

# Maintenance

## Master Specification

## M18 Asset Data Collection

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## Document Management

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## M18 Asset Data Collection

### 1 General

- 1.1 This Part sets out the minimum requirements for data provision for Assets that have been altered or added to the road network. The purpose of this document is to ensure that all asset data from internal and external parties is provided in a consistent format that can be entered into the Asset Management Information System to enable the performance of Asset Management functions in line with ISO 55001.

#### Guiding Principles

- 1.2 The following guiding principles apply:
- a) Collect data that is complete, accurate, up-to-date, and consistent;
  - b) Collect only the data you need;
  - c) Collect data to the lowest level of detail sufficient to make appropriate decisions;
  - d) Collect data only when it is required; and
  - e) Ensure that it is accessible to those who need it.

#### Flexibility and Innovation

- 1.3 A further principle is to allow flexibility and innovation in data collection and provision, that allows for the introduction of current and / or future alternative technologies as these develop, whilst providing the data necessary to enable the performance of Asset Management functions.
- 1.4 There is no specification for the software and / or hardware to be used but systems must have geographical information system (GIS) capability and be able to provide data in the specified format.
- 1.5 Where asset location data is provided in GPS coordinates, the GIS system is able to derive further location based data attributes, including but not limited to the following;
- a) Road Number and Name;
  - b) Road Running Distance and / or Maintenance Markers;
  - c) Council Area;
  - d) State Electorate;
  - e) SA Government Region;
  - f) Federal Electorate; and
  - g) Contract Zone Maintenance Provider.

### 2 Data Attribution

#### Asset Condition and Defects

- 2.1 Data attributes related to maintenance works, condition, or defects on assets will be provided in a form of Maintenance Defect Register (MDR). The unique identifier of each asset is required to connect assets to the MDR information.

#### Geographic Location

- 2.2 Asset classes are represented by either Point, Linear (polyline), or Area (polygon) features in the spatial environment, using geographic coordinates (i.e. latitude and longitude) in decimal degrees. Accuracy is to be to 5 decimal places. Latitude must be shown as a negative number

- 2.3 Geographic coordinates in the WGS84 Datum must be used for exchange of asset location. Contractor systems may store location data in any coordinate system, but the system must be capable of converting the data to WGS84 coordinates

## Asset Type

### For All Asset Types

- 2.4 Proposed methods for capturing locational data for point, linear, and area assets must be approved by the Superintendent to ensure that the Principal's GIS system is able to read and interpret the data. An approved method can be found in Appendix 2 – Data Interchange Format Examples.

### Point Assets

- 2.5 A point asset is a single point in geographical space

### Linear (Polyline) Assets

- 2.6 An example of a Linear Asset is a safety barrier installed on winding road. The method used to represent Linear Assets must show the true location, approximate shape, and length of the asset. A suggested method is a GPS unit that has the ability to capture track logs to capture the position, shape, and length of a linear and / or curved asset.

### Area (Polygon) Assets

- 2.7 Similar to Linear Assets but with the ability to calculate the area of the asset.

## Data Model

### Parent Child Relationship

- 2.8 Asset data must include Parent Child Relationships as provided in Appendix 1 – Data Attributes.

## Asset Identifiers

- 2.9 Two unique asset identifiers must be recorded for each asset.
- 2.10 The Principal and the Contractor will each assign their own unique identifier for each asset, and these will be recorded in the Asset Register.
- 2.11 The Dept Asset ID is generated by the Asset Management system to ensure uniqueness. The Contractor must store this identifier in their system.
- 2.12 The Contractor must assign a unique asset identifier. The Contractor's identifier must begin with the contract number "YYCNNN-xxxxxx".
- 2.13 The two asset identifiers will enable data exchange between the Principal and the Contractor. Table M18 2-1 lists the business rules that will be used to interpret the data exchanged.

**Table M18 2-1 Data Exchange Requirements**

Scenario	Data exchange requirement
Contractor creates a new asset or identifies an asset missing from the register.	The Dept Asset ID must be null (empty); Contractor ID must be supplied; The Dept Asset Management system will allocate a new ID when the data is loaded into the system and the ID will be sent back to the Contractor in the next data exchange cycle.
Contractor updates an asset record.	The Dept Asset ID must be supplied; Contractor ID must be supplied.
The Principal creates a new asset or identifies an asset missing from the register.	The Dept Asset ID must be supplied; Contractor ID must be null. The Contractor's system will allocate a new ID when the data is loaded into their system and the ID will be sent back to the Principal in the next data exchange cycle.
The Principal updates an asset record.	The Dept Asset ID must be supplied; Contractor ID must be supplied.

## Asset Condition (Current Condition)

2.14 Table M18 2-2 provides assistance in determining condition grading and performance of assets. The attribute to be captured must be New, Good, Average, Poor, or Unserviceable.

**Table M18 2-2 Asset Condition Assessment**

Code	Condition	Description
1	New	As new.
2	Good	No corrosion or other deterioration.
3	Average	Some deterioration but structural integrity satisfactory (e.g. some corrosion of steel but strength not affected).
4	Poor	Considerable deterioration so that structural integrity compromised (e.g. steel corroded to extent that strength may be affected, cracked concrete posts).
5	Unserviceable	Deteriorated to extent that structural integrity is severely affected (e.g. severely corroded rail, spalled concrete posts, deteriorated timber components).

2.15 Road asset type and condition examples can be provided by the Superintendent (example documents formerly the Road Addendum / Road Lighting Addendum).

## Asset Status

2.16 The status of Assets is defined by Table M18 2-3.

**Table M18 2-3 Asset Status Definitions**

Code	Status	Description
1	Operating	Asset in Use / Active / Connected
2	Decommissioned	Asset has been Decommissioned / Disconnected
3	Invalid	Entered in error / Not proceeded with install
4	Removed	Asset no longer exists
5	Pending	Asset number has been reserved for future install

2.17 Decommissioning or removal dates are to be added to the comments field for any decommissioned or removed asset where this data is missing.

## Responsibility

**Table M18 2-4 Responsibility**

Code	Abbreviation	Description
1	DEPT	Department for Infrastructure and Transport
2	ACC	Adelaide City Council
3	Council	Care and Control of Council
4	APY	Anangu Pitjantjatjara Yankunytjatjara Lands
6	SAPTA	South Australian Public Transport Authority
7	ARTC	Australian Rail Track Corporation
99	Other	Other Asset Owners

## 3 Data Exchange Format

### File Format

- 3.1 Data interchange files will be in CSV (comma separated) format with each Asset Class supplied as a separate file.
- 3.2 The following dot points specify the general characteristics applicable to data interchange files.
- a) The first line in an interchange file provides the names of the attributes in the sequence that their values will appear in every subsequent line of the file. Each of the rest of the lines in the file represent a separate asset occurrence and provide the values of the asset's attributes in the same sequence as the attributes in the first line of the file.
  - b) The attribute names must be spelled precisely as presented within this document, although the spelling is case insensitive. Note that attribute names contain only alpha-numeric characters with one space between words.
  - c) Every attribute name in the first line of a file must be unique.
  - d) Attributes must be in the order as determined by the attribute names in the first line of the file.
  - e) The first line must include the 'Dept Asset ID'.
  - f) Every attribute supplied with a value must conform to its specified format (alphabetic, alpha-numeric, decimal, integer, or date), which must not contain any characters other than alphabetic, numeric, "." (full stop), or spaces.
  - g) Date attributes shall be in the following format: DD/MM/YYYY
  - h) If an attribute is specified with a set of coded or domain values, then any value supplied for the attribute must be in the code or domain list.
  - i) Further for coded values, the value provided must be the appropriate code from the relevant codes table. Descriptions are not to be used.
  - j) When adding a new asset occurrence, as indicated by 'Dept Asset ID' or "Contractor ID" not being supplied:
    - i) every required identification and location attribute must be supplied with a valid value or the record will not be added;
    - ii) every detail attribute required for completeness not supplied with a valid value will be reported with an incompleteness warning.
  - k) Geographic location i.e. shape fields shall be supplied in OGC WKT format. The formal definition for this format is available on the Open GeoSpatial Consortium website (<https://www.opengeospatial.org/>). However, for the purposes of this specification, only five simple geometry formats are required viz. POINT, LINESTRING, POLYGON, MULTISTRING, and MULTIPOLYGON. Examples:
    - i) POINT
    - ii) "POINT (Longitude Latitude)"
    - iii) POLYLINE

- iv) "LINESTRING (Longitude Latitude, Longitude Latitude, Longitude Latitude)"
  - v) "MULTISTRING ((Longitude Latitude, Longitude Latitude, Longitude Latitude))"
  - vi) POLYGON
  - vii) "POLYGON ((Longitude Latitude, Longitude Latitude, Longitude Latitude))"
  - viii) "MULTIPOLYGON (((Longitude Latitude, Longitude Latitude, Longitude Latitude)))"
  - l) Shape field accuracy is to be to five (5) decimal places.
  - m) Latitude must be shown as a negative.
- 3.3 Examples of data interchange formats are included in Appendix 2 – Data Interchange Format Examples.

## Frequency

- 3.4 Data will be exchanged between DIT and the Maintenance Provider in accordance with the contract.



## 4 Appendix 1 – Data Attributes

- 4.1 The following data attributes are the minimum requirement for information in accordance with Clause 1.2 “Guiding Principles”.

### Sign Posts

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Number of Posts	Numeric(1)	Valuation, depreciation
Post Size	Coded	Valuation, depreciation
Frangible	Domain Y or N fixed selection	Safety and cost implications
Footing Type	Coded	Maintenance / AMP
Coating Type	Coded	Maintenance / AMP
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

Post Size	
Code	Description
1	Steel 80×40
2	Circular50
3	Circular80
4	Circular90
5	Circular100
6	Circular125
7	Aluminium Frangible50
8	Aluminium Frangible65
9	Aluminium Frangible80
10	Aluminium Frangible90
11	Aluminium Frangible100
12	Steel I Beam Slip Base Posts
14	Timber Posts
15	Star Dropper
17	Steel-Flex
18	Poly-flex
99	Other

Footing Type	
Code	Description
1	Direct Buried
2	Sleeved
3	Concreted
4	Bolted
99	Other

Coating Type	
Code	Description
1	Galvanized
2	Painted
3	Powder Coated
99	Other
99	Other

## Signs

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Sign Type	Coded	Valuation, depreciation
Sign Code	Alpha Numeric(15)	Type, Size, cost, value
TES Number	Alpha Numeric(15)	Type, Size, cost, value
Height (mm)	Numeric(5)	Valuation, depreciation
Width (mm)	Numeric(5)	Valuation, depreciation
Message	Alpha Numeric(255)	Clarity of purpose for all data users.
Dynamic Type	Domain	Statutory requirements
Material Type	Coded	Valuation, depreciation
Anti-Graffiti Coating	Domain Y or N fixed selection	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Date of Manufacture	Date	To validate warranty
Warranty	Numeric(2)	AM Warranty obligations
Current Condition	Coded	Valuation, depreciate
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Removal Date	Date	Valuation, depreciate
Shape	Point	Geographic location

Sign Type Code	
Code	Description
1	Regulatory
2	Warning
3	Guide
4	Hazard
5	Tourist
6	Service
7	Information
8	Directional
9	Maintenance Marker
99	Other

Dynamic Type domain
Static
CMS
VMS*
Static & Lights

Material Type code	
Code	Description
1	Aluminium
2	Polycarbonate

Note: Clearway signs are also to be entered

\*Examples of VMS:

- TRAVEL – Travel information signs
- TUNNEL – Tunnel information signs
- SPEED – Variable speed signs

## Safety Barrier

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Safety Barrier Type	Coded	Type, Valuation, depreciation
Type of Post	Domain	Valuation, depreciation
Post Spacing (m)	Numeric(3,1)	Valuation, depreciation
Length (m)	Numeric(5)	Valuation, depreciation
Spacer Blocks	Domain	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Removal Date	Date	Valuation, depreciation
Shape	Polyline	Geographic location

Safety Barrier Type Code	
Code	Description
1	Backing Rail
2	Bridge Rail
3	Concrete
4	Thrie Beam
5	Wire Rope Brifin
6	Wire Rope Sentryline
7	Wire Rope Flexfence
8	Ezy-Guard
9	W-Beam
10	Armourguard
11	BarrierGuard Gate
13	Masonry Wall
14	Aluminium RHS
15	Steel RHS
16	Steel Panel
17	Steel Pipe
18	Sentry W-Beam
19	Ezy-Guard High Containment
99	Other

Type of Post domain
Timber
Steel
Concrete
Aluminium
Other

Spacer Block domain
None
Timber
Steel
Both
Other

Note: Add "Railing" into the comments where an additional railing is installed above barrier.

### Start / End Terminal

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Terminal	Domain	Data relationship, valuation, costs
Terminal Type	Coded	Type, Valuation, depreciation
Length (m)	Numeric(3)	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

Terminal Type Code	
Code	Description
1	Melt
2	BCT
3	SKT
4	ET2000Plus
5	FLEAT
6	TREND 350
8	X-Tension
9	Fishtail
10	Energy Absorbing End Terminal

Terminal Type domain	
Code	Description
11	Driveway
12	QuadGuard
13	TRACC
14	Universal TAU-II
15	Smart Cushion
16	EAPTB Stobie Buffer
17	Treefend
18	RAPTOR
99	Other

Terminal domain
Start
End

### Motorcycle Protection

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Protection Type	Coded	Type, Valuation, depreciation
Length	Numeric(3)	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polyline	Geographic location

Protection Type domain	
Code	Description
1	Stack Cushion
2	Ingal MPR
3	HIASA SPM-ES2
99	Other

## Drainage

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Structure Type	Coded	Valuation, depreciation
Material Type	Coded	Valuation, depreciation
Number of Runs	Numeric(2)	Valuation, depreciation
Standard Culvert Dimensions	Domain	Valuation, depreciation
Non-Standard Width (mm)	Numeric(5)	Valuation, depreciation
Non-Standard Height (mm)	Numeric(5)	Valuation, depreciation
Non-Standard Diameter (mm)	Numeric(5)	Valuation, depreciation
Length (m)	Numeric(5,1)	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polyline	Geographic location

Structure Type Code	
Code	Description
1	Pipe Culvert
2	Box Culvert
4	Subsoil Drain
5	Grate
6	Lined Drain
8	Swale
9	Bioretention Swale
10	Arch
11	Wetland
12	Sedimentation Basin
13	Detention Basin
14	Floodway
15	Spoon Drain
16	Kerb & Gutter
17	Levees and Bunds
99	Other

Material Type domain	
Code	Description
1	Concrete – Precast
2	Galvanised
3	Steel (Corrugated)
4	Cast Iron
5	Other Plastic, HDPE, PVC
6	Masonry
7	Concrete – Insitu
8	Aluminium
9	Earthenware
10	Vegetated
11	Rock
99	Other

<b>Pipe Culvert Sizes domain</b>
Non-Standard
100 dia
150 dia
300 dia
375 dia
450 dia
525 dia
600 dia
675 dia
750 dia
825 dia
900 dia
1050 dia
1200 dia
1350 dia
1500 dia
1650 dia
1800 dia

<b>Box Culvert Sizes domain</b>
300×225
450×300
600×300
600×450
900×300
900×600
900×450
1200×300
1200×450
1200×600
1200×900
1200×1200
1350×450
1500×600
1500×750
1500×900
1500×1200
1500×1500
1800×450

Dimensions are internal.

For standard types (i.e. pipe culverts, box culvert, subsoil drain grate, and lined drains) closest dimension from the above domain must be selected.

Non-standard types (i.e. bridge assets, grid, swale, bioretention swale, arch, wetland, sedimentation basin, detention basin, and other), width and height or diameter must be recorded

### Inlet / Outlet / Junction

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Inlet / Outlet	Domain	Data relationship, valuation, costs
Structure Type	Coded	Valuation, depreciation
Material Type	Coded	Valuation, depreciation
Lid Type	Coded	Valuation, depreciation
Size	Coded	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

Structure Type Code	
Code	Description
1	Headwall
2	SEP
3	Grate
4	SEP / Grate Combo
5	Field Gully
6	Junction Box
7	HUMEceptor
8	Stormceptor
9	Downstream Defender
10	EcoSol RSF 4000
11	Gross Pollution Trap
12	Trash Nets
13	Driveable Endwall
14	Dual Driveable Endwall
15	Drop Structure
99	Other

Material Type Codes	
Code	Description
1	Concrete
2	Masonry
3	Rip-Rap
4	Gabion
5	Cast Iron
99	Other

Inlet / Outlet domains
Inlet
Outlet
Junction

Lid Type codes	
Code	Description
1	Standard
2	Heavy Duty
3	Super Heavy Duty
99	Other

Size Codes	
Code	Description
1	Single
2	Double
3	Triple

## Fence / Gates

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Fence Type	Coded	Valuation, depreciate
Length (m)	Numeric(3)	Valuation, depreciation
Average Height (m)	Numeric(3,1)	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Warranty (yrs)	Numeric(2)	AM Warranty obligations
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polyline	Geographic location

Fence Type Codes	
Code	Description
1	Farm or Stock
2	Chainmesh
3	Pedestrian
4	Vermin Proof
5	Concrete Panel
6	Timber Panel
8	Security fence

Fence Type Codes	
Code	Description
9	1200 Pedestrian Rail
10	600 Pedestrian Rail
11	Stock Gate
12	Pedestrian Gate
13	Security Gate
14	Motorised Security Gate
99	Other

Note: Colour code to be added to comments & Koala crossing mesh shall be recorded as "Other" with a note added to comments.

## Stack Site

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Size (m <sup>2</sup> )	Numeric(6)	Size of asset
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polygon	Geographic location

## Borrow Pits

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Size (m <sup>2</sup> )	Numeric(6)	Size of asset
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polygon	Geographic location



## Retaining Wall

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
BIS Plan Number	Alpha Numeric(10)	Data relationship
Retaining Wall Type	Coded	Valuation, depreciate
Road Located	Coded	Maintenance / AMP
Length (m)	Numeric(3)	Valuation, depreciation
Average Height (m)	Numeric(3,1)	Valuation, depreciation
Maximum Height (m)	Numeric(3,1)	Maintenance / AMP
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polyline	Geographic location

Retaining Wall Type Codes	
Code	Description
1	Concrete Block
2	Concrete Crib
3	Timber Crib
4	Gabion
6	Shotcrete
7	Stone Walling
8	Reinforced Concrete
9	Reinforced Earth – Concrete Faced
10	Reinforced Earth – Concrete Panels
11	Reinforced Earth – Gabion Faced
12	Reinforced Earth – Keystone*
13	Stone Pitched
14	Steel Post & Concrete Panel
99	Other

Road Located Codes	
Code	Description
1	At Base of Wall
2	At Top of Wall

### Rest Areas

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Rest Area Type	Coded	Valuation, depreciation
Surface Type	Coded	Valuation, depreciation
Size (m <sup>2</sup> )	Numeric(6)	Valuation, depreciation
Truck Parking	Domain Y or N fixed selection	Maintenance / AMP
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polygon	Geographic location

Rest Area Type codes	
Code	Description
1	Major Rest Area
2	Minor Rest Area
3	Truck Parking Bays
4	Truck Informal Parking

Rest Area Surface Type codes	
Code	Description
A	Asphalt
S	Spray Sealed
U	Unsealed
O	Other

Note: Add name of rest area into comments where applicable.

### Bins

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Material Type	Coded	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

Bin Material Type codes	
Code	Description
1	Plastic
2	Concrete
3	Metal
99	Other

## Table

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Material Type	Coded	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

Table Material Type codes	
Code	Description
1	Metal
2	Wood
3	Concrete
4	Recycled Plastic
99	Other

## Seats

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, depreciation
Construction Type	Coded	Valuation, depreciation
Length (m)	Numeric (3,1)	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

Construction Type codes	
Code	Description
1	Timber frame
2	Aluminium frame
3	Steel frame
99	Other

## Shelter

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Size (m <sup>2</sup> )	Numeric(6)	Valuation, depreciation
Construction Type	Coded	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

Construction Type codes	
Code	Description
1	Cantilever
2	Truss
3	Sails
4	Other

## Shed

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Area (m <sup>2</sup> )	Numeric(6)	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

## Toilet Block

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Number of toilets	Numeric(2)	Valuation, depreciation
Toilet Connection Type	Coded	Valuation, depreciation
Disable Toilet Available	Domain Y or N fixed selection	Valuation, depreciation
Size (m <sup>2</sup> )	Numeric(6)	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

Toilet Connection Type codes	
Code	Description
1	Mains Water
2	Tank Feed

## Water Tank

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Number of Tanks	Numeric(2)	Valuation, depreciation
Size (m <sup>3</sup> )	Numeric(6)	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

## Help Phone

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric	Unique identifier
Contractor ID	Alpha Numeric	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Power Supply From	Alpha Numeric(20)	Data relationship
Type	Coded	Identification / valuation
Longitude	Numeric (12,6)	Location
Latitude	Numeric (12,6)	Location
Drawing No	Alpha Numeric (8)	Asset details
Sheet No	Alpha Numeric (8)	Asset details
Comments	Alpha Numeric (255)	Maintenance / AMP
Responsibility	Coded	Energy costing implications
Communication Type	Coded	Maintenance / AMP
Commissioned	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Decommissioned	Date	Valuation, depreciation
Asset Status	Coded	Maintenance / AMP
Metered	Domain	Data relationship, valuation, costs
Power Consumption (Watts)	Numeric (8)	
Manufacture Brand	Alpha Numeric(20)	Maintenance
Manufacture Model No.	Alpha Numeric(20)	Maintenance
Manufacture Serial No.	Alpha Numeric(20)	Maintenance
COM Line – Function	Coded	
Line Service No.	Numeric (12)	
Account No.	Numeric (12)	
Call Number	Numeric (12)	
Connection Date	Numeric (12)	
IP Address	Numeric (12)	
Manual (KNet link)	Alpha Numeric (10)	Maintenance
Shape	Point	Geographic location

Type codes	
Code	Description
HLP	Help Phone
OMP	Operational and Maintenance Phone
FIRE	Fire Phone

COM line – Function codes	
Code	Description
1	None
2	ACTS
3	ACTS DIAL UP
4	ALARM
5	AQUAVIEW
6	CCTV
7	EDAC
8	VOIP
9	GSM DATA SIM
10	PABX

Communication Type codes	
Code	Description
3G	Cellular – 3G
PSTN	PSTN
PABX	PABX
FO	Fibre Optic
99	Other

Metered domains	
Value	Description
Y	Yes (metered, no solar)
N	No (unmetered, no solar)
S	Solar Unmetered

## Medians

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Median Type	Coded	Valuation, depreciation
Median Infill Type	Coded	Valuation, depreciation
Width (m)	Numeric(3,1)	Valuation, depreciation
Length (m)	Numeric(5)	Valuation, depreciation
Irrigation System	Domain Y or N fixed selection	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Council Maintained	Domain Y or N fixed selection	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polyline	Geographic location

Median Type codes	
Code	Description
3	Kerbed
4	Barrier
5	No edge

Median Infill Type codes	
Code	Description
1	Paved
2	Concrete
3	Asphalt
4	Synthetic Turf
5	Rubble
6	Grassed
7	Deciduous Trees
8	Mulched
9	Rocked Filled
10	Other Landscaping

## Pathways

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Pathway Type	Coded	Valuation, depreciation
Surface Type	Coded	Valuation, depreciation
Length (m)	Numeric(5)	Valuation, depreciation
Width (m)	Numeric(3,1)	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polyline	Geographic location

Pathway Type codes	
Code	Description
1	Pedestrian
2	Shared Use
3	Bicycle
99	Other

Pathway Surface Type codes	
Code	Description
A	Asphalt
S	Spray Sealed
U	Unsealed
P	Paved
C	Concrete
O	Other

Note: Add name of pathways into comments were applicable.

## Bollards

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Material	Coded	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

Material codes	
Code	Description
1	Steel
2	Timber
3	Concrete
4	Removable Steel

Note: Key number for removable bollards added to comments.

## Fire Hydrants

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Last Tested Date	Date	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

## Wind Socks

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Post Height (m)	Numeric (3,1)	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location



## Urban Art

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Description	Alpha Numeric(255)	Identification
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

## Arrester Bed

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Surface Type	Coded	Valuation, depreciation
Size (m <sup>2</sup> )	Numeric(6)	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polygon	Geographic location

Arrester Bed Surface Type codes	
Code	Description
1	Gravel
2	Other

## Weigh Station

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Type	Domain	Valuation, depreciation
Surface Type	Coded	Valuation, depreciation
Size (m <sup>2</sup> )	Numeric(6)	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polygon	Geographic location

Surface Type codes	
Code	Description
A	Asphalt
S	Spray Sealed
U	Unsealed
O	Other

Weigh Station Type domains
Bridge
Slab

## Park and Ride

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Surface Type	Coded	Valuation, depreciation
Park and Ride Type	Coded	Valuation, depreciation
Size (m <sup>2</sup> )	Numeric(6)	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polygon	Geographic location

Surface Type codes	
Code	Description
A	Asphalt
S	Spray Sealed
U	Unsealed
O	Other

Type codes	
Code	Description
1	Train
2	Tram
3	Bus

## Rock Slope

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Type	Coded	Valuation, depreciation
Length (m)	Numeric(6)	Valuation, depreciation
Height (m)	Numeric(3)	Valuation, depreciation
Average Angle (degrees)	Numeric(3)	Maintenance / AMP
KNet Report Number	Numeric(20)	Maintenance / AMP
Construction Date	Date	Valuation, depreciation
Assessed Risk Level (ARL)	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polyline	Geographic location

Type codes	
Code	Description
1	Rock
2	Soil
3	Rock and Soil
99	Other

Assessed Risk Level codes	
Code	Description
1	Highest Risk
2	High Risk
3	Moderate Risk
4	Low Risk
5	Lowest Risk

## Roadstrips

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Surface Type	Coded	Valuation, depreciation
Size (m <sup>2</sup> )	Numeric(6)	Valuation, depreciation
Length (m)	Numeric(6)	Valuation, depreciation
Width (m)	Numeric(3)	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polyline	Geographic location

Roadstrip Surface Type codes	
Code	Description
A	Asphalt
S	Spray Sealed
U	Unsealed
O	Other

## Bores

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Bore name	Alpha Numeric(50)	Identification
Depth (m)	Numeric(5)	Valuation, depreciation
Diameter (mm)	Numeric(4)	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

## Dam

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Dam name	Alpha Numeric(50)	Identification
Area (m <sup>2</sup> )	Numeric(6)	Valuation, depreciation
Lined	Domain Y or N fixed selection	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polygon	Geographic location

## Grid (Unsealed Network)

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Station	Alpha Numeric(50)	Identification
Type	Coded	Valuation, depreciation
Base	Coded	Valuation, depreciation
Length (m)	Numeric(3,1)	Valuation, depreciation
Width (m)	Numeric(3,1)	Valuation, depreciation
Number of Spans	Numeric(1)	Valuation, depreciation
Number of Steels	Numeric(3)	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

Type codes	
Code	Description
1	Aprilla
2	Rocla
3	Gridrite
99	Other

Base codes	
Code	Description
1	Poured Concrete
2	Culvert
99	Other

## Floodways

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Base Type	Coded	Valuation, depreciation
Length (m)	Numeric(3)	Valuation, depreciation
Width (m)	Numeric(3,1)	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

Base Type codes	
Code	Description
1	Clay
2	Concrete
3	Gravel
4	Sealed
5	Stabilised
6	Unstabilised
99	Other

## Campsites

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Campsite name	Alpha Numeric(50)	Identification
Area (m <sup>2</sup> )	Numeric(6)	Valuation, depreciation
Length (m)	Numeric(3)	Valuation, depreciation
Width (m)	Numeric(3)	Valuation, depreciation
Access Rd Sheeted	Domain Y or N fixed selection	Valuation, depreciation
Campsite Sheeted	Domain Y or N fixed selection	Valuation, depreciation
Ramp	Domain Y or N fixed selection	Valuation, depreciation
Wash Down bay	Domain Y or N fixed selection	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polygon	Geographic location

## Maintenance Turn Around

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Current Condition	Coded	Data relationship, Valuation, costs
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

## Bridge

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Structure Class	Alpha Numeric(20)	Identification
Structure Type	Alpha Numeric(20)	Identification
Structure Name	Alpha Numeric(50)	Identification
Longitude	Numeric (12,6)	Location
Latitude	Numeric (12,6)	Location
Structure Length (m)	Numeric(5,1)	Valuation, depreciation
Structure Width (m)	Numeric(4,1)	Valuation, depreciation
Max Height	Numeric(4,1)	Over-dimensional loads movement
Max Pier Height	Numeric(4,1)	Over-dimensional loads movement
Number of Spans	Numeric(2)	Maintenance / AMP
Maximum Span Length (m)	Numeric(4,1)	Heavy Load Movement
Minimum Span Length (m)	Numeric(4,1)	Heavy Load Movement
Fill Height	Numeric(4,1)	Valuation, depreciation
No of Expansion Joints	Numeric(3)	Maintenance
No of Fixed Joints	Numeric(3)	Maintenance
General Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP

## Major Culvert

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Structure Class	Alpha Numeric(20)	Identification
Structure Type	Alpha Numeric(20)	Identification
Structure Name	Alpha Numeric(50)	Identification
Longitude	Numeric (12,6)	Location
Latitude	Numeric (12,6)	Location
Structure Length (m)	Numeric(4,1)	Valuation, depreciation
Structure Width (m)	Numeric(4,1)	Valuation, depreciation
Max Pier Height	Numeric(4,1)	Over-dimensional loads movement
Number of Spans	Numeric(2)	Maintenance / AMP
Maximum Span Length (m)	Numeric(4,1)	Heavy Load Movement
Minimum Span Length (m)	Numeric(4,1)	Heavy Load Movement
Fill Height	Numeric(4,1)	Valuation, depreciation
No of Fixed Joints	Numeric(3)	Maintenance
General Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

## Busway Track

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Structure Name	Alpha Numeric(50)	Identification
Longitude	Numeric (12,6)	Location
Latitude	Numeric (12,6)	Location
Structure Length (m)	Numeric(4)	Valuation, depreciation
Structure Width (m)	Numeric(3)	Valuation, depreciation
General Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polyline	Geographic location

## Tunnel

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Structure Name	Alpha Numeric(50)	Identification
Longitude	Numeric (12,6)	Location
Latitude	Numeric (12,6)	Location
Structure Length (m)	Numeric(4)	Valuation, depreciation
Structure Width (m)	Numeric(3)	Valuation, depreciation
Number of Spans	Numeric(4)	Maintenance / AMP
Maximum Span Length (m)	Numeric(4,1)	Heavy Load Movement
General Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

## Gantry

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Structure Class	Alpha Numeric(20)	Identification
Structure Type	Alpha Numeric(20)	Identification
Structure Name	Alpha Numeric(50)	Identification
Longitude	Numeric (12,6)	Location
Latitude	Numeric (12,6)	Location
Structure Width (m)	Numeric(3)	Valuation, depreciation
Max Height	Numeric(4,1)	Over-dimensional loads movement
Number of Spans	Numeric(2)	Maintenance / AMP
Maximum Span Length (m)	Numeric(4,1)	Heavy Load Movement
Minimum Span Length (m)	Numeric(4,1)	Heavy Load Movement
Fill Height	Numeric(4,1)	Valuation, depreciation
Gantry Type	Coded	Data relationship, valuation, costs
Gantry Aspect	Alpha Numeric(20)	Data relationship, valuation, costs
Sign Type	Alpha Numeric(30)	Data relationship, valuation, identification
Portal Column to Column width (m)	Numeric(3,1)	Over-dimensional loads movement
Portal vertical clearance (on left) (m)	Numeric(3,1)	Over-dimensional loads movement
Portal vertical clearance (on right) (m)	Numeric(3,1)	Over-dimensional loads movement
Cantilever vertical clearance (m)	Numeric(3,1)	Over-dimensional loads movement
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location
Dept Asset ID	Alpha Numeric(20)	Unique identifier

Gantry Type codes	
Code	Description
1	Portal
2	Cantilever
3	Double Post (for CMS, VMS)
4	Single Post
5	Double Post
6	Single Post (for CMS, VMS)
7	Triple Post
8	Four Post
9	Mast Arm (for Traffic Signals)

Example – Corrosion protection system consists of:

- Prime: Epoxy Zinc: Jotun Barrier (DFT 75 µm)
- Intermediate: Epoxy: Jotun Penguard Express MIO (DFT 200 µm)
- Finish: Polysiloxane: Jotun Hardtop Ultra (DFT 50 µm)

## Noise Wall

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Structure Name	Alpha Numeric(50)	Identification
Longitude	Numeric (12,6)	Location
Latitude	Numeric (12,6)	Location
Structure Length (m)	Numeric(4)	Valuation, depreciation
Maximum Height (m)	Numeric(3,1)	Valuation, depreciation
General Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polyline	Geographic location

## Safety Screen

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
BIS Plan Number	Alpha Numeric(10)	Data relationship
Type	Coded	Valuation, depreciation
Length (m)	Numeric(5)	Valuation, depreciation
Maximum Height (m)	Numeric(3,1)	Valuation, depreciation
Average Height (m)	Numeric(3,1)	Valuation, depreciation
Construction Year	Numeric(2)	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Polyline	Geographic location

Type codes	
Code	Description
1	Vertical
2	Canopy

## Cattle Grid (Sealed Network)

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Longitude	Numeric (12,6)	Location
Latitude	Numeric (12,6)	Location
Number of Spans	Numeric(2)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location



## Signal Controller

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Power Supply From	Alpha Numeric(20)	Corresponds to existing decal on switchboard
Controller Type	Coded	Valuation, depreciation
Housing / Mounting	Coded	Valuation, depreciation
SCATS Modem	Coded	Valuation, depreciation
Longitude	Numeric (12,6)	Location
Latitude	Numeric (12,6)	Location
Drawing No	Alpha Numeric (8)	Asset details
Sheet No	Alpha Numeric (8)	Asset details
Comments	Alpha Numeric (255)	Maintenance / AMP
Responsibility	Coded	Energy costing implications
Commissioned	Date	Valuation, depreciation
Switched on Date	Date	Maintenance
Current Condition	Coded	Valuation, depreciation
Decommissioned	Date	Valuation, depreciation
Asset Status	Coded	Maintenance / AMP
Metered	Domain Y or N fixed selection	Data relationship, valuation, costs
Power Consumption (Watts)	Numeric (8)	
Operating Voltage	Coded	Maintenance
Manufacture Brand	Alpha Numeric(20)	Maintenance
Manufacture Model No.	Alpha Numeric(20)	Maintenance
Manufacture Serial No.	Alpha Numeric(20)	Maintenance
Manual (KNet link)	Alpha Numeric (10)	Maintenance
Software Version	Alpha Numeric(20)	Maintenance
Shape	Point	Geographic location

Controller Type codes	
Code	Description
A4	ATSC4 (Aldridge)
J	CJ 38
C	PSC-C
T	-obsolete- CT 250
G	GEC 104
A	PSC-A
1	PTFST1
4	PTFST4
V	VPC2
K	Koala Crossing Cabinet
6	ALPHA 16
P	PLC
Q	QTC3264
S	SHARED (with another site)

Controller Type codes	
Code	Description
L	PSL
E	Eclipse (Tyco)
U	ATSC4 (Aldridge) ICUPS
9	ATSC4 (Aldridge) ELV
B	Eclipse (Tyco) B
U2	ECUPS ATSC4 (Aldridge)
10	Eclipse (Tyco) ELV
U3	ECUPS ELV ATSC4 (Aldridge)
2	ATSC4 (Aldridge) B
A3	ATC
U5	ICUPS (PSC)
AI	ADD INSIGHT KOALA CROSSING
U1	ATSC4 (Aldridge) ELV ICUPS
U4	ECUPS (PSC)

Housing / Mounting codes	
Code	Description
1	Base / Ground Mounted
2	Pedestal Mounted
3	Pole Mounted
4	Gantry Mounted
5	Barrier Mounted
6	Bridge Mounted
99	Other

SCATS Modern codes	
Code	Description
PSTN	Public Switched Telephone Network
3G	Mobile
ADSL	Asymmetric Digital Subscriber Line
EW	Ethernet Wan
FB	Fibre
99	Other

Operating Voltage codes	
Code	Description
LV	Low voltage
ELV	Extra-low voltage

## Switchboard

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Switchboard No	Alpha Numeric(12)	Asset Identification
Switchboard Type	Coded	Valuation, depreciate
Longitude	Numeric (12,6)	Location
Latitude	Numeric (12,6)	Location
Drawing No	Alpha Numeric (8)	Asset details
Sheet No	Alpha Numeric (8)	Asset details
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Connected Date	Date	Valuation, depreciate
No of Phases	Coded	Maintenance / AMP
In Ground	Domain Y or N fixed selection	Valuation, location
Antenna	Domain Y or N fixed selection	Maintenance
Fog Detector	Domain Y or N fixed selection	Maintenance
Metered	Domain Y or N fixed selection	Data relationship, valuation, costs
Meter No	Alpha Numeric (12)	
NMI	Alpha Numeric (12)	Identification (National Metering Identifier)
Current Condition	Coded	Valuation, depreciate
Asset Status	Coded	Maintenance / AMP
Removal Date	Date	Valuation, depreciation
Shape	Point	Geographic location

Switchboard Type codes	
Code	Description
A3	PILLAR (GREY)
A2	PILLAR (BEIGE)
A	PILLAR (GREEN)
B	BOX (STEEL GREEN)
MS	METERED SITE
S1	STOBIE (GREY)
U	UNKNOWN
S2	STOBIE (BLACK)
IS	X – INDIVIDUAL SUPPLY (IN-GROUND)
C2	AT PDB SITE
MX	METERED SITE – (NON-LIGHTING)
C1	TOP BOX
IG	SUBMERSIBLE
SS	STAINLESS STEEL (MARINE)

No of Phases Type codes	
Code	Description
SP	Single Phase
3P	Three Phase

## Electrical Poles

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
EARLS Pole No	Alpha Numeric(12)	Corresponds to existing decal on pole
Switchboard No	Alpha Numeric(12)	Identification of Parent Asset
RITS Site ID	Alpha Numeric (8)	Corresponds to existing decal for traffic signal site
RITS Pole No	Alpha Numeric (8)	Corresponds to existing decal on traffic signal pole
Pole Type	Coded	Valuation, depreciation
Longitude	Numeric (12,6)	Location
Latitude	Numeric (12,6)	Location
Drawing No	Alpha Numeric (8)	Asset details
Sheet No	Alpha Numeric (8)	Asset details
Footing Type	Coded	Valuation, depreciation
Surrounding Surface	Coded	Maintenance contractual requirement
Height	Numeric(3,1)	Valuation, depreciation
Near Overhead Power Lines	Domain Y or N fixed selection	Safety and cost implications
Outreach Type	Coded	Valuation, depreciate.
Pole Make	Coded	Maintenance
Pole Comments	Alpha Numeric (255)	Maintenance / AMP
Responsibility	Coded	Energy costing implications
Pole Installation Date	Date	Valuation, depreciation
Pole Current Condition	Coded	Valuation, depreciation
Base Installation Date	Date	Valuation, depreciation
Base Vented	Domain Y or N fixed selection	Valuation, depreciation
Base Current Condition	Coded	Valuation, depreciation
Base Comments	Alpha Numeric (255)	Maintenance / AMP
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

Pole Type codes	
Code	Description
SB	Slip Base
NOL	No Pole (luminaire only)
MTT	Municipal Tramways Trust
OTH	Galvanised Pole (Jetty Structure)
IA	Impact Absorbing
OCT	Solid
BB	Buried Base (not laser cut)
RB	Bridge Structure
UNK	Unknown
STD	Stobie & Long Pipe non Tariff
STC	Stobie & Long Pipe
STE	Impact Absorbing (Buried Base) ETSA Type
OC1	Custom & Mast Arm (for camera)
OCT3	Solid (Hinged)
IA0	Impact Absorbing (Ornamental)
IA1	Impact Absorbing (Buried Base) DTEI Type
C1	Camera Pole 9m
C2	Camera Pole 12m
C3	Camera Pole 15m
B	Combo Signal on Pole
C	Combo Signal on Mast Arm
W	COMMS Pole
G	Gantry
I	In-Ground Light
M	Mast Arm
ITS	Other Equipment
D	Pedestal
X	Rail Crossing
CF	RLC – Camera and Flash
R	RLC – Camera
F	RLC – Flash
T1	RLC – Data Access Pole
S	Stobie
T	Stub
P	TS Pole
TB	Top Box
OER	Other

Controller Type codes	
Code	Description
SP	Single Phase
3P	Three Phase

Controller Type codes	
Code	Description
1	Hard
2	Soft / Vegetated

Outreach Type codes	
Code	Description
1	None
2	Single
3	Double
4	Quad
MUL	Multiple (Shelters etc)

Pole Make codes	
Code	Description
S	Stobie
NON	No Make (not on pole)
CUS	Custom Built
U	Unknown
ING	Ingal / EPS POLO
RIV	Riverton
MET	Metbend
JW	James Watt / Unipole
TAP	Taperline
VIC	Vicpole
MTT	Metro Tramways Trust
NA	Not Applicable
ADC	A. D. Cootes
ART	ArtCraft
JET	Custom (Jetty)
BRG	Custom (Bridge)
INT	Interpol (Tram Pole)
ALS	Allstrut
LC	Lightco

Note: Pole may have two unique identification numbers. Enter traffic signal pole number followed by luminaire number, separated with comma.

## Lantern (Traffic Signals)

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
RITS Site ID	Alpha Numeric (8)	Corresponds to existing decal for traffic signal site
Lantern Type	Coded	Valuation, depreciate.
Display Type	Coded	Valuation, depreciate.
No. of Aspects	Domain 1,2,3, fixed selection	Valuation, depreciate.
No. of Red Aspect	Domain 0,1,2,3, fixed selection	Valuation, depreciate.
No. of Yellow Aspect	Domain 0,1,2,3, fixed selection	Valuation, depreciate.
No. of Green Aspect	Domain 0,1,2,3, fixed selection	Valuation, depreciate.
No. of White Aspect	Domain 0,1,2,3, fixed selection	Valuation, depreciate.
Outreach Length	Numeric (3,1)	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Asset Status	Coded	Maintenance / AMP
Removal Date	Date	Valuation, depreciation
Shape	Point	Geographic location

Display Type codes	
Code	Description
A	ARROW
B	BUS
C	CYCLE
D	DISC
E	Emergency Vehicles
F	Arrow / Cross
G	Timer / Ped
I	Pavement (ON)
I2	Pavement (AM)
I3	Pavement (PM)
M	DISC / TRAM
P	PED
S	A / A / DISC
T	TRAM
W	D / D / ARROW
X	CROSS
A	ARROW

Lantern Type codes	
Code	Description
37	LED 10.5V Aldridge 200 mm
39	KRYPTON Aldridge 200 mm
40	KRYPTON Aldridge 300 mm
41	QUARTZ HALOGEN Aldridge 200 mm
42	QUARTZ HALOGEN Aldridge 300 mm
43	240 OTHERS 200 mm
44	240 OTHERS 300 mm
45	240 Aldridge 200 mm
46	240 SIEMENS 200 mm
47	240 Aldridge 300 mm
48	240 SIEMENS 300 mm
6	LED 10.5V Aldridge 300 mm
481	LED BRAUMS SWARCO Housing ELV 200 mm
124	LED Pavement Light
65	LED 42V ELV ATS 300 mm
66	LED 42V ELV ATS 200 mm
125	LED BRAUMS 200 mm
69	LED 9V ATS 300 mm
70	LED 9V ATS 200 mm
83	LED BRAUMS 300 mm
94	LED BRAUMS 42V ELV 200 mm
101	LED BRAUMS 42V ELV 300 mm
477	LED 240V ATS 200 mm
478	LED 240V ATS 300 mm
80	LED Dual Voltage ATS 200 mm
81	LED Dual Voltage ATS 300 mm
482	LED BRAUMS 240V 200 mm Version 1
483	LED BRAUMS 240V 300 mm Version 1

### Luminaires

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Pole Number	Alpha Numeric(20)	Data relationship, valuation, costs
Circuit Number	Alpha Numeric(20)	Data relationship, valuation, costs
Longitude	Numeric (12,6)	Location
Latitude	Numeric (12,6)	Location
Outreach Length	Numeric (3,1)	Valuation, depreciation
Phase	Coded	Valuation, depreciation
Luminaire Type	Coded	Valuation, depreciation
Make	Coded	Valuation, depreciation
Model No	Alpha Numeric(20)	Valuation, depreciation
Lens Type	Coded	Valuation, depreciation
Backshield	/	Valuation, depreciation
Controller Type	Coded	Valuation, depreciation
Connected Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Asset Status	Coded	Maintenance / AMP
Removal Date	Date	Valuation, depreciation
Shape	Point	Geographic location

Make Type Code	
Code	Description
PEC	Pecan
GEC	GEC
PHIL	Phillips
REX	Rexel
SYL	Sylvania
OSR	Osram
IBI	Rainbird
THO	Thorn
GT	GreenThinking solar
L1	Lamptech / Gigaterra
MO	Moonlighting – Cellite
LED1	Unilumin
LED2	LRL
A	Aldridge ATS
V2	Versalux
W1	WE-EF
P1	Pierlite
R1	RUUD

Lens Type Codes	
Code	Description
LEN1	Aero Screen
LEN2	Optispan Standard
LEN3	Semi Cut Off
LEN4	Type 2 (Side Throw)
LEN5	Type 3 (Forward Throw)
LEN6	Optima
LEN7	Roadster
LEN8	Boston 3

Phase Codes	
Code	Description
RED	Red
WHITE	White
BLUE	Blue

Control Type codes	
Code	Description
PE	Photo Electric Cell
SP	Shorting Plug
SC	Smart Cell
D	Direct

Luminaire Type codes	
Code	Description
CFL32	Compact Fluorescent 32W
CFL42	Compact Fluorescent 42W (Council Only)
CMT0	CMT 100W EX/U Cera lamp
CMT1	CMT 150W EX/HOR Cera lamp
CMT2	CMT 250W EX/HOR Cera lamp
D007	LED 17W Cooper Navion
D008	LED 22W Cooper Navion
D016	LED 200W Pecan LDL SAT 96M
D017	LED 44W Pecan LRL SAT 48S
D019	LED 178W Pecan SAT 96M
D040	LED 198W Aldridge ALS 162 LED
D040S	LED 198W Aldridge ALS 162 LED
D048	LED 70W Unilumen UNISTWF-0008
D049	LED 150W Unilumen UNISTAA-02-01
D051	LED 240W Unilumen UNISTAA-04-01
D057	LED 48W WE-EF ASP530 24 LED 700mA
D064	LED 46W Versalux Saturn 30P
D071	LED 24W WE-EF ASP530 12 LED 700mA
D078	LED 158W Pecan Lighting NXT-72M
D080	LED 150W Lamptech META 150
D093	LED 42W Pecan Lighting NXT36S 350
D105	LED 37W Gerard Lighting Sylvania StreetLED
D108	LED 60W Gerard Lighting Sylvania RoadLED
D108S	LED 60W Gerard Lighting Sylvania RoadLED
D109	LED 80W Gerard Lighting Sylvania RoadLED
D109S	LED 80W Gerard Lighting Sylvania RoadLED
D113	LED 175W Gerard Lighting Sylvania RoadLED
D114	LED 200W Gerard Lighting Sylvania RoadLED
D122	LED 105W Aldridge ALS 105/108
D122S	LED 105W Aldridge ALS 105/108
D123	LED 298W Aldridge ALS216/298
D125	LED 53W Pecan Lighting NXT48M 350
D135	LED 35W Pecan Lighting LRL NXT24S450
D138	LED 14W Gerard Lighting Sylvania StreetLED
D138S	LED 14W Gerard Lighting Sylvania StreetLED
D170	LED 17W Gerard Lighting Modular
D224	LED 187W Gerard Astro 1787 Floodlight
D225	LED 60W Gerard RoadLED Midi
D225S	LED 60W Gerard RoadLED Midi
D226	LED 80W Gerard RoadLED Midi
D226S	LED 80W Gerard RoadLED Midi

Luminaire Type codes	
Code	Description
D228	LED 120W Gerard RoadLED Midi
D230	LED 150W Gerard RoadLED Midi
D230S	-LED 150W Gerard RoadLED Midi
D242	LED 80W Gerard RoadLED Midi
D243	LED 150 Gerard RoadLED Midi
D244	LED 7.5W Green Frog Stealth
F20	FLUORESCENT 20W
F2X20	FLUORESCENT 2x20W
F2X40	FLUORESCENT 2x40W
F40	FLUORESCENT 40W
F4X40	FLUORESCENT 4x40W
L135	SODIUM 135W LP
L18	SODIUM 18W LP
L26	SODIUM 26W LP
L55	SODIUM 55W LP
L90	SODIUM 90W LP
LP	Long Pipe
M100	MERCURY 100W
M125	MERCURY 125W
M250	MERCURY 250W
M400	MERCURY 400W
M400F	MERCURY 400W FLOOD
M50	MERCURY 50W
M80	MERCURY 80W
MH	DI CROIC 35W 12V
MH100	Metal Halide 100W (Metered Sites ONLY)
MH150	Metal Halide 150W Floodlight type "FC"
MH70	Metal Halide 70W Uplight
NAV	Navigation Light (on Bridge)
NICE	Decorative Non-Road Light
ROPE	Decorative Rope Light
S100	SODIUM 100W HP
S150	SODIUM 150W HP
S250	SODIUM 250W HP
S400	SODIUM 400W HP
S400F	SODIUM 400W HP FLOOD
S50	SODIUM 50W HP
S70	SODIUM 70W HP
SOLAR	Solar Light - No Tariff
UNKN	UNKNOWN

## Push Buttons

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Type	Coded	Valuation, depreciation
Power Consumption (Watts)	Numeric (8)	
Operating Voltage	Coded	Maintenance
Manufacture Brand	Alpha Numeric(20)	Maintenance
Manufacture Model No.	Alpha Numeric(20)	Maintenance
Manufacture Serial No.	Alpha Numeric(20)	Maintenance
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Asset Status	Coded	Maintenance / AMP
Removal Date	Date	Valuation, depreciation
Shape	Point	Geographic location

Button Type codes	
Code	Description
1	AudioTactile Push Button
2	Cyclist Push Button
3	Push Button
99	Other

Operating Voltage Code	
Code	Description
LV	Low voltage
ELV	Extra-low voltage



## Camera

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Power Supply From	Alpha Numeric(20)	Corresponds to existing decal on switchboard
Type	Coded	Valuation, depreciation
Longitude	Numeric (12,6)	Location
Latitude	Numeric (12,6)	Location
Drawing No	Alpha Numeric (8)	Asset details
Sheet No	Alpha Numeric (8)	Asset details
Comments	Alpha Numeric (255)	Maintenance / AMP
Responsibility	Coded	Energy costing implications
Commissioned	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Decommissioned	Date	Valuation, depreciation
Asset Status	Coded	Maintenance / AMP
Metered	Domain Y or N fixed selection	Data relationship, valuation, costs
Power Consumption (Watts)	Numeric (8)	
Manufacture Brand	Alpha Numeric(20)	Maintenance
Manufacture Model No.	Alpha Numeric(20)	Maintenance
Manufacture Serial No.	Alpha Numeric(20)	Maintenance
Manual (KNet link)	Alpha Numeric (10)	Maintenance
Shape	Point	Geographic location

Type codes	
Code	Description
PTZ	Pan Tilt Zoom (CAM)
FIX	Fixed (CAM)
VID	Video Incident Detention (CAM)
TID	Thermal Incident Detection (CAM)
RSC	Red Light Speed
STC	Safe-T-Cam
PPC	Point to Point
99	Other

## ITS Cabinet

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Power Supply From	Alpha Numeric(20)	Corresponds to existing decal on switchboard
Type	Coded	Valuation, depreciation
Longitude	Numeric (12,6)	Location
Latitude	Numeric (12,6)	Location
Drawing No	Alpha Numeric (8)	Asset details
Sheet No	Alpha Numeric (8)	Asset details
Comments	Alpha Numeric (255)	Maintenance / AMP
Responsibility	Coded	Energy costing implications
Commissioned	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Decommissioned	Date	Valuation, depreciation
Asset Status	Coded	Maintenance / AMP
Metered	Domain Y or N fixed selection	Data relationship, valuation, costs
Power Consumption (Watts)	Numeric (8)	
Manufacture Brand	Alpha Numeric(20)	Maintenance
Manufacture Model No.	Alpha Numeric(20)	Maintenance
Manufacture Serial No.	Alpha Numeric(20)	Maintenance
Manual (KNet link)	Alpha Numeric (10)	Maintenance
Shape	Point	Geographic location

Cabinet Configuration codes	
Code	Description
1	Single Door
2	Double Door
99	Other

## Power Distribution Board

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Switchboard ID	Alpha Numeric(20)	Identification, data relationship
Type	Coded	Valuation, depreciation
Longitude	Numeric (12,6)	Location
Latitude	Numeric (12,6)	Location
Drawing No	Alpha Numeric (8)	Asset details
Sheet No	Alpha Numeric (8)	Asset details
Comments	Alpha Numeric (255)	Maintenance / AMP
Responsibility	Coded	Energy costing implications
Commissioned	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Decommissioned	Date	Valuation, depreciation
Asset Status	Coded	Maintenance / AMP
Metered	Domain Y or N fixed selection	Data relationship, valuation, costs
Meter No	Alpha Numeric (12)	
NMI	Alpha Numeric (12)	Identification (National Metering Identifier)
Power Consumption (Watts)	Numeric (8)	
Manufacture Brand	Alpha Numeric(20)	Maintenance
Manufacture Model No.	Alpha Numeric(20)	Maintenance
Manufacture Serial No.	Alpha Numeric(20)	Maintenance
Manual (KNet link)	Alpha Numeric (10)	Maintenance
Shape	Point	Geographic location

Type codes	
Code	Description
1	Metered Type A
2	Metered Double Door
3	Meter / Unmetered Switchboard
99	Other

## Uninterruptable Power Supply

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Type	Coded	Valuation, depreciation
Longitude	Numeric (12,6)	Location
Latitude	Numeric (12,6)	Location
Drawing No	Alpha Numeric (8)	Asset details
Sheet No	Alpha Numeric (8)	Asset details
Comments	Alpha Numeric (255)	Maintenance / AMP
Responsibility	Coded	Energy costing implications
Commissioned	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Decommissioned	Date	Valuation, depreciation
Asset Status	Coded	Maintenance / AMP
Metered	Domain Y or N fixed selection	Data relationship, valuation, costs
Power Consumption (Watts)	Numeric (8)	
Manufacture Brand	Alpha Numeric(20)	Maintenance
Manufacture Model No.	Alpha Numeric(20)	Maintenance
Manufacture Serial No.	Alpha Numeric(20)	Maintenance
Manual (KNet link)	Alpha Numeric (10)	Maintenance
Shape	Point	Geographic location

Type codes	
Code	Description
1	ECUPS
2	ICUPS
99	Other

## Detectors

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Power Supply From	Alpha Numeric(20)	Data relationship
Type	Coded	Identification / valuation
Height (m) (for OHD)	Numeric(3,1)	Valuation, depreciation
Longitude	Numeric (12,6)	Location
Latitude	Numeric (12,6)	Location
Drawing No	Alpha Numeric (8)	Asset details
Sheet No	Alpha Numeric (8)	Asset details
Comments	Alpha Numeric (255)	Maintenance / AMP
Responsibility	Coded	Energy costing implications
Commissioned	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Decommissioned	Date	Valuation, depreciation
Asset Status	Coded	Maintenance / AMP
Metered	Domain Y or N fixed selection	Data relationship, valuation, costs
Power Consumption (Watts)	Numeric (8)	
Manufacture Brand	Alpha Numeric(20)	Maintenance
Manufacture Model No.	Alpha Numeric(20)	Maintenance
Manufacture Serial No.	Alpha Numeric(20)	Maintenance
Manual (KNet link)	Alpha Numeric (10)	Maintenance
Shape	Point	Geographic location

Type codes	
Code	Description
ABD	Arrester Bed Detector
AFD	Automatic Fire Detector
ANPR	Automatic Number Plate Recognition
AQD	Air Quality Detector
OHD	Over Height Detector
TLD	TIRTL Detectors
UAVD	Unauthorised Vehicle Detection
VSD	Vehicle Detection System
WED	Weather Detector
A	Advance
B	Bike
C	Count
P	Plus
Q	Queue
S	Stop Bar
T	Tram or Train
U	Bus
M	Microwave

## Pump

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Must have unique ID to enter into our system
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Power Supply From	Alpha Numeric(8)	Corresponds to existing decal on switchboard
Type	Coded	Valuation, depreciation
Longitude	Numeric(12,6)	Location
Latitude	Numeric(12,6)	Location
Drawing No	Alpha Numeric(8)	Asset details
Sheet No	Alpha Numeric(8)	Asset details
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Commissioned	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Decommissioned	Date	Valuation, depreciation
Asset Status	Coded	Maintenance / AMP
Metered	Domain Y or N fixed selection	Data relationship, valuation, costs
Meter No	Alpha Numeric(12)	
NMI	Alpha Numeric(12)	Identification (National Metering Identifier)
Number of Pumps	Numeric(4)	
Dual Power Supply	Domain Y or N fixed selection	
Power Consumption (Watts)	Numeric(8)	
Manufacture Brand	Alpha Numeric(20)	Maintenance
Manufacture Model No.	Alpha Numeric(20)	Maintenance
Manufacture Serial No.	Alpha Numeric(20)	Maintenance
Manual (KNet link)	Alpha Numeric(10)	Maintenance
Shape	Point	Geographic location

Pump Type codes	
Code	Description
1	Pump

## Jet Fan

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Power Supply From	Alpha Numeric(20)	Corresponds to existing decal on switchboard
Longitude	Numeric(12,6)	Location
Latitude	Numeric(12,6)	Location
Drawing No	Alpha Numeric(8)	Asset details
Sheet No	Alpha Numeric(8)	Asset details
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Energy costing implications
Commissioned	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Decommissioned	Date	Valuation, depreciation
Asset Status	Coded	Maintenance / AMP
Metered	Domain Y or N fixed selection	Data relationship, valuation, costs
Power Consumption (Watts)	Numeric(8)	
Manufacture Brand	Alpha Numeric(20)	Maintenance
Manufacture Model No.	Alpha Numeric(20)	Maintenance
Manufacture Serial No.	Alpha Numeric(20)	Maintenance
Manual (KNet link)	Alpha Numeric(10)	Maintenance
Shape	Point	Geographic location

## Generators

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Fuel Capacity (Litres)	Numeric(5)	Valuation, depreciation
Longitude	Numeric(12,6)	Location
Latitude	Numeric(12,6)	Location
Drawing No	Alpha Numeric(8)	Asset details
Sheet No	Alpha Numeric(8)	Asset details
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Energy costing implications
Commissioned	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Decommissioned	Date	Valuation, depreciation
Asset Status	Coded	Maintenance / AMP
Metered	Domain Y or N fixed selection	Data relationship, valuation, costs
Power Consumption (Watts)	Numeric(8)	
Manufacture Brand	Alpha Numeric(20)	Maintenance
Manufacture Model No.	Alpha Numeric(20)	Maintenance
Manufacture Serial No.	Alpha Numeric(20)	Maintenance
Manual (KNet link)	Alpha Numeric(10)	Maintenance
Shape	Point	Geographic location

## Boom Barrier, Pedestrian Gate, Security Door

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Power Supply From	Alpha Numeric(20)	Corresponds to existing decal on switchboard
Type	Coded	Asset details
Length (m)	Numeric(3,1)	Valuation, depreciation
Longitude	Numeric(12,6)	Location
Latitude	Numeric(12,6)	Location
Drawing No	Alpha Numeric(8)	Asset details
Sheet No	Alpha Numeric(8)	Asset details
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Energy costing implications
Commissioned	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Decommissioned	Date	Valuation, depreciation
Asset Status	Coded	Maintenance / AMP
Metered	Domain Y or N fixed selection	Data relationship, valuation, costs
Power Consumption (Watts)	Numeric(8)	
Manufacture Brand	Alpha Numeric(20)	Maintenance
Manufacture Model No.	Alpha Numeric(20)	Maintenance
Manufacture Serial No.	Alpha Numeric(20)	Maintenance
Manual (KNet link)	Alpha Numeric(10)	Maintenance
Shape	Point	Geographic location

Type codes	
Code	Description
BB	Boom Barrier
PG	Pedestrian Gate
SD	Security Door



## Electronic Signs

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique ID allocated by DIT
Contractor ID	Alpha Numeric(20)	Must have unique ID to enter into our system
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Power Supply From	Alpha Numeric(20)	Corresponds to existing decal on switchboard
Type	Coded	Identification / valuation
Longitude	Numeric(12,6)	Location
Latitude	Numeric(12,6)	Location
Drawing No	Alpha Numeric(8)	Asset details
Sheet No	Alpha Numeric(8)	Asset details
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Energy costing implications
Commissioned	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Decommissioned	Date	Valuation, depreciation
Asset Status	Coded	Maintenance / AMP
Metered	Domain	Data relationship, valuation, costs
Power Consumption (Watts)	Numeric(8)	
Manufacture Brand	Alpha Numeric(20)	Maintenance
Manufacture Model No.	Alpha Numeric(20)	Maintenance
Manufacture Serial No.	Alpha Numeric(20)	Maintenance
Manual (KNet link)	Alpha Numeric(10)	Maintenance
Shape	Point	Geographic location

Button Type codes	
Code	Description
ARC	Arrow / Cross
AWS	Advance Warning Sign
CMS	Changeable Message Sign
EB	Bus Excepted
EC	Expressway Closed
FFS	Fatality Free Day Sign
FSS	Flashing Speed Sign
GWTP	Give Way to Pedestrians
LUMS	Lane Use Management Signs
LUM	Lane Use Signs
MEL	Merge Left
NLT	No Left Turn
NOE	No Entry
NRT	No Right Turn
NUT	No U-Turn
RC1	Motorway Ramp Control
RCS	ITS Component of Outback Road Condition Sign
TIS	Travel Information Sign
TLWC	Turn Left With Care
TRWC	Turn Right With Care
TSS	Tunnel Status Sign (O-Bahn)
VMS	Variable Message Sign
VSS	Variable Speed Limit Sign

Metered domain	
Value	Description
Y	Yes (metered, no solar)
N	No (unmetered, no solar)
S	Solar Unmetered

## Bluetooth Data Collection Station

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique ID allocated by system
Contractor ID	Alpha Numeric(20)	Must have unique ID to enter into our system
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Power Supply From	Alpha Numeric(20)	Corresponds to existing decal on switchboard
Type	Coded	Identification / valuation
Longitude	Numeric(12,6)	Location
Latitude	Numeric(12,6)	Location
Drawing No	Alpha Numeric(8)	Asset details
Sheet No	Alpha Numeric(8)	Asset details
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Energy costing implications
Commissioned	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Decommissioned	Date	Valuation, depreciation
Asset Status	Coded	Maintenance / AMP
Metered	Domain	Data relationship, valuation, costs
Mounting Details	Alpha Numeric(20)	Asset details – e.g. Top of Cabinet, Inside Cabinet
Power Consumption (Watts)	Numeric(8)	
Manufacture Brand	Alpha Numeric(20)	Maintenance
Manufacture Model No.	Alpha Numeric(20)	Maintenance
Manufacture Serial No.	Alpha Numeric(20)	Maintenance
Manual (KNet link)	Alpha Numeric(10)	Maintenance
Shape	Point	Geographic location

Button Type codes	
Code	Description
1	Bluetooth

Operating Voltage codes	
Code	Description
Y	Yes (metered, no solar)
N	No (unmetered, no solar)
S	Solar Unmetered

## Pavement Lighting

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric (20)	Unique ID allocated by system
Contractor ID	Alpha Numeric(20)	Must have unique ID to enter into our system
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Power Supply From	Alpha Numeric(20)	Corresponds to existing decal on switchboard
Type	Coded	Identification / valuation
No. of Lights	Numeric(3)	Identification / valuation
Longitude	Numeric(12,6)	Location
Latitude	Numeric(12,6)	Location
Drawing No	Alpha Numeric(8)	Asset details
Sheet No	Alpha Numeric(8)	Asset details
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Energy costing implications
Commissioned	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Decommissioned	Date	Valuation, depreciation
Asset Status	Coded	Maintenance / AMP
Metered	Domain Y or N fixed selection	Data relationship, valuation, costs
Power Consumption (Watts)	Numeric(8)	
Manufacture Brand	Alpha Numeric(20)	Maintenance
Manufacture Model No.	Alpha Numeric(20)	Maintenance
Manufacture Serial No.	Alpha Numeric(20)	Maintenance
Manual (KNet link)	Alpha Numeric(10)	Maintenance
Shape	Polyline	Geographic location

Pavement Lighting Type codes	
Code	Description
1	Pavement

## Electrical Pits

Attribute	Format	Why it is required and where it will be used
Dept Asset ID	Alpha Numeric(20)	Unique identifier
Contractor ID	Alpha Numeric(20)	Unique identifier
Parent	Alpha Numeric(20)	Data relationship, valuation, costs
Pit Purpose	Coded	Data relationship, valuation, costs
Pit Material Type	Coded	Valuation, depreciation
Lid Material Type	Coded	Valuation, depreciation
Lid Type	Coded	Maintenance / AMP
Manufacture Brand	Alpha Numeric(20)	Maintenance
Manufacture Model No.	Alpha Numeric(20)	Maintenance
Pit Size	Coded	Valuation, depreciation
Installation Date	Date	Valuation, depreciation
Current Condition	Coded	Valuation, depreciation
Comments	Alpha Numeric(255)	Maintenance / AMP
Responsibility	Coded	Asset Ownership
Asset Status	Coded	Maintenance / AMP
Shape	Point	Geographic location

Pit Purpose codes	
Code	Description
1	Detector
2	Traffic Signal
3	Road Lighting
4	ITS Communication
5	ITS Electrical

Pit Size codes	
Code	Description
1	P1
2	P2
3	P3
4	P4
5	P5
6	P6
7	P7

Material Type codes	
Code	Description
1	Concrete
2	Metal
3	Asbestos
4	Plastic
5	Composite Fibre
99	Other

Lid Type codes	
Code	Description
1	Non-secure
2	Secure
3	Lockable

## Other Assets Types

A preliminary list of other assets that maybe added to this Specification in a future revision are:

- Pavement Marking: as per traffic layout drawings;
- Medians: Butterfly, interchange arrangements, roundabouts, kerb ramps;
- Geotechnical: rock netting, soil nails, etc.; and / or
- ITS: Monitoring systems, underground cabling.

## 5 Appendix 2 – Data Interchange Format Examples

5.1 GIS (Shape) information to be provided as per Clauses 2.2-2.3 “Geographic Location” in a format approved by the Superintendent

**Table M18 5-1 Sign Posts – Asset Data Detail**

Dept Asset ID	Contractor ID	Number of Posts	Post Size	Frangible	Footing Type	Coating Type	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Shape
SP-1254	YYCNNN-XXXXXX	1	3	N	2	1	17/10/2016	4		1	1	Point

**Table M18 5-2 Signs – Asset Data Detail**

Dept Asset ID	Contractor ID	Parent	Sign Type	Sign Code	TES Number	Height (mm)	Width (mm)	Message	Dynamic Type	Material Type	Anti-Graffiti Coating
SI-2324	YYCNNN-XXXXXX	SP-1254	3	R1-1A	16838	1000	2000	WEEROONA ISLAND	Static	1	N

  

Installation Date	Date of Manufacture	Warranty	Current Condition	Comments	Responsibility	Asset Status	Removal Date	Shape
30/10/2006	17/10/2006	5	4		1	1	17/10/2019	Point

**Table M18 5-3 Safety Barrier – Asset Data Detail**

Dept Asset ID	Contractor ID	Safety Barrier Type	Type of Post	Post Spacing (m)	Length (m)	Spacer Blocks	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Removal Date	Shape
SB-9861	YYCNNN-XXXXXX	9	Steel	4	50	Steel	20/01/2010	2		1	1	17/10/2019	Polyline

**Table M18 5-4 Start \ End Terminal – Asset Data Detail**

Dept Asset ID	Contractor ID	Parent	Terminal	Terminal Type	Length (m)	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Shape
SB-TE-5645	YYCNNN-XXXXXX	SB-9861	Start	1	16	20/01/2005	4		1	1	Point
SB-TE-5646	YYCNNN-XXXXXX	SB-9861	End	1	16	20/01/2005	3		1	1	Point

Table M18 5-5 Motor Cycle Protection – Asset Data Detail

Dept Asset ID	Contractor ID	Parent	Protection Type	Length	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Shape
SB-MC-5647	YYCNNN-XXXXXX	SB-9861	1	20	20/01/2009	3		1	1	Polyline

Table M18 5-6 Drainage

Dept Asset ID	Contractor ID	Structure Type	Material Type	Number of Runs	Standard Culvert Dimensions	Non-Standard Width (mm)	Non-Standard Height (mm)	Non-Standard Diameter (mm)
DR-1098	YYCNNN-XXXXXX	1	1	1	300 x 225	1700	1000	2200

Length (m)	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Shape
15	20/10/1990	2		1	1	Polyline

Table M18 5-7 Inlet / Outlet / Junction

Dept Asset ID	Contractor ID	Parent	Inlet / Outlet	Structure Type	Material Type	Lid Type	Size	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Shape
DR-IO-1100	YYCNNN-XXXXXX	DR-1098	Inlet	2	1	1	2	20/10/1990	3		1	1	Point
DR-IO-8565	YYCNNN-XXXXXX	DR-1098	Outlet	1	3			20/10/1990	3		1	1	Point

Table M18 5-8 Fence / Gates

Dept Asset ID	Contractor ID	Parent	Fence Type	Length (m)	Average Height (m)	Installation Date	Warranty (yrs)	Current Condition	Comments	Responsibility	Asset Status	Shape
FE-7586	YYCNNN-XXXXXX	RA-8490	2	50	2.1	25/08/1975	Unknown	4		1	1	Polyline

Table M18 5-9 Stack Site

Dept Asset ID	Contractor ID	Size (m <sup>2</sup> )	Comments	Responsibility	Asset Status	Shape
ST-6572	YYCNNN-XXXXXX	100		1	1	Polygon

Table M18 5-10 Borrow Pits

Dept Asset ID	Contractor ID	Size (m <sup>2</sup> )	Comments	Responsibility	Asset Status	Shape
BP-6572	YYCNNN-XXXXXX	100		1	1	Polygon

Table M18 5-11 Retaining Walls

Dept Asset ID	Contractor ID	BIS Plan Number	Retaining Wall Type	Road Located	Length (m)	Average Height (m)	Maximum Height (m)	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Shape
RW-3576	YYCNNN-XXXXXX	2014021	4	1	50	2.0	4	14/06/2016	1		1	1	Polyline

Table M18 5-12 Rest Areas

Dept Asset ID	Contractor ID	Rest Area Type	Surface Type	Size (m <sup>2</sup> )	Truck Parking	Current Condition	Comments	Responsibility	Asset Status	Shape
RA-8490	YYCNNN-XXXXXX	1	A	200	Y	3		1	1	Polygon

Table M18 5-13 Bins

Dept Asset ID	Contractor ID	Parent	Material Type	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Shape
RA-BI-1930	YYCNNN-XXXXXX	RA-BI-8490	2	15/03/2006	3		1	1	Point

Table M18 5-14 Table

Dept Asset ID	Contractor ID	Parent	Material Type	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Shape
RA-TA-2001	YYCNNN-XXXXXX	RA-TA-8490	4	26/08/2005	3		1	1	Point

Table M18 5-15 Seat

Dept Asset ID	Contractor ID	Parent	Construction Type	Length	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Shape
RA-SE-8946	YYCNNN-XXXXXX	RA-SE-8490	1	5	01/08/2006	2		1	1	Point

Table M18 5-16 Shelter

Dept Asset ID	Contractor ID	Parent	Size (m <sup>2</sup> )	Construction Type	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Shape
RA-SH-5983	YYCNNN-xxxxxx	RA-SH-8490	9	1	01/07/2003	3		1	1	Point

Table M18 5-17 Shed

Dept Asset ID	Contractor ID	Parent	Area (m <sup>2</sup> )	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Shape
RA-SD-4568	YYCNNN-xxxxxx	RA-SD-5648	50	01/08/2005	4		1	1	Point

Table M18 5-18 Toilet Block

Dept Asset ID	Contractor ID	Parent	Number of Toilets	Toilet Connection Type	Disable Toilet Available	Size (m <sup>2</sup> )	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Shape
RA-TB-4127	YYCNNN-xxxxxx	RA-TB-8490	2	1	Y	9	06/11/2001	2		1	1	Point

Table M18 5-19 Water Tank

Dept Asset ID	Contractor ID	Parent	Number of Tanks	Size (m <sup>3</sup> )	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Shape
RA-WT-7347	YYCNNN-xxxxxx	RA-WT-8490	2	2000	01/08/2006	2		1	1	Point

Table M18 5-20 Help Phone

Dept Asset ID	Contractor ID	Parent	Power Supply From	Type	Longitude	Latitude	Drawing No	Sheet No	Comments	Responsibility
HLP-6918	YYCNNN-xxxxxx	TS-123	ITS-3452	HLP	138.60268	-34.92439	5938	41		1

Communication Type	Commissioned	Current Condition	Decommissioned	Asset Status	Metered	Power Consumption (W)	Manufacture Brand	Manufacture Model No	Manufacture Serial No
2	01/08/2006	2		1	N	100			

COM Line - Function	Line Service No	Account No	Call Number	Connection Date	IP Address	Manual (KNet link)	Shape
2						#1234567	Point



Table M18 5-21 Medians

Dept Asset ID	Contractor ID	Median Type	Median Infill Type	Width (m)	Length (m)	Irrigation System	Installation Date	Council Maintained	Current Condition	Comments	Responsibility	Asset Status	Shape
ME-8998	YYCNNN-XXXXXX	3	1	2	9	Y	17/03/2014	N	4		1	1	Polyline

Table M18 5-22 Pathways

Dept Asset ID	Contractor ID	Pathway Type	Surface Type	Length (m)	Width (m)	Current Condition	Installation Date	Comments	Responsibility	Asset Status	Shape
PW-4861	YYCNNN-XXXXXX	1	P	100	2.5	2	6/04/16		1	1	Polyline

Table M18 5-23 Bollards

Dept Asset ID	Contractor ID	Material	Removable	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Shape
BL-1657	YYCNNN-XXXXXX	1	Y	30/02/2018	1		1	1	Point

Table M18 5-24 Fire Hydrants

Dept Asset ID	Contractor ID	Last Tested Date	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Shape
WI-8998	YYCNNN-XXXXXX	17/03/2017	17/03/2014	2		1	1	Point

Table M18 5-25 Wind Socks

Dept Asset ID	Contractor ID	Post Height	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Shape
WI-8998	YYCNNN-XXXXXX	5.5	17/03/2014	2		1	1	Point

Table M18 5-26 Urban Art

Dept Asset ID	Contractor ID	Description	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Shape
UA-8965	YYCNNN-XXXXXX	Snake Wall	23/09/2014	2		1	1	Point

Table M18 5-27 Arrester Bed

Dept Asset ID	Contractor ID	Surface Type	Size (m <sup>2</sup> )	Current Condition	Comments	Responsibility	Asset Status	Shape
AB-1547	YYCNNN-XXXXXX	1	500	3		1	1	Polygon

Table M18 5-28 Weigh Station

Dept Asset ID	Contractor ID	Type	Surface Type	Size (m <sup>2</sup> )	Current Condition	Comments	Responsibility	Asset Status	Shape
WS-3716	YYCNNN-XXXXXX	Bridge	A	300	2		1	1	Polygon

Table M18 5-29 Park and Ride

Dept Asset ID	Contractor ID	Surface Type	Park and Ride Type	Size (m <sup>2</sup> )	Current Condition	Comments	Responsibility	Asset Status	Shape
PR-8999	YYCNNN-XXXXXX	A	2	1000	2		6	1	Polygon

Table M18 5-30 Rock Slopes

Dept Asset ID	Contractor ID	Type	Length (m)	Height (m)	Average Angle (degrees)	KNet Report Number	Construction Date	Assessed Risk Level (ARL)	Comments	Responsibility	Asset Status	Shape
PR-8999	YYCNNN-XXXXXX	1	200	20	30	1234524	01/08/1985	3		1	1	Polygon

Table M18 5-31 Roadstrips

Dept Asset ID	Contractor ID	Surface Type	Size (m <sup>2</sup> )	Length (m)	Width (m)	Current Condition	Comments	Responsibility	Asset Status	Shape
RS-8999	YYCNNN-XXXXXX	A	2000	200	10	2		1	1	Polyline

Table M18 5-32 Bores

Dept Asset ID	Contractor ID	Bore Name	Depth (m)	Diameter (mm)	Current Condition	Comments	Responsibility	Asset Status	Shape
BO-8249	YYCNNN-XXXXXX	Nunns 3	100	150	2		1	1	Point

Table M18 5-33 Dam

Dept Asset ID	Contractor ID	Dam Name	Area (m <sup>2</sup> )	Lined	Current Condition	Comments	Responsibility	Asset Status	Shape
DA-8954	YYCNNN-XXXXXX	Johns	100	Y	2		1	1	Polygon

Table M18 5-34 Grids (Unsealed Network)

Dept Asset ID	Contractor ID	Station	Type	Base	Length (m)	Width (m)	Number of Spans	Number of Steels	Current Condition	Comments	Responsibility	Asset Status	Shape
GR-8249	YYCNNN-XXXXXX	Anna Creek	1	2	2.5	10.2	2	5	3		1	1	Point

Table M18 5-35 Floodways

Dept Asset ID	Contractor ID	Base Type	Length (m)	Width (m)	Current Condition	Comments	Responsibility	Asset Status	Shape
FW-1257	YYCNNN-XXXXXX	2	140	10.2	3		1	1	Point

Table 5-36 Campsites

Dept Asset ID	Contractor ID	Campsite Name	Area (m <sup>2</sup> )	Length (m)	Width (m)	Access Rd Sheeted	Campsite Sheeted	Ramp	Wash Down Bay	Current Condition	Comments	Responsibility	Asset Status	Shape
CS-5487	YYCNNN-XXXXXX	Carrots	100	200	15	Y	Y	N	N	4		1	1	Polygon

Table M18 5-37 Maintenance Turn Arouds

Dept Asset ID	Contractor ID	Current Condition	Comments	Responsibility	Asset Status	Shape
MT-5765	YYCNNN-XXXXXX	1		1	1	Point

Table M18 5-38 Bridge

Dept Asset ID	Contractor ID	Structure Class	Structure Type	Structure Name	Longitude	Latitude	Structure Length (m)	Structure Width (m)	Max Height	Max Pier Height
PN-1229	YYCNNN-XXXXXX	Bridge	Arch	Carr's Bridge	138.60268	-34.92439	42.3	9.8	12.3	12.1

Number of Spans	Max Span Length (m)	Min Span Length (m)	Fill Height	No of Expansion Joints	No of Fixed Joints	General Comments	Responsibility	Asset Status	Shape
4	16.5	14.1		3	2		1	1	Point

Table M18 5-39 Major Culvert

Dept Asset ID	Contractor ID	Structure Class	Structure Type	Structure Name	Longitude	Latitude	Structure Length (m)	Structure Width (m)	Max Pier Height
PN-874	YYCNNN-xxxxxx	Culvert	Culvert		138.60268	-34.92439	17.5	3.4	3.1
Number of Spans	Max Span Length (m)	Min Span Length (m)	Fill Height	No of Fixed Joints	General Comments	Responsibility	Asset Status	Shape	
2	4.2	3.4	2.5	1		1	1	Point	

Table M18 5-40 Busway Track

Dept Asset ID	Contractor ID	Structure Name	Longitude	Latitude	Structure Length (m)	Structure Width (m)	Comments	Responsibility	Asset Status	Shape
PN-2579	YYCNNN-xxxxxx	NE Busway	138.60268	-34.92439	3410	17		1	1	Polyline

Table M18 5-41 Tunnel

Dept Asset ID	Contractor ID	Structure Name	Longitude	Latitude	Structure Length (m)	Structure Width (m)	No of Spans	Max Span Length (m)	General Comments	Responsibility	Asset Status	Shape
PN-3460	YYCNNN-xxxxxx	Heysen Tunnel	138.60268	-34.92439	512	18	2	4.2		1	1	Polyline

Table M18 5-42 Gantry

Dept Asset ID	Contractor ID	Structure Class	Structure Type	Structure Name	Longitude	Latitude	Structure Width (m)	Max Height	Number of Spans	Max Span Length (m)	Min Span Length (m)	Fill Height
PN-50157241	YYCNNN-xxxxxx	Gantry	Portal		138.60268	-34.92439	30	4.8	2	16.5	14	
Gantry Type	Gantry Aspect	Sign Type	Portal Column to Column Width (m)	Portal Vertical Clearance (on left) (m)	Portal Vertical Clearance (on right) (m)	Cantilever Vertical Clearance (m)	General Comments	Responsibility	Asset Status	Shape		
1	Single Sided	Static	3	2	2	2		1	1	Point		

Table M18 5-43 Noise Wall

Dept Asset ID	Contractor ID	Structure Name	Longitude	Latitude	Length (m)	Maximum Height (m)	General Comments	Responsibility	Asset Status	Shape
PN-46380001	YYCNNN-xxxxxx		138.60268	-34.92439	20	3		1	1	Polyline

Table M18 5-44 Safety Screen

Dept Asset ID	Contractor ID	BIS Plan Number	Type	Length (m)	Maximum Height (m)	Average Height (m)	Construction Year	Current Condition	Comments	Responsibility	Asset Status	Shape
SS-1576	YYCNNN-XXXXXX	5124	2	20	3	3	01/08/2012	2		1	1	Polyline

Table M18 5-45 Cattle Grids (Sealed Network)

Dept Asset ID	Contractor ID	Longitude	Latitude	Number of Spans	Responsibility	Asset Status	Shape
PN-9765	YYCNNN-XXXXXX	138.60268	-34.92439	1	1	1	Point

Table M18 5-46 Signal Controller

Dept Asset ID	Contractor ID	Parent	Power Supply From	Controller Type	Housing / Mounting	SCATS Modem	Longitude	Latitude	Drawing No	Sheet No	Comments
SC-1856	YYCNNN-XXXXXX	ITS-84315	PDB-135	C	3	(3G)	138.60268	-34.92439	5938	41	

Responsibility	Switched on Date	Current Condition	Decommissioned	Asset Status	Metered	Power Consumption (W)	Manufacture Brand	Manufacture Model No	Manufacture Serial No
1	17/12/2004	2		1	Y	100			

Manual (KNet link)	Software Version	Shape
#1234567		Point

Table M18 5-47 Switchboard

Dept Asset ID	Contractor ID	Switchboard No	Switchboard Type	Longitude	Latitude	Drawing No	Sheet No	Comments	Responsibility	Connected Date
SW-87641	YYCNNN-XXXXXX	2415	A	138.60268	-34.92439	5938	41		1	17/12/1994

No of Phases	In Ground	Antenna	Fog Detector	Metered	Meter No	NMI	Current Condition	Asset Status	Removal Date	Shape
3P	N	N	Y	Y	3009689	20022981041	3	1		Point

Table M18 5-48 Electrical Poles

Dept Asset ID	Contractor ID	EARLS Pole No	Switchboard No	RITS Site ID	RITS Pole No	Pole Type	Longitude	Latitude	Drawing No	Sheet No
TS-159-4	YYCNNN-xxxxxx	28026	2415	TS-159	4	SB	138.60268	-34.92439	5938	41
Footing Type	Surrounding Surface	Height	Near Overhead Power Lines	Outreach Type	Pole Make	Pole Comments	Responsibility			
2	1	5.5	N	3	TAP		1			
Pole Installation Date	Pole Current Condition	Base Installation Date	Base Vented	Base Current Condition	Base Comments	Asset Status	Shape			
28/02/1992	2	28/02/1992	N	4		1	Point			

Table M18 5-49 Lanterns (Traffic Signal)

Dept Asset ID	Contractor ID	Parent	RITS Site ID	Lantern Type	Display Type	No. of Aspects	No. of Red Aspects	No. of Yellow Aspects	No. of Green Aspects	No. of White Aspects
PC-012-2-LT-1	YYCNNN-xxxxxx	PC-012-2	PC-012	70	D	3	1	1	1	0
Outreach Length	Installation Date	Current Condition	Comments	Asset Status	Removal Date	Shape				
4.5	13/09/1997	5		1		Point				

Table M18 5-50 Luminaires

Dept Asset ID	Contractor ID	Pole Number	Circuit Number	Longitude	Latitude	Outreach Length	Phase	Luminaire Type	Make	Model No	Lens Type
LU-51654	YYCNNN-xxxxxx	EP-45611	2	138.60268	-34.92439	4.5	WHITE	D124	PEC	NXT12C	LEN1
Backshield	Controller Type	Connected Date	Current Condition	Comments	Asset Status	Removal Date	Shape				
N	D	12/6/2017	1		1	12/6/2019	Point				

Table M18 5-51 Push Button

Dept Asset ID	Contractor ID	Parent	Type	Power Consumption (W)	Operating Voltage	Manufacture Brand	Manufacture Model No	Manufacture Serial No
PC-275-1-PB-1	YYCNNN-xxxxxx	PC-275-1	3	10	LV			
Installation Date	Current Condition	Comments	Asset Status	Removal Date	Shape			
20/07/2015	1		1	12/6/2019	Point			

Table M18 5-52 Camera

Dept Asset ID	Contractor ID	Parent	Power Supply From	Type	Longitude	Latitude	Drawing No	Sheet No	Comments	Responsibility
CAM-5156	YYCNNN-XXXXXX	EP-45611	PDB-135	PTZ	138.60268	-34.92439	5938	41		1
Commissioned	Current Condition	Decommissioned	Asset Status	Metered	Power Consumption (W)	Manufacture Brand	Manufacture Model No	Manufacture Serial No	Manual (KNet link)	Shape
17/12/2004	2		1	Y	100				#1234567	Point

Table M18 5-53 ITS Cabinet

Dept Asset ID	Contractor ID	Parent	Power Supply From	Longitude	Latitude	Drawing No	Sheet No	Comments	Responsibility	Cabinet Configuration
ITS-1573	YYCNNN-XXXXXX	EP-4511	PDB-1381	138.60268	-34.92439	5938	41		1	1
Commissioned	Current Condition	Decommissioned	Asset Status	Manufacture Brand	Manufacture Model No	Manufacture Serial No	RITS Site ID	Shape		
17/12/2004	4		1				TS-158	Point		

Table M18 5-54 Power Distribution Board

Dept Asset ID	Contractor ID	Parent	Switchboard Id	Type	Longitude	Latitude	Drawing No	Sheet No	Comments
PDB-3217	YYCNNN-XXXXXX	ITS-1573	SW-87641	1	138.60268	-34.92439	5938	41	
Responsibility	Commissioned	Current Condition	Decommissioned	Asset Status	Metered	Meter No	NMI	Power Consumption (W)	
1	17/12/2004	2		1	Y	3009689	20022981041	100	
Manufacture Brand	Manufacture Model No	Manufacture Serial No	Manual (KNet link)	Shape					
			#1234567	Point					

Table M18 5-55 Uninterruptable Power Supply

Dept Asset ID	Contractor ID	Parent	Type	Longitude	Latitude	Drawing No	Sheet No	Comments	Responsibility	
UPS-1553	YYCNNN-XXXXXX	ITS-45611	1	138.60268	-34.92439	5938	41		1	
Commissioned	Current Condition	Decommissioned	Asset Status	Metered	Power Consumption (W)	Manufacture Brand	Manufacture Model No	Manufacture Serial No	Manual (KNet link)	Shape
17/12/2004	3		1	Y	100				#1234567	Point

Table M18 5-56 Detectors

Dept Asset ID	Contractor ID	Parent	Type	Longitude	Latitude	Drawing No	Sheet No	Comments	Responsibility	
OHD-7169	YYCNNN-xxxxxx	BD-2576	OHD	138.60268	-34.92439	5938	41		1	
Commissioned	Current Condition	Decommissioned	Asset Status	Metered	Power Consumption (W)	Manufacture Brand	Manufacture Model No	Manufacture Serial No	Manual (KNet link)	Shape
17/12/2004	3		1	N	100				#1234567	Point

Table M18 5-57 Pump

Dept Asset ID	Contractor ID	Parent	Power Supply From	Type	Longitude	Latitude	Drawing No	Sheet No	Comments	Responsibility
PU-41165	YYCNNN-xxxxxx	BD-2576	PDB-1381	1	138.60268	-34.92439	5938	41		1
Commissioned	Current Condition	Decommissioned	Asset Status	Metered	Meter No	NMI	No of Pumps	Dual Power Supply	Power Consumption (W)	
17/12/2004	3		1	N	3009689	20022981041	2	Y	100	
Manufacture Brand	Manufacture Model No	Manufacture Serial No	Manual (KNet link)	Shape						
			#1234567	Point						

Table M18 5-58 Jet Fan

Dept Asset ID	Contractor ID	Parent	Power Supply From	Longitude	Latitude	Drawing No	Sheet No	Comments	Responsibility	
JTF-13846	YYCNNN-xxxxxx	TU-2576	PDB-3817	138.60268	-34.92439	5938	41		1	
Commissioned	Current Condition	Decommissioned	Asset Status	Metered	Power Consumption (W)	Manufacture Brand	Manufacture Model No	Manufacture Serial No	Manual (KNet link)	Shape
17/12/2004	2		1	Y	1000				#1234567	Point

Table M18 5-59 Generators

Dept Asset ID	Contractor ID	Power Supply From	Fuel Capacity (L)	Longitude	Latitude	Drawing No	Sheet No	Comments	Responsibility	
GEN-52107	YYCNNN-xxxxxx	ITS-7845	120	138.60268	-34.92439	5938	41		1	
Commissioned	Current Condition	Decommissioned	Asset Status	Metered	Power Consumption (W)	Manufacture Brand	Manufacture Model No	Manufacture Serial No	Manual (KNet link)	Shape
17/12/2004	2		1	Y	1000				#1234567	Point



Table M18 5-60 Boom Barrier, Pedestrian Gate, Security Door

Dept Asset ID	Contractor ID	Parent	Power Supply From	Type	Length (m)	Longitude	Latitude	Drawing No	Sheet No	Comments	Responsibility
BB-15586	YYCNNN-xxxxxx	TU-2576	PDB-3817	BB	5.2	138.60268	-34.92439	5938	41		1
Commissioned	Current Condition	Decommissioned	Asset Status	Metered	Power Consumption (W)	Manufacture Brand	Manufacture Model No	Manufacture Serial No	Manual (KNet link)	Shape	
17/12/2004	2		1	Y	1000				#1234567	Point	

Table M18 5-61 Electronic Signs

Dept Asset ID	Contractor ID	Parent	Power Supply From	Type	Longitude	Latitude	Drawing No	Sheet No	Comments	Responsibility
CMS-1596	YYCNNN-xxxxxx	EP-276	PDB-317	CMS	138.60268	-34.92439	5938	41		1
Commissioned	Current Condition	Decommissioned	Asset Status	Metered	Power Consumption (W)	Manufacture Brand	Manufacture Model No	Manufacture Serial No	Manual (KNet link)	Shape
17/12/2004	2		1	Y	100				#1234567	Point

Table M18 5-62 Bluetooth Data Collection Station

Dept Asset ID	Contractor ID	Parent	Power Supply From	Type	Longitude	Latitude	Drawing No	Sheet No	Comments	Responsibility	
BT-96	YYCNNN-xxxxxx	ITS-276	PDB-317	1	138.60268	-34.92439	5938	41		1	
Commissioned	Current Condition	Decommissioned	Asset Status	Metered	Mounting Details	Power Consumption (W)	Manufacture Brand	Manufacture Model No	Manufacture Serial No	Manual (KNet link)	Shape
17/12/2004	2		1	Y	Top of Cabinet	100				#1234567	Point

Table M18 5-63 Pavement Lighting

Dept Asset ID	Contractor ID	Parent	Power Supply From	Type	No of Lights	Longitude	Latitude	Drawing No	Sheet No	Comments	Responsibility
PAL-154	YYCNNN-xxxxxx	EP-2716	PDB-327	1	24	138.60268	-34.92439	5938	41		1
Commissioned	Current Condition	Decommissioned	Asset Status	Metered	Power Consumption (W)	Manufacture Brand	Manufacture Model No	Manufacture Serial No	Manual (KNet link)	Shape	
17/12/2004	2		1	Y	100				#1234567	Point	

Table M18 5-64 Electrical Pits

Dept Asset ID	Contractor ID	Parent	Pit Purpose	Pit Material Type	Lid Material Type	Lid Type	Manufacture Brand	Manufacture Model No
PT-7161	YCNNN-xxxxxx	ABD-4511	1	1	2	2		
Pit Size	Installation Date	Current Condition	Comments	Responsibility	Asset Status	Shape		
2	05/09/2012	3		1	1	Point		

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