



SERVICES SPECIFICATION

Specifications for Services Digital Spatial Data
at the City of Albany

Version 1.3
2019

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1. The Services Specification

As part of the CITY OF ALBANY SPATIAL DATA SPECIFICATION the Services Specification focus on assets and maintenance areas that the City of Albany have to be aware of. It captures asset and some maintenance details that allow not only for financial reporting and maintenance of assets but also to support future design and development.

The underpinning spatial standards are defined in the parent document, CITY OF ALBANY SPATIAL DATA SPECIFICATION.

The SERVICES SPECIFICATION standard is a requirement of the City of Albany that streamlines the processes undertaken for all public and open space asset capturing and maintenance of this data in its geographic information systems (GIS).

This specification is for use by any Developers and Surveyors (hereafter referred to as “Consultants”) who undertake Land Development or Capital Works activities that have to be recorded by the City of Albany.

This also includes any related construction activities undertaken by the City of Albany.

2. Contract Deliverables

2.1. Digital Spatial Data File Format

All data is to be supplied in the format specified by the City of Albany:

1. Preferred: ESRI Shapefile, FileGDB, PersonalGDB
2. By Special Arrangement: Mapinfo TAB/MIF, geoXML
3. Not Preferred: CADD DXF/DWG + EXCEL/CSV(Attribute Table)
4. Not Acceptable: PDF or hardcopy of Plan

2.2. Submission Metadata File

A readme.txt file is a simple text file that contains information about the project the digital data is being provided for and must accompany every digital data submission.

Label	Description	Example
PROJECT	Project name	Wyndham Estate
STAGE	Subdivision Stage Name	Stage 3B
DATE SUBMITTED	Date the digital data submitted	31/01/2008
COMPANY	Company name taking responsibility for the data	Work Force
SURVEY NUMBER/REF	Company's survey reference	A1
CONTACT	Contact name for this project	John Somebody
TELEPHONE	Telephone number	(08) 5555 1234
EMAIL	Email address (as applicable)	johns@workforceco.com.au
MAILING ADDRESS	Mailing address	Level 19 Lower St, Blackhouse Sth, WA, 6000
PHYSICAL ADDRESS	Physical business address	"As Above"
DATUM/PROJECTION	The coordinate system the data is in. Please note the City of Albany only uses GDA94 Zone 50.	GDA94 Zone 50
TRANSFORMATION	The coordinate system the data was transformed from	E.g. Albany Grid ALB94 to GDA94 Zone50
DATA FORMAT & VERSION	Details about the software and file version used to create the digital data	E.g. AutoCAD Map 2008 and QGIS
NOTES	Important notes or information to be included here.	Any other relevant information that the data custodian needs to be aware of.

2.3. Submission Media

The following are acceptable media for providing the digital data files.

- Email to the City of Albany cityassets@albany.wa.gov.au. (File size limitation is 15 megabytes)
- USB devices / CD-ROM / DVD
- Include the following (as a label or in the Email):
 - Estate Name and Stage or Project Name: _____
 - Council Approval Number(s): _____
 - Authorised by: _____ Date: _____
 - Consultant Company: _____

3. GRAPHICS SPECIFICATIONS

3.1. Theme/Layer Structure

The following information is provided as the guide when putting together graphical information.

Depending on the asset to be captured, not all the layers indicated here may appear in submitted data.

It is important to note that each layer should only contain the listed features; any other features present will impede the acceptance testing.

Layer	Feature Type	Description	Attributes
SEWER POINTS	Point	Sewer access chambers, pipe connectors	Attribute
SEWER LINES	Polyline	Sewer pipes, including building connections	Attribute
SEWER PUMPS	Point	Sewer pumps	Attribute
SEWER LEACHATE PONDS	Polygon	Sewer leachate and retention ponds	Attribute
ELECTRICAL POINTS	Point	Pits, GPO's, SMSB's & BMSB's	Attribute
ELECTRICAL LINES	Polyline	Electrical cabling	Attribute
WATER POINTS	Point	Taps, troughs & valves	Attribute
WATER LINES	Polyline	Pressurised water lines	Attribute
FUEL POINTS	Point	Petrol, diesel, aviation and gas points	Attribute
FUEL LINES	Polyline	Petrol, diesel, aviation and gas fuel lines	Attribute
COMMUNICATION POINTS	Point	Telecoms, IT and data points	Attribute
COMMUNICATION LINES	Polyline	Telecoms, IT and data lines	Attribute
FIRE POINTS	Point	Fire hydrants & fire hose reels	Attribute
FIRE LINES	Polyline	Fire water mains	Attribute
EMERGENCY POINTS	Point	Life rings, eye/chemical wash stations & defibrillators	Attribute

3.2. Graphical Data Construction Principals

This section details the graphical data construction principles that must be adhered to for all features (polygons, lines, points).

Please use sound practices when recording data, such as snapping to lines or points, closing polygons and directional graphing in the direction of flow.

3.2.1. Sewer Points

The City manages some sewer services. This includes the sewer services running from the Water Corporation sewer line to City managed buildings like public toilets.

! Note: Sewer Pumps are NOT recorded here. It is recorded in SEWER_PUMPS, due to additional motor and pump attributes.

Each service feature shall be depicted by a single point.

The attributes for this layer are specified in [Table 4.1](#)

3.2.2. Sewer Lines

The City manages some sewer services. This includes the sewer services running from the Water Corporation sewer line to City managed buildings like public toilets.

Each service feature shall be depicted by a continuous line.

The attributes for this layer are specified in [Table 4.2](#)

3.2.3. Sewer Pumps

Sewer pump services are installed on property that the City own, manage or lease. It is both a safety and maintenance concern. Knowing where these services are located is important and a managed asset.

Each pump feature shall be depicted by a point.

The attributes for this layer are specified in [Table 4.3](#)

3.2.4. Sewer Leachate Ponds

Sewer leachate ponds services are installed on property that the City own, manage or lease. It is both a safety and maintenance concern. Knowing where these services are located is important and a managed asset.

Each pond feature shall be depicted by a polygon.

The attributes for this layer are specified in [Table 4.4](#)

3.2.5. Electrical Points

Electrical services are installed on property that the City own, manage or lease. It is both a safety and maintenance concern. Knowing where these services are located is important and a managed asset.

Each electrical service feature shall be depicted by a single point.

The attributes for this layer are specified in [Table 4.5](#)

3.2.6. Electrical Lines

Electrical services are installed on property that the City own, manage or lease. It is both a safety and maintenance concern. Knowing where these services are located is important and a managed asset.

Each service feature shall be depicted by a continuous line.

The attributes for this layer are specified in [Table 4.6](#)

3.2.7. Water Points

Water services are installed on property that the City own, manage or lease. It is both a safety and maintenance concern. Knowing where these services are located is important and a managed asset.

Each water service feature shall be depicted by a single point.

The attributes for this layer are specified in [Table 4.7](#)

3.2.8. Water Lines

Water services are installed on property that the City own, manage or lease. It is both a safety and maintenance concern. Knowing where these services are located is important and a managed asset.

Each service feature shall be depicted by a continuous line.

The attributes for this layer are specified in [Table 4.8](#)

3.2.9. Fuel Points

Fuel services are installed on property that the City own, manage or lease. It is both a safety and maintenance concern. Knowing where these services are located is important and a managed asset. Fuel Points include fuel related pumps, storage tanks valves and meters.

Each service feature shall be depicted by a single point.

The attributes for this layer are specified in [Table 4.9](#)

3.2.10. Fuel Lines

Fuel services are installed on property that the City own, manage or lease. It is both a safety and maintenance concern. Knowing where these services are located is important and a managed asset.

Each service feature shall be depicted by a continuous line.

The attributes for this layer are specified in [Table 4.10](#)

3.2.11. Communication Points

Communication services are installed on property that the City own, manage or lease. It is both a safety and maintenance concern. Knowing where these services are located is important and a managed asset.

Each communication service feature shall be depicted by a single point.

The attributes for this layer are specified in [Table 4.11](#)

3.2.12. Communication Lines

Communication services are installed on property that the City own, manage or lease. It is both a safety and maintenance concern. Knowing where these services are located is important and a managed asset.

Each service feature shall be depicted by a continuous line.

The attributes for this layer are specified in [Table 4.12](#)

3.2.13. Fire Points

Fire services are installed on property that the City own, manage or lease. It is both a safety and maintenance concern. Knowing where these services are located is important and a managed asset.

Each fire service feature shall be depicted by a single point.

The attributes for this layer are specified in [Table 4.13](#)

3.2.14. Fire Lines

Fire services are installed on property that the City own, manage or lease. It is both a safety and maintenance concern. Knowing where these services are located is important and a managed asset.

Each service feature shall be depicted by a continuous line.

The attributes for this layer are specified in [Table 4.14](#)

3.2.15. Emergency Points

Emergency services are installed on property that the City own, manage or lease. Emergency points include life rings, eye wash & chemical wash stations and defibrillators. Knowing where these services are located is important and a managed asset.

Each service feature shall be depicted by a single point.

The attributes for this layer are specified in [Table 4.15](#)

3.3. Acceptance Testing

Please note that the SERVICES SPECIFICATION reflects the City of Albany's requirements to record the asset. Contractual and compliance requirements, such as provision of marked-up drawings, are separate to this specification.

- ! Attributes must comply with all the specifications in [Section 4](#). Non-compliance will fail the acceptance testing.
- ! Please note that Data Validation is implied by the feature type, attribute data types and content descriptions provided in [Section 4](#). Contractors still have to ensure the data is correct.

3.4. Matching to Existing Infrastructure

It is the responsibility of the consultant to ensure the "As Constructed" digital data of the assets are related to the current data held by the City of Albany.

The City of Albany will make available an extract of any digital data held in their GIS that cover the specific project area. In some instances there may not be any data available or available data may not have been verified.

- ! Submissions must include all required attributes of the existing infrastructure that the new assets are connecting to. This allows for verification of existing drainage data and creates a 'tie-in' reference for the new infrastructure.

4. ATTRIBUTE SPECIFICATIONS

All submissions will be provided in the preferred datum of City of Albany (MGA50 & AHD) as described in the CITY OF ALBANY SPATIAL DATA SPECIFICATION.

As all new cadastral information is placed on the MGA grid it is an expectation that all data provided by Contractors will be representative of this level of accuracy.

- All fields are to be populated in accordance with the notes and codes supplied in this document.
- All attribute files are to use the Column Names and Data Types set out in this section. Column names are restricted to 10 characters for compatibility (i.e. for ESRI Shape-files).
- All attributes marked with an 'M' in the tables must be provided, and will fail the acceptance testing if not provided. **M = Mandatory Attribute**
- All attributes marked with an 'I' in the tables are for internal use. **I = Internal Attribute**

4.1. SEWER_POINTS

	Column Name	Data Type	Max Length	Constraint	Contents
M	FEAT_TYPE	Alpha	5 chars	No commas	Type of sewer point. (Table 5.1)
I	FIELD_REF	Alpha/Numeric	10 chars	No commas First chars are the FEAT_TYPE	A unique field reference to this asset. This attribute does not necessarily change when the asset is replaced or moved. It is not an asset ID for tracking, but rather a long term in-field & contractual reference. EG "BBQ7"
M	MATERIAL	Alpha	5 chars	No commas	Point material, EG: RC (Table 5.3)
	CAPACITY	Alpha	5 chars	No commas	Capacity of device
M	DIAMETER	Whole Number	n/a	Whole mm	Diameter of circular pit; EG: 600
	DEPTH	Decimal Number	n/a	Metres to 2 metres	Natural or Finished Surface level to bottom of pit relative to FSL.
	STEP_IRONS	Whole Number	n/a	0 if none	Number of installed step irons; EG: 4
M	PLACE_DATE	Alpha/Numeric	10 char	dd/mm/yyyy	Creation/Construction/Installation date, EG: 2010; 17/05/2001
	ASSET_ID	Alpha	15 chars	No commas	Unique Asset identifier, used for accounting & asset management
	EXPEC_LIFE	Whole Number	n/a	Years	Expected life in Years
	REPL_COST	Decimal Number	n/a	Currency	Replacement cost of Asset as new
I	LAST_AUDIT	Date	n/a	dd/mm/yyyy	Date of the condition audit EG: 12/06/2012
I	CONDITION	Whole Number	n/a	Whole Number	Asset Condition Rating classification (Section 6)
I	COND_BY	Alpha	15 chars	No commas	Condition surveyor
M	OWNER	Alpha/Numeric	5 chars	No commas	Responsible Entity (Table 5.17)
I	COA_REF	Alpha/Numeric	20 chars	No commas	Synergy file or record number
M	SOURCE_REF	Alpha/Numeric	20 chars	No commas	Plan Number or Survey Job Reference: EG: 6080R212
M	SOURCE	Alpha/Numeric	100 chars	No commas	Source name and additional details related to the SOURCE_REF; EG: As-Constructed Plan; Designed Drawing; Great Southern Surveyors - Stage 2 – 09/02/2013; CoA Assets Surveyor – Bob Jones – 15/07/2009
	WAPC_NO	Alpha/Numeric	20 chars	No commas	Western Australian Planning Commission reference number; or 'n/a'
	COMMENTS	Alpha/Numeric	150 chars	No commas	Any additional comments that relate to this feature

4.2. SEWER_LINES

	Column Name	Data Type	Max Length	Constraint	Contents
M	FEAT_TYPE	Alpha	5 chars	No commas	Type of sewer line. (Table 5.2)
I	FIELD_REF	Alpha/Numeric	10 chars	No commas First chars are the FEAT_TYPE	A unique field reference to this asset. This attribute does not necessarily change when the asset is replaced or moved. It is not an asset ID for tracking, but rather a long term in-field & contractual reference. EG "BBQ7"
M	POSITION	Alpha	11 chars	No commas	Use: 'OVERHEAD', 'SURFACE', 'UNDERGROUND'
M	MATERIAL	Alpha	5 chars	No commas	Pipe material, EG: RC (Table 5.3)
M	DIAMETER	Whole Number	n/a	In millimetres	Pipe Diameter.
M	US_IL	Decimal Number	n/a	Metres to 2 decimals	Invert Level at the Upstream side of pipe
M	DS_IL	Decimal Number	n/a	Metres to 2 decimals	Invert Level at the Downstream side of pipe. Usually DS_IL =< US_IL. COMMENTS if this is not so by design.
M	PLACE_DATE	Alpha/Numeric	10 chars	dd/mm/yyyy	Creation/Construction/Installation date, EG: 2010; 17/05/2001
	ASSET_ID	Alpha	15 chars	No commas	Unique Asset identifier, used for accounting & asset management
	EXPEC_LIFE	Whole Number	n/a	Years	Expected life in Years
	REPL_COST	Decimal Number	n/a	Currency	Replacement cost of Asset as new
I	LAST_AUDIT	Date	n/a	dd/mm/yyyy	Date of the previous audit EG: 12/06/2012
I	CONDITION	Whole Number	n/a	Whole Number	Asset Condition Rating classification (Section 6)
I	COND_BY	Alpha	15 chars	No commas	Condition surveyor
M	OWNER	Alpha/Numeric	5 chars	No commas	Responsible Entity (Table 5.17)
I	COA_REF	Alpha/Numeric	20 chars	No commas	Synergy file or record number
M	SOURCE_REF	Alpha/Numeric	20 chars	No commas	Plan Number or Survey Job Reference: EG: 6080R212
M	SOURCE	Alpha/Numeric	100 chars	No commas	Source name and additional details related to the SOURCE_REF; EG: As-Constructed Plan; Designed Drawing; Great Southern Surveyors - Stage 2 – 09/02/2013; CoA Assets Surveyor – Bob Jones – 15/07/2009
	WAPC_NO	Alpha/Numeric	20 chars	No commas	Western Australian Planning Commission reference number; or 'n/a'
	COMMENTS	Alpha/Numeric	150 chars	No commas	Any additional comments that relate to this feature

4.3. SEWER_PUMPS

	Column Name	Data Type	Max Length	Constraint	Contents
M	FEAT_TYPE	Alpha	5 chars	No commas	Type of sewer pump (Table 5.4)
I	FIELD_REF	Alpha/Numeric	10 chars	No commas First chars are the FEAT_TYPE	A unique field reference to this asset. This attribute does not necessarily change when the asset is replaced or moved. It is not an asset ID for tracking, but rather a long term in-field & contractual reference. EG "BBQ7"
M	MAKE	Alpha/Numeric	25 chars	No commas	Manufacturer / Make
M	MODEL	Alpha/Numeric	25 chars	No commas	Model
M	PLACE_DATE	Alpha/Numeric	10 char	dd/mm/yyyy	Creation/Construction/Installation date, EG: 2010; 17/05/2001
	OUTLET_DIA	Whole Number	n/a	Whole Number in mm	Diameter of outlet
	FLOW_NOM	Whole Number	n/a	Whole Number in L/s	Flow rate (normal) Litre/second
	FLOW_MAX	Whole Number	n/a	Whole Number in L/s	Flow rate (max) Litre/second
	ALARM	Alpha/Numeric	1 char	Yes/No	Alarm fitted
	FLOAT_L1	Whole Number	n/a	Whole Number in mm	Float switch level 1
	FLOAT_L2	Whole Number	n/a	Whole Number in mm	Float switch level 2
	ASSET_ID	Alpha	15 chars	No commas	Unique Asset identifier, used for accounting & asset management
	EXPEC_LIFE	Whole Number	n/a	Years	Expected life in Years
	REPL_COST	Decimal Number	n/a	Currency	Replacement cost of Asset as new
I	LAST_AUDIT	Date	n/a	dd/mm/yyyy	Date of the previous audit EG: 12/06/2012
I	CONDITION	Whole Number	n/a	Whole Number	Asset Condition Rating classification (Section 6)
I	COND_BY	Alpha	15 chars	No commas	Condition surveyor
M	OWNER	Alpha/Numeric	5 chars	No commas	Responsible Entity (Table 5.17)
I	COA_REF	Alpha/Numeric	20 chars	No commas	Synergy file or record number
M	SOURCE_REF	Alpha/Numeric	20 chars	No commas	Plan Number or Survey Job Reference: EG: 6080R212
M	SOURCE	Alpha/Numeric	100 chars	No commas	Source name and additional details related to the SOURCE_REF; EG: As-Constructed Plan; Designed Drawing; Great Southern Surveyors - Stage 2 – 09/02/2013; CoA Assets Surveyor – Bob Jones – 15/07/2009
	WAPC_NO	Alpha/Numeric	20 chars	No commas	Western Australian Planning Commission reference number; or 'n/a'
	COMMENTS	Alpha/Numeric	150 chars	No commas	Any additional comments that relate to this feature

4.4. SEWER_LEACHATE_PONDS

	Column Name	Data Type	Max Length	Constraint	Contents
M	FEAT_TYPE	Alpha	5 chars	No commas	Feature type
I	FIELD_REF	Alpha/Numeric	10 chars	No commas First chars are the FEAT_TYPE	A unique field reference to this asset. This attribute does not necessarily change when the asset is replaced or moved. It is not an asset ID for tracking, but rather a long term in-field & contractual reference. EG "BBQ7"
M	TOP_RL	Decimal Number	n/a	2 decimal places	Top bank level of the system
M	DES_CAP	Whole Number	n/a	Whole m ³	Design Capacity in cubic metres
M	PLACE_DATE	Alpha/Numeric	10 chars	dd/mm/yyyy	Creation/Construction/Installation date, EG: 2010; 17/05/2001
	ASSET_ID	Alpha	15 chars	No commas	Unique Asset identifier, used for accounting & asset management
	REPL_COST	Decimal Number	n/a	Currency	Replacement cost of Asset as new
I	LAST_AUDIT	Date	n/a	dd/mm/yyyy	Date of the previous audit EG: 12/06/2012
I	CONDITION	Whole Number	n/a	Whole Number	Asset Condition Rating classification (Section 6)
I	COND_BY	Alpha	15 chars	No commas	Condition surveyor
M	OWNER	Alpha/Numeric	5 chars	No commas	Responsible Entity (Table 5.17)
I	COA_REF	Alpha/Numeric	20 chars	No commas	Synergy file or record number
M	SOURCE_REF	Alpha/Numeric	20 chars	No commas	Plan Number or Survey Job Reference: EG: 6080R212
M	SOURCE	Alpha/Numeric	100 chars	No commas	Source name and additional details related to the SOURCE_REF; EG: As-Constructed Plan; Designed Drawing; Great Southern Surveyors - Stage 2 – 09/02/2013; CoA Assets Surveyor – Bob Jones – 15/07/2009
	WAPC_NO	Alpha/Numeric	20 chars	No commas	Western Australian Planning Commission reference number; or 'n/a'
	COMMENTS	Alpha/Numeric	150 chars	No commas	Any additional comments that relate to this feature

4.5. ELECTRICAL_POINTS

	Column Name	Data Type	Max Length	Constraint	Contents
M	FEAT_TYPE	Alpha	5 chars	No commas	Electrical Point Type (Table 5.5)
I	FIELD_REF	Alpha/Numeric	10 chars	No commas First chars are the FEAT_TYPE	A unique field reference to this asset. This attribute does not necessarily change when the asset is replaced or moved. It is not an asset ID for tracking, but rather a long term in-field & contractual reference. EG "BBQ7"
M	MATERIAL	Alpha	5 chars	No commas	Point material, EG: RC (Table 5.16)
M	PLACE_DATE	Alpha/Numeric	10 char	dd/mm/yyyy	Creation/Construction/Installation date, EG: 2010; 17/05/2001
M	SERIAL_NO	Alpha/Numeric	25 char	No commas	Device number EG: Water Corp device number
	ASSET_ID	Alpha	15 chars	No commas	Unique Asset identifier, used for accounting & asset management
	EXPEC_LIFE	Whole Number	n/a	Years	Expected life in Years
	REPL_COST	Decimal Number	n/a	Currency	Replacement cost of Asset as new
I	LAST_AUDIT	Date	n/a	dd/mm/yyyy	Date of the previous audit EG: 12/06/2012
I	CONDITION	Whole Number	n/a	Whole Number	Asset Condition Rating classification (Section 6)
I	COND_BY	Alpha	15 chars	No commas	Condition surveyor
M	OWNER	Alpha/Numeric	5 chars	No commas	Responsible Entity (Table 5.17)
I	COA_REF	Alpha/Numeric	20 chars	No commas	Synergy file or record number
M	SOURCE_REF	Alpha/Numeric	20 chars	No commas	Plan Number or Survey Job Reference: EG: 6080R212
M	SOURCE	Alpha/Numeric	100 chars	No commas	Source name and additional details related to the SOURCE_REF; EG: As-Constructed Plan; Designed Drawing; Great Southern Surveyors - Stage 2 – 09/02/2013; CoA Assets Surveyor – Bob Jones – 15/07/2009
	WAPC_NO	Alpha/Numeric	20 chars	No commas	Western Australian Planning Commission reference number; or 'n/a'
	COMMENTS	Alpha/Numeric	150 chars	No commas	Any additional comments that relate to this feature

4.6. ELECTRICAL_LINES

	Column Name	Data Type	Max Length	Constraint	Contents
M	FEAT_TYPE	Alpha	15 chars	No commas	Electrical Line Type (Table 5.6)
I	FIELD_REF	Alpha/Numeric	10 chars	No commas First chars are the FEAT_TYPE	A unique field reference to this asset. This attribute does not necessarily change when the asset is replaced or moved. It is not an asset ID for tracking, but rather a long term in-field & contractual reference. EG "BBQ7"
M	POSITION	Alpha	25 chars	No commas	Use: 'OVERHEAD', 'SURFACE', 'UNDERGROUND'
M	MIN_DEPTH	Decimal Number	n/a	Meters to 2 decimals	Minimum depth of line if underground
M	MATERIAL	Alpha	25 chars	No commas	Line material, EG: RC (Table 5.16)
M	PLACE_DATE	Alpha/Numeric	10 chars	dd/mm/yyyy	Creation/Construction/Installation date, EG: 2010; 17/05/2001
	ASSET_ID	Alpha/Numeric	15 chars	No commas	Unique Asset identifier, used for accounting & asset management
	EXPEC_LIFE	Whole Number	n/a	Years	Expected life in Years
	REPL_COST	Decimal Number	n/a	Currency	Replacement cost of Asset as new
I	LAST_AUDIT	Date	n/a	dd/mm/yyyy	Date of the previous audit EG: 12/06/2012
I	CONDITION	Whole Number	n/a	Whole Number	Asset Condition Rating classification (Section 6)
I	COND_BY	Alpha	15 chars	No commas	Condition surveyor
M	OWNER	Alpha/Numeric	5 chars	No commas	Responsible Entity (Table 5.17)
I	COA_REF	Alpha/Numeric	20 chars	No commas	Synergy file or record number
M	SOURCE_REF	Alpha/Numeric	20 chars	No commas	Plan Number or Survey Job Reference: EG: 6080R212
M	SOURCE	Alpha/Numeric	100 chars	No commas	Source name and additional details related to the SOURCE_REF; EG: As-Constructed Plan; Designed Drawing; Great Southern Surveyors - Stage 2 – 09/02/2013; CoA Assets Surveyor – Bob Jones – 15/07/2009
	WAPC_NO	Alpha/Numeric	20 chars	No commas	Western Australian Planning Commission reference number; or 'n/a'
	COMMENTS	Alpha/Numeric	100 chars	No commas	Any additional comments that relate to this feature

4.7. WATER_POINTS

	Column Name	Data Type	Max Length	Constraint	Contents
M	FEAT_TYPE	Alpha	5 chars	No commas	Water Point Type. (Table 5.7)
I	FIELD_REF	Alpha/Numeric	10 chars	No commas First chars are the FEAT_TYPE	A unique field reference to this asset. This attribute does not necessarily change when the asset is replaced or moved. It is not an asset ID for tracking, but rather a long term in-field & contractual reference. EG "BBQ7"
M	MATERIAL	Alpha	5 chars	No commas	Point material, EG: RC (Table 5.16)
M	PLACE_DATE	Alpha/Numeric	10 char	dd/mm/yyyy	Creation/Construction/Installation date, EG: 2010; 17/05/2001
M	SERIAL_NO	Alpha/Numeric	25 char	No commas	Device number EG: Water Corp device number
	ASSET_ID	Alpha	15 chars	No commas	Unique Asset identifier, used for accounting & asset management
	EXPEC_LIFE	Whole Number	n/a	Years	Expected life in Years
	REPL_COST	Decimal Number	n/a	Currency	Replacement cost of Asset as new
I	LAST_AUDIT	Date	n/a	dd/mm/yyyy	Date of the previous audit EG: 12/06/2012
I	CONDITION	Whole Number	n/a	Whole Number	Asset Condition Rating classification (Section 6)
I	COND_BY	Alpha	15 chars	No commas	Condition surveyor
M	OWNER	Alpha/Numeric	5 chars	No commas	Responsible Entity (Table 5.17)
I	COA_REF	Alpha/Numeric	20 chars	No commas	Synergy file or record number
M	SOURCE_REF	Alpha/Numeric	20 chars	No commas	Plan Number or Survey Job Reference: EG: 6080R212
M	SOURCE	Alpha/Numeric	100 chars	No commas	Source name and additional details related to the SOURCE_REF; EG: As-Constructed Plan; Designed Drawing; Great Southern Surveyors - Stage 2 – 09/02/2013; CoA Assets Surveyor – Bob Jones – 15/07/2009
	WAPC_NO	Alpha/Numeric	20 chars	No commas	Western Australian Planning Commission reference number; or 'n/a'
	COMMENTS	Alpha/Numeric	150 chars	No commas	Any additional comments that relate to this feature

4.8. WATER_LINES

	Column Name	Data Type	Max Length	Constraint	Contents
M	FEAT_TYPE	Alpha	15 chars	No commas	Water Line Type (Table 5.8)
I	FIELD_REF	Alpha/Numeric	10 chars	No commas First chars are the FEAT_TYPE	A unique field reference to this asset. This attribute does not necessarily change when the asset is replaced or moved. It is not an asset ID for tracking, but rather a long term in-field & contractual reference. EG "BBQ7"
M	POSITION	Alpha	25 chars	No commas	Use: 'OVERHEAD', 'SURFACE', 'UNDERGROUND'
M	MIN_DEPTH	Decimal Number	n/a	Meters to 2 decimals	Minimum depth of line if underground
M	MATERIAL	Alpha	25 chars	No commas	Line material, EG: RC (Table 5.16)
M	DIAMETER	Whole Number	n/a	In millimetres	Line Diameter.
M	PLACE_DATE	Alpha/Numeric	10 chars	dd/mm/yyyy	Creation/Construction/Installation date, EG: 2010; 17/05/2001
	ASSET_ID	Alpha/Numeric	15 chars	No commas	Unique Asset identifier, used for accounting & asset management
	EXPEC_LIFE	Whole Number	n/a	Years	Expected life in Years
	REPL_COST	Decimal Number	n/a	Currency	Replacement cost of Asset as new
I	LAST_AUDIT	Date	n/a	dd/mm/yyyy	Date of the previous audit EG: 12/06/2012
I	CONDITION	Whole Number	n/a	Whole Number	Asset Condition Rating classification (Section 6)
I	COND_BY	Alpha	15 chars	No commas	Condition surveyor
M	OWNER	Alpha/Numeric	5 chars	No commas	Responsible Entity (Table 5.17)
I	COA_REF	Alpha/Numeric	20 chars	No commas	Synergy file or record number
M	SOURCE_REF	Alpha/Numeric	20 chars	No commas	Plan Number or Survey Job Reference: EG: 6080R212
M	SOURCE	Alpha/Numeric	100 chars	No commas	Source name and additional details related to the SOURCE_REF; EG: As-Constructed Plan; Designed Drawing; Great Southern Surveyors - Stage 2 – 09/02/2013; CoA Assets Surveyor – Bob Jones – 15/07/2009
	WAPC_NO	Alpha/Numeric	20 chars	No commas	Western Australian Planning Commission reference number; or 'n/a'
	COMMENTS	Alpha/Numeric	100 chars	No commas	Any additional comments that relate to this feature

4.9. FUEL_POINTS

	Column Name	Data Type	Max Length	Constraint	Contents
M	FEAT_TYPE	Alpha	5 chars	No commas	Fuel Point Type. (Table 5.9)
I	FIELD_REF	Alpha/Numeric	10 chars	No commas First chars are the FEAT_TYPE	A unique field reference to this asset. This attribute does not necessarily change when the asset is replaced or moved. It is not an asset ID for tracking, but rather a long term in-field & contractual reference. EG "BBQ7"
M	MATERIAL	Alpha	5 chars	No commas	Point material, EG: RC (Table 5.16)
M	PLACE_DATE	Alpha/Numeric	10 char	dd/mm/yyyy	Creation/Construction/Installation date, EG: 2010; 17/05/2001
M	SERIAL_NO	Alpha/Numeric	25 char	No commas	Device number EG: Water Corp device number
	ASSET_ID	Alpha	15 chars	No commas	Unique Asset identifier, used for accounting & asset management
	EXPEC_LIFE	Whole Number	n/a	Years	Expected life in Years
	REPL_COST	Decimal Number	n/a	Currency	Replacement cost of Asset as new
I	LAST_AUDIT	Date	n/a	dd/mm/yyyy	Date of the previous audit EG: 12/06/2012
I	CONDITION	Whole Number	n/a	Whole Number	Asset Condition Rating classification (Section 6)
I	COND_BY	Alpha	15 chars	No commas	Condition surveyor
M	OWNER	Alpha/Numeric	5 chars	No commas	Responsible Entity (Table 5.17)
I	COA_REF	Alpha/Numeric	20 chars	No commas	Synergy file or record number
M	SOURCE_REF	Alpha/Numeric	20 chars	No commas	Plan Number or Survey Job Reference: EG: 6080R212
M	SOURCE	Alpha/Numeric	100 chars	No commas	Source name and additional details related to the SOURCE_REF; EG: As-Constructed Plan; Designed Drawing; Great Southern Surveyors - Stage 2 – 09/02/2013; CoA Assets Surveyor – Bob Jones – 15/07/2009
	WAPC_NO	Alpha/Numeric	20 chars	No commas	Western Australian Planning Commission reference number; or 'n/a'
	COMMENTS	Alpha/Numeric	150 chars	No commas	Any additional comments that relate to this feature

4.10. FUEL_LINES

	Column Name	Data Type	Max Length	Constraint	Contents
M	FEAT_TYPE	Alpha	15 chars	No commas	Fuel Line Type (Table 5.10)
I	FIELD_REF	Alpha/Numeric	10 chars	No commas First chars are the FEAT_TYPE	A unique field reference to this asset. This attribute does not necessarily change when the asset is replaced or moved. It is not an asset ID for tracking, but rather a long term in-field & contractual reference. EG "BBQ7"
M	POSITION	Alpha	25 chars	No commas	Use: 'OVERHEAD', 'SURFACE', 'UNDERGROUND'
M	MIN_DEPTH	Decimal Number	n/a	Meters to 2 decimals	Minimum depth of line if underground
M	MATERIAL	Alpha	25 chars	No commas	Line material, EG: RC (Table 5.16)
M	DIAMETER	Whole Number	n/a	In millimetres	Line Diameter.
M	PLACE_DATE	Alpha/Numeric	10 chars	dd/mm/yyyy	Creation/Construction/Installation date, EG: 2010; 17/05/2001
	ASSET_ID	Alpha/Numeric	15 chars	No commas	Unique Asset identifier, used for accounting & asset management
	EXPEC_LIFE	Whole Number	n/a	Years	Expected life in Years
	REPL_COST	Decimal Number	n/a	Currency	Replacement cost of Asset as new
I	LAST_AUDIT	Date	n/a	dd/mm/yyyy	Date of the previous audit EG: 12/06/2012
I	CONDITION	Whole Number	n/a	Whole Number	Asset Condition Rating classification (Section 6)
I	COND_BY	Alpha	15 chars	No commas	Condition surveyor
M	OWNER	Alpha/Numeric	5 chars	No commas	Responsible Entity (Table 5.17)
I	COA_REF	Alpha/Numeric	20 chars	No commas	Synergy file or record number
M	SOURCE_REF	Alpha/Numeric	20 chars	No commas	Plan Number or Survey Job Reference: EG: 6080R212
M	SOURCE	Alpha/Numeric	100 chars	No commas	Source name and additional details related to the SOURCE_REF; EG: As-Constructed Plan; Designed Drawing; Great Southern Surveyors - Stage 2 – 09/02/2013; CoA Assets Surveyor – Bob Jones – 15/07/2009
	WAPC_NO	Alpha/Numeric	20 chars	No commas	Western Australian Planning Commission reference number; or 'n/a'
	COMMENTS	Alpha/Numeric	100 chars	No commas	Any additional comments that relate to this feature

4.11. COMMUNICATION_POINTS

	Column Name	Data Type	Max Length	Constraint	Contents
M	FEAT_TYPE	Alpha	5 chars	No commas	Communication Point Type. (Table 5.11)
I	FIELD_REF	Alpha/Numeric	10 chars	No commas First chars are the FEAT_TYPE	A unique field reference to this asset. This attribute does not necessarily change when the asset is replaced or moved. It is not an asset ID for tracking, but rather a long term in-field & contractual reference. EG "BBQ7"
M	MATERIAL	Alpha	5 chars	No commas	Point material, EG: RC (Table 5.16)
M	PLACE_DATE	Alpha/Numeric	10 char	dd/mm/yyyy	Creation/Construction/Installation date, EG: 2010; 17/05/2001
M	SERIAL_NO	Alpha/Numeric	25 char	No commas	Device number EG: Water Corp device number
	ASSET_ID	Alpha	15 chars	No commas	Unique Asset identifier, used for accounting & asset management
	EXPEC_LIFE	Whole Number	n/a	Years	Expected life in Years
	REPL_COST	Decimal Number	n/a	Currency	Replacement cost of Asset as new
I	LAST_AUDIT	Date	n/a	dd/mm/yyyy	Date of the previous audit EG: 12/06/2012
I	CONDITION	Whole Number	n/a	Whole Number	Asset Condition Rating classification (Section 6)
I	COND_BY	Alpha	15 chars	No commas	Condition surveyor
M	OWNER	Alpha/Numeric	5 chars	No commas	Responsible Entity (Table 5.17)
I	COA_REF	Alpha/Numeric	20 chars	No commas	Synergy file or record number
M	SOURCE_REF	Alpha/Numeric	20 chars	No commas	Plan Number or Survey Job Reference: EG: 6080R212
M	SOURCE	Alpha/Numeric	100 chars	No commas	Source name and additional details related to the SOURCE_REF; EG: As-Constructed Plan; Designed Drawing; Great Southern Surveyors - Stage 2 – 09/02/2013; CoA Assets Surveyor – Bob Jones – 15/07/2009
	WAPC_NO	Alpha/Numeric	20 chars	No commas	Western Australian Planning Commission reference number; or 'n/a'
	COMMENTS	Alpha/Numeric	150 chars	No commas	Any additional comments that relate to this feature

4.12. COMMUNICATION_LINES

	Column Name	Data Type	Max Length	Constraint	Contents
M	FEAT_TYPE	Alpha	15 chars	No commas	Communication Line Type (Table 5.12)
I	FIELD_REF	Alpha/Numeric	10 chars	No commas First chars are the FEAT_TYPE	A unique field reference to this asset. This attribute does not necessarily change when the asset is replaced or moved. It is not an asset ID for tracking, but rather a long term in-field & contractual reference. EG "BBQ7"
M	POSITION	Alpha	25 chars	No commas	Use: 'OVERHEAD', 'SURFACE', 'UNDERGROUND'
M	MIN_DEPTH	Decimal Number	n/a	Meters to 2 decimals	Minimum depth of line if underground
M	MATERIAL	Alpha	25 chars	No commas	Line material, EG: RC (Table 5.16)
M	PLACE_DATE	Alpha/Numeric	10 chars	dd/mm/yyyy	Creation/Construction/Installation date, EG: 2010; 17/05/2001
	ASSET_ID	Alpha/Numeric	15 chars	No commas	Unique Asset identifier, used for accounting & asset management
	EXPEC_LIFE	Whole Number	n/a	Years	Expected life in Years
	REPL_COST	Decimal Number	n/a	Currency	Replacement cost of Asset as new
I	LAST_AUDIT	Date	n/a	dd/mm/yyyy	Date of the previous audit EG: 12/06/2012
I	CONDITION	Whole Number	n/a	Whole Number	Asset Condition Rating classification (Section 6)
I	COND_BY	Alpha	15 chars	No commas	Condition surveyor
M	OWNER	Alpha/Numeric	5 chars	No commas	Responsible Entity (Table 5.17)
I	COA_REF	Alpha/Numeric	20 chars	No commas	Synergy file or record number
M	SOURCE_REF	Alpha/Numeric	20 chars	No commas	Plan Number or Survey Job Reference: EG: 6080R212
M	SOURCE	Alpha/Numeric	100 chars	No commas	Source name and additional details related to the SOURCE_REF; EG: As-Constructed Plan; Designed Drawing; Great Southern Surveyors - Stage 2 – 09/02/2013; CoA Assets Surveyor – Bob Jones – 15/07/2009
	WAPC_NO	Alpha/Numeric	20 chars	No commas	Western Australian Planning Commission reference number; or 'n/a'
	COMMENTS	Alpha/Numeric	100 chars	No commas	Any additional comments that relate to this feature

4.13. FIRE_POINTS

	Column Name	Data Type	Max Length	Constraint	Contents
M	FEAT_TYPE	Alpha	5 chars	No commas	Fire Point Type. (Table 5.13)
I	FIELD_REF	Alpha/Numeric	10 chars	No commas First chars are the FEAT_TYPE	A unique field reference to this asset. This attribute does not necessarily change when the asset is replaced or moved. It is not an asset ID for tracking, but rather a long term in-field & contractual reference. EG "BBQ7"
M	MATERIAL	Alpha	5 chars	No commas	Point material, EG: RC (Table 5.16)
M	PLACE_DATE	Alpha/Numeric	10 char	dd/mm/yyyy	Creation/Construction/Installation date, EG: 2010; 17/05/2001
M	SERIAL_NO	Alpha/Numeric	25 char	No commas	Device number EG: Water Corp device number
	ASSET_ID	Alpha	15 chars	No commas	Unique Asset identifier, used for accounting & asset management
	EXPEC_LIFE	Whole Number	n/a	Years	Expected life in Years
	REPL_COST	Decimal Number	n/a	Currency	Replacement cost of Asset as new
I	LAST_AUDIT	Date	n/a	dd/mm/yyyy	Date of the previous audit EG: 12/06/2012
I	CONDITION	Whole Number	n/a	Whole Number	Asset Condition Rating classification (Section 6)
I	COND_BY	Alpha	15 chars	No commas	Condition surveyor
M	OWNER	Alpha/Numeric	5 chars	No commas	Responsible Entity (Table 5.17)
I	COA_REF	Alpha/Numeric	20 chars	No commas	Synergy file or record number
M	SOURCE_REF	Alpha/Numeric	20 chars	No commas	Plan Number or Survey Job Reference: EG: 6080R212
M	SOURCE	Alpha/Numeric	100 chars	No commas	Source name and additional details related to the SOURCE_REF; EG: As-Constructed Plan; Designed Drawing; Great Southern Surveyors - Stage 2 – 09/02/2013; CoA Assets Surveyor – Bob Jones – 15/07/2009
	WAPC_NO	Alpha/Numeric	20 chars	No commas	Western Australian Planning Commission reference number; or 'n/a'
	COMMENTS	Alpha/Numeric	150 chars	No commas	Any additional comments that relate to this feature

4.14. FIRE_LINES

	Column Name	Data Type	Max Length	Constraint	Contents
M	FEAT_TYPE	Alpha	15 chars	No commas	Fire Line Type (Table 5.14)
I	FIELD_REF	Alpha/Numeric	10 chars	No commas First chars are the FEAT_TYPE	A unique field reference to this asset. This attribute does not necessarily change when the asset is replaced or moved. It is not an asset ID for tracking, but rather a long term in-field & contractual reference. EG "BBQ7"
M	POSITION	Alpha	25 chars	No commas	Use: 'OVERHEAD', 'SURFACE', 'UNDERGROUND'
M	MIN_DEPTH	Decimal Number	n/a	Meters to 2 decimals	Minimum depth of line if underground
M	MATERIAL	Alpha	25 chars	No commas	Line material, EG: RC (Table 5.16)
M	DIAMETER	Whole Number	n/a	In millimetres	Line Diameter.
M	PLACE_DATE	Alpha/Numeric	10 chars	dd/mm/yyyy	Creation/Construction/Installation date, EG: 2010; 17/05/2001
	ASSET_ID	Alpha/Numeric	15 chars	No commas	Unique Asset identifier, used for accounting & asset management
	EXPEC_LIFE	Whole Number	n/a	Years	Expected life in Years
	REPL_COST	Decimal Number	n/a	Currency	Replacement cost of Asset as new
I	LAST_AUDIT	Date	n/a	dd/mm/yyyy	Date of the previous audit EG: 12/06/2012
I	CONDITION	Whole Number	n/a	Whole Number	Asset Condition Rating classification (Section 6)
I	COND_BY	Alpha	15 chars	No commas	Condition surveyor
M	OWNER	Alpha/Numeric	5 chars	No commas	Responsible Entity (Table 5.17)
I	COA_REF	Alpha/Numeric	20 chars	No commas	Synergy file or record number
M	SOURCE_REF	Alpha/Numeric	20 chars	No commas	Plan Number or Survey Job Reference: EG: 6080R212
M	SOURCE	Alpha/Numeric	100 chars	No commas	Source name and additional details related to the SOURCE_REF; EG: As-Constructed Plan; Designed Drawing; Great Southern Surveyors - Stage 2 – 09/02/2013; CoA Assets Surveyor – Bob Jones – 15/07/2009
	WAPC_NO	Alpha/Numeric	20 chars	No commas	Western Australian Planning Commission reference number; or 'n/a'
	COMMENTS	Alpha/Numeric	100 chars	No commas	Any additional comments that relate to this feature

4.15. EMERGENCY_POINTS

	Column Name	Data Type	Max Length	Constraint	Contents
M	FEAT_TYPE	Alpha	15 chars	No commas	Fire Point Type (Table 5.15)
I	FIELD_REF	Alpha/Numeric	10 chars	No commas First chars are the FEAT_TYPE	A unique field reference to this asset. This attribute does not necessarily change when the asset is replaced or moved. It is not an asset ID for tracking, but rather a long term in-field & contractual reference. EG "BBQ7"
M	MATERIAL	Alpha	25 chars	No commas	Line material, EG: RC (Table 5.16)
M	PLACE_DATE	Alpha/Numeric	10 chars	dd/mm/yyyy	Creation/Construction/Installation date, EG: 2010; 17/05/2001
	ASSET_ID	Alpha/Numeric	15 chars	No commas	Unique Asset identifier, used for accounting & asset management
	EXPEC_LIFE	Whole Number	n/a	Years	Expected life in Years
	REPL_COST	Decimal Number	n/a	Currency	Replacement cost of Asset as new
I	LAST_AUDIT	Date	n/a	dd/mm/yyyy	Date of the previous audit EG: 12/06/2012
I	CONDITION	Whole Number	n/a	Whole Number	Asset Condition Rating classification (Section 6)
I	COND_BY	Alpha	15 chars	No commas	Condition surveyor
M	OWNER	Alpha/Numeric	5 chars	No commas	Responsible Entity (Table 5.17)
I	COA_REF	Alpha/Numeric	20 chars	No commas	Synergy file or record number
M	SOURCE_REF	Alpha/Numeric	20 chars	No commas	Plan Number or Survey Job Reference: EG: 6080R212
M	SOURCE	Alpha/Numeric	100 chars	No commas	Source name and additional details related to the SOURCE_REF; EG: As-Constructed Plan; Designed Drawing; Great Southern Surveyors - Stage 2 – 09/02/2013; CoA Assets Surveyor – Bob Jones – 15/07/2009
	WAPC_NO	Alpha/Numeric	20 chars	No commas	Western Australian Planning Commission reference number; or 'n/a'
	COMMENTS	Alpha/Numeric	100 chars	No commas	Any additional comments that relate to this feature

5. CODE LISTS

Code lists are used to standardise terminology by providing a list of item descriptions relating to a particular attribute. A number of attributes specified in [Section 4](#) require the input of these codes.

Consultants please note that should a code not exist within an attribute code list, mark the entity as code UNK, then write the new code and an appropriate description in the comment field. Please pre-empt this situation by communicating such anomalies to the City of Albany promptly (email: cityassets@albany.wa.gov.au).

5.1. Sewer Point Type

Code	Description	Comment
SV	Sewer Valve	
RVCD	RV Chemical Disposal	
SIO	Sewer Inspection Opening	
WLP	Waste Site Leachate Point	
BIO	Bio Filter	
UNK	Unknown	Use when not known

5.2. Sewer Line Type

Code	Description	Comment
SMC	Sewer Main Connection	The primary connection line that links the internal sewer lines to the Water Corporation sewer service.
ISL	Internal Sewer Line	E.G. from the toilet to the SMC
WLL	Waste Site Leachate Line	
WLC	Waste Site Leachate Chute	
UNK	Unknown	Use when not known

5.3. Sewer Materials

Code	Description	Comment
C	Concrete	
M	Metal	
PVC	PVC	
PP	Polyethylene	
UNK	Unknown	Use when not known

5.4. Sewer Pump Type

Code	Description	Comment
SWBP	Sewer Booster Pump	
SWCP	Sewer Chopper/Grinder Pump	
SWSP	Sewer Submersible Pump	
UNK	Unknown	Use when not known

5.5. Electrical Point Type

Code	Description	Comment
PP	Power Point (GPO)	
RCD	Residual Current Device	
EGM	Electric Gate Motor	
SMSB	Site Main Switchboard	Includes the cabinet structure
EP	Electrical Pit	
DB	Distribution Board	Includes the cabinet structure
PM	Power Meter	
ERTH	Earth Point	
ED	Electrical Dome	
ET	Electrical Transformer	
AC	Air Compressor	
G	Generator	
SB	Scoreboard	Digital scoreboard for sporting grounds
EV	Electrical Vehicle Charging	Charging Station
UNK	Unknown	Use when not known

5.6. Electrical Line Type

Code	Description	Comment
EL	Electricity Line	
UNK	Unknown	Use when not known

5.7. Water Point Type

Code	Description	Comment
WTL	Water Tap Locked	Special access
WTP	Water Tap Potable	Either scheme supplied or treated and tested
WTN	Water Tap Non-Potable	No treatment system
WT	Water Trough	Water trough or sink
WV	Water Valve	
WM	Water Meter	
TB	Tapping Band	
FP	Flushing Point	
UNK	Unknown	Use when not known

5.8. Water Line Type

Code	Description	Comment
WP	Pressurised Water	
UNK	Unknown	Use when not known

5.9. Fuel Point Type

Code	Description	Comment
PFP	Petroleum Fuel Pump	
AFP	Aviation Fuel Pump	
DFP	Diesel Fuel Pump	
PFS	Petroleum Fuel Storage	
AFS	Aviation Fuel Storage	
DFS	Diesel Fuel Storage	
GFS	Gas Fuel Storage	
GV	Gas Valve	
GM	Gas Meter	
UNK	Unknown	Use when not known

5.10. Fuel Line Type

Code	Description	Comment
PFL	Petroleum Fuel Line	
DFL	Diesel Fuel Line	
AFL	Aviation Fuel Line	
GL	Gas Line	
UNK	Unknown	Use when not known

5.11. Communication Point Type

Code	Description	Comment
TP	Telephone Point	
DP	Data Point	
RN	Radio Network	City of Albany WAN
PJ	Projector	
SA	Swipe Access /FOB	
CCTV	Closed Circuit TV	
CP	Communication Pit	
WS	Windsock	Visual communication
AP	Antenna Point	
UNK	Unknown	Use when not known

5.12. Communication Line Type

Code	Description	Comment
TL	Telephone Line	
DL	Data Line	LAN cable etc.
UNK	Unknown	Use when not known

5.13. Fire Point Type

Code	Description	Comment
FH	Fire Hydrant	
FHR	Fire Hose Reel	
FSV	Fire Service Valve	
UNK	Unknown	Use when not known

5.14. Fire Line Type

Code	Description	Comment
FS	Fire Service Main	
UNK	Unknown	Use when not known

5.15. Emergency Point Type

Code	Description	Comment
LR	Life Ring	
DFB	Defibrillator	
ECW	Eye / Chemical Wash Station	
UNK	Unknown	Use when not known

5.16. Service Materials

Code	Description	Comment
PVC	PVC	
GAL	Galvanised	
COP	Copper	
B	Brass	
C	Concrete	
MDPE	Medium Density Polyethylene	
F	Fibre	
PE	Polyethylene	
CI	Cast Iron	
UNK	Unknown	Use when not known

5.17. Owner

Code	Description	Comment
COA	City of Albany	
CAL	City of Albany – Leased	
SGU	State Government Departments / Utilities	Western Power, Telstra MRWA etc
PVT	Private	On Private Land

6. CONDITION RATINGS

Condition Ratings are generally in three classes. The maintenance demand is related to these classes:

- Rating 1 is serviceable with no maintenance required;
- Rating 2 requires maintenance but is still functioning;
- Rating 3 requires immediate attention. The asset has failed and is posing a risk.

A rating of 0 (zero) is only used when an asset has not been rated. This situation should be avoided.

Document Approval			
Document Development Officer:		Document Owner: <i>(Member of EMT)</i>	
GIS Technical Officer		Manager of Engineering	
Document Control			
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Draft 0.1	Rebekah Polette	Review of document name, addition of introduction. Update fields and headers	01/03/2016
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1.1	Rebekah Polette	Added codes in 3.1, 3.3,	03/07/2017
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