous	Proposed Alignment Centerline
PR-ALGN-CURB	131	0.5	0.65	Continuous	Proposed Alignment Curb
PR-ALGN-OFFS	131	0.5	0.65	Continuous	Proposed Alignment Offsets
PR-ALGN-TABL	7 (white)	0.25	0.65	Continuous	Proposed Alignment Table
PR-ALGN-TEXT	231	0.35	0.65	Continuous	Proposed Alignment-Labeling

AutoCAD Layering Guide *All existing base layers to be colour 252 when used in contract drawings.					
Layer Name	***Colour**	**Pen Size**	**Text Height (1:250)**	**Linetype**	**Description**
PR-ALIGN-SAN	240	0.5	0.65	PRSAN250	PR-ALIGN-SAN
PR-ALIGN-WM	150	0.5	0.65	PRWM250	PR-ALIGN-WM
PR-CORR	5 (blue)	0.25	0.65	Continuous	Proposed Corridor
PR-CORR-ASSM	7 (white)	0.25	0.65	Continuous	Proposed Corridor Assembly
PR-CORR-ASSM-BLIN	1 (red)	0.25	0.65	Continuous	Proposed Corridor Assembly BLIN
PR-CORR-ASSM-OFFS	1 (red)	0.25	0.65	Continuous	Proposed Corridor Assembly Offsets
PR-CORR-LINK	20	0.25	0.65	Continuous	Proposed Corridor Link
PR-CORR-LINK-CUT	1 (red)	0.25	0.65	Continuous	Proposed Corridor Link Cut
PR-CORR-LINK-FILL	3 (green)	0.25	0.65	Continuous	Proposed Corridor Link Fill
PR-CORR-PNT	7 (white)	0.25	0.65	Continuous	Proposed Corridor Point
PR-CTCHMNT-FLOW	4 (cyan)	0.5	0.65	CENTER2	Proposed Catchment Flow
PR-CTCHMNT-POST	3 (green)	0.25	0.65	Continuous	Proposed Catchment Post
PR-CTCHMNT-PRE	1 (red)	0.25	0.65	HIDDEN2	Proposed Catchment Pre
PR-CTCHMNT-TEXT	2 (yellow)	0.25	0.65	Continuous	Proposed Catchment Flow-Labeling
PR-PRCL-BLK	3 (green)	0.25	0.65	Continuous	Proposed Centerline BLK
PR-PRCL-ESMT	2 (yellow)	0.25	0.65	Continuous	Proposed Centerline ESMT
PR-PRCL-LOT	1 (red)	0.25	0.65	Continuous	Proposed Centerline LOT
PR-PROF	4 (cyan)	0.5	0.65	Continuous	Proposed Profile
PR-PROF-CURB	4 (cyan)	0.5	0.65	Continuous	Proposed Profile Curb
PR-PROF-OFFS	4 (cyan)	0.5	0.65	Continuous	Proposed Profile Offsets
PR-PROF-SUBG	4 (cyan)	0.5	0.65	HIDDEN2	Proposed Profile Subgrade
PR-PROF-TEXT	50	0.4	0.65	Continuous	Proposed Profile-Labeling

AutoCAD Layering Guide *All existing base layers to be colour 252 when used in contract drawings.					
Layer Name	***Colour**	**Pen Size**	**Text Height (1:250)**	**Linetype**	**Description**
PR-PROF-TEXT-GB	3 (green)	0.25	0.65	Continuous	Proposed Profile-Labeling-GB
PR-PROF-TEXT-VC	3 (green)	0.25	0.65	Continuous	Proposed Profile-Labeling-VC
PR-PROF-VIEW	90	0.5	0.65	Continuous	Proposed Profile View
PR-PROF-VIEW-HATC	1 (red)	0.25	0.65	Continuous	Proposed Profile View Hatch
PR-PROF-VIEW-MAJR	90	0.5	0.65	Continuous	Proposed Profile View Major
PR-PROF-VIEW-MINR	252	0.25	0.65	DOT	Proposed Profile View Minor
PR-PROF-VIEW-TEXT	90	0.5	0.65	Continuous	Proposed Profile View-Labeling
PR-ROAD-CL	4 (cyan)	0.5	0.65	Continuous	Proposed Road
PR-ROAD-CURB	50	0.4	0.65	Continuous	Proposed Road Curb
PR-ROAD-CURB-GUTT	1 (red)	0.25	0.65	CENTER2	Proposed Road Curb Gutter
PR-ROAD-EDGE	4 (cyan)	0.5	0.65	Continuous	Proposed Road Edge
PR-ROAD-HATC-CONC	231	0.35	0.65	Continuous	Proposed Road Hatch Concrete
PR-ROAD-HATC-INTER	231	0.35	0.65	Continuous	Proposed Road Hatch Interlock
PR-ROAD-HATC-PAVE	230	0.21	0.65	Continuous	Proposed Road Hatch Pavement
PR-ROAD-SHLD	50	0.4	0.65	Continuous	Proposed Road Shoulder
PR-ROAD-SIDEWALK	4 (cyan)	0.5	0.65	Continuous	Proposed Road Sidewalk
PR-SAN-PL	240	0.5	0.65	Continuous	Proposed Road Sanitary Plan
PR-SECT	4 (cyan)	0.5	0.65	Continuous	Proposed Section
PR-SECT-HATC-ASPLT	230	0.21	0.65	Continuous	Proposed Section Hatch Asphalt
PR-SECT-HATC-BASE	32	0.01	0.65	Continuous	Proposed Section Hatch Base
PR-SECT-HATC-CONC	231	0.35	0.65	Continuous	Proposed Section Hatch Concrete
PR-SECT-HATC-INTLK	231	0.35	0.65	Continuous	Proposed Section Hatch Interlock

AutoCAD Layering Guide *All existing base layers to be colour 252 when used in contract drawings.					
Layer Name	***Colour**	**Pen Size**	**Text Height (1:250)**	**Linetype**	**Description**
PR-SECT-MATR-TABL	7 (white)	0.25	0.65	Continuous	Proposed Section Material Table
PR-SECT-SAMP	1 (red)	0.25	0.65	Continuous	Proposed Section Sample
PR-SECT-SUB	4 (cyan)	0.5	0.65	Continuous	Proposed Section SUB
PR-SECT-TEXT	50	0.4	0.65	Continuous	Proposed Section-Labeling
PR-SECT-VIEW	100	0.45	0.65	Continuous	Proposed Section View
PR-SECT-VIEW-MAJR	100	0.45	0.65	Continuous	Proposed Section View Major
PR-SECT-VIEW-MINR	252	0.25	0.65	DOT	Proposed Section View Minor
PR-SECT-VIEW-TEXT	50	0.4	0.65	Continuous	Proposed Section View-Labeling
PR-TOPO-CONT-MAJR	4 (cyan)	0.5	0.65	Continuous	Proposed Topo Contour Major
PR-TOPO-CONT-MINR	1 (red)	0.25	0.65	Continuous	Proposed Topo Contour Minor
PR-TOPO-DTCH	5 (blue)	0.25	0.65	DITCH500	Proposed Topo Ditch
PR-TOPO-DYLGHT	142	0.01	0.65	Continuous	Proposed Topo Daylight
PR-TOPO-DYLGHT-CUT	1 (red)	0.25	0.65	Continuous	Proposed Topo Daylight-Cut
PR-TOPO-DYLGHT-FILL	3 (green)	0.25	0.65	Continuous	Proposed Topo Daylight-Fill
PR-TOPO-GRAD	231	0.35	0.65	HIDDEN	Proposed Topo Grading
PR-TOPO-GRAD-TOE	231	0.35	0.65	HIDDEN	Proposed Topo Grading-TOE
PR-TOPO-GRAD-TOP	4 (cyan)	0.5	0.65	HIDDEN	Proposed Topo Grading-Top
PR-TOPO-TABL	7 (white)	0.25	0.65	Continuous	Proposed Topo Table
PR-TOPO-TEXT	2 (yellow)	0.25	0.65	Continuous	Proposed Topo-Labeling
PR-TOPO-TINN-ANAL	15	0.01	0.65	Continuous	Proposed Topo Tin-ANAL
PR-TOPO-TINN-BRDR	250	0.06	0.65	Continuous	Proposed Topo Tin-BRDR
PR-TOPO-TINN-LINE	250	0.06	0.65	Continuous	Proposed Topo Tin Line

AutoCAD Layering Guide *All existing base layers to be colour 252 when used in contract drawings.					
Layer Name	***Colour**	**Pen Size**	**Text Height (1:250)**	**Linetype**	**Description**
PR-TOPO-TINN-PNTS	250	0.06	0.65	Continuous	Proposed Topo Tin Points
PR-UTIL-SANS	240	0.5	0.65	PRSAN250	Proposed Sanitary Sewer
PR-UTIL-SANS-TEXT	240	0.5	0.65	Continuous	Proposed Sanitary Sewer-Labeling
PR-UTIL-STRM	4 (cyan)	0.5	0.65	STORM	Proposed Storm Sewer
PR-UTIL-STRM-TEXT	4 (cyan)	0.5	0.65	Continuous	Proposed Storm Sewer-Labeling
PR-UTIL-TABL	7 (white)	0.25	0.65	Continuous	Proposed Utility Table
PR-UTIL-WATR	150	0.5	0.65	PRWM250	Proposed Watermain
PR-UTIL-WATR-TEXT	150	0.5	0.65	Continuous	Proposed Watermain-Labeling

3. Text Styles and Heights

The AutoCAD Layering Guide gives text height examples for a 1:250 scale drawing. For drawings at a 1:500 scale the text heights are multiplied by a factor of two.

4. Colour Tables

All drawings submitted shall be in accordance with the following, AutoCAD Colour – Dependent Plot Style Tables.

4.1 Colour Dependent Plot Style Tables

Region of Durham A1.CTB

1 (red)	0.25	50	0.40	171	0.30
2 (yellow)	0.25	52	0.30	180	0.25
3 (green)	0.25	60	0.19	200	0.80
4 (cyan)	0.50	72	0.01	210	1.40
5 (blue)	0.25	74	0.01	212	0.65
6 (magenta)	1.00	75	0.13	220	1.00
7 (white)	0.25	80	0.25	221	0.25
8	0.13	90	0.50	230	0.21
9	0.25	100	0.45	231	0.35
10	0.13	101	0.50	232	0.30
11	0.13	110	0.25	240	0.50
12	0.25	115	0.70	241	0.45
13	0.50	130	0.60	242	0.25
14	0.19	131	0.50	250	0.06
15	0.01	142	0.01	251	0.13
20	0.25	150	0.50	252	0.25
30	0.25	151	0.45	253	0.13
32	0.01	152	0.01	254	0.19
40	1.00	154	0.01	255	0.30
41	0.25	160	0.70		
42	0.13	170	0.25		

Region of Durham 11 x 17.CTB

1 (red)	0.10	42	0.06	160	0.30
2 (yellow)	0.10	50	0.20	171	0.12
3 (green)	0.10	52	0.15	180	0.10
4 (cyan)	0.25	60	0.06	200	0.30
5 (blue)	0.10	75	0.06	210	0.30
6 (magenta)	0.50	72	0.15	212	0.30
7 (white)	0.10	74	0.15	220	0.50
8	0.06	80	0.12	221	0.17
9	0.10	90	0.30	230	0.10
10	0.06	100	0.22	231	0.17
11	0.06	101	0.25	232	0.20
12	0.15	110	0.12	240	0.30
13	0.25	115	0.30	241	0.10
14	0.15	130	0.30	242	0.12
15	0.15	131	0.15	250	0.06
20	0.10	142	0.15	251	0.06
30	0.12	150	0.30	252	0.05
32	0.15	151	0.22	253	0.06
40	0.35	152	0.15	254	0.06
41	0.10	154	0.15	255	0.15

5. Line Types

The figure below illustrates the line types to be used when preparing Region of Durham drawings. Also refer to the 03 Legend & Abbreviations Template Drawing and current Region of Durham Civil 3D.dwt file. All custom, Region of Durham, line types are available electronically upon request, in Line Types folder, file REGION OF DURHAM.LIN.

Line Types for AutoCAD Drawings

AutoCAD Drawing Scale	1:250	1:500
LTSCALE for AutoCAD Drawings	1	2

*PRSAN250,----- - - ----- - - ----- - - -----, LTSCALE 1 LINE THICKNESS(.14)
A, 13.5,-0.8,1.905,-0.8,1.905,-0.8

*PRWM250,---- - ---- - ---- - ----,LTSCALE 1 LINE THICKNESS(.14)
A, 8,-1.2,1.2,-1.2

*PRSAN500,----- - - ----- - - ----- - - -----, LTSCALE 2 (LINE THICKNESS(.30))

A, 13.5,-0.8,1.905,-0.8,1.905,-0.8

*PRWM500,---- - ---- - ---- - ----,LTSCALE 2 (LINE THICKNESS(.30))
A, 8,-1.2,1.2,-1.2

STORM,- - - - - - - - - -, LTSCALE 1 AND 2
A, 1.64,-2

6. Symbols

The following standard symbols are available electronically and are to be used on all engineering drawings for Region of Durham contracts. Also refer to the 03 Legend & Abbreviations Template Drawing and current Region of Durham Civil 3D.dwt file.

Existing - Includes all existing topographic symbols.

Miscellaneous - Includes various symbols e.g. benchmarks, ditch arrows etc.

Proposed - Includes proposed symbols for road, storm sewer, sanitary sewer, and watermain designs at 1:250 & 1:500 scales.

7. Hatch Patterns

The following AutoCAD Hatching Guide is to be used for the Region of Durham custom hatch patterns. Custom, Region of Durham, hatch patterns are available electronically upon request, in Hatch Pattern folder, file CL&GB.pat.

AutoCAD Hatching Guide

Description	Hatch Pattern	Angle	Layer Name	Colour	Pen Size
CLEARING	ANSI31	0 º	EX-TOPO-MARSH	1 (red)	0.25
CLEARING & GRUBBING	CL&GB	0 º			
CONCRETE-PROPOSED	AR-CONC	0 º	PR-ROAD-HATC-CONC	231	0.35
EARTH PROFILE	EARTH	0 º			
GRUBBING	DASH	135 º			
INTERLOCK	AR-HBONE	0 º	EX-MISC-INTERLOCK-	7 (white)	0.25
PAVEMENT REMOVAL- FULL DEPTH	ANSI31	90 º	PR-ROAD-HATC	231	0.35
PAVEMENT REMOVAL- PARTIAL DEPTH	TRANS	45 º	PR-ROAD-HATC	231	0.35
PAVEMENT – PROPOSED	DOTS	45 º	PR-ROAD-HATC-PAVE	231	0.35
RIP RAP	GRAVEL	15 º			
ROCK PROFILE	AR-PARQ1	0 º			
SANITARY SEWER- PROFILE	DOTS	45 º	PR-UTIL-SAN	231	0.35
STORM SEWER-PROFILE	DOTS	45 º	PR-UTIL-STM	231	0.35
SWAMP	DASH	0 º	EX-TOPO-MARSH	1 (red)	0.25
WATERMAIN-PROFILE (WATERMAIN WORK ONLY)	DOTS	45 º	PR-UTIL-WATER	231	0.35
WATERMAIN-PROFILE (WATERMAIN & SAN SEWER WORK)	SACNCR	0 º	PR-UTILWATER	231	0.35

8. Drawing Templates

The following is a list of Template Drawings, which are included in this section and available electronically upon request.

01 Title Page Template Drawing – title page for Region of Durham contracts.

02 Drawing Index Template Drawing - Index to drawings for contracts that are too large to be indexed on the Title Page

03 Legends & Abbreviations Template Drawing – legends and abbreviation page to be included in all contracts

04 Road & Storm Sewer Plan and Profile (Scale 1:250) Template Drawing - Plan and Profile page for 1:250 scale for road and storm sewer drawing.

05 Road & Storm Sewer Plan and Profile (Scale 1:500) Template Drawing - Plan and Profile page for 1:500 scale for road and storm sewer drawing. Available in electronic format only.

06 Sanitary Sewer & Watermain Plan and Profile (Scale 1:250) Template Drawing – Plan and Profile page for 1:250 sanitary and watermain drawing.

07 Sanitary Sewer & Watermain Plan and Profile (Scale 1:500) Template Drawing – Plan and Profile page for 1:500 sanitary and watermain drawing. Available in electronic format only.

08 Horizontal Title Block – Title block is along the bottom of the page and is only to be used on site specific jobs and with the Project Engineer’s approval.

9. Drawing Samples

The following is a list of Sample Drawings, which are included in this section and available electronically upon request.

01 Tie Sheet - Ties to the center line of construction sample drawing.

02 Construction Staging.

03 Removals – Typical removals sample drawing.

04 Road and Storm Sewer Plan and Profile – Typical road and storm sewer contract sample drawing (Scale 1:250).

05 Sanitary Sewer & Watermain Plan and Profile – Typical sanitary sewer and watermain sample drawing.

06 Typical Sections – Typical sections sample drawing.

07 Pavement Elevation Layout – Typical pavement elevation layout sample drawing.

08 Pavement Marking and Signage Sample – Typical pavement marking and signage sample drawing.

09 Landscaping.

10 Cross Sections.

11 As-Built (Capital) – Typical as-built sample drawing for Regional contracts.

12 As-Built (Subdivision) – Typical as-built sample drawing for subdivisions.