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Hunter Water Corporation A.B.N. 46 228 513 446
Standard Technical Specification for:

PREPARATION OF CIVIL AND STRUCTURAL ENGINEERING DRAWINGS

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CONTENTS

1.	PURPOSE AND SCOPE.....	3
2.	INFORMATION PROVIDED.....	3
3.	DRAWING REQUIREMENTS	4
3.1.	Standards.....	4
3.2.	AutoCAD Version	4
3.3.	File format	4
3.4.	Drawing size.....	4
3.5.	Copyright.....	4
4.	DRAWING NUMBERS.....	4
5.	DRAWING SPECIFICATIONS.....	5
5.1.	Drawing environment.....	5
5.2.	Text styles	6
5.3.	Dimensioning	6
5.4.	Line types.....	6
5.5.	Entity Colour and Line Weights	7
5.6.	Layering structure.....	7
5.7.	Title block Information	7
5.8.	Plotted Drawing Identification	7
5.9.	External References	7
5.10.	Multiple Sheet Layouts	7
5.11.	Scales	7
5.12.	Plotting of Drawings	7
5.13.	Hatching and Shading	8
5.14.	Symbols	8
5.15.	Abbreviations	8
5.16.	Images	8
6.	MODIFICATIONS TO DRAWINGS	8
6.1.	Drawing Revision	8
6.2.	Highlighting revisions.....	9
7.	SUPPLY OF DRAWINGS	9
8.	APPENDICES.....	10
	APPENDIX 1 – LAYERING CONVENTION FOR A3 DRAWINGS.....	11
	APPENDIX 2 – LAYERING CONVENTION FOR A1 DRAWINGS.....	17
	APPENDIX 3 – SAMPLE A3 TEMPLATE	23
	APPENDIX 4 – SAMPLE A1 TEMPLATE	24
	APPENDIX 5 – STANDARD LINE TYPES FOR A3 DRAWINGS	25
	APPENDIX 6 – STANDARD LINE TYPES FOR A1 DRAWINGS	26

1. PURPOSE AND SCOPE

This Standard Technical Specification details the preparation and submission of all civil and structural engineering design drawings to Hunter Water Corporation (HWC).

It does not cover Work as Constructed (WAC) requirements which are specified in STS903 and electrical drawings which are specified in STS904.

2. INFORMATION PROVIDED

It is the user's responsibility to ensure the current Standard and associated drawing files are downloaded from www.hunterwater.com.au before the project is commenced.

The following information will be provided by HWC:

Information	Description	Source
Drawing Set Number	Project drawing number	plan_room@hunterwater.com.au
Equipment Number	HWC Equipment number	HWC Project Manager
Asset Name	HWC Asset name	HWC Project Manager
Index Number	HWC Index number	HWC Project Manager

Drawing setup files:

HWC_Custom.shp	AutoCAD Shape file	Technical Information Package
HWC_Custom.shx	AutoCAD Shape file	Technical Information Package
HWC.ctb	Standard plot style pen table	Technical Information Package
HWC_scale.ctb	A1 to A3 plot style pen table	Technical Information Package
Readme.pdf	Technical drawing notes	Technical Information Package

A3 drawings:

HWC Civil_A3.dws	Drawing standards file	Technical Information Package
HWC Civil_A3.dwt	Drawing template	Technical Information Package
HWC Lne types_A3.dwg	Standard line types	Technical Information Package
HWC_A3.lin	Line type file	Technical Information Package

A1 drawings:

HWC Civil_A1.dws	Drawing standards file	Technical Information Package
HWC Civil_A1.dwt	Drawing template	Technical Information Package
HWC Line types_A1.dwg	Standard line types	Technical Information Package
HWC_A1.lin	Line type file	Technical Information Package

If required the following information will also be provided by HWC:

Information	Source
Maintenance hole number	HWC Project Manager
Maintenance shaft number	HWC Project Manager

Line number	HWC Project Manager
Vent number	HWC Project Manager
Flow relief structure number	HWC Project Manager

3. DRAWING REQUIREMENTS

3.1. Standards

Drawings supplied to HWC shall comply with Australian Standards:

AS 1000	The international system of units (SI) and its application
AS 1100	Technical drawing - General principles
AS 1100.201	Part 201: Mechanical drawing
AS 1100.401	Part 401: Engineering survey and engineering survey design drawing
AS 1100.501	Part 501: Structural engineering drawing
AS 1101	Graphic symbols for general engineering - Hydraulic and pneumatic systems
AS 60417	Graphical symbols for use on equipment - Overview and application
HB7	Engineering Drawing Handbook

Complete drawings using the supplied AutoCAD standard file HWC Civil_A3.dws or HWC Civil_A1.dws.

3.2. AutoCAD Version

Supply all drawings in the latest release of AutoCAD or previous two versions.

3.3. File format

Supply all drawings in AutoCAD DWG and Adobe PDF file format.

3.4. Drawing size

Prepare drawings as A3 or A1 using supplied drawing templates HWC Civil_A3.dwt or HWC Civil_A1.dwt. The template contains layer, line type, text and dimension style definitions, sheet frame and title block.

3.5. Copyright

Files provided by HWC for the preparation of drawings shall remain the copyright property of HWC. They shall not be changed or modified.

Files submitted to HWC shall become the copyright property of HWC.

4. DRAWING NUMBERS

The drawing number consists of three segments of information. The segments define a valid drawing number:

1. Drawing set number
2. Sheet number (3 characters)
3. Revision number (2 characters)

eg.

15100-001_0A.dwg

Drawing set number	Sheet number	Revision
--------------------	--------------	----------

or

15100-001_01.dwg

Drawing set number	Sheet number	Revision
--------------------	--------------	----------

TITLE: CG370202 SANDGATE WWPS SSSH0105 SITE PLAN					
SIZE: A3	SCALE: NTS	INDEX No.	DRAWING No. 151500	SHEET 001	REV No. 01
R	S	T	U	V	Z

5. DRAWING SPECIFICATIONS

5.1. Drawing environment

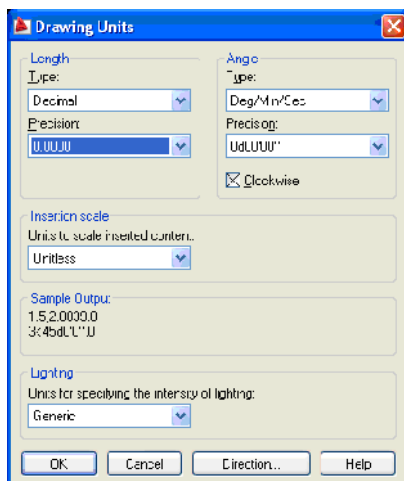
Supply drawings in AutoCAD model and paper space.

Create all structures in model space with co-ordinates in Map Grid of Australia (GDA94 Zone 56) and levels in Australian Height Datum (AHD) at a scale of one to one.

Insert dimensions, labels and annotation text in model space. Insert the drawing frame, general notes, reference drawing list, material list, pipe work schedule and other notation in "paper space".

Set the AutoCAD system variable "Measurement" to "1". (i.e. Metric)

Set Drawing units to:





Call up Sections and Views alphabetically using capital letters. e.g. Section A. Call up Details numerically e.g. Details 1. Arrange sections, views and details in sequential order left to right, top to bottom on the drawing sheet.

5.2. Text styles

All text shall be in accordance with the following:

A3 Drawings

Text height	Application	Font	Style	Width Factor	Oblique Angle
1.8mm	Notes and Dimensions	ISOCP	T18	1	0
2.5mm	Labels and Sub Headings	ISOCP	T25	1	0
3.5mm	Main Headings	ISOCP	T35	1	0
5.0mm	Drawing & Index numbers	ISOCP	T50	1	0

A1 Drawings

Text height	Application	Font	Style	Width Factor	Oblique Angle
3.5mm	Notes and Dimensions	ISOCP	T35	1	0
5.0mm	Labels and Sub Headings	ISOCP	T50	1	0
7.0mm	Main Headings	ISOCP	T70	1	0

Text shall be upper case. Use lower case lettering for abbreviations for unit of measure. Do not place text directly on line work or symbols. Text must be readable from bottom or right hand side of the drawing.

5.3. Dimensioning

Each dimension shall be a single AutoCAD entity. The AutoCAD dimension style shall be CIV or SVY to suit display scale as defined in the drawing template file.

5.4. Line types

Set the AutoCAD entity's "Linetype" property to "Bylayer".

Set the AutoCAD system variables "Ltscale" and "Psltscale" to "1". Individual elements shall have a constant Ltscale of 1.

Line types referenced in the template file shall only be accepted.

5.5. Entity Colour and Line Weights

Set the drawing entity's colour, line weight and plot pen thickness to:

AutoCAD entity	Property
Colour	Bylayer
Lineweight	Bylayer
Plot Style	Bycolor

5.6. Layering structure

Use layers supplied in the template file and referenced in Appendix 1 – Layering Convention for A3 drawings and Appendix 2 – Layering Convention for A1 drawings. Freeze layers not required in the drawing.

5.7. Title block Information

Complete all title block text attribute fields. Do not place company logos on the drawing. The company's abbreviated name shall be detailed in the allocated area on the standard border. Insert consultant's project reference number in appropriate field.

5.8. Plotted Drawing Identification

The file path, name and last plotted information are inserted as an RTEXT element. This shall not be removed.

5.9. External References

Drawings containing external references shall not be accepted. Convert all external references to AutoCAD inserted "Blocks" prior to submission. Binding the reference file and layers containing external reference file names shall not be accepted.

All external reference files inserted as blocks shall be inserted on layer 0 (zero). External reference files must not contain additional layers to those provided in the HWC template.

5.10. Multiple Sheet Layouts

Multiple sheet layouts in a single file shall not be accepted. Only one layout shall be saved in an individual .DWG file. If multiple sheet layouts are used to produce drawings each sheet shall be saved to an individual file and unwanted sheets removed before submission.

5.11. Scales

AS1100 scales shall only be used. Scales shall be as adopted from Table 5.1 and 5.2 only on original sized documents.

5.12. Plotting of Drawings

Plotted drawings shall:

- a) Be Colour dependant plot style using pen style table "HWC.ctb" or "HWC_scale.ctb".
- b) Have Default plotter set as "*default windows system printer*"

5.13. Hatching and Shading

Use hatching or shading to clarify or enhance the drawing content. It shall be “bylayer” for colour, line type and weight and be consistent throughout the drawing set. Place hatching on hatching layers referenced in Appendix 1 – Layering Convention for A3 drawings and Appendix 2 – Layering Convention for A1 drawings.

5.14. Symbols

Use symbols where appropriate. List and define symbols on a Symbols and Abbreviations drawing towards the front of drawing set.

5.15. Abbreviations

Use abbreviations where appropriate. List and define abbreviations on the Abbreviations and Symbols drawing.

5.16. Images

Keep the use of images to a minimum. Place images on the defined layer and set ‘imageframe’ system variable to 2. The inserted image shall have a box with diagonal line placed around it on the defpoints layer to indicate extents. Text shall be placed along the line to identify the image file name.

Image file names shall comply with the following:

- a) Drawing set number
- b) 3 letter image identifier prefix (IMG)
- c) Image descriptor (eg. locality map)

eg. 14919-IMG-locality_map.jpg

The following files are accepted:

Extension	Description
*.ecw	ECW Compressed Image Format
*.gif	Graphics Interchange Format
*.jpg	JPEG File Interchange Format
*.jpeg	JPEG File Interchange Format
*.jp2	JPEG 2000
*.j2k	JPEG 2000
*.tif	Tagged Image File Format
*.tiff	Tagged Image File Format
*.bmp	Windows Bitmap

Insert image files using relative paths to avoid loss of data when submitted. Locate all files in the same directory as the drawing they are inserted in. Transmit all image files with the drawings when drawing files are submitted.

6. MODIFICATIONS TO DRAWINGS

6.1. Drawing Revision

Drawings supplied during review stages of a design shall be given a sequential letter.


eg. Revision A - 1st Draft, Revision B - 2nd Draft and Revision C - Client Review etc

Once a drawing has been approved for Construction it shall be given a revision status of 0 (zero). eg. Revision 0 - Construction Issue

When an amendment is made to the drawing following construction issue, the drawings shall display the next sequential number in the title block such as a '1', '2' or '3'.

eg. Revision 1 - Dimension Updated and Revision 2 - Work-As-Constructed

The revision box of the drawing shall be updated with the revision number and description of the amendment before the drawing is re-issued. eg.

				CONSULTANT DETAILS:		
2	WORK AS CONSTRUCTED	DW	12/10/08			
1	DIMENSION ADDED	HG	25/05/08			
0	CONSTRUCTION	PT	25/03/08			
B	SECOND DRAFT	AB	04/09/07			
A	FIRST DRAFT	TA	06/08/07	CONSULT. REFERENCE No.		
No.	REVISION DETAILS		DWN	DATE		
A	B	C	D	E	F	G H J K

Plot Date: 02/11/10 - 10:21 Cad File: M:\ADMINISTRATION\HWC\CIVIL\2010 REVISED\New Folder\HWC Civil_A1.dwt

6.2. Highlighting revisions

Amendment triangle/s containing the revision number shall be placed adjacent to the modified section when changes to the final design drawing have been made. Revision cloud/s shall also be used to highlight modifications. These shall be placed on the appropriate layer as referenced in Appendix 1 – Layering Convention for A3 drawings and Appendix 2 – Layering Convention for A1 drawings.

Revision symbols and clouds shall be in “paperspace” and removed or placed on a frozen layer when drawings are revised as Work as Constructed.

7. SUPPLY OF DRAWINGS

Supply draft design drawings for review as A3 hard copies and PDF files. HWC may also request the .DWG files of the drawings.

Supply final design drawings and any subsequent amendments as full size hard copies and .DWG and PDF files on CD/DVD.

Drawings supplied to HWC shall be:

1	Edited to remove all entities in "Model" space which are not part of the final design.
2	Purged to remove all irrelevant blocks, layers, text styles.
3	Checked using relevant Drawing Standards file *.dws
4	Checked for errors using the AutoCAD "Audit" command and any encryption or passwords removed.
5	UCS set to "world".
6	Model view set to "plan".
7	Ltscale set to 1
8	PSLtscale set to 1
9	Plotted using the relevant HWC *.ctb file.
10	Default plotter set as " <i>default windows system printer</i> ".
11	Saved in "zoom extends" format in paper space.
12	Viewport layer frozen off for display.
13	Viewports locked for display.

8. APPENDICES

Appendix 1 – Layering Convention for A3 drawings

Appendix 2 – Layering Convention for A1 drawings

Appendix 3 – Sample A3 template

Appendix 4 – Sample A1 template

Appendix 5 – Standard Line Types for A3 drawings

Appendix 6 – Standard Line Types for A1 drawings

APPENDIX 1 – LAYERING CONVENTION FOR A3 DRAWINGS

DISCIPLINE	LAYER NAME	COLOUR	LINETYPE	LINEWEIGHT	PLOT	DESCRIPTION
STAMPS AND IMAGES	_CONSTRUCTION_ISSUE	10	CONTINUOUS	LINEWEIGHT035	TRUE	STAMP CONTROL IN PAPERSPACE
	_IMAGE	WHITE	CONTINUOUS	BYLINEWEIGHTDEFAULT	TRUE	TO HOST ALL IMAGE FILES USED IN THE DRAWING
	_ORIGIN_OF_LEVELS_STAMP	WHITE	CONTINUOUS	LINEWEIGHT035	TRUE	STAMP CONTROL IN PAPERSPACE
	_PRELIMINARY_ISSUE	10	CONTINUOUS	LINEWEIGHT035	TRUE	STAMP CONTROL IN PAPERSPACE
	_SEWER_PIPE_DATA_TABLE	WHITE	CONTINUOUS	BYLINEWEIGHTDEFAULT	TRUE	SEWER PIPE TABLE IN PAPERSPACE
	_WATER_PIPE_DATA_TABLE	WHITE	CONTINUOUS	BYLINEWEIGHTDEFAULT	TRUE	WATER PIPE TABLE IN PAPERSPACE
	_WORK_AS_CONSTRUCTED_STAMP	10	CONTINUOUS	LINEWEIGHT025	TRUE	STAMP CONTROL IN PAPERSPACE
GENERAL	0	WHITE	CONTINUOUS	BYLINEWEIGHTDEFAULT	TRUE	DEFAULT AUTOCAD LAYOUT AND NOT TO BE USED FOR LINEWORK
	BORDER	WHITE	CONTINUOUS	LINEWEIGHT025	TRUE	BORDER
	CENTRELINE_018	MAGENTA	AS_1100CHAIN2_5	LINEWEIGHT018	TRUE	ALL CENTRELINES FOR A3
CIVIL	CIV_BATTER	YELLOW	CONTINUOUS	LINEWEIGHT035	TRUE	LIMIT OF BATTERS
	CIV_BATTER_SLOPE_INDICATORS	WHITE	CONTINUOUS	LINEWEIGHT025	TRUE	BATTER SLOPE MARKS AND INDICATORS
	CIV_CONTOURS_DESIGN_LABELS	YELLOW	CONTINUOUS	LINEWEIGHT035	TRUE	DESIGN CONTOURS LABELS
	CIV_CONTOURS_DESIGN_MAJOR	YELLOW	CONTINUOUS	LINEWEIGHT035	TRUE	DESIGN CONTOURS MAJOR FOR ROADS, KERBS, BUILDING PADS, ETC
	CIV_CONTOURS_DESIGN_MINOR	WHITE	CONTINUOUS	LINEWEIGHT025	TRUE	DESIGN CONTOURS MINOR FOR ROADS, KERBS, BUILDING PADS, ETC
	CIV_CONTROL_CHAINAGE_TEXT	YELLOW	CONTINUOUS	LINEWEIGHT035	TRUE	ALL DESIGN CONTROL LINE CHAINAGES
	CIV_CONTROL_LINE_CHAINAGE_MARKER	RED	CONTINUOUS	LINEWEIGHT050	TRUE	ALL DESIGN CONTROL LINE CHAINAGE MARKERS
	CIV_CONTROL_LINES	YELLOW	AS_1100CHAIN2_5	LINEWEIGHT035	TRUE	ALL DESIGN CONTROL LINES AND CENTRELINES
	CIV_DRIVEWAYS	YELLOW	CONTINUOUS	LINEWEIGHT035	TRUE	DRIVEWAY OUTLINES
	CIV_EDGE_OF_PAVEMENT	RED	CONTINUOUS	LINEWEIGHT050	TRUE	EDGE OF ALL PAVEMENT FOR ROADS, HARDSTANDS ETC
	CIV_FILLS_AND_HATCHES	WHITE	CONTINUOUS	LINEWEIGHT025	TRUE	ALL HATCH AND SOLID FILLS
	CIV_FOOTPATH_CONCRETE	YELLOW	CONTINUOUS	LINEWEIGHT035	TRUE	ALL CONCRETE FOOTPATH OUTLINES PLAN AND SECTIONS
	CIV_KERB_BACK_OR_OUTLINE	RED	CONTINUOUS	LINEWEIGHT050	TRUE	BACK OF KERB FOR PLANS OR OUTLINE FOR SECTIONS
	CIV_KERB_INVERT	WHITE	AS_1100CHAIN2_5	LINEWEIGHT025	TRUE	INVERT OF KERB FOR PLANS
	CIV_KERB_LIP	YELLOW	CONTINUOUS	LINEWEIGHT035	TRUE	LIP OF KERB FOR PLANS
	CIV_LINEMARKING	YELLOW	CONTINUOUS	LINEWEIGHT035	TRUE	ALL LINEMARKING - CUSTOM LINETYPES MAY BE USED
	CIV_PAD_OUTLINES	RED	CONTINUOUS	LINEWEIGHT050	TRUE	OUTLINE OF BUILDING PAD, ROAD FORMATION, RAIL FORMATION, ETC
	CIV_SURFACE_CENTRE	MAGENTA	AS_1100CHAIN2_5	LINEWEIGHT018	TRUE	CIVIL SURFACE CENTERLINES
CIV_SURFACE_HATCH	WHITE	CONTINUOUS	LINEWEIGHT025	TRUE	CIVIL SURFACE HATCHES	

DISCIPLINE	LAYER NAME	COLOUR	LINETYPE	LINWEIGHT	PLOT	DESCRIPTION
	CIV_SURFACE_HIDDEN	WHITE	AS_1100DASHED2	LINWEIGHT025	TRUE	CIVIL SURFACE FEATURES THAT ARE IN HIDDEN PROJECTION
	CIV_SURFACE_MISC	MAGENTA	CONTINUOUS	LINWEIGHT018	TRUE	CIVIL MISCELLANEOUS SURFACE FEATURES
	CIV_SURFACE_OUTLINE	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	CIVIL SURFACE FEATURE OUTLINES
	CIV_TRENCH_OUTLINE	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	ALL SERVICE TRENCH OUTLINES, PLAN AND SECTIONS
	DEPOINTS	WHITE	CONTINUOUS	BYLINWEIGHTDEFAULT	FALSE	NON-PLOTTING LAYER GENERIC WITH AUTOCAD
	EXISTING_CONCRETE	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	CONCRETE PAVEMENTS AND SLAB THAT ARE EXISTING
	EXISTING_CONCRETE_HIDDEN	WHITE	AS_1100DASHED2	LINWEIGHT025	TRUE	CONCRETE PAVEMENTS AND SLAB THAT ARE EXISTING IN HIDDEN PROJECTION
	EXISTING_CONTOURS_LABELS	252	CONTINUOUS	LINWEIGHT025	TRUE	EXISTING GROUND CONTOUR HEIGHT LABELS TO SUIT SCALE
	EXISTING_CONTOURS_MAJOR	252	AS_1100DASHED2	LINWEIGHT025	TRUE	EXISTING GROUND CONTOURS MINOR INTERVALS >2M
	EXISTING_CONTOURS_MINOR	253	AS_1100DASHED2	LINWEIGHT018	TRUE	EXISTING GROUND CONTOURS MAJOR INTERVALS >2M
	EXISTING_LOTS	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	CADASTRE, BOUNDARIES FOR EXISTING LOTS
	EXISTING_PIPEWORK	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	ALL EXISTING PIPEWORK OUTLINE
	EXISTING_PIPEWORK_CENTRE	MAGENTA	AS_1100CHAIN2_5	LINWEIGHT018	TRUE	ALL EXISTING PIPEWORK CENTERLINES
	EXISTING_PIPEWORK_HIDDEN	WHITE	AS_1100DASHED2	LINWEIGHT025	TRUE	ALL EXISTING PIPEWORK HIDDEN LINES
	EXISTING_STEELWORK	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	STEELWORK THAT IS EXISTING
	EXISTING_STEELWORK_CENTRE	WHITE	AS_1100CHAIN2_5	LINWEIGHT025	TRUE	EXISTING STEELWORK CENTERLINES
	EXISTING_STEELWORK_HIDDEN	WHITE	AS_1100DASHED2	LINWEIGHT025	TRUE	STEELWORKS THAT ARE EXISTING IN HIDDEN PROJECTION
	EXISTING_STRUCTURES	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	BUILDINGS, HOUSES SHEDS
	EXISTING_STRUCTURES_CENTRE	MAGENTA	AS_1100CHAIN2_5	LINWEIGHT018	TRUE	EXISTING STRUCTURES CENTERLINES
	EXISTING_STRUCTURES_HIDDEN	WHITE	AS_1100DASHED2	LINWEIGHT025	TRUE	HIDDEN LINES FOR ALL STRUCTURES
	EXISTING_STRUCTURES_TO_BE_REMOVED	253	AS_1100DASHED2	LINWEIGHT025	TRUE	EXISTING STRUTURES TO BE REMOVED OR DEMOLISHED
	EXISTING_SURFACE	252	CONTINUOUS	LINWEIGHT025	TRUE	EXISTING GROUND SURFACE FEATURES
	EXISTING_SURFACE_HIDDEN	252	AS_1100DASHED2	LINWEIGHT025	TRUE	EXISTING GROUND SURFACE FEATURES IN HIDDEN PROJECTION
	EXISTING_VEGETATION	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	EXISTING VEGETATION, LARGE TREES, WOODED AREAS, PLANTS ETC
FUTURE	FUTURE_WORK	WHITE	AS_1100CHAINDD5_2_2	LINWEIGHT025	TRUE	ALL FUTURE WORKS, CONCRETE, STEEL, BUILDINGS, LOTS,ETC
REVISION CLOUDS	REV_1	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	REVISION CLOUD FOR 1ST REVISION
	REV_2	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	REVISION CLOUD FOR 2ND REVISION
	REV_3	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	REVISION CLOUD FOR 3RD REVISION
	REV_4	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	REVISION CLOUD FOR 4TH REVISION
	REV_5	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	REVISION CLOUD FOR 5TH REVISION

DISCIPLINE	LAYER NAME	COLOUR	LINETYPE	LINWEIGHT	PLOT	DESCRIPTION
	REV_6	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	REVISION CLOUD FOR 6TH REVISION
	REV_7	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	REVISION CLOUD FOR 7TH REVISION
	REV_8	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	REVISION CLOUD FOR 8TH REVISION
	REV_TRI	RED	CONTINUOUS	LINWEIGHT050	TRUE	REVISION TRIANGLE BLOCK AND TEXT ONLY IN PAPERSPACE
SERVICES NEW DESIGN	S_ABANDONED	RED	ABANDONED_SERVICE_OVERLINE	LINWEIGHT050	TRUE	SERVICE - ALL ABANDONED SERVICES TO BE OVERLINED WITH THIS LAYER AND LINSTYLE
	S_AIR_A_018	MAGENTA	COMPRESSED_AIR_ABOVE_G	LINWEIGHT018	TRUE	SERVICE - AIR ABOVEGROUND SHEET SIZE A3 (LINE GROUP 0.35)
	S_AIR_U_018	MAGENTA	COMPRESSED_AIR_BELOW_G	LINWEIGHT018	TRUE	SERVICE - AIR UNDERGROUND SHEET SIZE A3 (LINE GROUP 0.35)
	S_DOSING_A_018	MAGENTA	DOSING_LINE_ABOVE_G	LINWEIGHT018	TRUE	SERVICE - DOSING ABOVEGROUND SHEET SIZE A3 (LINE GROUP 0.35)
	S_DOSING_U_018	MAGENTA	DOSING_LINE_BELOW_G	LINWEIGHT018	TRUE	SERVICE - DOSING UNDERGROUND SHEET SIZE A3 (LINE GROUP 0.35)
	S_DRAIN_A_018	MAGENTA	DRAIN_ABOVE_G	LINWEIGHT018	TRUE	SERVICE - DRAINAGE ABOVEGROUND SHEET SIZE A3 (LINE GROUP 0.35)
	S_DRAIN_U_018	MAGENTA	DRAIN_BELOW_G	LINWEIGHT018	TRUE	SERVICE - DRAINAGE UNDERGROUND SHEET SIZE A3 (LINE GROUP 0.35)
	S_GAS_A_018	MAGENTA	GAS_ABOVE_G	LINWEIGHT018	TRUE	SERVICE - GAS UNDERGROUND
	S_GAS_U_018	MAGENTA	GAS_BELOW_G	LINWEIGHT018	TRUE	SERVICE - GAS ABOVEGROUND
	S_POWER_OH	MAGENTA	POWER_OH	LINWEIGHT018	TRUE	SERVICE - POWER OVERHEAD - HIGH VOLTAGE
	S_POWER_OH_HV	YELLOW	POWER_OH_HV	LINWEIGHT035	TRUE	SERVICE - POWER OVERHEAD - HIGH VOLTAGE
	S_POWER_UG	MAGENTA	ELECTRICAL_BELOW_G	LINWEIGHT018	TRUE	SERVICE - POWER UNDERGROUND
	S_POWER_UG_HV	YELLOW	ELECTRICAL_BELOW_G	LINWEIGHT035	TRUE	SERVICE - POWER UNDERGROUND
	S_SEWER_EFFLUENT_MAIN	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	SERVICE - SEWER EFFLUENT MAIN
	S_SEWER_GRAVITY_MAIN	RED	CONTINUOUS	LINWEIGHT050	TRUE	SERVICE - SEWER GRAVITY MAIN
	S_SEWER_OUTFALL	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	SERVICE - SEWER OUTFALL
	S_SEWER_OVERFLOW	BLUE	CONTINUOUS	LINWEIGHT070	TRUE	SERVICE - SEWER OVERFLOW
	S_SEWER_PRESSURE_BRANCH	GREEN	CONTINUOUS	LINWEIGHT050	TRUE	SERVICE - SEWER PRESSURE BRANCH
	S_SEWER_PRESSURE_SEWER	GREEN	CONTINUOUS	LINWEIGHT050	TRUE	SERVICE - SEWER PRESSURE
	S_SEWER_PRIVATE_MAIN	GREEN	CONTINUOUS	LINWEIGHT050	TRUE	SERVICE - PRIVATE SEWER MAIN
	S_SEWER_RELIEF_MAIN	RED	CONTINUOUS	LINWEIGHT050	TRUE	SERVICE - SEWER RELIEF MAIN
	S_SEWER_RISING_MAIN	MAGENTA	CONTINUOUS	LINWEIGHT018	TRUE	SERVICE - SEWER RISING MAIN
	S_SEWER_SCOUR	RED	CONTINUOUS	LINWEIGHT050	TRUE	SERVICE - SEWER SCOUR
	S_SEWER_VACUUM_MAIN	GREEN	CONTINUOUS	LINWEIGHT050	TRUE	SERVICE - VACUUM MAIN
S_SEWER_VENT_LINE	RED	CONTINUOUS	LINWEIGHT050	TRUE	SERVICE - SEWER VENT PIPE	

DISCIPLINE	LAYER NAME	COLOUR	LINETYPE	LINWEIGHT	PLOT	DESCRIPTION
	S_STORMWATER_A	BLUE	STORMWATER_ABOVE_G	LINWEIGHT070	TRUE	SERVICE STORMWATER
	S_STORMWATER_U	BLUE	STORMWATER_BELOW_G	LINWEIGHT070	TRUE	SERVICE STORMWATER
	S_WATER_MAIN	CYAN	CONTINUOUS	LINWEIGHT070	TRUE	SERVICE - WATER LINE ABOVEGROUND
	S_WATER_PROCESS	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	SERVICE - WATER PROCESSED
	S_WATER_RECYCLED_WATER	CYAN	CONTINUOUS	LINWEIGHT070	TRUE	SERVICE - WATER RECYCLED
	S_WATER_SCOUR	CYAN	CONTINUOUS	LINWEIGHT070	TRUE	SERVICE - WATER SCOUR
	S_WATER_SERVICE	CYAN	CONTINUOUS	LINWEIGHT070	TRUE	SERVICE - WATER SERVICE CONNECTION LINES
	S_WATER_SUBMAIN	CYAN	CONTINUOUS	LINWEIGHT070	TRUE	SERVICE - WATER SUB MAINS
STRUCTURAL	STR_BUILDING_CENTRE	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	BUILDING CENTRELINES AS REQUIRED
	STR_BUILDING_HATCH	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	BUILDING WORKS HATCHES
	STR_BUILDING_HIDDEN	WHITE	AS_1100DASHED2	LINWEIGHT025	TRUE	BUILDING WORKS HIDDEN DETAILS
	STR_BUILDING_MISC	MAGENTA	CONTINUOUS	LINWEIGHT018	TRUE	BUILDING BACKGROUND INFO AND MISCELLANEOUS DETAILS TO BE SHOWN LIGHTER
	STR_BUILDING_OUTLINE	RED	CONTINUOUS	LINWEIGHT050	TRUE	BUILDING WORKS OUTLINES
	STR_CONCRETE_CENTRE	MAGENTA	AS_1100CHAIN2_5	LINWEIGHT018	TRUE	CONCRETE WORKS CENTRELINES AS REQUIRED
	STR_CONCRETE_HATCH	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	ALL CONCRETE HATCHES
	STR_CONCRETE_HIDDEN	YELLOW	AS_1100DASHED2	LINWEIGHT035	TRUE	ALL CONCRETE HIDDEN LINE WORK
	STR_CONCRETE_MISC	MAGENTA	CONTINUOUS	LINWEIGHT018	TRUE	CONCRETE BACKGROUND INFO AND MISCELLANEOUS DETAILS TO BE SHOWN LIGHTER
	STR_CONCRETE_OUTLINE	RED	CONTINUOUS	LINWEIGHT050	TRUE	ALL CONCRETE OUTLINES, CAST INSITU, PLAN AND SECTIONS
	STR_MASONARY_HATCH	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	ANY MASONARY HATCHING, PLANS AND SECTIONS
	STR_MASONARY_HIDDEN	YELLOW	AS_1100DASHED2	LINWEIGHT035	TRUE	ANY MASONARY FEATURE IN BACKGROUD OR HIDDEN, PLAN AND SECTION
	STR_MASONARY_OUTLINE	RED	CONTINUOUS	LINWEIGHT050	TRUE	ALL MASONARY OUTLINES, BRICK, BLOCKWORK, PLAN AND SECTIONS
	STR_PIPEWORK_CENTRE	MAGENTA	AS_1100CHAIN2_5	LINWEIGHT018	TRUE	FOR DETAILING PIPEWORK OUTLINES IN STRUCTURES ONLY - CENTERLINES
	STR_PIPEWORK_HATCH	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	FOR DETAILING PIPEWORK OUTLINES IN STRUCTURES ONLY - HATCHES
	STR_PIPEWORK_HIDDEN	YELLOW	AS_1100DASHED2	LINWEIGHT035	TRUE	FOR DETAILING PIPEWORK OUTLINES IN STRUCTURES ONLY - HIDDEN LINES
	STR_PIPEWORK_MISC	MAGENTA	CONTINUOUS	LINWEIGHT018	TRUE	FOR DETAILING PIPEWORK OUTLINES IN STRUCTURES ONLY - BACKGROUND INFO
	STR_PIPEWORK_OUTLINE	RED	CONTINUOUS	LINWEIGHT050	TRUE	FOR DETAILING PIPEWORK OUTLINES IN STRUCTURES ONLY
	STR_REINFORCEMENT_BARS	RED	CONTINUOUS	LINWEIGHT050	TRUE	ALL BAR REINFORCEMENT
	STR_REINFORCEMENT_MESH	YELLOW	AS_1100DASHED3	LINWEIGHT035	TRUE	ALL MESH AND FABRIC AND TRENCH MESH FOR SECTIONS
	STR_STEELWORK_CENTRE	MAGENTA	AS_1100CHAIN2_5	LINWEIGHT018	TRUE	STEELWORK CENTERLINES AS REQUIRED
STR_STEELWORK_HATCH	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	ANY STEELWORK HATCHING, PLAN AND SECTIONS	
STR_STEELWORK_HIDDEN	YELLOW	AS_1100DASHED2	LINWEIGHT035	TRUE	ANY STEELWORK FEATURE IN BACKGROUND OR HIDDEN, PLAN AND SECTIONS	

DISCIPLINE	LAYER NAME	COLOUR	LINETYPE	LINWEIGHT	PLOT	DESCRIPTION
	STR_STEELWORK_MISC	MAGENTA	CONTINUOUS	LINWEIGHT018	TRUE	STEELWORK BACKGROUND INFO AND MISCELLANEOUS DETAILS TO BE SHOWN LIGHTER
	STR_STEELWORK_OUTLINE	RED	CONTINUOUS	LINWEIGHT050	TRUE	ALL STEELWORK OUTLINES, EXPOSED EDGES, PLAN AND SECTIONS
	STR_TIMBER_OUTLINE	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	ALL TIMBER WORK PLAN AND SECTIONS
SURVEY/EXISTING	SVY_BACK_OF_KERB	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	SURVEY - BACK OF KERBS
	SVY_BOUNDARY_EXISTING	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	SURVEY - LOT BOUNDARIES EXISTING AS SURVEYED
	SVY_BOUNDARY_PROPOSED	RED	CONTINUOUS	LINWEIGHT050	TRUE	SURVEY - LOT BOUNDARIES PROPOSED
	SVY_BUILDING	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	SURVEY - BUILDING OUTLINES AND EXTENTS
	SVY_BUILDING_OVERHANG	MAGENTA	AS_1100DASHED2	LINWEIGHT018	TRUE	SURVEY - BUILDING OVERHANGS ROOF OUTLINES AWNINGS ETC
	SVY_CATCH_DRAIN	WHITE	CATCH_DRAIN_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - CATCH DRAIN OR CUT OFF DRAIN
	SVY_COMPRESSED_AIR_ABOVE	WHITE	COMPRESSED_AIR_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - COMPRESSED AIR ABOVE GROUND
	SVY_COMPRESSED_AIR_BELOW	WHITE	COMPRESSED_AIR_BELOW_G	LINWEIGHT025	TRUE	SURVEY - COMPRESSED AIR BELOW GROUND
	SVY_CONCRETE	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	SURVEY - CONCRETE OUTLINES AND PAVEMENT EDGES
	SVY_DISH_DRAIN	WHITE	DISH_DRAIN	LINWEIGHT025	TRUE	SURVEY - DISH DRAINS
	SVY_DRAIN_ABOVE	WHITE	DRAIN_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - DRAINAGE LINE ABOVE GROUND
	SVY_DRAIN_BELOW	WHITE	DRAIN_BELOW_G	LINWEIGHT025	TRUE	SURVEY - DRAINAGE LINE BELOW GROUND
	SVY_EDGE_OF_DRIVEWAY	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	SURVEY - EDGE OF DRIVEWAY
	SVY_EDGE_OF_FOOTPATH	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	SURVEY - EDGE OF FOOTPATH
	SVY_EDGE_OF_MEDIAN	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	SURVEY - EDGE OF TRAFFIC MEDIAN OR ISLAND
	SVY_EDGE_OF_PAVEMENT	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	SURVEY - EDGE OF PAVEMENT
	SVY_ELECTRICITY_ABOVE	WHITE	ELECTRICAL_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - ELECTRICAL ABOVE GROUND
	SVY_ELECTRICITY_BELOW	WHITE	ELECTRICAL_BELOW_G	LINWEIGHT025	TRUE	SURVEY - ELECTRICAL BELOW GROUND
	SVY_FENCE	MAGENTA	FENCE	LINWEIGHT018	TRUE	SURVEY - FENCES ALL TYPES
	SVY_FUEL_LINE_ABOVE	WHITE	FUEL_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - FUEL LINE ABOVE GROUND
	SVY_FUEL_LINE_BELOW	WHITE	FUEL_BELOW_G	LINWEIGHT025	TRUE	SURVEY - FUEL LINE BELOW GROUND
	SVY_FUEL_VENT_LINE_ABOVE	WHITE	FUEL_VENT_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - FUEL VENT LINE ABOVE GROUND
	SVY_FUEL_VENT_LINE_BELOW	WHITE	FUEL_VENT_BELOW_G	LINWEIGHT025	TRUE	SURVEY - FUEL VENT LINE BELOW GROUND
	SVY_GAS_LINE_ABOVE	WHITE	GAS_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - GAS LINE ABOVE GROUND
	SVY_GAS_LINE_BELOW	WHITE	GAS_BELOW_G	LINWEIGHT025	TRUE	SURVEY - GAS LINE BELOW GROUND
	SVY_GUARD_RAILS	MAGENTA	CONTINUOUS	LINWEIGHT018	TRUE	SURVEY - GUARD RAILS AND CRASH BARRIERS
	SVY_HATCHING	MAGENTA	CONTINUOUS	LINWEIGHT020	TRUE	SURVEY - HATCHING
	SVY_INVERT_OF_KERB	MAGENTA	AS_1100CHAIN2_5	LINWEIGHT018	TRUE	SURVEY - KERB INVERT WATER FLOW PATH

DISCIPLINE	LAYER NAME	COLOUR	LINETYPE	LINWEIGHT	PLOT	DESCRIPTION
	SVY_PAVEMENT_MARKING	MAGENTA	CONTINUOUS	LINWEIGHT018	TRUE	SURVEY - PAVEMENT MARKING PAINTED LINES
	SVY_PAVEMENT_MARKING_SYM	MAGENTA	CONTINUOUS	LINWEIGHT018	TRUE	SURVEY - PAVEMENT MARKING SYMBOLS ARROWS SPEED SIGNS ETC
	SVY_POINTS	MAGENTA	CONTINUOUS	LINWEIGHT018	FALSE	SURVEY - POINT HEIGHTS COLLECTED IN THE FIELD
	SVY_RAILTRACK_CENTRELINE	MAGENTA	RAILTRACK	LINWEIGHT018	TRUE	SERVICE - WATER LINE ABOVEGROUND SHEET SIZE A3 (LINE GROUP 0.35)
	SVY_SERVICE_DUCT_ABOVE	WHITE	SERVICE_DUCT_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - SERVICE DUCT ABOVE GROUND
	SVY_SERVICE_DUCT_BELOW	WHITE	SERVICE_DUCT_BELOW_G	LINWEIGHT025	TRUE	SURVEY - SERVICE DUCT BELOW GROUND
	SVY_SEWER_ABOVE	WHITE	SEWER_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - SEWER ABOVE GROUND
	SVY_SEWER_BELOW	WHITE	SEWER_BELOW_G	LINWEIGHT025	TRUE	SURVEY - SEWER BELOW GROUND
	SVY_SUBSOIL_DRAIN	WHITE	SUBSOIL_DRAIN	LINWEIGHT025	TRUE	SURVEY - SUBSOIL DRAINS
	SVY_SYMBOLS	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	SURVEY - SYMBOLS NOT RELATED TO ANY LAYER ABOVE
	SVY_TELEPHONE_ABOVE	WHITE	TELEPHONE_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - TELEPHONE ABOVE GROUND
	SVY_TELEPHONE_BELOW	WHITE	TELEPHONE_BELOW_G	LINWEIGHT025	TRUE	SURVEY - TELEPHONE BELOW GROUND
	SVY_TELEPHONE_OPTIC_ABOVE	WHITE	TELEPHONE_OPTIC_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - OPTIC FIBRE ABOVE GROUND
	SVY_TELEPHONE_OPTIC_BELOW	WHITE	TELEPHONE_OPTIC_BELOW_G	LINWEIGHT025	TRUE	SURVEY - OPTIC FIBRE BELOW GROUND
	SVY_UNIDENTIFIED_OBJECT_ABOVE	WHITE	UNDEFINED_OBJECT_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - UNDEFINED OBJECT ABOVE GROUND
	SVY_UNIDENTIFIED_OBJECT_BELOW	WHITE	UNDEFINED_OBJECT_BELOW_G	LINWEIGHT025	TRUE	SURVEY - UNDEFINED OBJECT BELOW GROUND
	SVY_WATER_ABOVE	WHITE	WATER_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - WATER PIPES ALL ABOVE GROUND
	SVY_WATER_BELOW	WHITE	WATER_BELOW_G	LINWEIGHT025	TRUE	SURVEY - WATER PIPES ALL UNDER GROUND
TEXT	TEXT_18	MAGENTA	CONTINUOUS	LINWEIGHT018	TRUE	ALL TEXT, ATTRIBUTED TAGS AND DIMENSIONS FOR A3
	TEXT_25	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	ALL TEXT, ATTRIBUTED TAGS AND DIMENSIONS FOR A3
	TEXT_35	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	ALL TEXT, ATTRIBUTED TAGS AND DIMENSIONS FOR A1, TITLES AND HEADINGS FOR A3
	TEXT_50	RED	CONTINUOUS	LINWEIGHT050	TRUE	ALL TEXT, ATTRIBUTED TAGS AND DIMENSIONS FOR A1, TITLES AND HEADINGS FOR A3
VIEWPORT	VIEWPORT	WHITE	CONTINUOUS	LINWEIGHT000	FALSE	VIEWPORT

APPENDIX 2 – LAYERING CONVENTION FOR A1 DRAWINGS

DISCIPLINE	LAYER NAME	COLOUR	LINETYPE	LINWEIGHT	PLOT	DESCRIPTION
STAMPS AND IMAGES	_CONSTRUCTION_ISSUE	10	CONTINUOUS	LINWEIGHT035	TRUE	STAMP CONTROL IN PAPERSPACE
	_IMAGE	WHITE	CONTINUOUS	BYLINWEIGHTDEFAULT	TRUE	TO HOST ALL IMAGE FILES USED IN THE DRAWING
	_ORIGIN_OF_LEVELS_STAMP	WHITE	CONTINUOUS	LINWEIGHT035	TRUE	STAMP CONTROL IN PAPERSPACE
	_PRELIMINARY_ISSUE	10	CONTINUOUS	LINWEIGHT035	TRUE	STAMP CONTROL IN PAPERSPACE
	_SEWER_PIPE_DATA_TABLE	WHITE	CONTINUOUS	BYLINWEIGHTDEFAULT	TRUE	SEWER PIPE TABLE IN PAPERSPACE
	_WATER_PIPE_DATA_TABLE	WHITE	CONTINUOUS	BYLINWEIGHTDEFAULT	TRUE	WATER PIPE TABLE IN PAPERSPACE
	_WORK_AS_CONSTRUCTED_STAMP	10	CONTINUOUS	LINWEIGHT025	TRUE	STAMP CONTROL IN PAPERSPACE
GENERAL	0	WHITE	CONTINUOUS	BYLINWEIGHTDEFAULT	TRUE	DEFAULT AUTOCAD LAYER AND NOT TO BE USED FOR LINEWORK
	BORDER	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	BORDER
	CENTRELINE_035	YELLOW	AS_1100CHAIN2_5	LINWEIGHT035	TRUE	ALL CENTRELINES FOR A1
CIVIL	CIV_BATTER	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	LIMIT OF BATTERS
	CIV_BATTER_SLOPE_INDICATORS	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	BATTER SLOPE MARKS AND INDICATORS
	CIV_CONTOURS_DESIGN_LABELS	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	DESIGN CONTOURS LABELS
	CIV_CONTOURS_DESIGN_MAJOR	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	DESIGN CONTOURS MAJOR FOR ROADS, KERBS, BUILDING PADS, ETC
	CIV_CONTOURS_DESIGN_MINOR	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	DESIGN CONTOURS MINOR FOR ROADS, KERBS, BUILDING PADS, ETC
	CIV_CONTROL_CHAINAGE_TEXT	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	ALL DESIGN CONTROL LINE CHAINAGES
	CIV_CONTROL_LINE_CHAINAGE_MARKER	RED	CONTINUOUS	LINWEIGHT050	TRUE	ALL DESIGN CONTROL LINE CHAINAGE MARKERS
	CIV_CONTROL_LINES	YELLOW	AS_1100CHAIN2_5	LINWEIGHT035	TRUE	ALL DESIGN CONTROL LINES AND CENTRELINES
	CIV_DRIVEWAYS	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	DRIVEWAY OUTLINES
	CIV_EDGE_OF_PAVEMENT	RED	CONTINUOUS	LINWEIGHT050	TRUE	EDGE OF ALL PAVEMENT FOR ROADS, HARDSTANDS ETC
	CIV_FILLS_AND_HATCHES	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	ALL HATCH AND SOLID FILLS
	CIV_FOOTPATH_CONCRETE	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	ALL CONCRETE FOOTPATH OUTLINES PLAN AND SECTIONS
	CIV_KERB_BACK_OR_OUTLINE	RED	CONTINUOUS	LINWEIGHT050	TRUE	BACK OF KERB FOR PLANS OR OUTLINE FOR SECTIONS
	CIV_KERB_INVERT	WHITE	AS_1100CHAIN2_5	LINWEIGHT025	TRUE	INVERT OF KERB FOR PLANS
	CIV_KERB_LIP	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	LIP OF KERB FOR PLANS
	CIV_LINEMARKING	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	OUTLINE OF BUILDING PAD, ROAD FORMATION, RAIL FORMATION, ETC
	CIV_PAD_OUTLINES	RED	CONTINUOUS	LINWEIGHT050	TRUE	OUTLINE OF BUILDING PAD, ROAD FORMATION, RAIL FORMATION, ETC
	CIV_SURFACE_CENTRE	YELLOW	AS_1100CHAIN2_5	LINWEIGHT035	TRUE	CIVIL SURFACE CENTRELINES
CIV_SURFACE_HATCH	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	CIVIL SURFACE HATCHES	
CIV_SURFACE_HIDDEN	WHITE	AS_1100DASHED2	LINWEIGHT025	TRUE	CIVIL SURFACE FEATURES THAT ARE IN HIDDEN PROJECTION	

DISCIPLINE	LAYER NAME	COLOUR	LINETYPE	LINWEIGHT	PLOT	DESCRIPTION
	CIV_SURFACE_MISC	MAGENTA	CONTINUOUS	LINWEIGHT020	TRUE	CIVIL MISCELLANEOUS SURFACE FEATURES
	CIV_SURFACE_OUTLINE	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	CIVIL SURFACE FEATURE OUTLINES
	CIV_TRENCH_OUTLINE	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	ALL SERVICE TRENCH OUTLINES, PLAN AND SECTIONS
	DEPOINTS	WHITE	CONTINUOUS	BYLINWEIGHTDEFAULT	FALSE	NON-PLOTTING LAYER GENERIC WITH AUTOCAD
EXISTING	EXISTING_CONCRETE	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	CONCRETE PAVEMENTS AND SLAB THAT ARE EXISTING
	EXISTING_CONCRETE_HIDDEN	WHITE	AS_1100DASHED2	LINWEIGHT025	TRUE	CONCRETE PAVEMENTS AND SLAB THAT ARE EXISTING IN HIDDEN PROJECTION
	EXISTING_CONTOURS_LABELS	252	CONTINUOUS	LINWEIGHT025	TRUE	EXISTING GROUND CONTOUR HEIGHT LABELS TO SUIT SCALE
	EXISTING_CONTOURS_MAJOR	252	AS_1100DASHED2	LINWEIGHT025	TRUE	EXISTING GROUND CONTOURS MINOR INTERVALS >2M
	EXISTING_CONTOURS_MINOR	253	AS_1100DASHED2	LINWEIGHT018	TRUE	EXISTING GROUND CONTOURS MAJOR INTERVALS >2M
	EXISTING_LOTS	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	CADASTRE, BOUNDARIES FOR EXISTING LOTS
	EXISTING_PIPEWORK	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	ALL EXISTING PIPEWORK OUTLINE
	EXISTING_PIPEWORK_CENTRE	WHITE	AS_1100CHAIN2_5	LINWEIGHT025	TRUE	ALL EXISTING PIPEWORK CENTRELINES
	EXISTING_PIPEWORK_HIDDEN	WHITE	AS_1100DASHED2	LINWEIGHT025	TRUE	ALL EXISTING PIPEWORK HIDDEN LINES
	EXISTING_STEELWORK	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	STEELWORK THAT IS EXISTING
	EXISTING_STEELWORK_CENTRE	WHITE	AS_1100CHAIN2_5	LINWEIGHT025	TRUE	EXISTING STEELWORK CENTERLINES
	EXISTING_STEELWORK_HIDDEN	WHITE	AS_1100DASHED2	LINWEIGHT025	TRUE	STEELWORK THAT ARE EXISTING IN HIDDEN PROJECTION
	EXISTING_STRUCTURES	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	BUILDINGS, HOUSES, SHEDS
	EXISTING_STRUCTURES_CENTRE	WHITE	AS_1100CHAIN2_5	LINWEIGHT025	TRUE	EXISTING STRUCTURES CENTRELINES
	EXISTING_STRUCTURES_HIDDEN	WHITE	AS_1100DASHED2	LINWEIGHT025	TRUE	HIDDEN LINES FOR ALL STRUCTURES
	EXISTING_STRUCTURES_TO_BE_REMOVED	WHITE	AS_1100DASHED2	LINWEIGHT025	TRUE	EXISTING STRUCTURES TO BE REMOVED OR DEMOLISHED
	EXISTING_SURFACE	252	CONTINUOUS	LINWEIGHT025	TRUE	EXISTING GROUND SURFACE FEATURES
	EXISTING_SURFACE_HIDDEN	252	AS_1100DASHED2	LINWEIGHT025	TRUE	EXISTING GROUND SURFACE FEATURES IN HIDDEN PROJECTION
EXISTING_VEGETATION	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	EXISTING VEGETATION, LARGE TREES, WOODED AREAS, PLANTS ETC	
FUTURE	FUTURE_WORK	WHITE	AS_1100CHAINDD5_2_2	LINWEIGHT025	TRUE	ALL FUTURE WORKS, CONCRETE, STEEL, BUILDINGS, LOTS, ETC
REVISION CLOUDS	REV_1	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	REVISION CLOUD FOR 1ST REVISION
	REV_2	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	REVISION CLOUD FOR 2ND REVISION
	REV_3	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	REVISION CLOUD FOR 3RD REVISION
	REV_4	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	REVISION CLOUD FOR 4TH REVISION
	REV_5	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	REVISION CLOUD FOR 5TH REVISION
	REV_6	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	REVISION CLOUD FOR 6TH REVISION
	REV_7	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	REVISION CLOUD FOR 7TH REVISION
	REV_8	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	REVISION CLOUD FOR 8TH REVISION
	REV_TRI	RED	CONTINUOUS	LINWEIGHT050	TRUE	REVISION TRIANGLE BLOCK AND TEXT ONLY IN PAPERSPACE

DISCIPLINE	LAYER NAME	COLOUR	LINETYPE	LINEWEIGHT	PLOT	DESCRIPTION
SERVICES NEW DESIGN	S_ABANDONED	RED	ABANDONED_SERVICE_OVERLINE	LINEWEIGHT050	TRUE	SERVICE - ALL ABANDONED SERVICES TO BE OVERLINED WITH THIS LAYER AND LINSTYLE
	S_AIR_A_035	YELLOW	COMPRESSED_AIR_ABOVE_G	LINEWEIGHT035	TRUE	SERVICE - AIR ABOVEGROUND SHEET SIZE A1 (LINE GROUP 0.7)
	S_AIR_U_035	YELLOW	COMPRESSED_AIR_BELOW_G	LINEWEIGHT035	TRUE	SERVICE - AIR UNDERGROUND SHEET SIZE A1 (LINE GROUP 0.7)
	S_DOSING_A_035	YELLOW	DOSING_LINE_ABOVE_G	LINEWEIGHT035	TRUE	SERVICE - DOSING ABOVEGROUND SHEET SIZE A1 (LINE GROUP 0.7)
	S_DOSING_U_035	YELLOW	DOSING_LINE_BELOW_G	LINEWEIGHT035	TRUE	SERVICE - DOSING UNDERGROUND SHEET SIZE A1 (LINE GROUP 0.7)
	S_DRAIN_A_035	YELLOW	DRAIN_ABOVE_G	LINEWEIGHT035	TRUE	SERVICE - DRAINAGE ABOVEGROUND SHEET SIZE A1 (LINE GROUP 0.7)
	S_DRAIN_U_035	YELLOW	DRAIN_BELOW_G	LINEWEIGHT035	TRUE	SERVICE - DRAINAGE UNDERGROUND SHEET SIZE A1 (LINE GROUP 0.7)
	S_GAS_A_035	YELLOW	GAS_ABOVE_G	LINEWEIGHT035	TRUE	SERVICE - GAS UNDERGROUND
	S_GAS_U_035	YELLOW	GAS_BELOW_G	LINEWEIGHT035	TRUE	SERVICE - GAS ABOVEGROUND
	S_POWER_OH	YELLOW	POWER_OH	LINEWEIGHT035	TRUE	SERVICE - POWER OVERHEAD
	S_POWER_OH_HV	YELLOW	POWER_OH_HV	LINEWEIGHT035	TRUE	SERVICE - POWER OVERHEAD - HIGH VOLTAGE
	S_POWER_UG	WHITE	ELECTRICAL_BELOW_G	LINEWEIGHT025	TRUE	SERVICE - POWER UNDERGROUND
	S_POWER_UG_HV	YELLOW	ELECTRICAL_BELOW_G	LINEWEIGHT035	TRUE	SERVICE - POWER UNDERGROUND - HIGH VOLTAGE
	S_SEWER_EFFLUENT_MAIN	YELLOW	CONTINUOUS	LINEWEIGHT035	TRUE	SERVICE - SEWER EFFLUENT MAIN
	S_SEWER_GRAVITY_MAIN	RED	CONTINUOUS	LINEWEIGHT050	TRUE	SERVICE - SEWER GRAVITY MAIN
	S_SEWER_OUTFALL	YELLOW	CONTINUOUS	LINEWEIGHT035	TRUE	SERVICE - SEWER OUTFALL
	S_SEWER_OVERFLOW	BLUE	CONTINUOUS	LINEWEIGHT070	TRUE	SERVICE - SEWER OVERFLOW
	S_SEWER_PRESSURE_BRANCH	GREEN	CONTINUOUS	LINEWEIGHT050	TRUE	SERVICE - SEWER PRESSURE BRANCH
	S_SEWER_PRESSURE_SEWER	GREEN	CONTINUOUS	LINEWEIGHT050	TRUE	SERVICE - SEWER PRESSURE
	S_SEWER_PRIVATE_MAIN	GREEN	CONTINUOUS	LINEWEIGHT050	TRUE	SERVICE - PRIVATE SEWER MAIN
	S_SEWER_RELIEF_MAIN	RED	CONTINUOUS	LINEWEIGHT050	TRUE	SERVICE - SEWER RELIEF MAIN
	S_SEWER_RISING_MAIN	YELLOW	CONTINUOUS	LINEWEIGHT035	TRUE	SERVICE - SEWER RISING MAIN
	S_SEWER_SCOUR	RED	CONTINUOUS	LINEWEIGHT050	TRUE	SERVICE - SEWER SCOUR
	S_SEWER_VACUUM_MAIN	GREEN	CONTINUOUS	LINEWEIGHT050	TRUE	SERVICE - VACUUM MAIN
	S_SEWER_VENT_LINE	RED	CONTINUOUS	LINEWEIGHT050	TRUE	SERVICE - SEWER VENT PIPE
	S_STORMWATER_A	BLUE	STORMWATER_ABOVE_G	LINEWEIGHT070	TRUE	SERVICE - STORMWATER ABOVE GROUND
	S_STORMWATER_U	BLUE	STORMWATER_BELOW_G	LINEWEIGHT070	TRUE	SERVICE - STORMWATER BELOW GROUND
S_WATER_MAIN	CYAN	CONTINUOUS	LINEWEIGHT070	TRUE	SERVICE - WATER LINE ABOVEGROUND	
S_WATER_PROCESS	YELLOW	CONTINUOUS	LINEWEIGHT035	TRUE	SERVICE - WATER PROCESSED	

DISCIPLINE	LAYER NAME	COLOUR	LINETYPE	LINWEIGHT	PLOT	DESCRIPTION
	S_WATER_RECYCLED_WATER	CYAN	CONTINUOUS	LINWEIGHT070	TRUE	SERVICE - WATER RECYCLED
	S_WATER_SCOUR	CYAN	CONTINUOUS	LINWEIGHT070	TRUE	SERVICE - WATER SCOUR
	S_WATER_SERVICE	CYAN	CONTINUOUS	LINWEIGHT070	TRUE	SERVICE - WATER SERVICE CONNECTION LINES
	S_WATER_SUBMAIN	CYAN	CONTINUOUS	LINWEIGHT070	TRUE	SERVICE - WATER SUB MAINS
STRUCTURAL	STR_BUILDING_CENTRE	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	BUILDING CENTRELINES AS REQUIRED
	STR_BUILDING_HATCH	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	BUILDING WORKS HATCHES
	STR_BUILDING_HIDDEN	WHITE	AS_1100DASHED2	LINWEIGHT025	TRUE	BUILDING WORKS HIDDEN DETAILS
	STR_BUILDING_MISC	MAGENTA	CONTINUOUS	LINWEIGHT020	TRUE	BUILDING BACKGROUND INFO AND MISCELLANEOUS DETAILS TO BE SHOWN LIGHTER
	STR_BUILDING_OUTLINE	RED	CONTINUOUS	LINWEIGHT050	TRUE	BUILDING WORKS OUTLINES
	STR_CONCRETE_CENTRE	YELLOW	AS_1100CHAIN2_5	LINWEIGHT035	TRUE	CONCRETE WORKS CENTRELINES AS REQUIRED
	STR_CONCRETE_HATCH	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	STRUCTURAL - ALL CONCRETE HATCHING
	STR_CONCRETE_HIDDEN	YELLOW	AS_1100DASHED2	LINWEIGHT035	TRUE	STRUCTURAL - ALL CONCRETE HIDDEN LINEWORK
	STR_CONCRETE_MISC	MAGENTA	CONTINUOUS	LINWEIGHT020	TRUE	CONCRETE BACKGROUND INFO AND MISCELLANEOUS DETAILS TO BE SHOWN LIGHTER
	STR_CONCRETE_OUTLINE	RED	CONTINUOUS	LINWEIGHT050	TRUE	STRUCTURAL - ALL CONCRETE OUTLINES, CAST INSITU, PLAN AND SECTIONS
	STR_MASONARY_HATCH	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	STRUCTURAL - ANY MASONARY HATCHING. PLANS AND SECTIONS
	STR_MASONARY_HIDDEN	YELLOW	AS_1100DASHED2	LINWEIGHT035	TRUE	STRUCTURAL - ANY MASONARY FEATURE IN BACKGROUND OR HIDDEN, PLAN AND SECTION
	STR_MASONARY_OUTLINE	RED	CONTINUOUS	LINWEIGHT050	TRUE	STRUCTURAL - ALL MASONARY OUTLINES, BRICK, BLOCKWORK, PLAN AND SECTIONS
	STR_PIPEWORK_CENTRE	YELLOW	AS_1100CHAIN2_5	LINWEIGHT035	TRUE	FOR DETAILING PIPEWORK OUTLINES IN STRUCTURES ONLY - CENTRELINES
	STR_PIPEWORK_HATCH	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	FOR DETAILING PIPEWORK OUTLINES IN STRUCTURES ONLY - HATCHES
	STR_PIPEWORK_HIDDEN	YELLOW	AS_1100DASHED2	LINWEIGHT035	TRUE	FOR DETAILING PIPEWORK OUTLINES IN STRUCTURES ONLY - HIDDEN LINES
	STR_PIPEWORK_MISC	MAGENTA	CONTINUOUS	LINWEIGHT020	TRUE	FOR DETAILING PIPEWORK OUTLINES IN STRUCTURES ONLY - BACKGROUND INFO
	STR_PIPEWORK_OUTLINE	RED	CONTINUOUS	LINWEIGHT050	TRUE	FOR DETAILING PIPEWORK OUTLINES IN STRUCTURES ONLY
	STR_REINFORCEMENT_BARS	RED	CONTINUOUS	LINWEIGHT050	TRUE	STRUCTURAL - ALL BAR REINFORCEMENT
	STR_REINFORCEMENT_MESH	YELLOW	AS_1100DASHED3	LINWEIGHT035	TRUE	STRUCTURAL - ALL MESH AND FABRIC AND TRENCH MESH FOR SECTIONS
	STR_STEELWORK_CENTRE	YELLOW	AS_1100CHAIN2_5	LINWEIGHT035	TRUE	STEELWORK CENTRELINES AS REQUIRED
	STR_STEELWORK_HATCH	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	STRUCTURAL - ANY STEELWORK HATCHING, PLAN AND SECTIONS
	STR_STEELWORK_HIDDEN	YELLOW	AS_1100DASHED2	LINWEIGHT035	TRUE	STRUCTURAL - ANY STEELWORK FEATURE IN BACKGROUND OR HIDDEN, PLAN AND SECTIONS
	STR_STEELWORK_MISC	MAGENTA	CONTINUOUS	LINWEIGHT020	TRUE	STEELWORK BACKGROUND INFO AND MISCELLANEOUS DETAILS TO BE SHOWN LIGHTER
	STR_STEELWORK_OUTLINE	RED	CONTINUOUS	LINWEIGHT050	TRUE	STRUCTURAL - ALL STEELWORK OUTLINES, EXPOSED EDGES, PLAN AND SECTIONS
	STR_TIMBER_OUTLINE	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	STRUCTURAL - ALL TIMBER WORK PLAN AND SECTIONS

DISCIPLINE	LAYER NAME	COLOUR	LINETYPE	LINWEIGHT	PLOT	DESCRIPTION
SURVEY/EXISTING	SVY_BACK_OF KERB	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	SURVEY - BACK OF KERBS
	SVY_BOUNDARY_EXISTING	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	SURVEY - LOT BOUNDARIES EXISTING AS SURVEYED
	SVY_BOUNDARY_PROPOSED	RED	CONTINUOUS	LINWEIGHT050	TRUE	SURVEY - LOT BOUNDARIES PROPOSED
	SVY_BUILDING	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	SURVEY - BUILDING OUTLINES AND EXTENTS
	SVY_BUILDING_OVERHANG	WHITE	AS_1100DASHED2	LINWEIGHT025	TRUE	SURVEY - BUILDING OVERHANGS, ROOF OUTLINES, AWNINGS ETC
	SVY_CATCH_DRAIN	WHITE	CATCH_DRAIN_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - CATCH DRAIN OR CUT OFF DRAIN
	SVY_COMPRESSED_AIR_ABOVE	WHITE	COMPRESSED_AIR_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - COMPRESSED AIR ABOVE GROUND
	SVY_COMPRESSED_AIR_BELOW	WHITE	COMPRESSED_AIR_BELOW_G	LINWEIGHT025	TRUE	SURVEY - COMPRESSED AIR BELOW GROUND
	SVY_CONCRETE	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	SURVEY - ALL CONCRETE STRUCTURES
	SVY_DISH_DRAIN	WHITE	DISH_DRAIN	LINWEIGHT025	TRUE	SURVEY - SURFACE DISH DRAINS ABOVE GROUND
	SVY_DRAIN_ABOVE	WHITE	DRAIN_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - DRAINAGE LINE ABOVE GROUND
	SVY_DRAIN_BELOW	WHITE	DRAIN_BELOW_G	LINWEIGHT025	TRUE	SURVEY - DRAINAGE LINE BELOW GROUND
	SVY_EDGE_OF_DRIVEWAY	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	SURVEY - EDGE OF DRIVEWAY
	SVY_EDGE_OF_FOOTPATH	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	SURVEY - EDGE OF FOOTPATH
	SVY_EDGE_OF_MEDIAN	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	SURVEY - EDGE OF TRAFFIC MEDIAN OR ISLAND
	SVY_EDGE_OF_PAVEMENT	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	SURVEY - EDGE OF PAVEMENT
	SVY_ELECTRICITY_ABOVE	WHITE	ELECTRICAL_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - ELECTRICAL ABOVE GROUND
	SVY_ELECTRICITY_BELOW	WHITE	ELECTRICAL_BELOW_G	LINWEIGHT025	TRUE	SURVEY - ELECTRICAL BELOW GROUND
	SVY_FENCE	WHITE	FENCE	LINWEIGHT025	TRUE	SURVEY - FENCES ALL TYPES
	SVY_FUEL_LINE_ABOVE	WHITE	FUEL_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - FUEL LINE ABOVE GROUND
	SVY_FUEL_LINE_BELOW	WHITE	FUEL_BELOW_G	LINWEIGHT025	TRUE	SURVEY - FUEL LINE BELOW GROUND
	SVY_FUEL_VENT_LINE_ABOVE	WHITE	FUEL_VENT_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - FUEL VENT LINE ABOVE GROUND
	SVY_FUEL_VENT_LINE_BELOW	WHITE	FUEL_VENT_BELOW_G	LINWEIGHT025	TRUE	SURVEY - FUEL VENT LINE BELOW GROUND
	SVY_GAS_LINE_ABOVE	WHITE	GAS_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - GAS LINE ABOVE GROUND
	SVY_GAS_LINE_BELOW	WHITE	GAS_BELOW_G	LINWEIGHT025	TRUE	SURVEY - GAS LINE BELOW GROUND
	SVY_GUARD_RAILS	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	SURVEY - GUARD RAILS AND SAFETY FENCES, GUIDE POSTS ETC
	SVY_HATCHING	MAGENTA	CONTINUOUS	LINWEIGHT020	TRUE	SURVEY - HATCHING
	SVY_INVERT_OF KERB	WHITE	AS_1100CHAIN2_5	LINWEIGHT025	TRUE	SURVEY - KERB INVERT WATER FLOW PATH
	SVY_PAVEMENT_MARKING	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	SURVEY - PAVEMENT MARKINGS, ARROWS, SPEED SIGNS ETC
	SVY_PAVEMENT_MARKING_SYM	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	SURVEY - PAVEMENT MARKINGS, SYMBOLS, ARROWS, SPEED SIGNS ETC
SVY_POINTS	WHITE	CONTINUOUS	LINWEIGHT025	FALSE	SURVEY - POINT HEIGHTS COLLECTED IN THE FIELD	

DISCIPLINE	LAYER NAME	COLOUR	LINETYPE	LINWEIGHT	PLOT	DESCRIPTION
	SVY_RAILTRACK_CENTRELINE	WHITE	RAILTRACK	LINWEIGHT025	TRUE	SURVEY - RAILWAY LINE CENTRELINE
	SVY_SERVICE_DUCT_ABOVE	WHITE	SERVICE_DUCT_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - SERVICE DUCT ABOVE GROUND
	SVY_SERVICE_DUCT_BELOW	WHITE	SERVICE_DUCT_BELOW_G	LINWEIGHT025	TRUE	SURVEY - SERVICE DUCT BELOW GROUND
	SVY_SEWER_ABOVE	WHITE	SEWER_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - SEWER ABOVE GROUND
	SVY_SEWER_BELOW	WHITE	SEWER_BELOW_G	LINWEIGHT025	TRUE	SURVEY - SEWER BELOW GROUND
	SVY_SUBSOIL_DRAIN	WHITE	SUBSOIL_DRAIN	LINWEIGHT025	TRUE	SURVEY - SUBSOIL DRAINS
	SVY_SYMBOLS	WHITE	CONTINUOUS	LINWEIGHT025	TRUE	SURVEY - SYMBOLS NOT RELATED TO ANY LAYER ABOVE
	SVY_TELEPHONE_ABOVE	WHITE	TELEPHONE_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - TELEPHONE ABOVE GROUND
	SVY_TELEPHONE_BELOW	WHITE	TELEPHONE_BELOW_G	LINWEIGHT025	TRUE	SURVEY - TELEPHONE BELOW GROUND
	SVY_TELEPHONE_OPTIC_ABOVE	WHITE	TELEPHONE_OPTIC_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - OPTIC FIBRE ABOVE GROUND
	SVY_TELEPHONE_OPTIC_BELOW	WHITE	TELEPHONE_OPTIC_BELOW_G	LINWEIGHT025	TRUE	SURVEY - OPTIC FIBRE BELOW GROUND
	SVY_UNIDENTIFIED_OBJECT_ABOVE	WHITE	UNDEFINED_OBJECT_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - ALL UNDEFINED OBJECTS ABOVE GROUND
	SVY_UNIDENTIFIED_OBJECT_BELOW	WHITE	UNDEFINED_OBJECT_BELOW_G	LINWEIGHT025	TRUE	SURVEY - ALL UNDEFINED OBJECTS BELOW GROUND
	SVY_WATER_ABOVE	WHITE	WATER_ABOVE_G	LINWEIGHT025	TRUE	SURVEY - WATER PIPES ALL ABOVE GROUND
	SVY_WATER_BELOW	WHITE	WATER_BELOW_G	LINWEIGHT025	TRUE	SURVEY - WATER PIPES ALL BELOW GROUND
TEXT	TEXT_35	YELLOW	CONTINUOUS	LINWEIGHT035	TRUE	ALL GENERAL TEXT AND NOTES
	TEXT_50	RED	CONTINUOUS	LINWEIGHT050	TRUE	TITLES AND HEADINGS A1
	TEXT_70	CYAN	CONTINUOUS	LINWEIGHT070	TRUE	ONLY USED IN BORDERS AND PROJECT COVER SHEET
VIEWPORT	VIEWPORT	WHITE	CONTINUOUS	LINWEIGHT000	FALSE	VIEWPORT

APPENDIX 5 – STANDARD LINE TYPES FOR A3 DRAWINGS

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z						
1	LINESYLE		LAYER NAME				-----		EXISTING_PIPEWORK_HIDDEN				-----		S_SEWER_VENT__LINE				-----		D		SVY_DRAIN_BELOW							
2	STAMPS AND IMAGES						-----		EXISTING_STEELWORK				-----		S_STORMWATER__A				-----						SVY_EDGE_OF_DRIVEWAY					
3			CONSTRUCTION_ISSUE				-----		EXISTING_STEELWORK_CENTRE				-----		S_STORMWATER__U				-----								SVY_EDGE_OF_FOOTPATH			
4			IMAGE				-----		EXISTING_STEELWORK_HIDDEN				-----		S_WATER_MAIN				-----										SVY_EDGE_OF_MEDIAN	
5			ORIGIN_OF_LEVELS_STAMP				-----		EXISTING_STRUCTURES				-----		S_WATER_PROCESS				-----										SVY_EDGE_OF_PAVEMENT	
6			PRELIMINARY_ISSUE				-----		EXISTING_STRUCTURES_CENTRE				-----		S_WATER_RECYCLED_WATER				-----				E						SVY_ELECTRICITY_ABOVE	
7			SEWER_PIPE_DATA_TABLE				-----		EXISTING_STRUCTURES_HIDDEN				-----		S_WATER_SCOUR				-----				E						SVY_ELECTRICITY_BELOW	
8			WATER_PIPE_DATA_TABLE				-----		EXISTING_STRUCTURES_TO_BE_REMOVED				-----		S_WATER_SERVICE				-----				/						SVY_FENCE	
9			WORK_AS_CONSTRUCTED_STAMP				-----		EXISTING_SURFACE				-----		S_WATER_SUBMAIN				-----				F						SVY_FUEL_LINE_ABOVE	
10	GENERAL						-----		EXISTING_SURFACE_HIDDEN				-----		STRUCTURAL				-----				F						SVY_FUEL_LINE_BELOW	
11			Q				-----		EXISTING_VEGETATION				-----		STR_BUILDING_CENTRE				-----				FV						SVY_FUEL_VENT_LINE_ABOVE	
12			BORDER				-----		FUTURE				-----		STR_BUILDING_HATCH				-----				FV						SVY_FUEL_VENT_LINE_BELOW	
13			CENTRELINE_018				-----		FUTURE_WORK				-----		STR_BUILDING_HIDDEN				-----				G						SVY_GAS_LINE_ABOVE	
14	CIVIL						-----		REVISION CLOUDS				-----		STR_BUILDING_MISC				-----				G						SVY_GAS_LINE_BELOW	
15			CIV_BATTER				-----		REV_1				-----		STR_BUILDING_OUTLINE				-----				G						SVY_GUARD_RAILS	
16			CIV_BATTER_SLOPE_INDICATORS				-----		REV_2				-----		STR_CONCRETE_CENTRE				-----				G						SVY_HATCHING	
17			CIV_BATTER_SLOPE_INDICATORS				-----		REV_3				-----		STR_CONCRETE_HATCH				-----				G						SVY_INVERT_OF KERB	
18			CIV_CONTOURS_DESIGN_LABELS				-----		REV_4				-----		STR_CONCRETE_HIDDEN				-----				G						SVY_PAVEMENT_MARKING	
19			CIV_CONTOURS_DESIGN_MAJOR				-----		REV_5				-----		STR_CONCRETE_MISC				-----				G						SVY_PAVEMENT_MARKING_SYM	
20			CIV_CONTOURS_DESIGN_MINOR				-----		REV_6				-----		STR_CONCRETE_OUTLINE				-----				G						SVY_POINTS	
21			CIV_CONTROL_CHAINAGE_TEXT				-----		REV_7				-----		STR_MASONRY_HATCH				-----				G						SVY_RAILTRACK_CENTERLINE	
22			CIV_CONTROL_LINE_CHAINAGE_MARKER				-----		REV_8				-----		STR_MASONRY_HIDDEN				-----				G						SVY_SERVICE_DUCT_ABOVE	
23			CIV_CONTROL_LINES				-----		REV_TRI				-----		STR_MASONRY_OUTLINE				-----				G						SVY_SERVICE_DUCT_BELOW	
24			CIV_DRIVEWAYS				-----		SERVICES NEW DESIGN				-----		STR_PIPEWORK_CENTRE				-----				G						SVY_SEWER_ABOVE	
			CIV_EDGE_OF_PAVEMENT				-----		X X X X X X X X		S_ABANDONED		-----		STR_PIPEWORK_HATCH				-----				G						SVY_SEWER_BELOW	
			CIV_FILLS_AND_HATCHES				-----		A		S_AIR_A_018		-----		STR_PIPEWORK_HIDDEN				-----				G						SVY_SUBSOIL_DRAIN	
			CIV_FOOTPATH_CONCRETE				-----		A		S_AIR_U_018		-----		STR_PIPEWORK_MISC				-----				G						SVY_SYMBOLS	
			CIV_KERB_BACK_OR_OUTLINE				-----		DL		S_DOSING_A_018		-----		STR_PIPEWORK_OUTLINE				-----				G						SVY_TELEPHONE_ABOVE	
			CIV_KERB_INVERT				-----		DL		S_DOSING_U_018		-----		STR_REINFORCEMENT_BARS				-----				G						SVY_TELEPHONE_BELOW	
			CIV_KERB_LIP				-----		D		S_DRAIN_A_018		-----		STR_REINFORCEMENT_MESH				-----				G						SVY_TELEPHONE_OPTIC_ABOVE	
			CIV_LINEMARKING				-----		D		S_DRAIN_U_018		-----		STR_STEELWORK_CENTRE				-----				G						SVY_TELEPHONE_OPTIC_BELOW	
			CIV_PAD_OUTLINES				-----		G		S_GAS_A_018		-----		STR_STEELWORK_HATCH				-----				G						SVY_UNIDENTIFIED_OBJECT_ABOVE	
			CIV_SURFACE_CENTRE				-----		G		S_GAS_U_018		-----		STR_STEELWORK_HIDDEN				-----				G						SVY_UNIDENTIFIED_OBJECT_BELOW	
			CIV_SURFACE_HATCH				-----		GHP		S_POWER_OH		-----		STR_STEELWORK_MISC				-----				G						SVY_WATER_ABOVE	
			CIV_SURFACE_HIDDEN				-----		HV		S_POWER_OH_HV		-----		STR_STEELWORK_OUTLINE				-----				G						SVY_WATER_BELOW	
			CIV_SURFACE_MISC				-----		E		S_POWER_UG		-----		STR_TIMBER_OUTLINE				-----				G							
			CIV_SURFACE_OUTLINE				-----		E		S_POWER_UG_HV		-----		SURVEY / EXISTING				-----				G							
			CIV_TRENCH_OUTLINE				-----		E		S_SEWER_EFFLUENT_MAIN		-----		SVY_BACK_OF KERB				-----				G							
	EXISTING						-----		E		S_SEWER_GRAVITY_MAIN		-----		SVY_BOUNDARY_EXISTING				-----				G							
			DEFFPOINTS				-----		E		S_SEWER_OUTFALL		-----		SVY_BOUNDARY_PROPOSED				-----				G							
			EXISTING_CONCRETE				-----		E		S_SEWER_OVERFLOW		-----		SVY_BUILDING				-----				G							
			EXISTING_CONCRETE_HIDDEN				-----		E		S_SEWER_PRESSURE_BRANCH		-----		SVY_BUILDING_OVERHANG				-----				G							
			EXISTING_CONTOURS_LABELS				-----		E		S_SEWER_PRESSURE_SEWER		-----		SVY_CATCH_DRAIN				-----				G							
			EXISTING_CONTOURS_MAJOR				-----		E		S_SEWER_PRIVATE_MAIN		-----		SVY_COMPRESSED_AIR_ABOVE				-----				G							
			EXISTING_CONTOURS_MINOR				-----		E		S_SEWER_RELIEF_MAIN		-----		SVY_COMPRESSED_AIR_BELOW				-----				G							
			EXISTING_LOTS				-----		E		S_SEWER_RISING_MAIN		-----		SVY_CONCRETE				-----				G							
			EXISTING_PIPEWORK				-----		E		S_SEWER_SCOUR		-----		SVY_DISH_DRAIN				-----				G							
			EXISTING_PIPEWORK_CENTRE				-----		E		S_SEWER_VACUUM_MAIN		-----		SVY_DRAIN_ABOVE				-----				G							
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APPENDIX 6 – STANDARD LINE TYPES FOR A1 DRAWINGS

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z		
1	LINESTYLE		LAYER NAME																							
2	STAMPS AND IMAGES		CONSTRUCTION_ISSUE		IMAGE		ORIGIN_OF_LEVELS_STAMP		PRELIMINARY_ISSUE		SEWER_PIPE_DATA_TABLE		WATER_PIPE_DATA_TABLE		WORK_AS_CONSTRUCTED_STAMP		GENERAL		0		BORDER		CENTRELINE_035			
3	CIVIL		CIV_BATTER		CIV_BATTER_SLOPE_INDICATORS		CIV_CONTOURS_DESIGN_LABELS		CIV_CONTOURS_DESIGN_MAJOR		CIV_CONTOURS_DESIGN_MINOR		CIV_CONTROL_CHAINAGE_TEXT		CIV_CONTROL_LINE_CHAINAGE_MARKER		CIV_CONTROL_LINES		CIV_DRIVEWAYS		CIV_EDGE_OF_PAVEMENT		CIV_FILLS_AND_HATCHES		CIV_FOOTPATH_CONCRETE	
4			CIV_KERB_BACK_OR_OUTLINE		CIV_KERB_INVERT		CIV_KERB_LIP		CIV_LINEMARKING		CIV_PAD_OUTLINES		CIV_SURFACE_CENTRE		CIV_SURFACE_HATCH		CIV_SURFACE_HIDDEN		CIV_SURFACE_MISC		CIV_SURFACE_OUTLINE		CIV_TRENCH_OUTLINE		DEFFPOINTS	
5	EXISTING		EXISTING_CONCRETE		EXISTING_CONCRETE_HIDDEN		EXISTING_CONTOURS_LABELS		EXISTING_CONTOURS_MAJOR		EXISTING_CONTOURS_MINOR		EXISTING_LOTS		EXISTING_PIPEWORK		EXISTING_PIPEWORK_CENTRE		EXISTING_PIPEWORK_HIDDEN		EXISTING_STEELWORK		EXISTING_STEELWORK_CENTRE		EXISTING_STEELWORK_HIDDEN	
6			EXISTING_STRUCTURES		EXISTING_STRUCTURES_CENTRE		EXISTING_STRUCTURES_HIDDEN		EXISTING_STRUCTURES_TO_BE_REMOVED		EXISTING_SURFACE		EXISTING_SURFACE_HIDDEN		EXISTING_VEGETATION		FUTURE		FUTURE_WORK		REVISION CLOUDS		REV_1		REV_2	
7			REV_3		REV_4		REV_5		REV_6		REV_7		REV_8		REV_TRI		SERVICES NEW DESIGN		S_ABANDONED		S_AIR_A_035		S_AIR_U_035		S_DOSING_A_035	
8			S_DRAIN_A_035		S_DRAIN_U_035		S_GAS_A_035		S_GAS_U_035		S_POWER_OH		S_POWER_OH_HV		S_POWER_UG		S_POWER_UG_HV		S_SEWER_EFFLUENT_MAIN		S_SEWER_GRAVITY_MAIN		S_SEWER_OUTFALL		S_SEWER_OVERFLOW	
9			S_SEWER_PRESSURE_BRANCH		S_SEWER_PRESSURE_SEWER		S_SEWER_PRIVATE_MAIN		S_SEWER_RELIEF_MAIN		S_SEWER_RISING_MAIN		S_SEWER_SCOUR		S_SEWER_VACUUM_MAIN		S_SEWER_VENT_LINE		STRUCTURAL		STR_BUILDING_CENTRE		STR_BUILDING_HATCH		STR_BUILDING_HIDDEN	
10			STR_BUILDING_MISC		STR_BUILDING_OUTLINE		STR_CONCRETE_CENTRE		STR_CONCRETE_HATCH		STR_CONCRETE_HIDDEN		STR_CONCRETE_MISC		STR_CONCRETE_OUTLINE		STR_MASONRY_HATCH		STR_MASONRY_HIDDEN		STR_MASONRY_OUTLINE		STR_PIPEWORK_CENTRE		STR_PIPEWORK_HATCH	
11			STR_PIPEWORK_HIDDEN		STR_PIPEWORK_MISC		STR_PIPEWORK_OUTLINE		STR_REINFORCEMENT_BARS		STR_REINFORCEMENT_MESH		STR_STEELWORK_CENTRE		STR_STEELWORK_HATCH		STR_STEELWORK_HIDDEN		STR_STEELWORK_MISC		STR_STEELWORK_OUTLINE		STR_TIMBER_OUTLINE		SURVEY / EXISTING	
12			SVY_BACK_OF_KERB		SVY_BOUNDARY_EXISTING		SVY_BOUNDARY_PROPOSED		SVY_BUILDING		SVY_BUILDING_OVERHANG		SVY_CATCH_DRAIN		SVY_COMPRESSED_AIR_ABOVE		SVY_COMPRESSED_AIR_BELOW		SVY_CONCRETE		SVY_DISH_DRAIN		SVY_DRAIN_ABOVE		SVY_DRAIN_BELOW	
13			SVY_EDGE_OF_DRIVEWAY		SVY_EDGE_OF_FOOTPATH		SVY_EDGE_OF_MEDIAN		SVY_EDGE_OF_PAVEMENT		SVY_ELECTRICITY_ABOVE		SVY_ELECTRICITY_BELOW		SVY_FENCE		SVY_FUEL_LINE_ABOVE		SVY_FUEL_LINE_BELOW		SVY_FUEL_VENT_LINE_ABOVE		SVY_FUEL_VENT_LINE_BELOW		SVY_GAS_LINE_ABOVE	
14			SVY_GAS_LINE_BELOW		SVY_GUARD_RAILS		SVY_HATCHING		SVY_INVERT_OF_KERB		SVY_PAVEMENT_MARKING		SVY_PAVEMENT_MARKING_SYM		SVY_POINTS		SVY_RAILTRACK_CENTERLINE		SVY_SERVICE_DUCT_ABOVE		SVY_SERVICE_DUCT_BELOW		SVY_SEWER_ABOVE		SVY_SEWER_BELOW	
15			SVY_SUBSOIL_DRAIN		SVY_SYMBOLS		SVY_TELEPHONE_ABOVE		SVY_TELEPHONE_BELOW		SVY_TELEPHONE_OPTIC_ABOVE		SVY_TELEPHONE_OPTIC_BELOW		SVY_UNIDENTIFIED_OBJECT_ABOVE		SVY_UNIDENTIFIED_OBJECT_BELOW		SVY_WATER_ABOVE		SVY_WATER_BELOW		TEXT		TEXT_35	
16			TEXT_50		TEXT_70		TITLEBLOCK & V/PORT		TITLE_BLOCK		VIEWPORT		NOTE: LAYERS HAVE BEEN DISPLAYED IN ALPHABETICAL ORDER (AS THEY APPEAR IN THE LAYER MANAGER IN AUTOCAD) AND AS SUCH APPEAR IN ROUGH GROUPINGS DUE TO THE LAYER NAME PREFIX USED.		PRELIMINARY ISSUE NOT FOR CONSTRUCTION											
17			DESIGNED: DATE: COMPANY:		DRAWN: DATE: COMPANY:		CHECKED: DATE: COMPANY:		APPROVED: DATE: COMPANY:		TITLE: HUNTER WATER CORPORATION STS911 STANDARD LINE TYPES FOR A1 DRAWINGS		SIZE: A3		SCALE: NTS		INDEX No.:		DRAWING No.:		SHEET		REV No.:			
18			CONSULTANT DETAILS		CONSULT REFERENCE No.		HUNTER WATER																			
19			REVISION DETAILS		DWN DATE																					