**SIRA ROADS, DRAINAGE, PARKS AND RESERVES**

**OBJECTIVES AND IMPLEMENTATION PLAN**

**OVERARCHING OBJECTIVES**

* All roads must have in-built drainage
* Safe pedestrian and disabled access to wharves and facilities
* Traffic Management Plan requires a fully functional **Ring Road**
* Integrated management plans for Parks and Bushland – Initial focus Catherine Park

1. **Traffic Management Plan**

* Phil Devon, Manager Transport Network
  1. **Ring Road** 
     1. Complete drainage works and reinstate or seal all surfaces
     2. Priority 1: seal and provide adequate drainage on a ring road linking the four main wharves, Carols, Bell, Cargo and Tennis, comprising Richard Road (Carols to Cargo), Robertson Road (Cargo to Tennis), Kevin Avenue, Thompson Street and Harold Avenue (Tennis to Carols)
     3. Identify and mark all turning and parking areas plus turning bays (no parking) and formalise the parking arrangements at the associate wharves (Carols, Bell, Cargo and Tennis)
  2. **Facilitate Vehicle Movements (refer table)** 
     1. Priority 2: Florence Terrace (to provide access to Tennis and Eastern Wharves)
     2. Priority 3: middle Thompson Street (from Hilda Avenue above Bell Wharf to Harold Avenue above Carols Wharf)
     3. Priority 4: formalise the road from the end of Kevin Avenue through Elizabeth Park to service residents with no street frontage to non-existent road (Thompson Street)

1. **Roads and Drainage**

2.1 **Capital Works AS AGREED**

* David Munday, Senior Project Engineer, Engineering and Delivery
* Stephen Watson, Team Leader, Stormwater Floodplain Planning and Response
* Dean McNatty, Team Leader, Stormwater Operations and Planning
* Duncan Howley, Team Leader, Floodplain Planning and Response (for John Heponstall)
* Tham Siearasa, Senior Engineer, Road Assets
  + 1. Catherine Park Ring road – to include water bars, cross fall, sealing to include drain, management of stormwater flows across park and outfall, parking allocation including barriers and signage
    2. Cecil Street along Richard Road
    3. Depot – survey and consultation with neighbours

1. **Maintenance**

* Grant Tighe, Manager, Construction and Maintenance
* Gene Walker, Field Supervisor, Maintenance
* Pino Nero, Site Supervisor

3.1 Refer Maintenance table

3.2 Initiate scheduled quarterly clearing of drains/pits; patching potholes

1. **Paths**

* David Munday, Senior Project Engineer, Engineering and Delivery
  1. Inventory of paths to ensure safe pedestrian travel (particularly fire egress and access to wharves)
  2. Fitzpatrick Avenue steps
     1. maintenance on steps especially at the intersection of Thompson Street and Fitzpatrick Avenue
     2. Fix drainage at intersection to Thompson Street where erosion is evident
  3. Eastern Wharf stone steps refurbishment, and maintenance
  4. Bell Wharf lower stone steps refurbishment, upper steps maintenance, replace railing
  5. Hilda Avenue steps maintenance

1. **Parks and Reserves**

* Chris Kraus, Coordinator Bushland Management
* Chris Munro, Manager Bushland Biodiversity
* Steve Lawler, Executive Manager, Parks and Recreative
* Phil Devon, Manager Transport Network – oversee formation of a working group
  1. Overarching management plans with liaison between parks and reserves and roads and drainage teams
  2. Catherine Park
     1. Maintenance of bushland
     2. Restoration/landscape planning for entrance
     3. Disabled pedestrian access to Hall and park
     4. Bushcare maintenance around both Hall and Kindy buildings
  3. Leahvera Reserve – General and contractor use, indigenous land mark protection

**CAPITAL WORKS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Item** | **Location** | **Issue** | **Need** |
| 2019  Design 2020 Construct  **RRW** | “J” & “I”: | Cecil Street to Richard Road  42-56 Richard Road  Chainage 330 to 400 | Drainage and easement | Design and construct  Confer with property owner  AGREED DESIGN PROJECT 2019 |
| 2019  Design 2020 Construct  **RRW** | “V”:  Catherine Park ring road | Catherine Park ring road  Under Traffic Management Plan – Ring Road Works | Design to control stormwater erosion of road into Catherine Park  Parking for vehicles below fire shed and disabled park at Tennis Court Wharf | Drainage, cx fall, seal, waterbars  Designate parking, provide signage and limit general access  AGREED DESIGN PROJECT 2019 |
| 2019  Design 2020 Construct | Council Depot | Kevin Avenue | Complete works area | Design, construct  Consult with neighbours  AGREED DESIGN PROJECT 2019 |
| **RRW** | S, D, P, U, T, E, G  CAPEX SCHEDULE | REFER ‘DRAINAGE PIT IMPROVEMENTS PLAN’ PLAN NO 2012-3 | MAINTENANCE | **RING ROAD WORKS**  **RRW/RRW2/RRW3/RRW4** |
| **RRW** | Robertson Road | 8-10 Robertson Road Chainage 925 to 975 | X seal to complete ring road works  (joins sealed sections) |  |
| **RRW** | Robertson Road to Quarterdeck | 22-30 Robertson Road Chainage 1050 to 1170 | X seal to complete ring road works  (joins sealed sections) |  |
| **RRW** | Robertson Road to Catherine Park | 30-50 Robertson Road Chainage 1170 to 1340 | X seal to complete ring road works  (joins sealed sections) |  |
| **RRW** | Richard Road | 11-37 Richard Road  Chainage 80 to 260 | X seal to complete ring road works  (joins sealed sections) |  |
| **RRW2** | “X”:  Florence Terrace | 93-99 Florence Terrace  Chainage 600 to 675  9-17 Florence Terrace Chainage 50 to 70 | Stormwater erosion and runoff | Fix drainage and seal |
| **RRW** | “Y”:  Robertson Road | 30-50 Robertson Road Chainage 1170 to 1346  Under Traffic Management Plan – Ring Road Works | Stormwater erosion and runoff | Fix drain restore road level and cx fall  Seal road and drain as one |
| **RRW4** | “Z”:  Elizabeth Park  Use of Elizabeth Park for access/parking of commercial equipment |  | Access for residents with no road access  Ensure safe access for vehicles and pedestrians  Manage stormwater runoff and control erosion from top of Catherine Park catchment | Design and Gazette  Fix drainage and control erosion  Rationalise vehicle use and access through reserve |

**MAINTENANCE**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Priority** | **Item** | **Location** | **Activity**  **clean drain + spray road verge - as required** | **Reseal patch** | **Water bar** |
| Now | Catherine Park below Kevin Avenue | Swale below drain, sediment basin | X remove silt swale and basin  (need excavator) |  |  |
| Now | Florence Terrace intersection to Kevin Avenue | 1-15 Florence Terrace  Chainage 0 to 70 | X  Largely blocked | X Patch seal | Water Bars check functional |
| Now | Florence Terrace adjacent to drain | 115 Florence Terrace  Chainage 800 | X |  |  |
| **RRW** | Kevin Avenue | 1-7 Kevin Avenue Chainage 0 to 100 | X | X Patch/reseal |  |
| Now | Kevin Avenue to Elizabeth Park | 2 Thompson Street  Chainage 100 to drain  (“S” Capex Schedule) |  |  | Install Water Bars |
| **RRW** | Thompson Street uphill of Kevin Avenue | 3-13 Thompson Street Chainage 25 to 160  (“D” Capex Schedule) | X clean drainage line |  | Install Water Bars  Chainage 25 to 75 |
| **RRW** | Thompson Street at Harold Avenue junction | 38-42 Thompson Street Chainage 490 to 575 | X | X Patch sealed surface | Install Water Bars  Chainage 490  Raise water bar and clean outlet |
| **RRW3** | Hilda Avenue | Intersection  68 Richard Road to  129 Thompson Street | X | X Patch sealed surface |  |
| **RRW** | Richard Road Hilda Avenue to Cargo | Intersection  68-98 Richard Road | X |  |  |
| **RRW** | Cargo | Intersection  Fitzpatrick Avenue to  2 Robertson Road  (“P” Capex Schedule) |  |  | Install Water Bars  Each side of wharf access |
| **RRW** | Robertson Road  Above Yamba | 16 Robertson Road Adjacent to  (“G” Capex Schedule) |  |  | Reprofile Water Bar (too sharp) |
| **RRW2** | Florence Terrace above Pathilda Reserve | 53-57 Florence Terrace  Chainage 300 to 400  (“U” Capex Schedule) | X |  |  |
| **RRW** | Thompson Street | 12-38 Thompson Street  Chainage 160 to 490  (“T” Capex Schedule) | X clean sealed drainage line + drain  14 Thompson Street  Chainage 160 |  |  |
| **RRW** | Thompson Street between Cecil Street and Hilda Avenue | 105-129 Thompson Street | X |  |  |