

MRC GUIDELINES FOR "AS-CONSTRUCTED" AND ADAC V4.1 SURVEY PICK-UP





TABLE OF CONTENTS

1	Р	Purpose	7
2	G	General Survey Requirements	7
	2.1	Work must be carried out by a Registered Surveying Person	7
	2.2	Survey Exceptions	7
	2.3	Review and Approval	7
3	S	Survey Elements	8
4	S	Survey Data Standards	8
	4.1	Survey Codes	8
	4.2	Required Datum / Projection	8
	4.3	Acceptable tolerances	10
5	S	Scope of survey	10
6	"/	As-Constructed" Survey Requirements	10
	Т	Гор Cut / Fill	12
	Т	Γoe Cut / Fill	12
	S	Spot Level	12
	С	Change of Grade	12
	Р	Permanent Survey Mark	13
	S	Survey Target	13
	S	Station	13
	С	Original Pegs and References	13
	D	Dumpy Peg	14
	N	Nail	14
	S	Spike	14
	D	Orill Hole	15
	Т	Fraverse Line	15
	Е	Existing Property Boundary	15
		Existing Easement Boundary	
	S	Small Tree < 0.3 dia	16
	L	.arge Tree	16
	Р	Palm – all varieties	16
	S	Single Shrub < 5 m	17
	G	Garden Edge	17
	Е	Edge of Vegetation	17
	Т	Free Drip Line	18
	L	ip of Concrete Channel	18
	lr	nvert of Concrete Channel	18
	L	oose Rock e.g. Erosion Protection	18
	V	Vatercourse Centreline	19

Pondage – dam/lake	19
Creek	19
Stormwater Pipe Invert Level	19
Box Culvert Invert Level	20
Pit without Grate	20
Pit with Grate	20
Stormwater Manhole	21
Stormwater Manhole Strung	21
Stormwater Underground	21
Culvert/Pipe Crown	22
Culvert/Pipe Obvert	22
Headwall &/or Wingwall	22
Property Drainage Connection	23
Maximum Height Gauge	23
Subsoil Flush Point	23
Stormwater Silt Trap	24
Stormwater Trash Rack	24
Gross Pollutant Trap – Manhole	24
Gross Pollutant Trap – Other	25
Stormwater Detention Basin	25
Centre of Bitumen	25
Change of Grade on Bitumen	25
Edge of Bitumen	26
Edge of Shoulder	26
Lip of K&C	26
Invert of K&C	27
Top of K&C	27
Back of K&C	27
Kerb Only	28
Footpath	28
Driveway	28
Driveway – Not on DTM	29
Tactile Ground Surface Indicators	29
Pram Ramp	29
Borehole – Geotechnical	29
Edge of Gravel Road	30
Centre of Gravel Road	
Edge of Track	
Guardrail	
Large Signs Strung	
Signs	

Letterbox/Postbox	32
Traffic Light	32
Traffic Controller Box	32
Traffic Pit	32
Traffic Unclassified	33
Road Furniture Uncl	33
Monument	33
Joint Use Pole	33
Traffic Controller Box Strung	34
Red Light Camera	34
Guide Post	34
Chevrons & Symbols	35
Unbroken Line – All types, excl. Edge Line	35
Lane Line	35
Rumble Bars	35
Dividing Line 3 m 9 m	36
Barrier Line One Direction	36
Barrier Line Both Directions	36
Edge Line	36
Continuity Line	37
Turn Line	37
Stop Line	37
Give Way Line	37
Crosswalk Line	38
Parking Line	38
Exit line at multilane roundabout	38
Wall	38
Awning/Eaves	39
Shed	39
Building	39
Verandah	39
Steps	40
Bridge	40
Concrete Slab	40
Structure – Unclassified	41
Swimming Pool	41
Bore/Well	41
Sports Arena/Field	42
Tower/Chimney	42
Retaining Wall	42
Tank - General	42

Floor Level	43
Park – Bench Seat	43
Park – Playground Equipment	43
Park – Table/Chairs on Slab	44
Park - Barbeque	44
Park – Rubbish Bin	45
Irrigation Sprinkler Head	45
Irrigation Pit	45
Irrigation Underground	45
Bus Shelter	46
Electricity Marker	46
Electricity Substation on ground	46
Staywire	47
Staypole	47
Electricity Manhole/Box Strung	47
Light Pole + no.	48
Electricity Pole Only + no	48
Electricity Pole with Light + no	48
Electricity Unclassified	48
Electricity Pit	49
Electricity Line Overhead	49
Electricity Line Underground	49
Electricity Pillar	50
Communications Manhole/Box Strung	50
Communications Pit	50
Communications Pillar	50
Communications Marker	51
Communications Pole + no	51
Communications Cabinet	51
Communications Unclassified	52
Communications Lines Overhead	52
Communications Lines Underground	52
Optic Fibre Underground	52
Electricity Conduit Crown	53
Communications Conduit Crown	53
Optic Fibre Crown	53
Gas Manhole/Box Strung	54
Gas Valve	
Gas Marker	54
Gas Unclassified	54
Gas Underground	55



Sewer Mannole/Box Strung	55
Sewer Manhole	55
Sewer Unclassified	56
Sewer Underground	56
Sewer – Rising Main Valve	57
Sewer Invert	57
Sewer Crown	57
Sewer Vent Pole	58
Water Manhole/Box Strung	58
Water Valve	58
Water Tap	58
Fire Hydrant	59
Water Meter	59
Water Unclassified	59
Water Underground	60
Water – Reservoir	60
Watermain Crown	60
Water Marker	61
Water Service	61
Unclassified Pit	61
Unclassified Pole	62
Unclassified Utility	62
Unclassified Manhole/Box Strung	62
Railway Line	62
Railways Boom Gate	63
Railways Signals Pole	63
Railways Signal Box	63
Railways Switch	64
Railways Unclassified	64
Cattle Grid	64
Fence	64
Fence Post – Isolated	65
Gate	65
Bollard	65
Appendix A Example Sketches of Detail Codes	66

VERSION NO	DESCRIPTION AND DISTRIBUTION	DATE	COMMENTS
2017.06A	ORIGINAL ISSUE	02/06/2017	-
2020.06A	GDA2020 IMPLEMENTATION	22/06/2020	-
2023.06A	UPDATED SURVEY CODE LIBRARY	28/06/2023	-



1 PURPOSE

The purpose of this document is to act as a reference guide with respect to completing "As-Constructed" surveys of new donated civil infrastructure and associated assets handed over to the Mackay Regional Council (MRC).

The "As-Constructed" survey data shall accurately reflect the location of all infrastructure installed and earthworks completed and will form the basis of any "As-Constructed" drawings and plans and ADAC XML file(s).

Note: Specific details regarding the preparation and presentation of any required "As-Constructed" drawings, plans, and XML files should be produced as per Mackay Regional Council's Engineering Design Guidelines (D20), Drawings and Documentation Guidelines and the MRC Guidelines for the Creation and Lodgement of ADAC XML Files.

2 GENERAL SURVEY REQUIREMENTS

2.1 Work must be carried out by a Registered Surveying Person

All "As-Constructed" works (except for the cases listed below) must be surveyed by a Surveying Associate, Graduate or Surveyor registered with the Surveyors Board of Queensland.

The Registered Surveying Person shall certify the details upon completion of the project. Their certification must note that the "As-Constructed" survey data represents the true and accurate location of the relevant construction element presented in the data, relative to the appropriate survey data (i.e. the exact location in space of each construction element/entity).

The Registered Surveying Person certification must accompany the "As-Constructed" plans and electronic file to Council. Refer to per Mackay Regional Council's Engineering Design Guidelines (D20), Drawings and Documentation Guidelines for an example of an acceptable Registered Surveying Person's Certification.

2.2 Survey Exceptions

All "As-Constructed" plans submitted to Council must be based on a physical survey with the following exceptions:

- 1. Pre-fabricated assets with no underground services (e.g. bus shelters, waste collection points, bicycle fittings etc.). In this situation, a site map with GPS coordinates will suffice.
- 2. Other low risk asset types as determined by Technical Services (e.g. footpaths). If you are in doubt whether a survey is required, please contact Technical Services for advice.

2.3 Review and Approval

Council will conduct random site audits to confirm that submitted data conforms to requirements, including positional accuracies and tolerances, as well as the submission of all required objects and attributes.

Release / Sealing of subdivisional title plans and approval of construction project milestones will <u>not</u> occur until all required "As-Constructed" information is received in the manner prescribed in this manual.



3 SURVEY ELEMENTS

The "As-Constructed" survey will include the following details at the Chainages or Point Numbers as shown on the "For Construction" plans:

- 1. Road centreline
- 2. Change of grade of finished surface
- 3. Edge of bitumen
- 4. Lip, Invert and top of kerb and channel
- 5. Lip of kerb on median strips
- 6. Line marking including chevrons
- 7. Gully pits, headwalls, stormwater manholes/chambers, and field inlet pits
- 8. Subsoil drains and flush points
- 9. Invert levels of pipes and box culverts
- 10. Road shoulder
- 11. Top and invert of drains
- 12. New Signs placed
- 13. Concrete driveways, and invert crossings
- 14. Kerb ramps
- 15. Crash barriers
- 16. Fencina
- 17. Road and park furniture and concrete pathways
- 18. New sewer lines and manholes
- 19. New water lines, valves, hydrants, water meters, and water services
- 20. New Telecommunications services
- 21. New electrical services including street lighting
- 22. Corners of bridge deck and abutments
- 23. Retaining wall bases and any steps along the top and changes in direction
- 24. Trees

4 SURVEY DATA STANDARDS

Digital "As-Constructed" data recorded and supplied to Council by the Submitter shall be in accordance with Section 6 - "As-Constructed" Survey Requirements

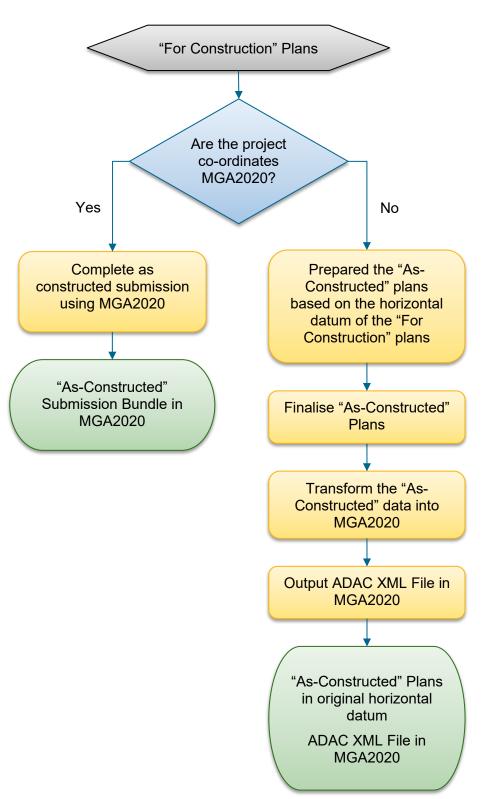
4.1 Survey Codes

When picking up detail, all points shall be coded in accordance with Council's Standard Survey Codes. Council's standard survey codes and layers are shown in MRC Survey Codes and Layers.pdf

4.2 Required Datum / Projection

The horizontal datum for "As-Constructed" surveys is dependent on the original project datum. The required vertical datum for "As-Constructed" surveys is AHD71. All ADAC XML files are to be submitted with MGA2020 co-ordinates.

Refer to flowchart below for guidance for correct horizontal datum selection for the "As-Constructed" submission.





4.3 Acceptable tolerances

All engineering surveys undertaken which are used as the basis of "As-Constructed" plans to be submitted to Council shall comply with the following limits:

- 1. All levels on survey stations and bench marks placed shall be to an accuracy of ± 2 mm and shall be based on AHD Level Datum as defined by a PSM with a vertical uncertainty of 18 mm * \sqrt{k} (4th order/class D)¹ or better.
- 2. All distances between survey marks placed shall be measured to an accuracy of ±5 mm.
- 3. All distances to other features shall be measured to an accuracy of ± 10 mm.
- 4. All bearings and angles to be measured to an accuracy of ± 5 seconds. The origin of all bearings shall be MGA94 ZONE 55 and this is to be indicated on the field notes plan when the project is being undertaken on behalf of Council.
- 5. In general, all reduced levels on surveyed hard surface features shall be measured to an accuracy of ±7 mm and all reduced levels on surveyed natural surface features shall be measured to an accuracy of ±20 mm. Refer to Section 6 "As-Constructed" Survey Requirements for more specific details

5 SCOPE OF SURVEY

The survey must include all new; modified; removed; and abandoned infrastructure associated with the physical works that is, or will be, the responsibility of MRC. These assets can potentially be within easements, private property, Council's local government road reserves and Queensland State controlled road reserves.

The "As-Constructed" data must include all asset types and boundary information that is relevant to the submission even when no ADAC attribute information is required.

If an asset type is not listed in Section 6 - "As-Constructed" Survey Requirements, contact the Survey Coordinator for more information

6 "AS-CONSTRUCTED" SURVEY REQUIREMENTS

The table below contains Council's survey requirements for "As-Constructed" plan assets / objects.

The required horizontal survey accuracies (XY) and vertical survey accuracies (Z) listed below are for "As-Constructed" surveys of projects built to a design.

These accuracies are within the capability of a competent operator utilising contemporary surveying equipment that is in good adjustment.

However, it is recognised some small projects built in isolation based on a standard drawing (e.g., bus stops) do not need to be located to this high level of accuracy for asset management purposes. In such instances, a second set of accuracies has been listed.

Refer also to the example sketch plans for Road, Open Space, and Services for guidance regarding Council's survey methodology.

¹ As defined by Intergovernmental Committee on Surveying and Mapping (ICSM) Standard for the Australian Control Network Special Publication 1 (SP1) Version 2.0 October 2013 – www.icsm.gov.au



Notes:

- 1. Since Council has adopted the Asset Design As Constructed (ADAC) data specification published by the Institute of Public Works Engineering (IPWEA), there may be two sets of survey location data required (i.e., Council's standard asset pick-up points and additional ADAC data points).
- 2. Not all surveyed objects have corresponding asset data attributes in Council's "As-Constructed" Data Specification (Refer to MRC Guidelines for the Creation and Lodgement of ADAC XML Files). Where an object requires additional attribute data, the Asset Class and Asset Type are shown.
- 3. The structure of the table is as follows:

Description	Description The survey code description		
Survey Code	The three digit survey code		
Layer Name	The drafting package layer name		
Surveyed Location	MRC	The survey pick up method as required by MRC	
	ADAC	The survey pick up method as required by ADAC	
Required Survey Accuracy	Horizontal (XY)	The required MRC "As-Constructed" horizontal survey accuracy relative to the survey control	
	Vertical (Z)	The required MRC "As-Constructed" vertical survey accuracy relative to the survey control	
Required Accuracy for Asset Management Purposes	Horizontal (XY)	The maximum horizontal survey accuracy of assets located purely for asset management purposes	
	Vertical (Z)	The maximum vertical survey accuracy of assets located purely for asset management purposes	
Object Type	The geometry type (point, line or polygon)		
Asset Class/ADAC Element	The corresponding ADAC Class and Element		
Extra Comments:	Any additional comments e.g., regarding the survey pick up method		

Description		Top Cut / Fill	
Survey Code	102		
Layer Name	BATTER TOP		
Surveyed Location	MRC	String most abrupt change of aspect	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 100 mm	
	Vertical (Z)	± 25 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Poly	ineFeature	
Extra Comments:			
Description		Toe Cut / Fill	
Survey Code	103		
Layer Name	BATTER TOE		
Surveyed Location	MRC	String most abrupt change of aspect	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 100 mm	
	Vertical (Z)	± 25 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary PolylineFeature		
Extra Comments:	To define the toe of bank in detention basins use code 326 (SW BASIN) instead		
Description		Spot Level	
Description Survey Code	104	Spot Level	
	104 SPOT LEVEL	Spot Level	
Survey Code		Spot Level Single surface shot	
Survey Code Layer Name	SPOT LEVEL		
Survey Code Layer Name	SPOT LEVEL MRC	Single surface shot	
Survey Code Layer Name Surveyed Location	SPOT LEVEL MRC ADAC 4.1	Single surface shot Same as MRC	
Survey Code Layer Name Surveyed Location	SPOT LEVEL MRC ADAC 4.1 Horizontal (XY)	Single surface shot Same as MRC ± 100 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy	SPOT LEVEL MRC ADAC 4.1 Horizontal (XY) Vertical (Z)	Single surface shot Same as MRC ± 100 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type	SPOT LEVEL MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point	Single surface shot Same as MRC ± 100 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element	SPOT LEVEL MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point	Single surface shot Same as MRC ± 100 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments:	SPOT LEVEL MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point	Single surface shot Same as MRC ± 100 mm ± 25 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description	SPOT LEVEL MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Surface SpotHeight	Single surface shot Same as MRC ± 100 mm ± 25 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	SPOT LEVEL MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Surface SpotHeight	Single surface shot Same as MRC ± 100 mm ± 25 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	SPOT LEVEL MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Surface SpotHeight 105 CH GRADE	Single surface shot Same as MRC ± 100 mm ± 25 mm Change of Grade	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	SPOT LEVEL MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Surface SpotHeight 105 CH GRADE MRC	Single surface shot Same as MRC ± 100 mm ± 25 mm Change of Grade String change of aspect	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	SPOT LEVEL MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Surface SpotHeight 105 CH GRADE MRC ADAC 4.1	Single surface shot Same as MRC ± 100 mm ± 25 mm Change of Grade String change of aspect N/A – not a mandatory inclusion	

Asset Class/ADAC Element	Supplementary PolylineFeature		
Extra Comments:			
Description	Permanent Survey Mark		
Survey Code	111		
Layer Name	SURV PSM		
Surveyed Location	MRC	Locate centre of mark, record PSM number	
	ADAC 4.1	Same as MRC	
Required Survey Accuracy	Horizontal (XY)	± 5 mm	
	Vertical (Z)	± 2 mm	
Object Type	Point	,	
Asset Class/ADAC Element	Cadastre SurveyMar	k	
Extra Comments:		cupied as a survey station use code 114. Pole check rizontal accuracy (XY) of ± 10 mm and a vertical	
Description		Survey Target	
Survey Code	112		
Layer Name	SURV TRGT		
Surveyed Location	MRC	Locate centre of mark	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 5 mm	
	Vertical (Z)	± 2 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:	When the TRGT is occupied as a survey station use code 114. Pole check shots may have a horizontal accuracy (XY) of ± 10 mm and a vertical accuracy (Z) of ± 7 mm		
Description		Station	
Survey Code	114		
Layer Name	SURV STN		
Surveyed Location	MRC	Locate centre of mark	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 5 mm	
	Vertical (Z)	± 2 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:			
Description	Original Pegs and References		
Survey Code	115		
Layer Name	SURV CADST		



Surveyed Location	MRC	Locate centre of mark, record station number and survey plan number		
	ADAC 4.1	N/A – not a mandatory inclusion		
Required Survey Accuracy	Horizontal (XY)	± 10 mm		
	Vertical (Z)	± 7 mm		
Object Type	Point			
Asset Class/ADAC Element	Supplementary Poir	Supplementary PointFeature		
Extra Comments:	Mainly used to record the position of original boundary pegs			
Description		Dumpy Peg		
Survey Code	116			
Layer Name	SURV DUMPY			
Surveyed Location	MRC	Locate centre of peg		
	ADAC 4.1	N/A – not a mandatory inclusion		
Required Survey Accuracy	Horizontal (XY)	± 10 mm		
	Vertical (Z)	± 7 mm		
Object Type	Point			
Asset Class/ADAC Element	Supplementary Poir	Supplementary PointFeature		
Extra Comments:	Dumpy pegs are not acceptable for use as survey stations except in isolated cases to acquire small amounts of detail			
Description	Nail			
	117			
Survey Code	117			
	117 SURV NAIL			
Survey Code		Locate centre of mark		
Survey Code Layer Name	SURV NAIL			
Survey Code Layer Name	SURV NAIL MRC	Locate centre of mark		
Survey Code Layer Name Surveyed Location	SURV NAIL MRC ADAC 4.1	Locate centre of mark N/A – not a mandatory inclusion		
Survey Code Layer Name Surveyed Location	SURV NAIL MRC ADAC 4.1 Horizontal (XY)	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm		
Survey Code Layer Name Surveyed Location Required Survey Accuracy	SURV NAIL MRC ADAC 4.1 Horizontal (XY) Vertical (Z)	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm		
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type	SURV NAIL MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Poir When the nail is a s check measuremen	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm		
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element	SURV NAIL MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Poir When the nail is a s check measuremen	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm htFeature urvey station use code 114. Mainly used to record ts. Pole check shots may have a horizontal accuracy		
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments:	SURV NAIL MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Poir When the nail is a s check measuremen	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm htFeature urvey station use code 114. Mainly used to record ts. Pole check shots may have a horizontal accuracy d a vertical accuracy (Z) of ± 7 mm		
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description	SURV NAIL MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Point When the nail is a s check measuremen (XY) of ± 10 mm and	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm htFeature urvey station use code 114. Mainly used to record ts. Pole check shots may have a horizontal accuracy d a vertical accuracy (Z) of ± 7 mm		
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	SURV NAIL MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Poir When the nail is a s check measuremen (XY) of ± 10 mm and	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm htFeature urvey station use code 114. Mainly used to record ts. Pole check shots may have a horizontal accuracy d a vertical accuracy (Z) of ± 7 mm		
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	SURV NAIL MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Poir When the nail is a s check measuremen (XY) of ± 10 mm and 118 SURV SPIKE	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm htFeature urvey station use code 114. Mainly used to record ts. Pole check shots may have a horizontal accuracy d a vertical accuracy (Z) of ± 7 mm Spike		
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	SURV NAIL MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Poir When the nail is a s check measuremen (XY) of ± 10 mm and 118 SURV SPIKE MRC	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm htFeature urvey station use code 114. Mainly used to record ts. Pole check shots may have a horizontal accuracy d a vertical accuracy (Z) of ± 7 mm Spike Locate centre of mark		
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	SURV NAIL MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Point When the nail is a s check measuremen (XY) of ± 10 mm and 118 SURV SPIKE MRC ADAC 4.1	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm htFeature urvey station use code 114. Mainly used to record ts. Pole check shots may have a horizontal accuracy d a vertical accuracy (Z) of ± 7 mm Spike Locate centre of mark N/A – not a mandatory inclusion		
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	SURV NAIL MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Poir When the nail is a s check measuremen (XY) of ± 10 mm and 118 SURV SPIKE MRC ADAC 4.1 Horizontal (XY)	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm htFeature urvey station use code 114. Mainly used to record ts. Pole check shots may have a horizontal accuracy d a vertical accuracy (Z) of ± 7 mm Spike Locate centre of mark N/A – not a mandatory inclusion ± 5 mm		
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy	SURV NAIL MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Poir When the nail is a s check measuremen (XY) of ± 10 mm and 118 SURV SPIKE MRC ADAC 4.1 Horizontal (XY) Vertical (Z)	Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm htFeature urvey station use code 114. Mainly used to record ts. Pole check shots may have a horizontal accuracy d a vertical accuracy (Z) of ± 7 mm Spike Locate centre of mark N/A – not a mandatory inclusion ± 5 mm ± 2 mm		

Extra Comments:	When the spike is a survey station use code 114. Mainly used to record check measurements. Pole check shots may have a horizontal accuracy (XY) of ± 10 mm and a vertical accuracy (Z) of ± 7 mm			
Description	Drill Hole			
Survey Code	119			
Layer Name	SURV DRILL			
Surveyed Location	MRC	Locate centre of mark		
	ADAC 4.1	N/A – not a mandatory inclusion		
Required Survey Accuracy	Horizontal (XY)	± 10 mm		
	Vertical (Z)	± 7 mm		
Object Type	Point			
Asset Class/ADAC Element	Supplementary Point	tFeature		
Extra Comments:	check measurements	When the drill hole is a survey station use code 114. Mainly used to record check measurements. Pole check shots may have a horizontal accuracy (XY) of ± 10 mm and a vertical accuracy (Z) of ± 7 mm		
Description		Traverse Line		
Survey Code	150			
Layer Name	SURV TRAV			
Surveyed Location	MRC	Line from boundary corner to boundary corner or survey mark to survey mark		
	ADAC 4.1	N/A – not a mandatory inclusion		
Required Survey Accuracy	Horizontal (XY)	N/A – Dependant on accuracy of end points		
	Vertical (Z)	N/A – Dependant on accuracy of end points		
Object Type	Polyline			
Asset Class/ADAC Element	Supplementary Polyl	Supplementary PolylineFeature		
Extra Comments:				
Description		Existing Property Boundary		
Survey Code	151 or 151 gis			
Layer Name	RP BDY E or RP BD	Y E gis		
Surveyed Location	MRC	The property boundary		
	ADAC 4.1	N/A – not a mandatory inclusion		
Required Survey Accuracy	Horizontal (XY)	151: ± 10 mm (assuming lots close within acceptable limits) 151 gis: ± 100 mm (urban areas) 151 gis: ± 500 mm (rural areas)		
	Vertical (Z)	N/A – Null all heights		
Object Type	Polyline			
Asset Class/ADAC Element	N/A			
Extra Comments:	Use 151 (RP BDY E) when boundaries are plotted from cadastral connections.			
	Use 151 gis (RP BDY E gis) when boundaries are imported from the DCDB.			
Description	Existing Easement Boundary			

Survey Code	154 or 154 gis		
Layer Name	EASE BDY E or EASE BDY E gis		
Surveyed Location	MRC	The easement boundary	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	154: ± 10 mm (assuming lots close within acceptable limits)	
		154 gis: ± 100 mm (urban areas)	
	Vertical (Z)	154 gis: ± 500 mm (rural areas)	
Object Type	Polyline	N/A – Null all heights	
Asset Class/ADAC Element	N/A		
Extra Comments:		E) when boundaries are plotted from cadastral	
Extra Comments.	connections.	e) when boundaries are plotted from cadastral	
	Use 154 gis (EASE BDY E gis) when boundaries are imported from the DCDB.		
Description		Small Tree < 0.3 dia.	
Survey Code	201		
Layer Name	TREE SMALL		
Surveyed Location	MRC	Centre of trunk	
	ADAC 4.1	Same as MRC	
Required Survey Accuracy	Horizontal (XY)	± 20 mm	
	Vertical (Z)	± 50 mm (see extra comments)	
Object Type	Point		
Asset Class/ADAC Element	OpenSpace Tree		
Extra Comments:	•	ound level is preferred, but not necessary. If the tindicative of the ground surface, null the height.	
Description		Large Tree	
Survey Code	202		
Layer Name	TREE LARGE		
Surveyed Location	MRC	Centre of Trunk	
	ADAC 4.1	Same as MRC	
Required Survey Accuracy	Horizontal (XY)	± 100 mm	
	Vertical (Z)	± 50 mm (see extra comments)	
Object Type	Point		
Asset Class/ADAC Element	OpenSpace Tree		
Extra Comments:	The tree height at ground level is preferred, but not necessary. If the recorded height is not indicative of the ground surface, null the height.		
Description	Palm – all varieties		
Survey Code	203		
Layer Name	TREE PALM		
Surveyed Location	MRC	Centre of Trunk	

	ADAC 4.1	Same as MRC
D : 10	-	
Required Survey Accuracy	Horizontal (XY)	± 100 mm
	Vertical (Z)	± 50 mm (see extra comments)
Object Type	Point	
Asset Class/ADAC Element	OpenSpace Tree	
Extra Comments:		round level is preferred, but not necessary. If the oot indicative of the ground surface, null the height.
Description		Single Shrub < 5 m
Survey Code	204	
Layer Name	SHRUB	
Surveyed Location	MRC	Centre of Shrub
	ADAC 4.1	Same as MRC
Required Survey Accuracy	Horizontal (XY)	± 100 mm
	Vertical (Z)	± 50 mm (see extra comments)
Object Type	Point	
Asset Class/ADAC Element	OpenSpace Tree	
Extra Comments:		round level is preferred, but not necessary. If the ot indicative of the ground surface, null the height.
Description		Garden Edge
Survey Code	205	
Layer Name	GARDEN EDG	
Surveyed Location	MRC	String along outermost edge of the garden at ground level
	ADAC 4.1	For new landscaped areas within open space areas, string around the outermost edge of landscaped areas using code A205 instead
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Polyline/Polygon	
	205 Supplementary PolylineFeature, Supplementary PolygonFeature	
Asset Class/ADAC Element	205 Supplementary A205 OpenSpace L	
Asset Class/ADAC Element Extra Comments: Description		
Extra Comments: Description		andscapeArea
Extra Comments: Description Survey Code	A205 OpenSpace L	andscapeArea
Extra Comments: Description Survey Code Layer Name	A205 OpenSpace L	andscapeArea
Extra Comments: Description Survey Code Layer Name	A205 OpenSpace L 206 VEGETATION	Edge of Vegetation String along the outermost edge of the cultivated
Extra Comments: Description Survey Code Layer Name Surveyed Location	206 VEGETATION MRC	Edge of Vegetation String along the outermost edge of the cultivated area
Extra Comments:	206 VEGETATION MRC ADAC 4.1	Edge of Vegetation String along the outermost edge of the cultivated area N/A – not a mandatory inclusion
Extra Comments: Description Survey Code Layer Name Surveyed Location	206 VEGETATION MRC ADAC 4.1 Horizontal (XY)	Edge of Vegetation String along the outermost edge of the cultivated area N/A – not a mandatory inclusion ± 100 mm



Asset Class/ADAC Element	Supplementary Poly	/lineFeature, <i>Supplementary</i> PolygonFeature
Extra Comments:		
Description		Tree Drip Line
Survey Code	207	
Layer Name	TREE DRIP LINE	
Surveyed Location	MRC	String along the outermost edge of the cultivated area
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 300 mm
	Vertical (Z)	N/A
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	Supplementary Poly	lineFeature, Supplementary PolygonFeature
Extra Comments:		
Description		Lip of Concrete Channel
Survey Code	280	
Layer Name	CONCHN LIP	
Surveyed Location	MRC	String along top edge of concrete channel
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline	
Asset Class/ADAC Element	Supplementary PolylineFeature	
Extra Comments:		
Description		Invert of Concrete Channel
Survey Code	281	
Layer Name	CONCHN INV	
Surveyed Location	MRC	String along bottom of concrete channel
	ADAC 4.1	Same as MRC
	Horizontal (XY)	± 10 mm
Required Survey Accuracy		
Required Survey Accuracy	Vertical (Z)	± 7 mm
Required Survey Accuracy Object Type	Vertical (Z) Polyline	± 7 mm
Object Type	Polyline	
Object Type Asset Class/ADAC Element	Polyline StormWater Surface	
Object Type Asset Class/ADAC Element Extra Comments:	Polyline StormWater Surface	eDrain
Object Type Asset Class/ADAC Element Extra Comments: Description	Polyline StormWater Surface	eDrain
Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	Polyline StormWater Surface	eDrain
Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Polyline StormWater Surface 282 ROCK AREA	eDrain Loose Rock e.g. Erosion Protection

	Vertical (Z)	± 50 mm
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	Supplementary Pol	lylineFeature, <i>Supplementary</i> PolygonFeature
Extra Comments:	Mainly used to loca outlets	ate the extent of areas of loose rock placed at stormwater
Description		Watercourse Centreline
Survey Code	290	
Layer Name	WCOURSE CL	
Surveyed Location	MRC	String along lowest point of channel
	ADAC 4.1	Same as MRC
Required Survey Accuracy	Horizontal (XY)	± 50 mm
	Vertical (Z)	± 20 mm
Object Type	Polyline	
Asset Class/ADAC Element	StormWater Surface	eDrain
Extra Comments:	Mainly used to sho and bottom banks	w flow paths that are not clearly defined drains with top
Description		Pondage – dam/lake
Survey Code	291	
Layer Name	POND	
Surveyed Location	MRC	String around contour of water level
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 100 mm
	Vertical (Z)	± 20 mm
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	Supplementary Pol	ylineFeature, <i>Supplementary</i> PolygonFeature
Extra Comments:		
Description		Creek
Survey Code	292	
Layer Name	CREEK	
Surveyed Location	MRC	String along contour of water level
	ADAC 4.1	String along lowest point of channel
Required Survey Accuracy	Horizontal (XY)	± 100 mm
	Vertical (Z)	± 20 mm
Object Type	Polyline	
Asset Class	StormWater Surface	peDrain
Extra Comments:	Usually only used was brief	when the water level is specifically requested as part of a
Description		Stormwater Pipe Invert Level
Survey Code	304	
Layer Name	SW PIPE INV	



Surveyed Location	MRC	Locate invert of pipe, record material and diameter as vertex text e.g., "375RCP"
	ADAC 4.1	For a single pipe, join the inverts using a polyline coded 312. For multiple pipes, join the inverts of the middle pipe using a polyline coded 312 and record the number of pipes.
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Point	
Asset Class/ADAC Element	304 Supplementary	/ PointFeature
	312 StormWater Pi	ре
Extra Comments:		
Description		Box Culvert Invert Level
Survey Code	305	
Layer Name	SW RCBC INV	
Surveyed Location	MRC	Locate invert of box culvert at centre of cell, record material and dimensions as vertex text e.g., "1200w × 900h RCBC"
	ADAC 4.1	For a single cell, join the invert of box culvert at the centre of cell using a polyline coded 312. For multiple cells, join the invert of box culvert at the centre of the middle cell using a polyline coded 312 and record the number of pipes.
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Point	
Asset Class/ADAC Element	305 Supplementary 312 StormWater Pi	
Extra Comments:		
Description		Pit without Grate
Survey Code	308	
Layer Name	PIT OTHER	
Surveyed Location	MRC	Closed figure around extents of pit. For gully pits, also string single line across top of kerb and across invert of kerb
	ADAC 4.1	Using code A310, locate a single point representing the centre of the chamber
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	308 Supplementary A310 StormWater	PolylineFeature, <i>Supplementary</i> PolygonFeature Pit
Extra Comments:		
Description		Pit with Grate



Survey Code	309	
Layer Name	PIT GRATED	
Surveyed Location	MRC	Closed figure around extents of pit. For gully pits, also string single line across top of kerb and across invert of kerb
	ADAC 4.1	Using code A310, locate a single point representing the centre of the chamber
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	309 Supplementary PolylineFeature, Supplementary PolygonFeature A310 StormWater Pit	
Extra Comments:		
Description		Stormwater Manhole
Survey Code	310	
Layer Name	SW MH	
Surveyed Location	MRC	Single point in centre of round lid
	ADAC 4.1	Using code A310, locate a single point representing the centre of chamber
Required Survey Accuracy	Horizontal (XY)	± 30 mm
	Vertical (Z)	± 7 mm
Object Type	Point	
Asset Class/ADAC Element	310 Supplementary PointFeature A310 StormWater Pit	
Extra Comments:		
Description		Stormwater Manhole Strung
Survey Code	311	
Layer Name	SW MH STR	
Surveyed Location	MRC	String around edge of lid
	ADAC 4.1	Using code A310, locate a single point representing the centre of chamber
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polygon	
Asset Class/ADAC Element	311 Supplementary F A310 StormWater Pi	· -
Extra Comments:		
Description		Stormwater Underground
Survey Code	312	

Surveyed Location	MRC	String centreline of pipe/cell, record vertical surveyed location as a note e.g., paint mark on surface	
	ADAC 4.1	String centreline of pipe from invert of pipe to invert of pipe. Locate any fittings using code A312.	
Required Survey Accuracy	Horizontal (XY)	Quality Level A – ± 50 mm	
Refer to AS5488-2013		Quality Level B – ± 300 mm	
Classification of Subsurface Utility Information		Quality Level C – ± 300 mm	
Ounty Information		Quality Level D – Existing Record	
	Vertical (Z)	Quality Level A – ± 50 mm	
		Quality Level B – ± 500 mm	
		Quality Level C – N/A	
		Quality Level D – Existing Record	
Object Type	Polyline		
Asset Class/ADAC Element	312 StormWater Pi	ipe	
	A312 StormWater	Fitting	
Extra Comments:			
Description		Culvert/Pipe Crown	
Survey Code	316		
Layer Name	SW CULV CROWN	V	
Surveyed Location	MRC	Locate crown of pipe or crown of culvert at centre of	
		cell	
	ADAC 4.1	N/A – not a mandatory inclusion	
		Refer to code 312 (SW UNDERG)	
Required Survey Accuracy	Horizontal (XY)	± 50 mm	
	Vertical (Z)	± 7 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary Po	intFeature	
Extra Comments:	Mainly used to reco	ord the location of underground services that have been .	
Description		Culvert/Pipe Obvert	
Survey Code	317		
Layer Name	SW CULV OBVT		
Surveyed Location	MRC	Locate obvert of pipe or obvert of culvert at centre of cell	
	ADAC 4.1	N/A – not a mandatory inclusion	
		Refer to code 312 (SW UNDERG)	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary Po	intFeature	
Extra Comments:	304 (SW PIPE INV) or 305 (SW RCBC INV) are preferred	
Description		Headwall &/or Wingwall	

Survey Code	318	
Layer Name	HEADWALL	
Surveyed Location	MRC	String around: inside edge at base of structure; inside edge at top of structure; and, where accessible, back edge at top of structure
	ADAC 4.1	Using code A318, locate a single point at the top of the structure in the centre
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	±7 mm
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	318 Supplementary F A318 StormWater Er	PolylineFeature, Supplementary PolygonFeature
Extra Comments:		ure is higher than the surrounding natural surface, structure at ground level using 105 (CH GRADE)
Description		Property Drainage Connection
Survey Code	319	
Layer Name	PROP DRCON	
Surveyed Location	MRC	Locate the invert of the drainage connection pipe at outlet point
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary Point	Feature
Extra Comments:		
Description		Maximum Height Gauge
Survey Code	320	
Layer Name	MAX HT GUA	
Surveyed Location	MRC	Locate centre of gauge at ground level
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary Point	Feature
Extra Comments:	Mainly used to locate	flood level indicators
Description		Subsoil Flush Point
Survey Code	321	
	CLIDCOIL DT	
Layer Name	SUBSOIL PT	
Layer Name Surveyed Location	MRC	Locate centre top of flush point box
-		Locate centre top of flush point box Same as MRC



	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	321 Transport Flus	hPoint
	-	nsport SubSoilDrain
Extra Comments:		
Description		Stormwater Silt Trap
Survey Code	322	
Layer Name	SW STRAP	
Surveyed Location	MRC	String the edge of the trap
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Required Accuracy for Asset	Horizontal (XY)	± 100 mm
Management Purposes	Vertical (Z)	N/A
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	Supplementary Pol	ylineFeature, <i>Supplementary</i> PolygonFeature
Extra Comments:		
Description		Stormwater Trash Rack
Survey Code	323	
Layer Name	SW TRACK	
Surveyed Location	MRC	Locate a single point in the centre of the visible rack
	ADAC 4.1	Locate single point representing the centre of the chamber
Required Survey Accuracy	Horizontal (XY)	± 100 mm
	Vertical (Z)	± 20 mm
Required Accuracy for Asset	Vertical (Z) Horizontal (XY)	± 20 mm ± 100 mm
Required Accuracy for Asset Management Purposes		
	Horizontal (XY)	± 100 mm
Management Purposes	Horizontal (XY) Vertical (Z)	± 100 mm N/A
Management Purposes Object Type	Horizontal (XY) Vertical (Z) Point	± 100 mm N/A
Management Purposes Object Type Asset Class/ADAC Element	Horizontal (XY) Vertical (Z) Point	± 100 mm N/A
Management Purposes Object Type Asset Class/ADAC Element Extra Comments:	Horizontal (XY) Vertical (Z) Point	± 100 mm N/A omplex
Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description	Horizontal (XY) Vertical (Z) Point StormWater GPTC	± 100 mm N/A omplex
Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	Horizontal (XY) Vertical (Z) Point StormWater GPTC	± 100 mm N/A omplex
Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Horizontal (XY) Vertical (Z) Point StormWater GPTC 324 GPT MH	± 100 mm N/A omplex Gross Pollutant Trap – Manhole
Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Horizontal (XY) Vertical (Z) Point StormWater GPTC 324 GPT MH MRC	± 100 mm N/A omplex Gross Pollutant Trap – Manhole Locate a single point in the centre of the manhole lid Locate single point representing the centre of the
Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	Horizontal (XY) Vertical (Z) Point StormWater GPTC 324 GPT MH MRC ADAC 4.1	± 100 mm N/A omplex Gross Pollutant Trap – Manhole Locate a single point in the centre of the manhole lid Locate single point representing the centre of the chamber
Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset	Horizontal (XY) Vertical (Z) Point StormWater GPTC 324 GPT MH MRC ADAC 4.1 Horizontal (XY)	± 100 mm N/A Momplex Gross Pollutant Trap – Manhole Locate a single point in the centre of the manhole lid Locate single point representing the centre of the chamber ± 100 mm
Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy	Horizontal (XY) Vertical (Z) Point StormWater GPTC 324 GPT MH MRC ADAC 4.1 Horizontal (XY) Vertical (Z)	± 100 mm N/A Momplex Gross Pollutant Trap – Manhole Locate a single point in the centre of the manhole lid Locate single point representing the centre of the chamber ± 100 mm ± 20 mm

Object Type	Point	
Asset Class/ADAC Element	StormWater GPTS	imple
Extra Comments:		·
Description		Gross Pollutant Trap – Other
Survey Code	325	
Layer Name	GPT OTHER	
Surveyed Location	MRC	Locate a single point in the centre of the visible trap
	ADAC 4.1	Locate single point representing the centre of the chamber
Required Survey Accuracy	Horizontal (XY)	± 100 mm
	Vertical (Z)	± 20 mm
Required Accuracy for Asset	Horizontal (XY)	± 100 mm
Management Purposes	Vertical (Z)	N/A
Object Type	Point	1
Asset Class/ADAC Element	StormWater NonGl	PTSimple
Extra Comments:		
Description		Stormwater Detention Basin
Survey Code	326	
Layer Name	SW DBASIN	
Surveyed Location	MRC	String around the toe of bank
	ADAC 4.1	Same as MRC
Required Survey Accuracy	Horizontal (XY)	± 100 mm
	Vertical (Z)	± 50 mm
Object Type	Polygon	
Asset Class/ADAC Element	StormWater WSUE)Area
Extra Comments:		
Description		Centre of Bitumen
Survey Code	401	
Layer Name	RD CN BITU	
Surveyed Location	MRC	String along crown of road
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 25 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline	•
Asset Class/ADAC Element	Supplementary Pol	lylineFeature
Extra Comments:	Used to define cen	tre of bitumen when no line marking is present
Description		Change of Grade on Bitumen
Survey Code	402	
Layer Name	CH GRD BIT	



Surveyed Location	MRC	String along change of aspect, change in seal
Curreyou Location	ADAC 4.1	N/A – not a mandatory inclusion
Described Company Assumes		
Required Survey Accuracy	Horizontal (XY)	± 25 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline	
Asset Class/ADAC Element	Supplementary Pol	ylineFeature
Extra Comments:		
Description		Edge of Bitumen
Survey Code	403	
Layer Name	RD ED BITU	
Surveyed Location	MRC	String along edge of bitumen where no kerb is present
	ADAC 4.1	Same as MRC. Use where appropriate to generate a polygon in the office representing an area of pavement or parking with code "Pavement" or "Parking". The original edge of bitumen polyline is not a mandatory inclusion in the ADAC XML file.
Required Survey Accuracy	Horizontal (XY)	± 25 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline	
Asset Class/ADAC Element	403 Supplementary	/ PolylineFeature
	Pavement Transpo	ort Pavement
	Parking Transport	Parking
Extra Comments:		
Description		Edge of Shoulder
Survey Code	405	
Layer Name	RD ED SHDR	
Surveyed Location	MRC	String along change of aspect closest to edge of bitumen
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 25 mm
	Vertical (Z)	± 20 mm
Object Type	Polyline	1
Asset Class/ADAC Element	Supplementary Pol	ylineFeature
Extra Comments:	May be used instea	ad of 102 (BATTER TOP) for the road side of table drains
Description		Lip of K&C
Survey Code	406	
Layer Name	KC LIP	
Surveyed Location	MRC	String part of kerb closest to carriageway
	ADAC 4.1	Same as MRC. Use where appropriate on <u>existing</u> kerb to generate a polygon in the office representing an area of pavement or parking with the code

		"Pavement" or "Parking". The original lip of K&C polyline is not a mandatory inclusion in the ADAC XML.
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline	
Asset Class/ADAC Element	406 Supplementary	PolylineFeature
	Pavement Transpo	
	Parking Transport	Parking
Extra Comments:		
Description		Invert of K&C
Survey Code	407	
Layer Name	KC INVERT	
Surveyed Location	MRC	String lowest point of kerb
	ADAC 4.1	Same as MRC. Use where appropriate on <u>new</u> kerb to generate a polygon in the office representing an area of pavement or parking with the code "Pavement" or "Parking". The original invert of K&C polyline is not a mandatory inclusion in the ADAC XML.
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline	
Asset Class/ADAC Element	407 Supplementary Pavement Transport Parking Transport	ort Pavement
Extra Comments:		
Description		Top of K&C
Survey Code	408	
Layer Name	KC TOP	
Surveyed Location	MRC	String highest point of kerb
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline	
Asset Class/ADAC Element	Supplementary Pol	ylineFeature
Extra Comments:		
Description		Back of K&C
Survey Code	409	
Layer Name	KC BACK	
Surveyed Location	MRC	String the part of kerb the farthest from the carriageway



	ADAC 4.1	Same as MRC	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Transport RoadEdg	e	
Extra Comments:			
Description		Kerb Only	
Survey Code	410		
Layer Name	KERB ONLY		
Surveyed Location	MRC	String around the part of the kerb closest to the carriageway at the level of the bitumen	
	ADAC 4.1	Using code A410, string around the back of kerb of traffic islands. Create a new polygon for changes in material type e.g., concrete to grass; stencilled to plain.	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline/Polygon		
Asset Class/ADAC Element		410 Supplementary PolylineFeature, Supplementary PolygonFeature A410 Transport RoadIsland	
Extra Comments:	Mainly used to locate	e concrete traffic islands	
Description		Footpath	
		and the second s	
Survey Code	411		
	411 FOOTPATH		
Survey Code		String the edges of the footpath	
Survey Code Layer Name	FOOTPATH		
Survey Code Layer Name	FOOTPATH MRC	String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the	
Survey Code Layer Name Surveyed Location	FOOTPATH MRC ADAC 4.1	String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset	FOOTPATH MRC ADAC 4.1 Horizontal (XY)	String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy	FOOTPATH MRC ADAC 4.1 Horizontal (XY) Vertical (Z)	String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm ± 7 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset	FOOTPATH MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Horizontal (XY)	String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm ± 7 mm ± 100 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes	FOOTPATH MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z)	String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm ± 7 mm ± 100 mm N/A	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type	FOOTPATH MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Polyline 411 Supplementary Pathway Transport	String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm ± 7 mm ± 100 mm N/A PolylineFeature Pathway	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element	FOOTPATH MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Polyline 411 Supplementary Pathway Transport	String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm ± 7 mm ± 100 mm N/A	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments:	FOOTPATH MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Polyline 411 Supplementary Pathway Transport	String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm ± 7 mm ± 100 mm N/A PolylineFeature Pathway sport RoadPathway	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description	FOOTPATH MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Polyline 411 Supplementary Pathway Transport RoadPathway Trans	String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm ± 7 mm ± 100 mm N/A PolylineFeature Pathway	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	FOOTPATH MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Polyline 411 Supplementary Pathway Transport RoadPathway Trans 414	String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm ± 7 mm ± 100 mm N/A PolylineFeature Pathway sport RoadPathway	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Required Accuracy for Asset Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description	FOOTPATH MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Horizontal (XY) Vertical (Z) Polyline 411 Supplementary Pathway Transport RoadPathway Trans	String the edges of the footpath Create a polyline in the office with code "Pathway" or "RoadPathway" representing the centreline of the footpath or on-road pathway ± 10 mm ± 7 mm ± 100 mm N/A PolylineFeature Pathway sport RoadPathway	



	ADAC 4.1	N/A – not a mandatory inclusion	
D : 10 A	-	·	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z) ± 7 mm		
Object Type	Polyline/Polygon		
Asset Class/ADAC Element	Supplementary PolylineFeature, Supplementary PolygonFeature		
Extra Comments:			
Description	Driveway – Not on DTM		
Survey Code	415		
Layer Name	DRIVEWAY N		
Surveyed Location	MRC	String around the top edge of the structure or along the centreline of wheel tracks	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Polyline/Polygon		
Asset Class/ADAC Element	Supplementary PolylineFeature, Supplementary PolygonFeature		
Extra Comments:	Mainly used to locate wheel tracks and concrete bridge crossovers		
Description	Tactile Ground Surface Indicators		
Survey Code	416		
Layer Name	TACTILE	TACTILE	
Surveyed Location	MRC	String around perimeter of TGSI area	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polygon	Polygon	
Asset Class/ADAC Element	Supplementary Po	lygonFeature	
Extra Comments:			
Description		Pram Ramp	
Survey Code	417	417	
Layer Name	PRAM RAMP	PRAM RAMP	
Surveyed Location	MRC	String around the edges of the structure	
	ADAC	Using code A417, locate point in centre of pram ramp at invert of kerb	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline/Polygon	Polyline/Polygon	
Asset Class/ADAC Element		417 Supplementary PolylineFeature, Supplementary PolygonFeature A417 Transport PramRamp	
Extra Comments:			
Description		Borehole – Geotechnical	



Survey Code	418	
Layer Name	BOREH GEOT	
Surveyed Location	MRC	Locate centre of borehole
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary PointFeature	
Extra Comments:		
Description	Edge of Gravel Road	
Survey Code	419	
Layer Name	RD ED GRAV	
Surveyed Location	MRC	String along edge of gravel
	ADAC 4.1	Same as MRC. Use where appropriate to generate a polygon in the office representing an area of pavement or parking with code "Pavement" or "Parking". The original edge of gravel road polyline is not a mandatory inclusion in the ADAC XML file.
Required Survey Accuracy	Horizontal (XY)	± 25 mm
	Vertical (Z)	± 20 mm
Object Type	Polyline	
Asset Class/ADAC Element	419 Supplementary PolylineFeature	
	Pavement Transport Pavement	
Fixture Communitary	Parking Transport Parking	
Extra Comments:		
Description Survey Code	Centre of Gravel Road	
Layer Name	RD CN GRAV	
Surveyed Location	MRC	String along crown of gravel road
Curveyed Location	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 25 mm
Trequired Survey Accuracy	Vertical (Z)	± 20 mm
Object Type	Polyline	120 11111
Asset Class/ADAC Element	Supplementary PolylineFeature	
Extra Comments:	Supplementary Folyimereature	
Description	Edge of Track	
Survey Code	421	
Layer Name	RD ED TRAC	
Surveyed Location	MRC	String along edge of unformed trafficked area

	ADAC 4.1	Use where appropriate to generate a polyline in the office with code "PathStructure" representing the centreline of a beach access ramp.	
Required Survey Accuracy	Horizontal (XY)	± 50 mm	
	Vertical (Z)	± 20 mm	
Object Type	Polyline		
Asset Class/ADAC Element	421 Supplementary PolylineFeature		
	PathStructure Transport PathStructure		
Extra Comments:			
Description	Guardrail		
Survey Code	501		
Layer Name	GUARDRAIL	GUARDRAIL	
Surveyed Location	MRC	String around edge of guardrail closest to carriageway	
	ADAC 4.1	Same as MRC; preferably record point at each upright	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Polyline		
Asset Class/ADAC Element	OpenSpace BarrierContinuous		
Extra Comments:			
Description	Large Signs Strung		
Survey Code	502		
Layer Name	SIGNS STR	SIGNS STR	
Surveyed Location	MRC	Locate support posts of sign	
	ADAC 4.1	Locate single point in centre of sign (refer to code 503)	
Required Survey Accuracy			
	Horizontal (XY)	± 10 mm	
	Horizontal (XY) Vertical (Z)	± 10 mm ± 20 mm	
Object Type	. ,		
Object Type Asset Class/ADAC Element	Vertical (Z)	± 20 mm	
	Vertical (Z) Polyline	± 20 mm	
Asset Class/ADAC Element	Vertical (Z) Polyline	± 20 mm	
Asset Class/ADAC Element Extra Comments:	Vertical (Z) Polyline	± 20 mm ylineFeature	
Asset Class/ADAC Element Extra Comments: Description	Vertical (Z) Polyline Supplementary Pol	± 20 mm ylineFeature	
Asset Class/ADAC Element Extra Comments: Description Survey Code	Vertical (Z) Polyline Supplementary Pol	± 20 mm ylineFeature	
Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Vertical (Z) Polyline Supplementary Pol 503 SIGNS	± 20 mm ylineFeature Signs	
Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Vertical (Z) Polyline Supplementary Pol 503 SIGNS MRC	± 20 mm ylineFeature Signs Locate support post of sign (single)	
Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	Vertical (Z) Polyline Supplementary Pol 503 SIGNS MRC ADAC 4.1	± 20 mm ylineFeature Signs Locate support post of sign (single) Same as MRC	
Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy	Vertical (Z) Polyline Supplementary Pol 503 SIGNS MRC ADAC 4.1 Horizontal (XY)	± 20 mm ylineFeature Signs Locate support post of sign (single) Same as MRC ± 10 mm	
Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	Vertical (Z) Polyline Supplementary Polyme 503 SIGNS MRC ADAC 4.1 Horizontal (XY) Vertical (Z)	± 20 mm ylineFeature Signs Locate support post of sign (single) Same as MRC ± 10 mm	

Extra Comments:		
Description	Letterbox/Postbox	
Survey Code	504	
Layer Name	LETTERBOX	
Surveyed Location	MRC	Locate centre of letterbox/postbox
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary PointFeature	
Extra Comments:		
Description		Traffic Light
Survey Code	505	
Layer Name	TR SIGNAL	
Surveyed Location	MRC	Locate centre of traffic light post
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary PointFeature	
Extra Comments:		
Description	Traffic Controller Box	
	506	
Survey Code	506	
·	TR CON BOX	
Survey Code		Locate centre of box
Survey Code Layer Name	TR CON BOX	Locate centre of box N/A – not a mandatory inclusion
Survey Code Layer Name	TR CON BOX	
Survey Code Layer Name Surveyed Location	TR CON BOX MRC ADAC 4.1	N/A – not a mandatory inclusion
Survey Code Layer Name Surveyed Location	TR CON BOX MRC ADAC 4.1 Horizontal (XY)	N/A – not a mandatory inclusion ± 10 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy	TR CON BOX MRC ADAC 4.1 Horizontal (XY) Vertical (Z)	N/A – not a mandatory inclusion ± 10 mm ± 20 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type	TR CON BOX MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point	N/A – not a mandatory inclusion ± 10 mm ± 20 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element	TR CON BOX MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point	N/A – not a mandatory inclusion ± 10 mm ± 20 mm
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments:	TR CON BOX MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point	N/A – not a mandatory inclusion ± 10 mm ± 20 mm tFeature
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description	TR CON BOX MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Point	N/A – not a mandatory inclusion ± 10 mm ± 20 mm tFeature
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	TR CON BOX MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Point	N/A – not a mandatory inclusion ± 10 mm ± 20 mm tFeature
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	TR CON BOX MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 507 TR PIT	N/A – not a mandatory inclusion ± 10 mm ± 20 mm tFeature Traffic Pit
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	TR CON BOX MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 507 TR PIT MRC	N/A – not a mandatory inclusion ± 10 mm ± 20 mm tFeature Traffic Pit Locate centre of pit lid
Survey Code Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	TR CON BOX MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 507 TR PIT MRC ADAC 4.1	N/A – not a mandatory inclusion ± 10 mm ± 20 mm tFeature Traffic Pit Locate centre of pit lid N/A – not a mandatory inclusion

Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:			
Description	Traffic Unclassified		
Survey Code	508		
Layer Name	TR UNC		
Surveyed Location	MRC	Locate centre of feature	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point	Point	
Asset Class/ADAC Element	Supplementary Po	Supplementary PointFeature	
Extra Comments:			
Description		Road Furniture Uncl	
Survey Code	509		
Layer Name	FURN RD UN	FURN RD UN	
Surveyed Location	MRC	Locate centre of feature	
	ADAC 4.1	N/A – not a mandatory inclusion	
		Use code A509 to locate the centre of bicycle fittings	
Required Survey Accuracy	Horizontal (XY)	± 100 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	509 Supplementary PointFeature		
	A509 OpenSpace BicycleFitting		
Extra Comments:			
Description	Monument		
Survey Code		510	
Layer Name	MONUMENT	China annual article adapt of management	
Surveyed Location	MRC	String around outside edge of monument	
	ADAC	Using code A510, locate single point in centre of artwork	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Required Accuracy for Asset	Horizontal (XY)	± 500 mm	
Management Purposes	Vertical (Z)	N/A	
Object Type	Polygon	Polygon	
Asset Class/ADAC Element		510 Supplementary PolygonFeature	
	A510 OpenSpace	Artwork	
Extra Comments:			
Description	Joint Use Pole		
Survey Code	511		

Layer Name	TR JU POLE		
Surveyed Location	MRC	Locate centre of pole used for both traffic signals and street lighting	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:			
Description	Traffic Controller Box Strung		
Survey Code	512	512	
Layer Name	TR CON BOX STR	TR CON BOX STR	
Surveyed Location	MRC	String around outside of large box	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Polygon	Polygon	
Asset Class/ADAC Element	Supplementary Pol	Supplementary PolygonFeature	
Extra Comments:			
Description	Red Light Camera		
Survey Code	515		
Layer Name	TR RED CAM	TR RED CAM	
Surveyed Location	MRC	Locate centre of support post	
	ADAC 4.1	N/A – not a mandatory inclusion	
	7.57.0	•	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
Required Survey Accuracy			
Required Survey Accuracy Object Type	Horizontal (XY)	± 10 mm	
	Horizontal (XY) Vertical (Z)	± 10 mm ± 20 mm	
Object Type	Horizontal (XY) Vertical (Z) Point	± 10 mm ± 20 mm	
Object Type Asset Class/ADAC Element	Horizontal (XY) Vertical (Z) Point	± 10 mm ± 20 mm	
Object Type Asset Class/ADAC Element Extra Comments:	Horizontal (XY) Vertical (Z) Point	± 10 mm ± 20 mm ntFeature	
Object Type Asset Class/ADAC Element Extra Comments: Description	Horizontal (XY) Vertical (Z) Point Supplementary Point	± 10 mm ± 20 mm ntFeature	
Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	Horizontal (XY) Vertical (Z) Point Supplementary Point 519	± 10 mm ± 20 mm ntFeature	
Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Horizontal (XY) Vertical (Z) Point Supplementary Poi 519 GUIDE POST	± 10 mm ± 20 mm ntFeature Guide Post	
Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Horizontal (XY) Vertical (Z) Point Supplementary Point 519 GUIDE POST MRC	± 10 mm ± 20 mm ntFeature Guide Post Locate centre of post	
Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	Horizontal (XY) Vertical (Z) Point Supplementary Point 519 GUIDE POST MRC ADAC 4.1	± 10 mm ± 20 mm ntFeature Guide Post Locate centre of post N/A – not a mandatory inclusion	
Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	Horizontal (XY) Vertical (Z) Point Supplementary Point 519 GUIDE POST MRC ADAC 4.1 Horizontal (XY)	± 10 mm ± 20 mm ntFeature Guide Post Locate centre of post N/A – not a mandatory inclusion ± 10 mm	
Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy	Horizontal (XY) Vertical (Z) Point Supplementary Point 519 GUIDE POST MRC ADAC 4.1 Horizontal (XY) Vertical (Z)	± 10 mm ± 20 mm ntFeature Guide Post Locate centre of post N/A – not a mandatory inclusion ± 10 mm ± 20 mm	

Description	Chevrons & Symbols	
Survey Code	530	
Layer Name	PMARK CHEV	
Surveyed Location	MRC	String centre of white line around outside of chevrons; String outside edge of large painted signs and symbols; String the centre of turning arrows
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	Supplementary PolylineFeature, Supplementary PolygonFeature	
Extra Comments:		
Description	Unbr	oken Line – All types, excl. Edge Line
Survey Code	531	
Layer Name	PMARK SLIN	
Surveyed Location	MRC	String centre of line
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline	
Asset Class/ADAC Element	Supplementary PolylineFeature	
Extra Comments:		
Description	Lane Line	
Survey Code	532	
Layer Name	PMARK LANE	
Surveyed Location	MRC	String centre of line
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline	
Asset Class/ADAC Element	Supplementary PolylineFeature	
Extra Comments:		
Description	Rumble Bars	
Survey Code	540	
Layer Name	PMARK RMBL	
Surveyed Location	MRC	Locate the end points of each string of rumble bars
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm

Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Pol	ylineFeature	
Extra Comments:			
Description		Dividing Line 3 m 9 m	
Survey Code	541		
Layer Name	PMARK SEP39		
Surveyed Location	MRC	String centre of line	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Pol	Supplementary PolylineFeature	
Extra Comments:			
Description		Barrier Line One Direction	
Survey Code	543	543	
Layer Name	PMARK BARR1	PMARK BARR1	
Surveyed Location	MRC	String centre of line	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary PolylineFeature		
Extra Comments:			
Description		Barrier Line Both Directions	
Survey Code	544		
Layer Name	PMARK BARR2		
Surveyed Location	MRC	String centre of line	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Pol	ylineFeature	
Extra Comments:			
Description		Edge Line	
Survey Code	545		
	PMARK EDGE		
Survey Code		String centre of line	
Survey Code Layer Name	PMARK EDGE	String centre of line N/A – not a mandatory inclusion	

	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary PolylineFeature		
Extra Comments:	Supplementary 1 org		
Description		Continuity Line	
Survey Code	546	Continuity Line	
Layer Name	PMARK CONT		
Surveyed Location	MRC	String centre of line	
Surveyed Location	ADAC 4.1	_	
	-	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	-	Polyline	
Asset Class/ADAC Element	Supplementary Poly	/lineFeature 	
Extra Comments:			
Description		Turn Line	
Survey Code	547		
Layer Name	PMARK TURN		
Surveyed Location	MRC	String centre of line	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary PolylineFeature		
Extra Comments:			
Description		Stop Line	
Survey Code	548		
Layer Name	PMARK STOP		
Surveyed Location	MRC	String centre of line	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Poly	/lineFeature	
Extra Comments:			
_		Give Way Line	
Description			
Survey Code	550		
	550 PMARK GIVE		
Survey Code		String centre of line	



Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Poly	/lineFeature	
Extra Comments:			
Description		Crosswalk Line	
Survey Code	551		
Layer Name	PMARK CROSS		
Surveyed Location	MRC	String centre of line	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Poly	/lineFeature	
Extra Comments:			
Description	Parking Line		
Survey Code	552		
Layer Name	PMARK PARK	PMARK PARK	
Surveyed Location	MRC	String centre of line	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Poly	/lineFeature	
Extra Comments:			
Description		Exit line at multilane roundabout	
Survey Code	553		
Layer Name	PMARK EXIT		
Surveyed Location	MRC	String centre of line	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Poly	/lineFeature	
Extra Comments:			
Description		Wall	
Survey Code	600		
Layer Name	WALL		
Surveyed Location	MRC	String outside edge of wall at ground level	
	1		

	T	T
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Polyline	
Asset Class/ADAC Element	Supplementary Pol	lylineFeature
Extra Comments:		
Description		Awning/Eaves
Survey Code	601	
Layer Name	AWNING	
Surveyed Location	MRC	String bottom, outside edge of awning
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	Supplementary Po	lylineFeature, Supplementary PolygonFeature
Extra Comments:		
Description	Shed	
Survey Code	602	
Layer Name	SHED	
Surveyed Location	MRC	String outside edge of structure at ground level
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	Supplementary Po	lylineFeature, Supplementary PolygonFeature
Extra Comments:		
Description		Building
Survey Code	603	
Layer Name	BUILDING	
Surveyed Location	MRC	String outside edge of structure at ground level
	ADAC 4.1	Same as MRC
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Polygon	_ 1
Asset Class/ADAC Element	OpenSpace Buildir	ng
Extra Comments:		
Description		Verandah
Survey Code	604	
Layer Name	VERANDAH	
-		

Surveyed Location	MRC	String the outside edge of verandah at the deck level	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline/Polygon		
Asset Class/ADAC Element		lineFeature, Supplementary PolygonFeature	
Extra Comments:	'' '	7 11 7 75	
Description		Steps	
Survey Code	605		
Layer Name	STEPS		
Surveyed Location	MRC	String each tread	
·	ADAC 4.1	Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the steps when they form part of a pathway	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline/Polygon		
Asset Class/ADAC Element	1 ' ' '	605 Supplementary PolylineFeature, Supplementary PolygonFeature PathStructure Transport PathStructure	
Extra Comments:			
Description		Bridge	
Survey Code	606		
Survey Code Layer Name	606 BRIDGE		
<u> </u>		String the top of the bridge structure recording changes of level i.e., string the bridge deck and the top of the bridge abutments	
Layer Name	BRIDGE	changes of level i.e., string the bridge deck and the	
Layer Name	BRIDGE MRC	changes of level i.e., string the bridge deck and the top of the bridge abutments	
Layer Name	BRIDGE MRC	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal	
Layer Name Surveyed Location	BRIDGE MRC ADAC 4.1	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the bridge	
Layer Name Surveyed Location	BRIDGE MRC ADAC 4.1 Horizontal (XY)	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the bridge ± 10 mm	
Layer Name Surveyed Location Required Survey Accuracy	BRIDGE MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Polyline/Polygon	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the bridge ± 10 mm ± 7 mm PolylineFeature, Supplementary PolygonFeature	
Layer Name Surveyed Location Required Survey Accuracy Object Type	BRIDGE MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Polyline/Polygon 606 Supplementary	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the bridge ± 10 mm ± 7 mm PolylineFeature, Supplementary PolygonFeature	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element	BRIDGE MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Polyline/Polygon 606 Supplementary	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the bridge ± 10 mm ± 7 mm PolylineFeature, Supplementary PolygonFeature	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments:	BRIDGE MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Polyline/Polygon 606 Supplementary	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the bridge ± 10 mm ± 7 mm PolylineFeature, Supplementary PolygonFeature sport PathStructure	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description	BRIDGE MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Polyline/Polygon 606 Supplementary PathStructure Trans	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the bridge ± 10 mm ± 7 mm PolylineFeature, Supplementary PolygonFeature sport PathStructure	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	BRIDGE MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Polyline/Polygon 606 Supplementary PathStructure Trans 607	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the bridge ± 10 mm ± 7 mm PolylineFeature, Supplementary PolygonFeature sport PathStructure	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	BRIDGE MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Polyline/Polygon 606 Supplementary PathStructure Tran	changes of level i.e., string the bridge deck and the top of the bridge abutments Road – N/A Footbridge - Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the bridge ± 10 mm ± 7 mm PolylineFeature, Supplementary PolygonFeature sport PathStructure Concrete Slab	

		Use where appropriate to generate a polygon in the office representing a boat ramp with the code "BoatingFacility"
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline/Polygon	
Asset Class/ADAC Element		PolylineFeature, Supplementary PolygonFeature penSpace BoatingFacility
Extra Comments:		concrete slab is higher than the surrounding ground level, DE) to string around the base of the slab
Description		Structure – Unclassified
Survey Code	610	
Layer Name	STRUCT UNC	
Surveyed Location	MRC	String around the outside of the structure
	ADAC 4.1	Pathway Structure – Using code "PathStructure" create a polyline in the office representing the longitudinal centreline of the structure if it is part of a pathway
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Polyline/Polygon	
Asset Class/ADAC Element		PolylineFeature, Supplementary PolygonFeature nsport PathStructure
Extra Comments:		
Description		Swimming Pool
Survey Code	611	
Layer Name	SWIM POOL	
Surveyed Location	MRC	String around the edge of the pool
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	Supplementary Poly	ylineFeature, Supplementary PolygonFeature
	Supplementary For	,e. eatare, eappromentary : e., germ eatare
Extra Comments:	Supplementary For	, mise salars, supplier, on any conjugation salars
Extra Comments: Description	Supplementary For	Bore/Well
	613	
Description		
Description Survey Code	613	
Description Survey Code Layer Name	613 WELL BORE	Bore/Well
Description Survey Code Layer Name	613 WELL BORE MRC	Bore/Well Locate the outside edge of the bore
Description Survey Code Layer Name Surveyed Location	613 WELL BORE MRC ADAC 4.1	Bore/Well Locate the outside edge of the bore N/A – not a mandatory inclusion



Object Type Polyline/Polygon Asset Class/ADAC Element Supplementary PolylineFeature, Supplementary PolygonFeature Extra Comments: Description Sports Arena/Field Survey Code 616 Layer Name OVAL SPORT Surveyed Location MRC String around the perimeter of the open are ADAC 4.1 Same as MRC Required Survey Accuracy Horizontal (XY) ± 100 mm Vertical (Z) ± 25 mm Object Type Polyline/Polygon	эа
Extra Comments: Description Sports Arena/Field Survey Code Layer Name OVAL SPORT Surveyed Location MRC ADAC 4.1 Same as MRC Required Survey Accuracy Horizontal (XY) Vertical (Z) Polyline/Polygon Sports Arena/Field Surveyed String around the perimeter of the open are all the sport of the open are a	эа
Description Sports Arena/Field Survey Code 616 Layer Name OVAL SPORT Surveyed Location MRC String around the perimeter of the open are ADAC 4.1 Required Survey Accuracy Horizontal (XY) ± 100 mm Vertical (Z) ± 25 mm Object Type Polyline/Polygon	эа
Survey Code 616 Layer Name OVAL SPORT Surveyed Location MRC String around the perimeter of the open are ADAC 4.1 Required Survey Accuracy Horizontal (XY) ± 100 mm Vertical (Z) ± 25 mm Object Type Polyline/Polygon	ea
Surveyed Location MRC String around the perimeter of the open are ADAC 4.1 Same as MRC Horizontal (XY) ± 100 mm Vertical (Z) ± 25 mm Object Type Polyline/Polygon	ea
ADAC 4.1 Same as MRC Required Survey Accuracy Horizontal (XY) ± 100 mm Vertical (Z) ± 25 mm Object Type Polyline/Polygon	ea
Required Survey Accuracy Horizontal (XY) ± 100 mm Vertical (Z) ± 25 mm Object Type Polyline/Polygon	
Vertical (Z) ± 25 mm Object Type Polyline/Polygon	
Object Type Polyline/Polygon	
1 11	
A 101 (ADAO 51) 0 0 1 1 1 1 1	
Asset Class/ADAC Element	
Extra Comments:	
Description Tower/Chimney	
Survey Code 618	
Layer Name CHIMNEY	
Surveyed Location MRC String around the outside of the chimney (u the base)	usually at
ADAC 4.1 N/A – not a mandatory inclusion	
Required Survey Accuracy Horizontal (XY) ± 10 mm	
Vertical (Z) ± 20 mm	
Object Type Polyline/Polygon	
Asset Class/ADAC Element Supplementary PolylineFeature, Supplementary PolygonFeature	
Extra Comments:	
Description Retaining Wall	
Survey Code 620	
Layer Name RET WALL	
Surveyed Location MRC String around the outside edge of the retain at top and bottom	ning wall
ADAC 4.1 String the outside edge of the retaining wa ground level. If the retaining wall changes its length, the highest point of the wall is at the height.	height over
Required Survey Accuracy Horizontal (XY) ± 10 mm	
Vertical (Z) ± 20 mm	
Object Type Polyline	
Asset Class/ADAC Element	
Extra Comments:	
Description Tank - General	
Survey Code 625	
Layer Name TANK ABOVE	



Surveyed Location	MRC	String around outside edge of tank
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Polyline/Polygon	
Asset Class/ADAC Element	Supplementary Poly	rlineFeature, Supplementary PolygonFeature
Extra Comments:		
Description		Floor Level
Survey Code	628	
Layer Name	FLOOR LEVE	
Surveyed Location	MRC	Locate single point at floor level
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary PointFeature	
Extra Comments:	Also used to record the floor level of manhole chambers and stormwater pits when required in addition to pipe inverts	
Description		Park – Bench Seat
Survey Code	629	
Layer Name	PARK SEAT	
Surveyed Location	MRC	String outside edge of seat - usually the top of the concrete slab upon which the seat sits
	ADAC 4.1	Using code A629, locate a single point in the centre of the (isolated) seat
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Required Accuracy for Asset	Horizontal (XY)	± 500 mm
Management Purposes		
	Vertical (Z)	N/A
Object Type	Vertical (Z) Polygon	N/A
Object Type Asset Class/ADAC Element	` ′	PolygonFeature
	Polygon 629 Supplementary	PolygonFeature
Asset Class/ADAC Element	Polygon 629 Supplementary	PolygonFeature
Asset Class/ADAC Element Extra Comments:	Polygon 629 Supplementary	PolygonFeature Seat
Asset Class/ADAC Element Extra Comments: Description	Polygon 629 Supplementary A629 OpenSpace S	PolygonFeature Seat
Asset Class/ADAC Element Extra Comments: Description Survey Code	Polygon 629 Supplementary A629 OpenSpace S	PolygonFeature Seat
Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Polygon 629 Supplementary A629 OpenSpace S 630 PARK EQUIP	PolygonFeature Seat Park – Playground Equipment
Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	Polygon 629 Supplementary A629 OpenSpace S 630 PARK EQUIP MRC	PolygonFeature Seat Park – Playground Equipment String around the outside edge of the soft fall area Same as MRC. In addition, using code A630, locate



	Vertical (Z)	± 20 mm	
Required Accuracy for Asset	Horizontal (XY)	± 500 mm	
Management Purposes	Vertical (Z)	N/A	
Object Type	Polygon	Polygon	
Asset Class/ADAC Element	630 OpenSpace Ad	ctivityArea	
	A630 OpenSpace	ActivityPoint	
Extra Comments:			
Description		Park – Table/Chairs on Slab	
Survey Code	631		
Layer Name	PARK TABLE		
Surveyed Location	MRC	String outside edge of the table and chairs – usually the top of the concrete slab when the table and chairs are sitting on an individual slab	
	ADAC 4.1	Using code A631, locate a single point in the centre of the table	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Required Accuracy for Asset	Horizontal (XY)	± 500 mm	
Management Purposes	Vertical (Z)	N/A	
Object Type	Polygon		
Asset Class/ADAC Element	631 Supplementary PolygonFeature A631 OpenSpace Table		
Extra Comments:	When multiple tables and chairs are sitting on a concrete slab with other park equipment, string the outside edge of the table and chairs and use 607 (SLAB CONC) to record the location of the single slab		
Description		Park - Barbeque	
Survey Code	632		
Layer Name	PARK BBQ		
Surveyed Location	MRC	String the outside edge of the BBQ – usually the top of the concrete slab when the BBQ is sitting on an individual slab	
	ADAC 4.1	Using code A632, locate a single point in the centre of the BBQ	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Required Accuracy for Asset	Horizontal (XY)	± 500 mm	
Management Purposes	Vertical (Z)	N/A	
Object Type	Polygon	1	
Asset Class/ADAC Element	632 Supplementary A632 OpenSpace I		
Extra Comments:		ing on a concrete slab with other park equipment, string f the BBQ and use 607 (SLAB CONC) to record the le slab	

Description	Park – Rubbish Bin	
Survey Code	633	
Layer Name	PARK RUBBI	
Surveyed Location	MRC	String the outside edge of the bin – usually the top of the concrete slab upon which the bin sits
	ADAC 4.1	Using code A633, locate a single point in the centre of the bin
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Required Accuracy for Asset	Horizontal (XY)	± 500 m
Management Purposes	Vertical (Z)	N/A
Object Type	Polygon	
Asset Class/ADAC Element	633 Supplementary PolygonFeature A633 OpenSpace WasteCollectionPoint	
Extra Comments:		
Description	Irrigation Sprinkler Head	
Survey Code	640	
Layer Name	IRR SPRINKLER	
Surveyed Location	MRC	Locate the centre of the sprinkler head
	ADAC 4.1	Same as MRC
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	WaterSupply IrrigationFitting	
Extra Comments:		
Description		Irrigation Pit
Survey Code	641	
Layer Name	IRR PIT	
Surveyed Location	MRC	Locate the centre of the pit lid
	ADAC 4.1	Same as MRC
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary Poin	tFeature
Extra Comments:		
Description		Irrigation Underground
Survey Code	645	
Layer Name	IRR UNDERG	
Surveyed Location	MRC	Locate the centreline of the pipework

	ADAC 4.1	String the centreline of the pipe; Using code A755, locate the centre of any fittings e.g., Tees and Tapping Bands	
Required Survey Accuracy	Horizontal (XY)	Quality Level A – ± 50 mm	
Refer to <i>AS5488-2013</i>		Quality Level B – ± 300 mm	
Classification of Subsurface		Quality Level C – ± 300 mm	
Utility Information		Quality Level D – Existing Record	
	Vertical (Z)	Quality Level A – ± 50 mm	
		Quality Level B – ± 500 mm	
		Quality Level C – N/A	
		Quality Level D – Existing Record	
Object Type	Polyline		
Asset Class/ADAC Element	645 WaterSupply Pipe		
	A755 WaterSupply	Fitting	
Extra Comments:			
Description	Bus Shelter		
Survey Code	650	650	
Layer Name	BUS SHELTR	BUS SHELTR	
Surveyed Location	MRC	String the outside edge of the shelter – usually the top of the concrete slab upon which the shelter sits	
	ADAC 4.1	Using code A650, locate single point in centre of bus/general shelter structure	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Required Accuracy for Asset	Horizontal (XY)	± 500 mm	
Management Purposes	Vertical (Z)	N/A	
Object Type	Polygon		
Asset Class/ADAC Element	650 Supplementary A650 OpenSpace S		
Extra Comments:			
Description		Electricity Marker	
Survey Code	706		
Layer Name	EL MARK P		
Surveyed Location	MRC	Locate the centre of the marker	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary Poi	ntFeature	
Extra Comments:			
Description		Electricity Substation on ground	
Survey Code	707		



Layer Name	EL SUBSTN	EL SUBSTN	
Surveyed Location	MRC	Locate the outside edge of the substation – usually the top of the concrete slab upon which the substation sits	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polygon		
Asset Class/ADAC Element	Supplementary Pol	ygonFeature	
Extra Comments:			
Description		Staywire	
Survey Code	708		
Layer Name	STAY		
Surveyed Location	MRC	Locate the end of the staywire where it meets the ground and string to the pole	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary Pol	ylineFeature	
Extra Comments:			
Description		Staypole	
Survey Code	709		
Layer Name	EL STAYPOL		
Layer Name Surveyed Location	EL STAYPOL MRC	Locate the centre of the pole and record the pole number as vertex text	
<u> </u>			
<u> </u>	MRC	number as vertex text	
Surveyed Location	MRC ADAC 4.1	number as vertex text N/A – not a mandatory inclusion	
Surveyed Location	MRC ADAC 4.1 Horizontal (XY)	number as vertex text N/A – not a mandatory inclusion ± 30 mm	
Surveyed Location Required Survey Accuracy	MRC ADAC 4.1 Horizontal (XY) Vertical (Z)	number as vertex text N/A – not a mandatory inclusion ± 30 mm ± 20 mm	
Surveyed Location Required Survey Accuracy Object Type	MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point	number as vertex text N/A – not a mandatory inclusion ± 30 mm ± 20 mm	
Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element	MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point	number as vertex text N/A – not a mandatory inclusion ± 30 mm ± 20 mm	
Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments:	MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point	number as vertex text N/A – not a mandatory inclusion ± 30 mm ± 20 mm ntFeature	
Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description	MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Point	number as vertex text N/A – not a mandatory inclusion ± 30 mm ± 20 mm ntFeature	
Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Point	number as vertex text N/A – not a mandatory inclusion ± 30 mm ± 20 mm ntFeature	
Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 710 EL MH STR	number as vertex text N/A – not a mandatory inclusion ± 30 mm ± 20 mm ntFeature Electricity Manhole/Box Strung	
Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 710 EL MH STR MRC	number as vertex text N/A – not a mandatory inclusion ± 30 mm ± 20 mm the ature Electricity Manhole/Box Strung String around edge of lid Using code 716, locate a single point in the centre of	



Object Type	Polygon	Polygon	
Asset Class/ADAC Element	710 Supplementary	710 Supplementary PolygonFeature	
	716 OpenSpace ElectricalFitting		
Extra Comments:			
Description	Light Pole + no.		
Survey Code	711		
Layer Name	EL PP		
Surveyed Location	MRC	Locate the centre of the pole and record the pole number as vertex text	
	ADAC 4.1	Locate the centre of the pole	
Required Survey Accuracy	Horizontal (XY)	± 30 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	OpenSpace Electri	calFitting	
Extra Comments:			
Description		Electricity Pole Only + no.	
Survey Code	712	712	
Layer Name	EL PP		
Surveyed Location	MRC	Locate the centre of the pole and record the pole number as vertex text	
	ADAC 4.1	Locate the centre of the pole	
Required Survey Accuracy	Horizontal (XY)	± 30 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point	•	
Asset Class/ADAC Element	OpenSpace Electri	calFitting	
Extra Comments:			
Description		Electricity Pole with Light + no.	
Survey Code	713		
Layer Name	EL PLP		
Surveyed Location	MRC	Locate the centre of the pole and record the pole number as vertex text	
	ADAC 4.1	Locate the centre of the pole	
Required Survey Accuracy	Horizontal (XY)	± 30 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point	-	
Asset Class/ADAC Element	OpenSpace Electri	calFitting	
Extra Comments:			
Description		Electricity Unclassified	
Survey Code	715	•	
Layer Name	EL UNC	EL UNC	



Surveyed Location	MRC	Locate the centre of the feature	
	ADAC 4.1	Same as MRC	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	OpenSpace Electri	calFitting	
Extra Comments:			
Description		Electricity Pit	
Survey Code	716		
Layer Name	EL PIT		
Surveyed Location	MRC	Locate the centre of the pit lid	
	ADAC 4.1	Same as MRC	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Point		
Asset Class/ADAC Element	OpenSpace Electri	calFitting	
Extra Comments:			
Description		Electricity Line Overhead	
Survey Code	717		
Layer Name	EL OVERHEA		
Surveyed Location	MRC	String the overhead line between poles	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Polyline	Polyline	
Asset Class/ADAC Element	Supplementary Pol	ylineFeature	
Extra Comments:	Mainly used to reco	Mainly used to record the sag of overhead lines where the line crosses a road	
Description		Electricity Line Underground	
Survey Code	718		
Layer Name	EL UNDERG		
Surveyed Location	MRC	String the centreline of the cable/conduit, record vertical surveyed location as a note e.g., paint mark on surface	
	ADAC 4.1	String the centreline of the cable/conduit	
Required Survey Accuracy Refer to AS5488-2013 Classification of Subsurface Utility Information	Horizontal (XY)	Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record	
	Vertical (Z)	Quality Level A – ± 50 mm	



		Quality Level B – ± 500 mm	
		Quality Level C – N/A	
		Quality Level D – Existing Record	
Object Type	Polyline		
Asset Class/ADAC Element	OpenSpace ElectricalConduit		
Extra Comments:			
Description		Electricity Pillar	
Survey Code	719		
Layer Name	EL PILLAR		
Surveyed Location	MRC	Locate the centre of the pillar	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	OpenSpace PointFe	ature	
Extra Comments:			
Description	Communications Manhole/Box Strung		
Survey Code	720	720	
Layer Name	COMMS MH STR		
Surveyed Location	MRC	String around edge of lid/s	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polygon		
Asset Class/ADAC Element	Supplementary Poly	Supplementary PolygonFeature	
Extra Comments:	For single (usually c	oncrete) lids, see 721 (COMMS PIT)	
Description		Communications Pit	
Survey Code	721		
Layer Name	COMMS PIT		
Surveyed Location	MRC	Locate the centre of the pit	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary Poin	tFeature	
Extra Comments:	For large multiple lid	s, see 720 (TEL MH STR)	
Description		Communications Pillar	
Survey Code	722	722	
1 A1	COMMS PILLAR		
Layer Name	COMINS FILLAR		



Surveyed Location	MRC	Locate the centre of the pillar	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary Po	intFeature	
Extra Comments:			
Description		Communications Marker	
Survey Code	723		
Layer Name	COMMS MARK P		
Surveyed Location	MRC	Locate the centre of the marker	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point	•	
Asset Class/ADAC Element	Supplementary Po	intFeature	
Extra Comments:			
Description		Communications Pole + no.	
Survey Code	724		
Layer Name	COMMS POLE		
Surveyed Location	MRC	Locate the centre of the pole and record the pole number as vertex text	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 30 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary Po	Supplementary PointFeature	
Extra Comments:			
Description			
		Communications Cabinet	
Survey Code	725	Communications Cabinet	
	725 COMMS PHONEB		
Survey Code			
Survey Code Layer Name	COMMS PHONEB	Locate the outside edge of the phone box – usually the top of the concrete slab upon which the phone	
Survey Code Layer Name	COMMS PHONEB	Locate the outside edge of the phone box – usually the top of the concrete slab upon which the phone box sits	
Survey Code Layer Name Surveyed Location	COMMS PHONEB MRC ADAC 4.1	Locate the outside edge of the phone box – usually the top of the concrete slab upon which the phone box sits N/A – not a mandatory inclusion	
Survey Code Layer Name Surveyed Location	COMMS PHONEB MRC ADAC 4.1 Horizontal (XY)	Locate the outside edge of the phone box – usually the top of the concrete slab upon which the phone box sits N/A – not a mandatory inclusion ± 10 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy	COMMS PHONEB MRC ADAC 4.1 Horizontal (XY) Vertical (Z)	Locate the outside edge of the phone box – usually the top of the concrete slab upon which the phone box sits N/A – not a mandatory inclusion ± 10 mm ± 7 mm	

Description		Communications Unclassified
Survey Code	726	
Layer Name	COMMS UNC	
Surveyed Location	MRC	Locate the centre of the feature
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary Poir	ntFeature
Extra Comments:		
Description		Communications Lines Overhead
Survey Code	727	
Layer Name	COMMS OVERHE	
Surveyed Location	MRC	String the overhead line between poles
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Polyline	
Asset Class/ADAC Element	Supplementary Poly	/lineFeature
Extra Comments:	Mainly used to record the sag of overhead lines where the line crosses a road	
2		
Description	road	ommunications Lines Underground
	road	·
Description	road	·
Description Survey Code	road C	·
Description Survey Code Layer Name	road C 728 COMMS UNDERG	ommunications Lines Underground
Description Survey Code Layer Name	road C 728 COMMS UNDERG MRC	ommunications Lines Underground String the centreline of the cable/conduit
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS5488-2013	road C 728 COMMS UNDERG MRC ADAC 4.1	Ommunications Lines Underground String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy	road C 728 COMMS UNDERG MRC ADAC 4.1	Ommunications Lines Underground String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS5488-2013 Classification of Subsurface	road C 728 COMMS UNDERG MRC ADAC 4.1 Horizontal (XY)	Ommunications Lines Underground String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS5488-2013 Classification of Subsurface	road C 728 COMMS UNDERG MRC ADAC 4.1	String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS5488-2013 Classification of Subsurface	road C 728 COMMS UNDERG MRC ADAC 4.1 Horizontal (XY)	Ommunications Lines Underground String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm Quality Level B – ± 500 mm
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS5488-2013 Classification of Subsurface	road C 728 COMMS UNDERG MRC ADAC 4.1 Horizontal (XY)	String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm Quality Level B – ± 500 mm Quality Level C – N/A
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS5488-2013 Classification of Subsurface	road C 728 COMMS UNDERG MRC ADAC 4.1 Horizontal (XY)	Ommunications Lines Underground String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm Quality Level B – ± 500 mm
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS5488-2013 Classification of Subsurface Utility Information	road C 728 COMMS UNDERG MRC ADAC 4.1 Horizontal (XY) Vertical (Z)	String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm Quality Level A – ± 50 mm Quality Level B – ± 500 mm Quality Level B – ± 500 mm Quality Level B – ± 500 mm Quality Level C – N/A Quality Level D – Existing Record
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS5488-2013 Classification of Subsurface Utility Information Object Type	road C 728 COMMS UNDERG MRC ADAC 4.1 Horizontal (XY) Vertical (Z)	String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm Quality Level A – ± 50 mm Quality Level B – ± 500 mm Quality Level B – ± 500 mm Quality Level B – ± 500 mm Quality Level C – N/A Quality Level D – Existing Record
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS5488-2013 Classification of Subsurface Utility Information Object Type Asset Class/ADAC Element	road C 728 COMMS UNDERG MRC ADAC 4.1 Horizontal (XY) Vertical (Z)	String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm Quality Level A – ± 50 mm Quality Level B – ± 500 mm Quality Level B – ± 500 mm Quality Level B – ± 500 mm Quality Level C – N/A Quality Level D – Existing Record
Description Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS5488-2013 Classification of Subsurface Utility Information Object Type Asset Class/ADAC Element Extra Comments:	road C 728 COMMS UNDERG MRC ADAC 4.1 Horizontal (XY) Vertical (Z)	String the centreline of the cable/conduit N/A – not a mandatory inclusion Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm Quality Level B – ± 500 mm Quality Level D – Existing Record

Surveyed Location MRC ADAC 4.1 N/A – not a mandatory inclusion Required Survey Accuracy Refer to AS5488-2013 Classification of Subsurface Utility Information Vertical (Z) Quality Level B – ± 300 mm Quality Level D – Existing Record Vertical (Z) Quality Level D – Existing Record Quality Level D – Existing Record Vertical (Z) Quality Level D – Existing Record Description Electricity Conduit Crown Survey Code T30 Layer Name EL CROWN Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Refer to code 718 (EL UNDERG) Required Survey Accuracy Horizontal (XY) Vertical (Z) 17 mm Object Type Asset Class/ADAC Element Extra Comments: Communications Conduit Crown Survey Code T31 Layer Name COMMS CROWN Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Refer to code 718 (EL UNDERG) Communications Conduit Crown Survey Code T31 Layer Name COMMS CROWN Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) 2.50 mm Vertical (Z) 3.7 mm Object Type Point ASset Class/ADAC Element Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) 2.50 mm Vertical (Z) 3.7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavaried. Description Optic Fibre Crown Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Refer to conduit Extra Comments: ADAC 4.1 N/A – not a mandatory inclusion Refer to conduit Extra Comments: ADAC 4.1 N/A – not a mandatory inclusion Refer to conduit Extra Comments: ADAC 4.1 N/A – not a mandatory inclus			
Required Survey Accuracy Refer to AS5488-2013 Classification of Subsurface Utility Information Vertical (2) Object Type Asset ClassiADAC Element Extra Comments: Description Surveyed Location ADAC 4.1 Asset ClassiADAC Element Supplementary PolylineFeature Electricity Conduit Crown Refer to code 718 (EL UNDERG) Asset ClassiADAC Element Supplementary PointFeature Extra Comments: Description Required Survey Accuracy Object Type Asset ClassiADAC Element Extra Comments: Description Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Refer to code 718 (EL UNDERG) Point Asset ClassiADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Communications Conduit Crown Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 Mainly used to record the location of underground services that have been vacuum excavated. Description Communications Conduit Crown Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Communications Conduit Crown Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Communications Conduit Crown Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion ADAC 4.1 N/A – not a mandatory inclusion Communications Conduit Crown Surveyed Location Point ADAC 4.1	Surveyed Location	MRC	String the centreline of the cable/conduit
Refer to AS5488-2013 Classification of Subsurface Utility Information Vertical (Z) Quality Level D = ± 300 mm Quality Level D = Existing Record Vertical (Z) Quality Level D = Existing Record Vertical (Z) Quality Level D = Existing Record Quality Level D = Existing Record Quality Level C = N/A Quality Level D = Existing Record Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code 130 Electricity Conduit Crown Surveyed Location MRC ADAC 4.1 N/A = not a mandatory inclusion Refer to code 718 (EL UNDERG) Horizontal (XY) Vertical (Z) 1 7 mm Object Type Asset Class/ADAC Element Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Paguired Survey Accuracy Horizontal (XY) Surveyed Location MRC Locate the crown of the conduit Communications Conduit Crown Communications Conduit Crown ADAC 4.1 N/A = not a mandatory inclusion Refer to code 718 (EL UNDERG) To min Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Communications Conduit Crown MRC Locate the crown of the conduit ADAC 4.1 N/A = not a mandatory inclusion Required Survey Accuracy Horizontal (XY) 2 ± 50 mm Vertical (Z) 2 † 7 mm Object Type Asset Class/ADAC Element Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Optic Fibre Crown Survey Code 132 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit		ADAC 4.1	N/A – not a mandatory inclusion
Classification of Subsurface Utility Information Cuality Level D - Existing Record	Required Survey Accuracy	Horizontal (XY)	Quality Level A – ± 50 mm
Utility Information Quality Level D – Existing Record Vertical (Z) Quality Level A = ± 50 mm Quality Level B = ± 500 mm Quality Level C - NI/A Quality Level D - Existing Record Object Type Polyline Asset Class/ADAC Element Supplementary PolylineFeature Extra Comments: Electricity Conduit Crown Survey Code 730 Layer Name EL CROWN Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 NI/A - not a mandatory inclusion Refer to code 718 (EL UNDERG) Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Communications Conduit Crown Survey Code 731 Layer Name COMMS CROWN Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 NI/A - not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) </td <td></td> <td></td> <td>Quality Level B – ± 300 mm</td>			Quality Level B – ± 300 mm
Vertical (Z)			Quality Level C – ± 300 mm
Quality Level B - ± 500 mm Quality Level C - N/A Quality Level C - N/A Quality Level C - N/A Quality Level D - Existing Record	Utility Information		Quality Level D – Existing Record
Quality Level C - N/A Quality Level D - Existing Record		Vertical (Z)	Quality Level A – ± 50 mm
Quality Level D - Existing Record			Quality Level B – ± 500 mm
Object Type			Quality Level C – N/A
Asset Class/ADAC Element Extra Comments: Description			Quality Level D – Existing Record
Extra Comments:	Object Type	Polyline	
Description Electricity Conduit Crown Survey Code 730 Layer Name EL CROWN Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Refer to code 718 (EL UNDERG) Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Communications Conduit Crown Survey Code 731 Layer Name COMMS CROWN Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description <td>Asset Class/ADAC Element</td> <td>Supplementary Polyl</td> <td>ineFeature</td>	Asset Class/ADAC Element	Supplementary Polyl	ineFeature
Survey Code 730 Layer Name EL CROWN Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Refer to code 718 (EL UNDERG) Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Communications Conduit Crown Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Optic Fibre Crown Survey Code 732 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit	Extra Comments:		
Layer Name EL CROWN Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Refer to code 718 (EL UNDERG) Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Communications Conduit Crown Survey Code 731 Layer Name COMMS CROWN Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Optic Fibre Crown Survey Code 732 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit	Description		Electricity Conduit Crown
Surveyed Location MRC ADAC 4.1 ADAC 4.1 N/A – not a mandatory inclusion Refer to code 718 (EL UNDERG) Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Asset Class/ADAC Element Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Communications Conduit Crown Survey Code 731 Layer Name COMMS CROWN Surveyed Location MRC ADAC 4.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) Vertical (Z) # 7 mm Object Type Point Asset Class/ADAC Element Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. **Description** **Description** **Description** **Description** **Description** **Description** **Description** **Description** **Optic Fibre Crown Survey Code 732 Layer Name OPT CROWN Surveyed Location of the conduit MRC Locate the crown of the conduit **Description** Optic Fibre Crown Surveyed Location MRC Locate the crown of the conduit **Description** **Optic Fibre Crown Surveyed Location MRC Locate the crown of the conduit	Survey Code	730	
ADAC 4.1 N/A – not a mandatory inclusion Refer to code 718 (EL UNDERG) Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Communications Conduit Crown Survey Code 731 Layer Name COMMS CROWN Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Optic Fibre Crown Survey Code 732 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit	Layer Name	EL CROWN	
Refer to code 718 (EL UNDERG) Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Communications Conduit Crown Survey Code 731 Layer Name COMMS CROWN Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Optic Fibre Crown Survey Code 732 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit	Surveyed Location	MRC	Locate the crown of the conduit
Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Communications Conduit Crown Survey Code 731 Layer Name COMMS CROWN Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Optic Fibre Crown Survey Code 732 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit		ADAC 4.1	N/A – not a mandatory inclusion
Vertical (Z)			Refer to code 718 (EL UNDERG)
Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Communications Conduit Crown Survey Code 731 Layer Name COMMS CROWN Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Optic Fibre Crown Survey Code 732 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit	Required Survey Accuracy	Horizontal (XY)	± 50 mm
Asset Class/ADAC Element Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Communications Conduit Crown Survey Code 731 Layer Name COMMS CROWN Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) Vertical (Z) † 7 mm Object Type Point Asset Class/ADAC Element Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Optic Fibre Crown Survey Code 732 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit		Vertical (Z)	± 7 mm
Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Communications Conduit Crown Survey Code 731 Layer Name COMMS CROWN MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Optic Fibre Crown Survey Code 732 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit	Object Type	Point	
Description Communications Conduit Crown	Asset Class/ADAC Element	Supplementary PointFeature	
Survey Code Layer Name COMMS CROWN Surveyed Location MRC Locate the crown of the conduit ADAC 4.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Optic Fibre Crown Survey Code 732 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit	Extra Comments:		d the location of underground services that have been
Layer Name COMMS CROWN Surveyed Location MRC ADAC 4.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Optic Fibre Crown Survey Code 732 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit	Description		Communications Conduit Crown
Surveyed Location MRC ADAC 4.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Optic Fibre Crown Survey Code T32 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit	Survey Code	731	
ADAC 4.1 N/A – not a mandatory inclusion Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Optic Fibre Crown Survey Code 732 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit	Layer Name	COMMS CROWN	
Required Survey Accuracy Horizontal (XY) ± 50 mm Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Optic Fibre Crown Survey Code 732 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit	Surveyed Location	MRC	Locate the crown of the conduit
Vertical (Z) ± 7 mm Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Optic Fibre Crown Survey Code 732 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit		ADAC 4.1	N/A – not a mandatory inclusion
Object Type Point Asset Class/ADAC Element Supplementary PointFeature Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Optic Fibre Crown Survey Code 732 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit	Required Survey Accuracy	Horizontal (XY)	± 50 mm
Asset Class/ADAC Element Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Optic Fibre Crown Survey Code Tag Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit		Vertical (Z)	± 7 mm
Extra Comments: Mainly used to record the location of underground services that have been vacuum excavated. Description Optic Fibre Crown Survey Code 732 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit	Object Type	Point	
Description Optic Fibre Crown Survey Code 732 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit	Asset Class/ADAC Element	Supplementary PointFeature	
Survey Code 732 Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit	Extra Comments:	•	
Layer Name OPT CROWN Surveyed Location MRC Locate the crown of the conduit	Description		Optic Fibre Crown
Surveyed Location MRC Locate the crown of the conduit	Survey Code	732	
	Layer Name	OPT CROWN	
ADAC 4.4 N/A mat a grandatam inclusion	Surveyed Location	MRC	Locate the crown of the conduit
ADAC 4.1 N/A – not a mandatory inclusion		ADAC 4.1	N/A – not a mandatory inclusion



Required Survey Accuracy	Horizontal (XY)	± 50 mm	
	Vertical (Z)	± 7 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:	Mainly used to recorvacuum excavated.	Mainly used to record the location of underground services that have been vacuum excavated.	
Description		Gas Manhole/Box Strung	
Survey Code	734		
Layer Name	GAS MH STR		
Surveyed Location	MRC	String around edge of lid	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polygon	1	
Asset Class/ADAC Element	Supplementary Poly	gonFeature	
Extra Comments:			
Description	Gas Valve		
Survey Code	735		
Layer Name	GAS VALVE		
Surveyed Location	MRC	Locate the centre of the valve	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Required Accuracy for Asset	Horizontal (XY)	± 50 mm	
Management Purposes	Vertical (Z)	± 100 mm	
Object Type	Point	1	
Asset Class/ADAC Element	Supplementary Poin	Supplementary PointFeature	
Extra Comments:			
Description		Gas Marker	
Survey Code	736	736	
Layer Name	GAS MARK P		
Surveyed Location	MRC	Locate the centre of the marker	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point	1	
Asset Class/ADAC Element	Supplementary Poin	tFeature	
Extra Comments:			
Description		Gas Unclassified	



Survey Code	737	
Layer Name	GAS UNC	
Surveyed Location	MRC	Locate the centre of the feature
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary Poin	tFeature
Extra Comments:		
Description		Gas Underground
Survey Code	738	
Layer Name	GAS UNDERG	
Surveyed Location	MRC	String the centreline of the pipe
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy Refer to AS5488-2013 Classification of Subsurface Utility Information	Horizontal (XY) Vertical (Z)	Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm
	, ,	Quality Level B – ± 500 mm Quality Level C – N/A Quality Level D – Existing Record
Object Type	Polyline	
Asset Class/ADAC Element	Supplementary PolylineFeature	
Extra Comments:		
Description		Sewer Manhole/Box Strung
Survey Code	740	
Layer Name	SEW MH STR	
Surveyed Location	MRC	String around edge of lid
	ADAC 4.1	Using code A741, locate a single point representing the centre of chamber
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Object Type	Polygon	
Asset Class/ADAC Element	740 Supplementary PolygonFeature A741 Sewerage MaintenanceHole	
Extra Comments:		
Description		Sewer Manhole
Survey Code	741	
Layer Name	SEW MH	

Surveyed Location	MRC	Single point in centre of round manhole lid	
	ADAC 4.1	Using code A741, locate a single point representing the centre of chamber	
Required Survey Accuracy	Horizontal (XY)	± 30 mm	
	Vertical (Z)	± 7 mm	
Required Accuracy for Asset	Horizontal (XY)	± 50 mm	
Management Purposes	Vertical (Z)	± 100 mm	
Object Type	Point	-	
Asset Class/ADAC Element	741 Supplementary		
Extra Comments:	the top edge of the	If part of the chamber is above the surrounding ground level, string around the top edge of the chamber using 607 (SLAB CONC) and string around the chamber at ground level using 105 (CH GRADE)	
Description		Sewer Unclassified	
Survey Code	742		
Layer Name	SEW UNC		
Surveyed Location	MRC	Locate the centre of the feature	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:			
Description		Sewer Underground	
Survey Code	743		
Layer Name	SEW UNDERG		
Surveyed Location	MRC	String the centreline of the pipe, record vertical surveyed location as a note e.g., paint mark on surface	
	ADAC 4.1	String the centreline of the pipe using code 743 for pipes and code A743 for connections breaking the polyline where there are changes in pipe size, material, class embedment, direction etc.,; Using code A742, locate the centre of any fittings	
Required Survey Accuracy Refer to AS5488-2013 Classification of Subsurface Utility Information	Horizontal (XY)	Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record	
	Vertical (Z)	Quality Level A – ± 50 mm Quality Level B – ± 500 mm Quality Level C – N/A Quality Level D – Existing Record	
Object Type	Polyline		



Asset Class/ADAC Element	743 Sewerage PipeNonPressure, Sewerage PipePressure A743 Sewerage Connection A742 Sewerage Fitting	
Extra Comments:		
Description	Sewer – Rising Main Valve	
Survey Code	744	
Layer Name	SEW VALVE	
Surveyed Location	MRC	Locate the centre of the valve lid
	ADAC 4.1	Using code A744, locate the centre of the valve body
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Required Accuracy for Asset	Horizontal (XY)	± 50 mm
Management Purposes	Vertical (Z)	± 100 mm
Object Type	Point	
Asset Class/ADAC Element	744 Supplementary PointFeature A744 Sewerage Valve	
Extra Comments:		
Description	Sewer Invert	
Survey Code	745	
Layer Name	SEW INV	
Surveyed Location	MRC	Locate invert of pipe, record diameter as vertex text
	ADAC 4.1	NA – not a mandatory inclusion Refer to code 743 (SEW UNDERG)
Required Survey Accuracy	Horizontal (XY)	± 10 mm
Required ourvey Accuracy	Vertical (Z)	± 7 mm
Object Type	Point	2711111
Asset Class/ADAC Element		intEasture
Extra Comments:	Supplementary Po	increature
Description	746	Sewer Crown
Survey Code	SEW CROWN	
Layer Name	MRC	Locate the crown of the conduit
Surveyed Location		
	ADAC 4.1	N/A – not a mandatory inclusion Refer to code 743 (SEW UNDERG)
Required Survey Accuracy	Horizontal (XY)	± 50 mm
Noquilou Guivey Accuracy	Vertical (Z)	± 7 mm
Object Type	Point	± / IIIII
Object Type		intEasture
Asset Class/ADAC Element Extra Comments:	Supplementary PointFeature Mainly used to record the location of underground services that have been vacuum excavated.	

Description		Sewer Vent Pole
Survey Code	747	
Layer Name	SEW VENT	
Surveyed Location	MRC	Locate the centre of vent pole
	ADAC 4.1	N/A – not a mandatory inclusion
Required Survey Accuracy	Horizontal (XY)	± 30 mm
	Vertical (Z)	± 20 mm
Object Type	Point	
Asset Class/ADAC Element	Supplementary Poin	tFeature
Extra Comments:		
Description		Water Manhole/Box Strung
Survey Code	750	
Layer Name	WAT MH STR	
Surveyed Location	MRC	Locate edge of the lid
	ADAC 4.1	Using code A750, locate a single point representing the centre of chamber
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 7 mm
Required Accuracy for Asset	Horizontal (XY)	± 50 mm
Management Purposes	Vertical (Z)	± 100 mm
Object Type	Polygon	
Asset Class/ADAC Element	750 Supplementary PolygonFeature	
	A750 WaterSupply MaintenanceHole	
Extra Comments:		
Description	Water Valve	
Survey Code	751	
Layer Name	WAT VALVE	
Surveyed Location	MRC	Locate the centre of the valve lid
	ADAC 4.1	Using code A751, locate the top of spindle
Required Survey Accuracy	Horizontal (XY)	± 10 mm
	Vertical (Z)	± 20 mm
Required Accuracy for Asset	Horizontal (XY)	± 50 mm
Management Purposes	Vertical (Z)	± 100 mm
Object Type	Point	
Asset Class/ADAC Element	751 Supplementary PointFeature A751 WaterSupply Valve	
Extra Comments:		
Description		Water Tap
Survey Code	752	



Layer Name	WAT TAP	WAT TAP	
Surveyed Location	MRC	Locate the centre of the tap post	
	ADAC 4.1	Same as MRC, otherwise locate centre of feature	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	WaterSupply Servi	ceFitting	
Extra Comments:	Also used to record	the location of beach showers	
Description		Fire Hydrant	
Survey Code	753		
Layer Name	WAT HYDRNT		
Surveyed Location	MRC	Locate the centre of the hydrant lid	
	ADAC 4.1	Using code A753, locate the centre of the vertical hydrant branch	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Required Accuracy for Asset	Horizontal (XY)	± 50 mm	
Management Purposes	Vertical (Z)	± 100 mm	
Object Type	Point		
Asset Class/ADAC Element	753 Supplementary PointFeature		
	A753 WaterSupply Hydrant		
Extra Comments:			
Description		Water Meter	
Survey Code	754		
Layer Name	WAT METER		
Surveyed Location	MRC	Locate centre of meter	
	ADAC 4.1	Same as MRC	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Required Accuracy for Asset	Horizontal (XY)	± 50 mm	
Management Purposes	Vertical (Z)	± 100 mm	
Object Type	Point		
Asset Class/ADAC Element	WaterSupply Meter		
Extra Comments:			
Description		Water Unclassified	
Survey Code	755		
Layer Name	WAT UNC		
Surveyed Location	MRC	Locate centre of feature	
	ADAC 4.4	N/A – not a mandatory inclusion	
	ADAC 4.1	N/A - not a manuatory inclusion	



Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point = 20 min		
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:			
Description	Water Underground		
Survey Code	756		
Layer Name	WAT UNDERG		
Surveyed Location	MRC	String the centreline of the pipe, record vertical surveyed location as a note e.g., paint mark on surface	
	ADAC 4.1	String the centreline of the pipe; Using code A755, locate the centre of any fittings e.g., Tees and Tapping Bands	
Required Survey Accuracy Refer to AS5488-2013 Classification of Subsurface Utility Information	Horizontal (XY)	Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record	
	Vertical (Z)	Quality Level A – ± 50 mm Quality Level B – ± 500 mm Quality Level C – N/A Quality Level D – Existing Record	
Object Type	Polyline		
Asset Class/ADAC Element	WaterSupply Pipe	WaterSupply Pipe	
Extra Comments:			
Description		Water – Reservoir	
Survey Code	757		
Layer Name	WAT RESERV		
Surveyed Location	MRC	String chords around the outside edge of the reservoir at ground level	
	ADAC 4.1	Locate a single point in the centre of the tank	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Required Accuracy for Asset	Horizontal (XY)	± 500 mm	
Required Accuracy for Asset Management Purposes	Horizontal (XY) Vertical (Z)	± 500 mm N/A	
	` ,		
Management Purposes	Vertical (Z) Polyline/Polygon	N/A PolylineFeature, Supplementary PolygonFeature	
Management Purposes Object Type	Vertical (Z) Polyline/Polygon 757 Supplementary	N/A PolylineFeature, Supplementary PolygonFeature	
Management Purposes Object Type Asset Class/ADAC Element	Vertical (Z) Polyline/Polygon 757 Supplementary	N/A PolylineFeature, Supplementary PolygonFeature	
Management Purposes Object Type Asset Class/ADAC Element Extra Comments:	Vertical (Z) Polyline/Polygon 757 Supplementary	N/A PolylineFeature, Supplementary PolygonFeature StorageTank	
Management Purposes Object Type Asset Class/ADAC Element Extra Comments: Description	Vertical (Z) Polyline/Polygon 757 Supplementary A757 WaterSupply	N/A PolylineFeature, Supplementary PolygonFeature StorageTank	

Surveyed Location	MRC	Locate the crown of the pipe	
,	ADAC 4.1	N/A – not a mandatory inclusion	
		Refer to code 756 (WAT UNDERG)	
Required Survey Accuracy	Horizontal (XY)	± 50 mm	
	Vertical (Z)	± 7 mm	
Object Type	Point	•	
Asset Class/ADAC Element	Supplementary Po	intFeature	
Extra Comments:	Mainly used to record the location of underground services that have been vacuum excavated.		
Description	Water Marker		
Survey Code	759	759	
Layer Name	WAT MARK P		
Surveyed Location	MRC	Locate the centre of the marker	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary Po	Supplementary PointFeature	
Extra Comments:			
Description	Water Service		
Description		Water dervice	
Survey Code	760	Water Gervice	
	760 WAT SERVICE	Water Gervice	
Survey Code		String the centreline of the domestic sized service, record vertical surveyed location as a note e.g., paint mark on surface	
Survey Code Layer Name	WAT SERVICE	String the centreline of the domestic sized service, record vertical surveyed location as a note e.g., paint	
Survey Code Layer Name	WAT SERVICE MRC	String the centreline of the domestic sized service, record vertical surveyed location as a note e.g., paint mark on surface String the centreline of the domestic sized service; Using code 752, locate the centre of any service	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS 5488.1:2019 Classification of Subsurface	WAT SERVICE MRC ADAC 5.0.1	String the centreline of the domestic sized service, record vertical surveyed location as a note e.g., paint mark on surface String the centreline of the domestic sized service; Using code 752, locate the centre of any service fittings e.g., Taps Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS 5488.1:2019 Classification of Subsurface	WAT SERVICE MRC ADAC 5.0.1 Horizontal (XY)	String the centreline of the domestic sized service, record vertical surveyed location as a note e.g., paint mark on surface String the centreline of the domestic sized service; Using code 752, locate the centre of any service fittings e.g., Taps Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm Quality Level B – ± 500 mm Quality Level B – ± 500 mm Quality Level C – N/A	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS 5488.1:2019 Classification of Subsurface Utility Information	WAT SERVICE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	String the centreline of the domestic sized service, record vertical surveyed location as a note e.g., paint mark on surface String the centreline of the domestic sized service; Using code 752, locate the centre of any service fittings e.g., Taps Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm Quality Level B – ± 500 mm Quality Level B – ± 500 mm Quality Level C – N/A	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS 5488.1:2019 Classification of Subsurface Utility Information Object Type	WAT SERVICE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	String the centreline of the domestic sized service, record vertical surveyed location as a note e.g., paint mark on surface String the centreline of the domestic sized service; Using code 752, locate the centre of any service fittings e.g., Taps Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm Quality Level B – ± 500 mm Quality Level B – ± 500 mm Quality Level C – N/A	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS 5488.1:2019 Classification of Subsurface Utility Information Object Type Asset Class/ADAC Element	WAT SERVICE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	String the centreline of the domestic sized service, record vertical surveyed location as a note e.g., paint mark on surface String the centreline of the domestic sized service; Using code 752, locate the centre of any service fittings e.g., Taps Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record Quality Level A – ± 50 mm Quality Level B – ± 500 mm Quality Level B – ± 500 mm Quality Level C – N/A	
Survey Code Layer Name Surveyed Location Required Survey Accuracy Refer to AS 5488.1:2019 Classification of Subsurface Utility Information Object Type Asset Class/ADAC Element Extra Comments:	WAT SERVICE MRC ADAC 5.0.1 Horizontal (XY) Vertical (Z)	String the centreline of the domestic sized service, record vertical surveyed location as a note e.g., paint mark on surface String the centreline of the domestic sized service; Using code 752, locate the centre of any service fittings e.g., Taps Quality Level A – ± 50 mm Quality Level B – ± 300 mm Quality Level C – ± 300 mm Quality Level D – Existing Record Quality Level B – ± 500 mm Quality Level B – ± 500 mm Quality Level D – Existing Record	

Surveyed Location	MRC	Locate the centre of the pit	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point	1	
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:			
Description	Unclassified Pole		
Survey Code	763		
Layer Name	UNCL POLE		
Surveyed Location	MRC	Locate the centre of the pole	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point	Point	
Asset Class/ADAC Element	Supplementary Po	Supplementary PointFeature	
Extra Comments:			
Description		Unclassified Utility	
Survey Code	764		
Layer Name	UNCL UTILI		
Surveyed Location	MRC	Locate the centre of the utility	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary Po	Supplementary PointFeature	
Extra Comments:			
Description		Unclassified Manhole/Box Strung	
Survey Code	765		
Layer Name	UNCL MHSTR		
Surveyed Location	MRC	String around edge of lid	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polygon		
Asset Class/ADAC Element	Supplementary Pol	ygontFeature	
Extra Comments:			
Description		Railway Line	
Survey Code	801		

Layer Name	RLY LINE		
Surveyed Location	MRC	String along top of each track	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 7 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary PolylineFeature		
Extra Comments:			
Description	Railways Boom Gate		
Survey Code	802		
Layer Name	RLY BOOMGA	RLY BOOMGA	
Surveyed Location	MRC	Locate the centre of the support post of the boom gate	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 30 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point	Point	
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:			
Description	Railways Signals Pole		
Survey Code	803		
•			
Layer Name	RLY SIGPOL		
-	RLY SIGPOL MRC	Locate the centre of the pole	
Layer Name		Locate the centre of the pole N/A – not a mandatory inclusion	
Layer Name	MRC		
Layer Name Surveyed Location	MRC ADAC 4.1	N/A – not a mandatory inclusion	
Layer Name Surveyed Location	MRC ADAC 4.1 Horizontal (XY)	N/A – not a mandatory inclusion ± 30 mm	
Layer Name Surveyed Location Required Survey Accuracy	MRC ADAC 4.1 Horizontal (XY) Vertical (Z)	N/A – not a mandatory inclusion ± 30 mm ± 20 mm	
Layer Name Surveyed Location Required Survey Accuracy Object Type	MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point	N/A – not a mandatory inclusion ± 30 mm ± 20 mm	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element	MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point	N/A – not a mandatory inclusion ± 30 mm ± 20 mm	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments:	MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point	N/A – not a mandatory inclusion ± 30 mm ± 20 mm ntFeature	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description	MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Point	N/A – not a mandatory inclusion ± 30 mm ± 20 mm ntFeature	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 804	N/A – not a mandatory inclusion ± 30 mm ± 20 mm ntFeature	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 804 RLY SIGBOX	N/A – not a mandatory inclusion ± 30 mm ± 20 mm ntFeature Railways Signal Box	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Poi 804 RLY SIGBOX MRC	N/A – not a mandatory inclusion ± 30 mm ± 20 mm ntFeature Railways Signal Box Locate the centre of the box	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Poi 804 RLY SIGBOX MRC ADAC 4.1	N/A – not a mandatory inclusion ± 30 mm ± 20 mm ntFeature Railways Signal Box Locate the centre of the box N/A – not a mandatory inclusion	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location	MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 804 RLY SIGBOX MRC ADAC 4.1 Horizontal (XY)	N/A – not a mandatory inclusion ± 30 mm ± 20 mm ntFeature Railways Signal Box Locate the centre of the box N/A – not a mandatory inclusion ± 10 mm	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name Surveyed Location Required Survey Accuracy	MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Point Supplementary Point 804 RLY SIGBOX MRC ADAC 4.1 Horizontal (XY) Vertical (Z)	N/A – not a mandatory inclusion ± 30 mm ± 20 mm ntFeature Railways Signal Box Locate the centre of the box N/A – not a mandatory inclusion ± 10 mm ± 20 mm	

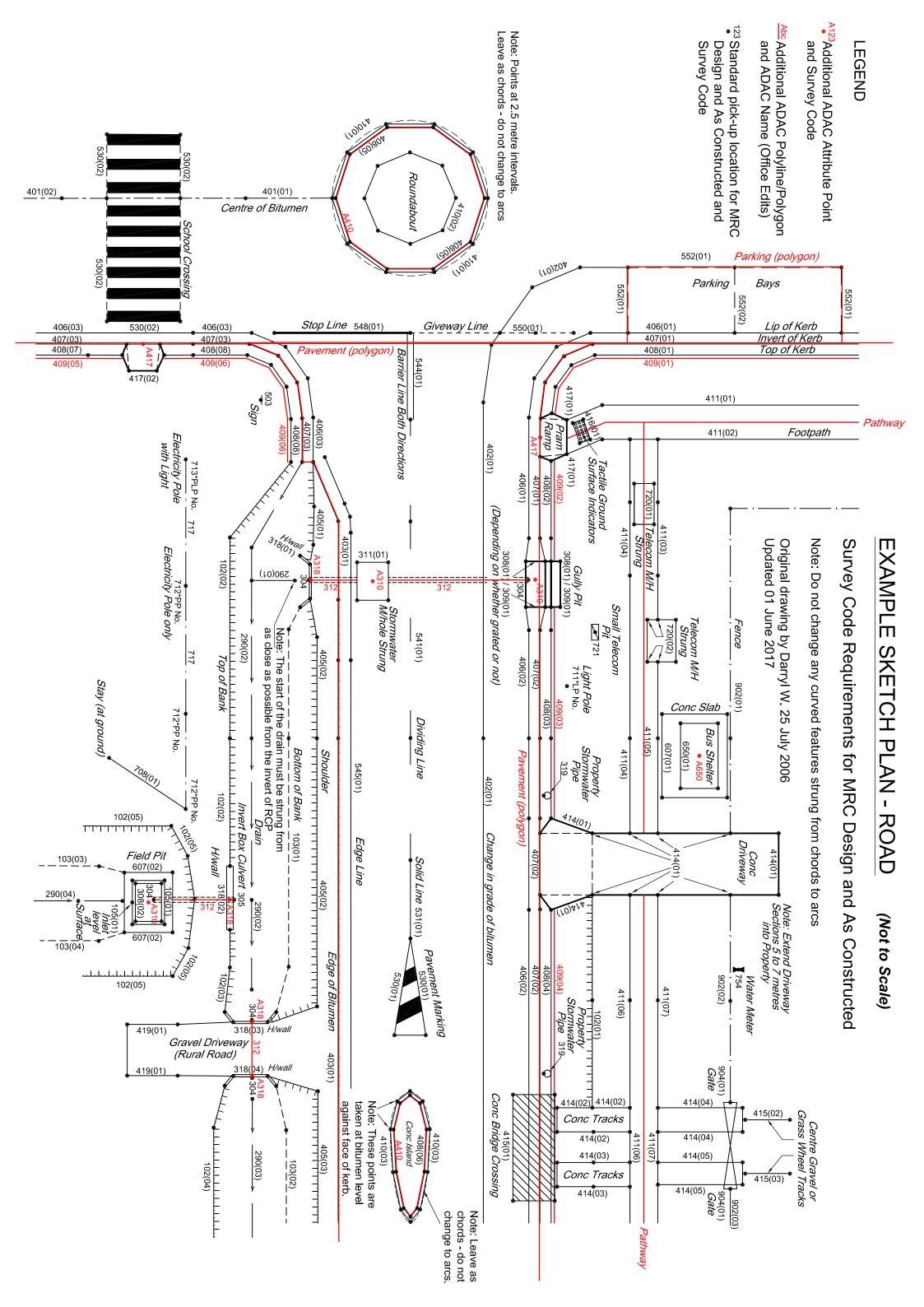
Description	Railways Switch		
Survey Code	805		
Layer Name	RLY SWITCH		
Surveyed Location	MRC	Locate the centre of the switch	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary PointFeature		
Extra Comments:			
Description	Railways Unclassified		
Survey Code	806		
Layer Name	RLY UNC		
Surveyed Location	MRC	Locate the centre of the feature	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	Supplementary Poi	ntFeature	
Extra Comments:			
Description	Cattle Grid		
		901	
Survey Code	901		
Survey Code Layer Name	901 GRID		
-		String edge of cattle grid at road level	
Layer Name	GRID	String edge of cattle grid at road level N/A – not a mandatory inclusion	
Layer Name	GRID MRC		
Layer Name Surveyed Location	GRID MRC ADAC 4.1	N/A – not a mandatory inclusion	
Layer Name Surveyed Location	GRID MRC ADAC 4.1 Horizontal (XY)	N/A – not a mandatory inclusion ± 10 mm	
Layer Name Surveyed Location Required Survey Accuracy	GRID MRC ADAC 4.1 Horizontal (XY) Vertical (Z)	N/A – not a mandatory inclusion ± 10 mm ± 7 mm	
Layer Name Surveyed Location Required Survey Accuracy Object Type	GRID MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Polygon	N/A – not a mandatory inclusion ± 10 mm ± 7 mm	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element	GRID MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Polygon	N/A – not a mandatory inclusion ± 10 mm ± 7 mm	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments:	GRID MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Polygon	N/A – not a mandatory inclusion ± 10 mm ± 7 mm ygonFeature	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description	GRID MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Polygon Supplementary Pol	N/A – not a mandatory inclusion ± 10 mm ± 7 mm ygonFeature	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code	GRID MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Polygon Supplementary Pol	N/A – not a mandatory inclusion ± 10 mm ± 7 mm ygonFeature	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	GRID MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Polygon Supplementary Pol 902 FENCE	N/A – not a mandatory inclusion ± 10 mm ± 7 mm ygonFeature Fence	
Layer Name Surveyed Location Required Survey Accuracy Object Type Asset Class/ADAC Element Extra Comments: Description Survey Code Layer Name	GRID MRC ADAC 4.1 Horizontal (XY) Vertical (Z) Polygon Supplementary Pol 902 FENCE MRC	N/A – not a mandatory inclusion ± 10 mm ± 7 mm ygonFeature Fence String along fence at ground level Same as MRC; preferably record point at each upright. Use where appropriate to generate a polygon in the office representing an open space with	



Object Type	Polyline		
Asset Class/ADAC Element	902 OpenSpace BarrierContinuous		
	OpenSpaceArea OpenSpace OpenSpaceArea		
Extra Comments:			
Description	Fence Post – Isolated		
Survey Code	903		
Layer Name	FENCE POST		
Surveyed Location	MRC	Locate the centre of the post	
	ADAC 4.1	Same as MRC	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	OpenSpace BarrierPoint		
Extra Comments:			
Description	Gate		
Survey Code	904		
Layer Name	GATE		
Surveyed Location	MRC	Locate both sides of gate opening	
	ADAC 4.1	N/A – not a mandatory inclusion	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Polyline		
Asset Class/ADAC Element	Supplementary PolylineFeature		
Extra Comments:			
Description	Bollard		
Survey Code	905		
Layer Name	BOLLARD		
Surveyed Location	MRC	Locate the centre of the bollard	
	ADAC 4.1	Same as MRC	
Required Survey Accuracy	Horizontal (XY)	± 10 mm	
	Vertical (Z)	± 20 mm	
Object Type	Point		
Asset Class/ADAC Element	OpenSpace BarrierPoint		



APPENDIX A EXAMPLE SKETCHES OF DETAIL CODES



LEGEND

A123 Additional ADAC Attribute Point and Survey Code

Abc Additional ADAC Polyline/Polygon and ADAC Name

Standard pick-up location for MRC Design and As Constructed and Survey Code

EXAMPLE SKETCH PLAN - SERVICES

(Not t

to Scale)

Note: Do not change any curved features strung from chords to arcs

Survey Code Requirements for MRC Design and As Constructed

01 June 2017

