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## **2.10 STORMWATER DRAINAGE**

### **2.10.1 Layout**

Stormwater drainage layout plans are generally required to show the following information:

1. Legend.
2. Road reserve boundaries and road identification.
3. Allotment boundaries with proposed lot number.
4. Location of stormwater and roofwater lines (including size), manholes, gullies, outlets, inlets, roofwater inspection pits, etc.
5. Location of existing services.
6. Existing and proposed contours.
7. Proposed easements.
8. Stage boundaries.
9. Concrete footpaths.
10. Concrete bikeways.
11. Cut-off drains.
12. Vehicular crossings.
13. Side drains.
14. Location of flood regulation lines.
15. Position of the waterway eg centreline and top of bank.
16. Extents of overland flow path including cross sectional details.
17. Roofwater kerb adaptors in the kerb and channel.
18. Drawings should incorporate note that outlets in public space and waterways should be inspected before construction. Stormwater outlets in any public space (existing or newly created Council asset) should be addressed at the initial application (conceptual design) stage and not be deferred to the operational works assessment stage, as the method of stormwater conveyance and treatment could influence the development's design, layout and cost. Also refer to Chapter 6 of Part B of this document.

### **2.10.2 Longitudinal Section**

Stormwater drainage longitudinal section drawings are generally required to show the following information:

1. Chainages.
2. Existing surface levels.
3. Design finished surface levels.
4. Pipe invert levels.
5. Manhole chainages.
6. Distance between manholes.
7. Grade of pipes.
8. Pipe capacity.
9. Pipe size.
10. Diameter of pipes.
11. Pipe class eg Class 2.
12. Pipe installation type eg H2 trench.



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13. Trench construction method eg excavator wheel load, wacker packer, etc.
14. Hydraulic grade line including the corresponding water levels at junctions.
15. Design storm frequency.
16. Manhole diameters.
17. Invert levels of inlets/outlets. Details should be extended to include the free outlet or creek bed.
18. Gully numbers.
19. Depth to invert at manholes.
20. Datum.
21. Type of gully and size of lintel.
22. Service crossing.

### **2.10.3 Details**

#### **Manholes**

Drawings are generally required to show the following information:

1. Connecting pipes.
2. Manhole/chamber size.
3. Identification number.
4. Location chainage.

#### **Inlets/outlets**

Drawings are generally required to show the following information:

1. Identification number
2. Thickness of walls and floor.
3. Reinforcing.
4. Type of treatment to prevent scour, eg energy dissipator.
5. Water quality management devices eg gross pollutant trap, sedimentation basin.
6. Type of grate – galvanised.
7. Surrounding levels eg waterway bed and banks.
8. Position in relation to waterway, property boundary, flow direction, flow velocity, etc.
9. Invert levels.
10. Surcharge structures.

#### **Catchment plan**

Drawings are generally required to show the following information:

1. Tabulation of catchment areas, slopes, runoff coefficient, design discharges, etc.
2. Layout with gully catchments.
3. Full external catchment with contours extending beyond the limits of the site.
4. Existing and proposed contours.

#### **Stormwater drainage calculation sheet**

Refer template outlined in Chapter 2 of Part B of this document.



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**Brisbane City Council  
Subdivision and Development Guidelines  
Part D Design and Construction Procedures  
Chapter 2 Reports and Drawings**

**Open channel**

Drawings are generally required to show the following information:

1. Top and toe of batters.
2. Cross sections.
3. Design levels.
4. Existing surface levels either by contours or spot levels, on the subject site and on the adjoining properties or road reserves.
5. Proposed spot levels and contours.
6. Proposed development and habitable floor levels.
7. Maintenance and/or safety berms.
8. Longitudinal section.
9. Landscaping details.

**Detention/retention basin**

Drawings are generally required to show the following information:

1. As per Open Channel above.
2. Side batters.
3. Spillway.
4. Low flow pipes.
5. Floor subsoil drainage.

**Culverts**

Drawings are generally required to show the following information:

1. Full structural details.
2. Handrails.
3. Scour protection.

**Overland flow paths**

Drawings are generally required to show the following information:

1. Existing surface levels, either by contours or spot levels, on the subject site and on the adjoining properties or road reserves or waterways.
2. Finished surface levels on the subject sites.
3. Proposed habitable floor and development levels.
4. Overland flow path widths and levels, and cross sections along the flow path for the design flows.
5. Existing drainage structures, including pipe sizes and levels, especially at the proposed discharge point.
6. Overland flow paths for the design storm other than in road reserves should be shown on separate drawings.



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## **2.11 STORMWATER DETENTION/RETENTION SYSTEMS**

A detention/retention system includes all ancillary gutters, pipes, drains, walls, kerbs, pits, grates, tanks, chambers, basins, and surfaces designed to temporarily detain/retain stormwater as well as surfaces graded to direct stormwater to the temporary storage. Design drawings are generally required to show all the following information:

1. Location and extent of each storage.
2. Locations and details of each outlet and/or discharge control device.
3. Catchment area draining to each storage.
4. Maximum water surface levels in each storage.
5. Overflow structures and surcharge paths.
6. Levels and location of the discharge points for each storage.
7. Internal drainage system.
8. Existing contours and final design levels.
9. Final site layout.
10. Location and extent of any floodway or flow paths.
11. Cross sections through the storages.

## **2.12 ASSET REGISTER**

The asset register is an essential part of the engineering and architectural plans and should be accurate and included on the leading drawing, generally in accordance with the proforma set out in Table D2.1. The applicant is required to identify and quantify the asset only as the actual construction costs may not be known at the design stage. The register should include all structures and items associated with the subdivision or development that which will be handed over to Council following Off Maintenance. These items are generally referred to as **donated or contributed assets**.

Table D2.1 lists a comprehensive set of donated assets excluding water supply and sewerage items. It is envisaged that only a subset of the listed items will apply in most cases as the list also incorporates historical asset such as arched brick drains and heritage construction material such as porphyry. The applicant should not assume that the listed item will imply automatic acceptance of a particular material or product, for example, the use of pavers is now restricted.

The final **asset register should reflect the actual construction and should be submitted as part of the As Constructed Drawings**. For each item, the applicant should specify the asset type, quantity, unit rate, and estimated value. Council will use the unit rates solely for the purpose of asset valuation and capitalisation.



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TABLE D2.1 ASSET REGISTER PROFORMA

ASSET INVENTORY DATA SHEET									
Create new assets <input type="checkbox"/>			Delete assets from register <input type="checkbox"/>			(Tick the relevant box)			
Item	Description						Unit	Design Qty	As Constructed Qty
<b>1.00</b>	<b>ROADS: PAVEMENTS</b>								
	<i>Road/park name, suburb</i> (eg Day Street, Carindale)	<i>Link nodes</i> (eg Nadine Street to Richardson Street)	<i>Road classification</i> A: local access cul-de-sac B: local access C: neighbourhood access D: district access/ suburban route E: industrial access F: arterial route minor G: arterial route major	<i>Surface type</i> Asphalt Pavers Concrete Spray seal	<i>Surface thickness (mm)</i>	<i>Pavement type</i> Concrete Full depth asphalt Unbound granular Stabilised Not applicable	m <sup>2</sup>		
<b>2.00</b>	<b>ROADS: BULK EARTHWORKS TO SUBGRADE LEVEL</b>								
	<i>Road/park name, suburb</i> (eg Day Street, Carindale)	<i>Link nodes</i> (eg Nadine Street to Richardson Street)				<i>Earthworks on leads</i>	m <sup>3</sup>		
						<i>Earthworks to spoil</i>	m <sup>3</sup>		
						<i>Imported fill</i>	m <sup>3</sup>		
<b>3.00</b>	<b>KERB &amp; CHANNEL</b>								
	<i>Road/park name, suburb</i> (eg Day Street, Carindale)	<i>Link nodes</i> (eg Nadine Street to Richardson Street)	<i>Type</i> Kerb only Kerb & channel Natural Table drain	<i>Material</i> Stone block Concrete Porphyry	<i>Street side</i> Odd number Even number Both sides	m			



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### ASSET INVENTORY DATA SHEET

Create new assets  Delete assets from register  (Tick the relevant box)

Item	Description			Unit	Design Qty	As Constructed Qty
<b>4.00</b>	<b>FOOTPATHS</b>					
	<i>Road name, suburb</i> eg Day Street, Carindale	<i>Link nodes</i> eg Nadine Street to Richardson Street	<i>Material type</i> Asphalt Segmental paver/brick Plain concrete Concrete flagstone Exposed aggregate concrete Formed Part formed Spray seal	<i>Street side</i> Odd number Even number Both sides	m <sup>2</sup>	
<b>5.00</b>	<b>MEDIANS</b>					
	<i>Road name, suburb</i> eg Day Street, Carindale	<i>Link nodes</i> eg Nadine Street to Richardson Street	<i>Kerb</i> Median infill Concrete Asphalt Pavers Pebbles Landscape		m m <sup>2</sup>	



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## ASSET INVENTORY DATA SHEET

Create new assets  Delete assets from register  (Tick the relevant box)

Item	Description								Unit	Design Qty	As Constructed Qty	
<b>6.00</b>	<b>BIKEWAYS</b>											
	<i>Road/park name, suburb</i> eg Day Street, Carindale	<i>Link nodes</i> eg Nadine Street to Richardson Street	<i>Surface</i> Concrete Asphalt	<i>Classification</i> Bicycle path <sup>2</sup> Separated path <sup>3</sup> Shared use path <sup>4</sup> Bicycle lane <sup>5</sup>						m <sup>2</sup>		
<b>7.00</b>	<b>BRIDGES/BOARDWALKS<sup>6</sup> AND WHARVES/JETTIES<sup>7</sup></b>											
	<i>Road/park name, suburb</i> eg Day Street, Carindale	<i>Type</i> Wharf Pier/jetty Boardwalk Roadbridge Footbridge	<i>Subtype</i> Arch Beam Cable stay Cantilever Suspension Truss	<i>Material</i> Concrete Composite Steel Timber	<i>Constructed over</i> Rail Road Water	<i>Services attached</i> Telecomm. Electricity Gas Sewerage Water None Other	<i>No. of spans</i>	<i>Length (m)</i>	<i>Width (m)</i>	m <sup>2</sup>		

- <sup>2</sup> A path or path section, often constructed through reserves or along rivers or coastal areas, intended for the exclusive use of cyclists.
- <sup>3</sup> A path divided into separated sections one of which is designated for the exclusive use of cyclists and an alternate section for other path users.
- <sup>4</sup> A path open to the public that is designated for, or has as one of its main uses, use by both cyclists and pedestrians, but does not include a separated footpath or a footpath adjacent to a road.
- <sup>5</sup> A lane designated for the exclusive use of cyclists generally located at the side of a road carriageway.
- <sup>6</sup> Bridges and boardwalks typically provide raised crossings with clear span over water, rail or road and are supported on piers and abutments.
- <sup>7</sup> Wharf and jetty structures provide secure platforms over water and clear of the tidal surface to facilitate waterway access. These structures are supported on one abutment and a system of piers (pylons).



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### ASSET INVENTORY DATA SHEET

Create new assets  Delete assets from register  (Tick the relevant box)

Item	Description									Unit	Design Qty	As Constructed Qty
<b>8.00</b>	<b>CULVERTS<sup>8</sup> AND TUNNELS<sup>9</sup></b>											
	<i>Road/park name, suburb</i> eg Day Street, Carindale	<i>Type</i> Culvert Tunnel	<i>Subtype</i> Concrete box Concrete pipe Steel pipe Concrete arch Steel arch	<i>Length (m)</i>	<i>No. of cells</i>	<i>Diameter/width (mm)</i>	<i>Height (mm)</i>	<i>Traffic type</i> Vehicular Pedestrian	<i>Services attached</i> Telecomm. Electricity Gas Sewerage Water None Other	m		

<sup>8</sup> One or more adjacent pipes or enclosed channels for conveying a watercourse or stream below formation level.

<sup>9</sup> Closed or roofed structures carrying traffic through or under an obstacle such as mountain, water body, or building.





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### ASSET INVENTORY DATA SHEET

Create new assets  Delete assets from register  (Tick the relevant box)

Item	Description						Unit	Design Qty	As Constructed Qty
9.00	<b>SEA/RIVER WALLS<sup>10</sup>, RETAINING WALLS<sup>11</sup> AND GROYNES<sup>12</sup></b>								
	<i>Road/park name, suburb</i> eg Bowman Park, Bardon	<i>Type</i> River wall Sea wall Groyne Retaining wall	<i>Subtype</i> Stone pitched Dry packed rock Cantilever concrete Gravity concrete Gabion Concrete block Interlocking block Timber sleepers Crib block Boulders Reinforced earth Timber logs Brick	<i>Material</i> Porphyry cut Porphyry spall Bluestone Concrete Clay Sandstone Granite Timber	<i>Length (m)</i>	<i>Max Height (m)</i>	m <sup>2</sup>		

<sup>10</sup> Structures constructed to stabilise the banks.  
<sup>11</sup> Retaining interface structure to stabilise a cutting or embankment.  
<sup>12</sup> Low walls built out from the coast into the sea to prevent the continual movement of waves from removing parts of the land.



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### ASSET INVENTORY DATA SHEET

Create new assets

Delete assets from register

(Tick the relevant box)

Item	Description	Unit	Design Qty	As Constructed Qty								
<b>10.00</b>	<b>PONTOONS<sup>13</sup></b>											
	<table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; border-right: 1px dashed black;"><i>Road/park name, suburb</i> eg Bowman Park, Bardon</td> <td style="width: 25%; border-right: 1px dashed black;"><i>Material</i> Concrete prestressed Concrete reinforced Concrete mass Concrete autoclaved aerated Steel Stainless steel Aluminium Timber hardwood Timber softwood Timber ply Composite Combination</td> <td style="width: 10%; border-right: 1px dashed black;"><i>Public access</i> Yes No</td> <td style="width: 10%; border-right: 1px dashed black;"><i>Length (m)</i></td> <td style="width: 10%; border-right: 1px dashed black;"><i>Width (m)</i></td> <td style="width: 10%;"><i>m<sup>2</sup></i></td> <td></td> <td></td> </tr> </table>	<i>Road/park name, suburb</i> eg Bowman Park, Bardon	<i>Material</i> Concrete prestressed Concrete reinforced Concrete mass Concrete autoclaved aerated Steel Stainless steel Aluminium Timber hardwood Timber softwood Timber ply Composite Combination	<i>Public access</i> Yes No	<i>Length (m)</i>	<i>Width (m)</i>	<i>m<sup>2</sup></i>					
<i>Road/park name, suburb</i> eg Bowman Park, Bardon	<i>Material</i> Concrete prestressed Concrete reinforced Concrete mass Concrete autoclaved aerated Steel Stainless steel Aluminium Timber hardwood Timber softwood Timber ply Composite Combination	<i>Public access</i> Yes No	<i>Length (m)</i>	<i>Width (m)</i>	<i>m<sup>2</sup></i>							

<sup>13</sup> Floating platforms typically supported by a single abutment, with walkway access to the bank at the tidal surface.



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### ASSET INVENTORY DATA SHEET

Create new assets

Delete assets from register

(Tick the relevant box)

Item	Description	Unit	Design Qty	As Constructed Qty												
11.00	<b>BOAT RAMPS<sup>14</sup></b>															
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;"><i>Road/park name, suburb</i> eg Bowman Park, Bardon</th> <th style="width: 15%;"><i>Type</i> Parallel boat Perpendicular boat Canoe</th> <th style="width: 15%;"><i>Subtype</i> Slab Slab and panels Blocks on fabric</th> <th style="width: 20%;"><i>Material</i> Concrete prestressed Concrete reinforced Concrete mass Concrete autoclaved aerated Steel Stainless steel Aluminium Timber hardwood Timber softwood Timber ply Composite Combination</th> <th style="width: 10%;"><i>Length (m)</i></th> <th style="width: 10%;"><i>Width (m)</i></th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	<i>Road/park name, suburb</i> eg Bowman Park, Bardon	<i>Type</i> Parallel boat Perpendicular boat Canoe	<i>Subtype</i> Slab Slab and panels Blocks on fabric	<i>Material</i> Concrete prestressed Concrete reinforced Concrete mass Concrete autoclaved aerated Steel Stainless steel Aluminium Timber hardwood Timber softwood Timber ply Composite Combination	<i>Length (m)</i>	<i>Width (m)</i>							m <sup>2</sup>		
<i>Road/park name, suburb</i> eg Bowman Park, Bardon	<i>Type</i> Parallel boat Perpendicular boat Canoe	<i>Subtype</i> Slab Slab and panels Blocks on fabric	<i>Material</i> Concrete prestressed Concrete reinforced Concrete mass Concrete autoclaved aerated Steel Stainless steel Aluminium Timber hardwood Timber softwood Timber ply Composite Combination	<i>Length (m)</i>	<i>Width (m)</i>											

<sup>14</sup> Surfaced ramps graded to provide a sure footing for vehicular access to the tidal zone to allow the launching or retrieval of watercrafts.



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## ASSET INVENTORY DATA SHEET

Create new assets

Delete assets from register

(Tick the relevant box)

Item	Description						Unit	Design Qty	As Constructed Qty
<b>12.00</b>	<b>ENCLOSED STORMWATER: DRAINLINES</b>								
	<i>Road/park name, suburb</i> (eg Day Street, Carindale)	<i>Link nodes</i> (eg Nadine St to Richardson St)	<i>Shape</i> Round Box Rounded box Beehive Inverted beehive Arched Coffin Egg Inverted egg Lateral egg Trapezoidal Irregular	<i>Material</i> Asbestos cement Brick/ block/ stone Cast-in-situ concrete Precast concrete Cast metal (iron) Fabricated metal Natural material Porphyry blockwork Polyvinyl Steel Vitreous clay	<i>Width/ Diameter (m)</i>	<i>Height (m)</i>	m		
<b>13.00</b>	<b>ENCLOSED STORMWATER: MANHOLES</b>								
	<i>Road/park name, suburb</i> (eg Day Street, Carindale)	<i>Location</i> Structure Road Park Private property	<i>Shape</i> Round Non-round	<i>Material</i> Brick Precast concrete Cast-in-situ concrete Stone pitched Other	<i>Width/ Diameter (m)</i>	<i>Height (m)</i>	<i>Depth (m)</i>	No.	



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Create new assets

Delete assets from register

(Tick the relevant box)

Item	Description	Unit	Design Qty	As Constructed Qty					
<b>14.00</b>	<b>ENCLOSED STORMWATER: GULLIES</b>								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><i>Road/park name, suburb</i> (eg Day Street, Carindale)</td> <td style="width: 30%;"><i>Type</i> Grated inlet on road Back inlet on road Fire retarding gully Grated lip in line Field inlet Trench grating Other</td> <td style="width: 30%;"><i>Subtype</i> Backstone 1.2 m Backstone 2.1 m Backstone 3.2 m Lintel 1.2 m Lintel 2.4 m Lintel 3.6 m Lintel 4.8 m No backstone</td> <td style="width: 10%; text-align: center;">No.</td> </tr> </table>	<i>Road/park name, suburb</i> (eg Day Street, Carindale)	<i>Type</i> Grated inlet on road Back inlet on road Fire retarding gully Grated lip in line Field inlet Trench grating Other	<i>Subtype</i> Backstone 1.2 m Backstone 2.1 m Backstone 3.2 m Lintel 1.2 m Lintel 2.4 m Lintel 3.6 m Lintel 4.8 m No backstone	No.				
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<b>15.00</b>	<b>ENCLOSED STORMWATER: INLETS/OUTLETS</b>								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><i>Road/park name, suburb</i> Bowman Park, Bardon</td> <td style="width: 30%;"><i>Type</i> Concrete Grouted rock Wire mattresses Rip rap</td> <td style="width: 15%;"><i>Length (m)</i></td> <td style="width: 15%;"><i>Width (m)</i></td> <td style="width: 10%; text-align: center;">m<sup>2</sup></td> </tr> </table>	<i>Road/park name, suburb</i> Bowman Park, Bardon	<i>Type</i> Concrete Grouted rock Wire mattresses Rip rap	<i>Length (m)</i>	<i>Width (m)</i>	m <sup>2</sup>			
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Item	Description	Unit	Design Qty	As Constructed Qty																																																				
<b>16.00</b>	<b>STORMWATER QUALITY IMPROVEMENT DEVICE (SQID)</b>																																																							
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;"><i>Road/park name, suburb (eg Day Street, Carindale)</i></th> <th style="width: 20%;"><i>Location</i></th> <th style="width: 20%;"><i>Type</i></th> <th style="width: 40%;"><i>Subtype</i></th> </tr> </thead> <tbody> <tr> <td>Road</td> <td>Road</td> <td>Constructed wetlands</td> <td>Vertical or inclined trash rack</td> </tr> <tr> <td>Park</td> <td>Park</td> <td>Sedimentation basin</td> <td>Horizontal trash rack</td> </tr> <tr> <td>Private property</td> <td>Private property</td> <td>Sediment traps</td> <td>Centrifugal dispersion system units (CDS)</td> </tr> <tr> <td></td> <td></td> <td>Open Gross pollutant trap (GPT)</td> <td>Ecosol unit</td> </tr> <tr> <td></td> <td></td> <td>Trash racks</td> <td>Mini GPT</td> </tr> <tr> <td></td> <td></td> <td>Underground GPT</td> <td>Vertical in-line grates</td> </tr> <tr> <td></td> <td></td> <td>Floating litter traps/ litter booms</td> <td>Static filtration units</td> </tr> <tr> <td></td> <td></td> <td>Detention basins</td> <td>Humeceptor</td> </tr> <tr> <td></td> <td></td> <td>Lakes</td> <td>Humegard</td> </tr> <tr> <td></td> <td></td> <td>Bio-retention &amp; infiltration device</td> <td>Basket groups</td> </tr> <tr> <td></td> <td></td> <td>Other</td> <td>CleansALL</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Other</td> </tr> </tbody> </table>	<i>Road/park name, suburb (eg Day Street, Carindale)</i>	<i>Location</i>	<i>Type</i>	<i>Subtype</i>	Road	Road	Constructed wetlands	Vertical or inclined trash rack	Park	Park	Sedimentation basin	Horizontal trash rack	Private property	Private property	Sediment traps	Centrifugal dispersion system units (CDS)			Open Gross pollutant trap (GPT)	Ecosol unit			Trash racks	Mini GPT			Underground GPT	Vertical in-line grates			Floating litter traps/ litter booms	Static filtration units			Detention basins	Humeceptor			Lakes	Humegard			Bio-retention & infiltration device	Basket groups			Other	CleansALL				Other	No.		
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### ASSET INVENTORY DATA SHEET

Create new assets

Delete assets from register

(Tick the relevant box)

Item	Description	Unit	Design Qty	As Constructed Qty							
<b>17.00</b>	<b>OPEN DRAINS</b>										
	<table border="1"> <tr> <td><i>Road/park name, suburb</i> eg Day Street, Carindale</td> <td><i>Link nodes</i> eg Nadine Street to Richardson Street</td> <td><i>Drawing No.</i></td> <td><i>Type</i> Lined channel Unlined channel Natural channel Drop structure Other</td> <td>m</td> <td></td> <td></td> </tr> </table>	<i>Road/park name, suburb</i> eg Day Street, Carindale	<i>Link nodes</i> eg Nadine Street to Richardson Street	<i>Drawing No.</i>	<i>Type</i> Lined channel Unlined channel Natural channel Drop structure Other	m					
<i>Road/park name, suburb</i> eg Day Street, Carindale	<i>Link nodes</i> eg Nadine Street to Richardson Street	<i>Drawing No.</i>	<i>Type</i> Lined channel Unlined channel Natural channel Drop structure Other	m							
<b>18.00</b>	<b>FENCES</b> (Record park fencing under Item 23.00)										
	<table border="1"> <tr> <td><i>Road name, suburb</i> eg Day Street, Carindale</td> <td><i>Location</i> eg from No. 3 to No. 10</td> <td><i>Type</i> Barrier flexibeam Barrier log Barrier pedestrian Barrier sound Barrier jersey Bollard Chainwire Delineator Decorative/heritage Guard rail Post and cable Post and rail Pool style Security style Weldmesh Wire rope Paling</td> <td><i>Material</i> Concrete Aluminium Masonry Steel Timber</td> <td><i>Height (mm)</i></td> <td>m</td> <td></td> </tr> </table>	<i>Road name, suburb</i> eg Day Street, Carindale	<i>Location</i> eg from No. 3 to No. 10	<i>Type</i> Barrier flexibeam Barrier log Barrier pedestrian Barrier sound Barrier jersey Bollard Chainwire Delineator Decorative/heritage Guard rail Post and cable Post and rail Pool style Security style Weldmesh Wire rope Paling	<i>Material</i> Concrete Aluminium Masonry Steel Timber	<i>Height (mm)</i>	m				
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## ASSET INVENTORY DATA SHEET

Create new assets  Delete assets from register  (Tick the relevant box)

Item	Description	Unit	Design Qty	As Constructed Qty
<b>19.00</b>	<b>TRAFFIC CONTROL NETWORK</b>			
	<i>Road name, suburb</i> eg Day Street, Carindale	<i>Location</i> eg adjacent No. 10	Intersection One approach Two approaches Three approaches Four approaches Special	Item Item Item Item Item
	<i>Road name, suburb</i> eg Day Street, Carindale	<i>Location</i> eg adjacent No. 10	Mid-block pedestrian crossing One approach Two approaches	Item Item
	<i>Road name, suburb</i> eg Day Street, Carindale	<i>Location</i> eg adjacent No. 10	Major directional signs	No.
	<i>Road name, suburb</i> eg Day Street, Carindale	<i>Location</i> eg adjacent No. 10	Bliss system software	Item
	<i>Road name, suburb</i> eg Day Street, Carindale	<i>Location</i> eg adjacent No. 10	Bliss system hardware	Item
	<i>Road name, suburb</i> eg Day Street, Carindale	<i>Location</i> eg adjacent No. 10	Traffic control centre	Item
	<i>Road name, suburb</i> eg Day Street, Carindale	<i>Location</i> eg adjacent No. 10	Other as specified	Item





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### ASSET INVENTORY DATA SHEET

Create new assets  Delete assets from register  (Tick the relevant box)

Item	Description	Unit	Design Qty	As Constructed Qty																									
<b>20.00</b>	<b>EASEMENTS AND CONTRIBUTED LAND</b>																												
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"><i>Address and R.P. description</i></td> <td style="width: 45%;"><i>Type</i></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> <tr> <td></td> <td>Underground pipe drainage easement in favour of Council</td> <td rowspan="6" style="text-align: center; vertical-align: middle;">m<sup>2</sup></td> <td rowspan="6"></td> </tr> <tr> <td></td> <td>Open cut drainage easement in favour of Council</td> </tr> <tr> <td></td> <td>Overland flow easement in favour of Council</td> </tr> <tr> <td></td> <td>Combined underground/ aboveground drainage easement in favour of Council</td> </tr> <tr> <td></td> <td>Contributed land eg dedicated parkland</td> </tr> <tr> <td></td> <td>Easements over contributed land in favour of others eg Energex</td> </tr> <tr> <td></td> <td colspan="2">Other as specified eg access and turning areas to facilitate on-site refuse collection</td> <td></td> </tr> </table>	<i>Address and R.P. description</i>	<i>Type</i>				Underground pipe drainage easement in favour of Council	m <sup>2</sup>			Open cut drainage easement in favour of Council		Overland flow easement in favour of Council		Combined underground/ aboveground drainage easement in favour of Council		Contributed land eg dedicated parkland		Easements over contributed land in favour of others eg Energex		Other as specified eg access and turning areas to facilitate on-site refuse collection								
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<b>21.00</b>	<b>PARKS: ACCESS</b> (Record Park Roads and K&C under Items 1.00 to 3.00, and Park Bridges, Boardwalks, Culverts etc under Items 7.00 to 11.00 )																												
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><i>Type</i></td> <td style="width: 20%;"><i>Asset limits and/or location</i></td> <td style="width: 10%;"><i>Surfacing</i></td> <td style="width: 10%;"><i>Width (m)</i></td> <td style="width: 10%;"><i>Length (m)</i></td> <td style="width: 10%;"></td> </tr> <tr> <td>Car parks</td> <td rowspan="9">eg Smith Street car park to toilet block, GPS coordinates</td> <td>Asphalt</td> <td rowspan="9"></td> <td rowspan="9"></td> <td rowspan="9" style="text-align: center; vertical-align: middle;">m<sup>2</sup></td> </tr> <tr> <td>Paths</td> <td>Spray seal</td> </tr> <tr> <td>Stairways</td> <td>Timber</td> </tr> <tr> <td>Platforms</td> <td>Aggregate</td> </tr> <tr> <td>Decks</td> <td>Earth</td> </tr> <tr> <td>Walking tracks</td> <td>Deco</td> </tr> <tr> <td>Formed management access (eg firebreak &amp; driveway)</td> <td>Concrete</td> </tr> <tr> <td>Other as specified</td> <td></td> </tr> </table>	<i>Type</i>	<i>Asset limits and/or location</i>	<i>Surfacing</i>	<i>Width (m)</i>	<i>Length (m)</i>		Car parks	eg Smith Street car park to toilet block, GPS coordinates	Asphalt			m <sup>2</sup>	Paths	Spray seal	Stairways	Timber	Platforms	Aggregate	Decks	Earth	Walking tracks	Deco	Formed management access (eg firebreak & driveway)	Concrete	Other as specified			
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### ASSET INVENTORY DATA SHEET

Create new assets

Delete assets from register

(Tick the relevant box)

Item	Description	Unit	Design Qty	As Constructed Qty
<b>22.00</b>	<b>PARKS: BUILDINGS</b>			
	<i>Type</i> Toilet Change room Sporting clubhouse Depot Store Nursery Kiosk Other as specified	<i>Details</i> eg materials, footprint, floor area, no. rooms, no. floors, no. cubicles male, female, unisex, disabled, etc	Item	
<b>23.00</b>	<b>PARKS: UTILITIES</b> (record Network Drains under Items 12.00 to 17.00)			
	<i>Type</i> Maintenance tap Drinking fountain/bubbler Irrigation system Light Rubbish bin Park drain Pump Other as specified	<i>Details</i> eg manufacturer, model, pipe and tap size, drawing reference, irrigated area, light wattage, etc	Item	



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### ASSET INVENTORY DATA SHEET

Create new assets

Delete assets from register

(Tick the relevant box)

Item	Description	Unit	Design Qty	As Constructed Qty
<b>24.00</b>	<b>PARKS: VISITOR FACILITIES</b>			
	<i>Type</i> Picnic shelter Barbecue Viewing stand Bird hide Seat Information shelter Gazebo Lookout shelter Other as specified	<i>Details</i> eg manufacturer, model, materials, no. BBQ plates, drawing reference, dimensions, area, etc	Item	
<b>25.00</b>	<b>PARKS: SPORT AND RECREATION FACILITIES</b>			
	<i>Type</i> Basketball facility Bike rack Fitness exercise equipment Dog off leash area BMX facility Tennis court Rebound wall Sports field Other as specified	<i>Details</i> eg manufacturer, model, materials, drawing reference, dimensions, area, no. bike racks, etc	Item	



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(Tick the relevant box)

Item	Description	Unit	Design Qty	As Constructed Qty
<b>26.00</b>	<b>PARKS: HARD LANDSCAPING AND HERITAGE</b>			
	<i>Type</i> Cultural heritage items (eg monument) Industrial artefacts Pavement area Landscape feature (eg entry gates, artworks, arbour, pergola, water fountain, wall, flag pole) Signage Other as specified	<i>Details</i> eg artist, heritage status, materials, drawing reference, sign description and wording, pavement dimensions, etc	Item	
<b>27.00</b>	<b>PARKS: BARRIERS</b>			
	<i>Type</i> Timber log fence Bollard Chain mesh fencing Pool fence Safety railing Balustrade Lock rail Gate Other as specified	<i>Details</i> eg materials, fence height, drawing reference, etc	m	



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### ASSET INVENTORY DATA SHEET

Create new assets

Delete assets from register

(Tick the relevant box)

Item	Description	Unit	Design Qty	As Constructed Qty
<b>28.00</b>	<b>PARKS: PLAY</b>			
	<i>Type</i> Under surfacing Shade structure Swing Slide Water play Family of products (as defined in AS 4685.1) Play sculpture Carousel Rocking equipment Seesaw Theme play Fitness play Climbing play Life skills play	<i>Details</i> eg manufacturer, model, materials, drawing reference, dimensions, area, etc	Item	
<b>29.00</b>	<b>PARKS: SOFT LANDSCAPING</b>			
	<i>Type</i> Garden bed Landscape bed Hedge Habitat rehabilitation area Lawn Natural vegetation remnant Other as specified	<i>Details</i> eg annual or perennial bed, planted species x number, dimensions, edging, etc	m <sup>2</sup>	
<b>30.00</b>	<b>MISCELLANEOUS</b>			
	Street landscaping	m <sup>2</sup>		
	Other as specified eg entrance features	Item		