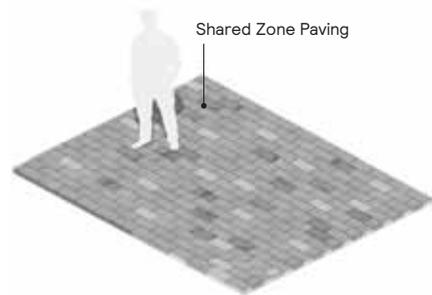


# Part D Design Details

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# D1 Paving Finishes



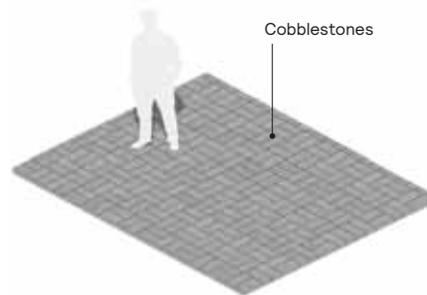
## P01 Stone Paving – Carriageway

Historic Core Carriageway Paving

300 x 150 x 80mm Stone pavers. Light, mid and dark finish (Rigid Base)

100mm min. Reinforced Concrete Slab on Compacted Base Course & Subgrade

30mm Steintec Tuffbed Bedding Mortar – Steintec Tuffgrout Jointing Mortar



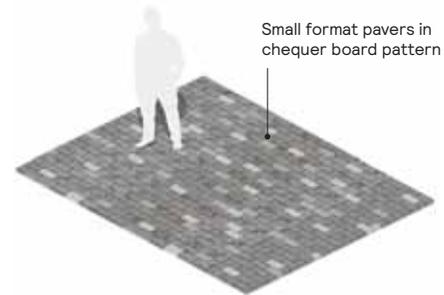
## P02 Stone Paving – Footpath

Historic Core Footpath Paver

200 x 100 x 45mm cobblestones (Rigid Base)

100mm min. Reinforced Concrete Slab on Compacted Base Course & Subgrade

30mm Steintec Tuffbed Bedding Mortar – Steintec Tuffgrout Jointing Mortar



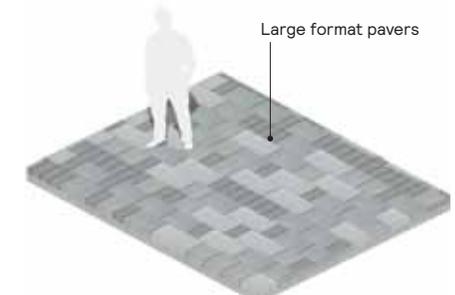
## P03 Stone Paving – Laneway

Historic Core Laneway Paving

200 x 100 x 75mm pavers. (Rigid Base)

100mm min. Reinforced Concrete Slab on Compacted Base Course & Subgrade

30mm Steintec Tuffbed Bedding Mortar – Steintec Tuffgrout Jointing Mortar



## P04 Lakeview Paving – Shared Surface

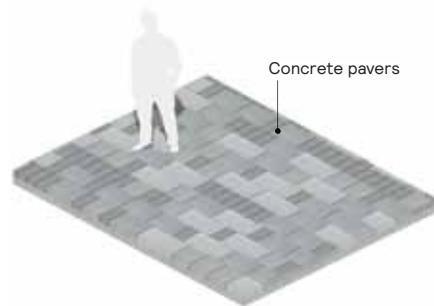
Lakeview Carriageway Paving

150 x 300 x 75mm Stone pavers  
300 x 300 x 75mm Stone pavers  
600 x 300 x 75mm Stone pavers

100mm min. Reinforced Concrete Slab on Compacted Base Course & Subgrade

30mm Steintec Tuffbed Bedding Mortar – Steintec Tuffgrout Jointing Mortar

## D1 Paving Finishes



**P05 Lakeview Paving - Footpath**

150 x 300 x 45mm Stone pavers  
300 x 300 x 45mm Stone pavers  
600 x 300 x 45mm Stone pavers

100mm min. Reinforced Concrete Slab  
on Compacted Base Course & Subgrade

30mm Steintec Tuffbed Bedding Mortar  
- Steintec Tuffgrout Jointing Mortar

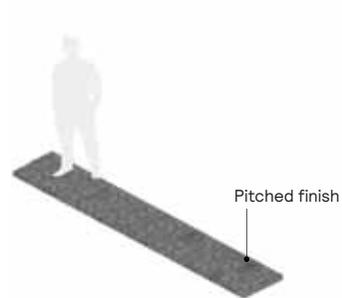


**P06 Lakeview Paving - Laneway**

100 x 200 x 75mm Stone pavers  
200 x 200 x 75mm Stone pavers  
400 x 200 x 75mm Stone pavers

100mm min. Reinforced Concrete Slab on Compacted  
Base Course & Subgrade

30mm Steintec Tuffbed Bedding Mortar - Steintec  
Tuffgrout Jointing Mortar



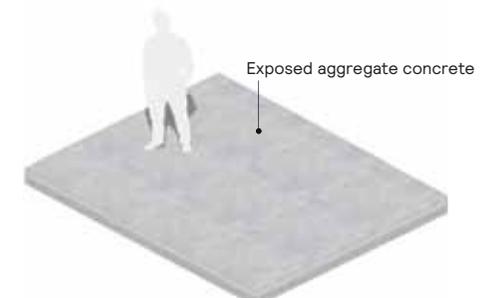
**P07 Stone Delineator Strip**

150 x 300 x 75mm Dark Stone Pavers in 600mm  
wide band.

+/- 5mm Pitched finish.

100mm min. Reinforced Concrete Slab on  
Compacted Base Course & Subgrade

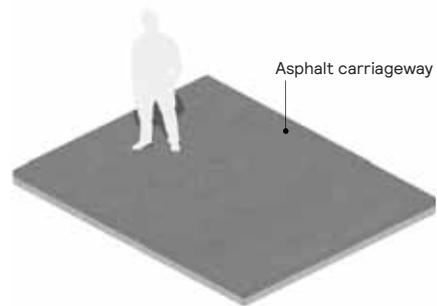
30mm Steintec Tuffbed Bedding Mortar - Steintec  
Tuffgrout Jointing Mortar



**P08 Concrete**

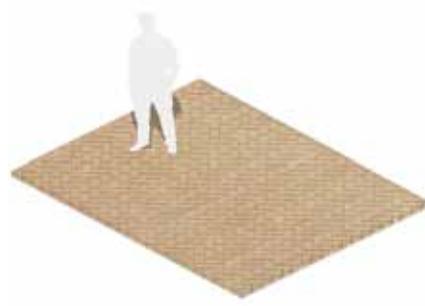
100mm min. thickness reinforced insitu exposed  
aggregate concrete with black oxide additive for tonal  
variation

## D1 Paving Finishes



### P09 Asphalt

Asphalt carriageway to (QLDC) Standards



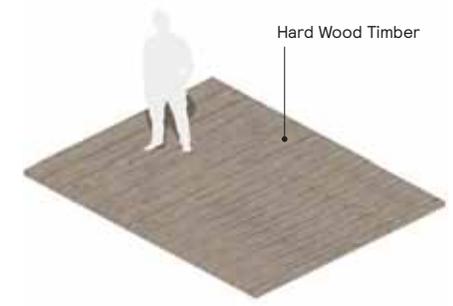
### P10 Lakefront Paving

200 x 100 x 45mm Concrete unit. Sandy colour to match existing (Rigid Base).  
100mm min. Reinforced Concrete Slab on Compacted Base Course & Subgrade  
30mm Steintec Tuffbed Bedding Mortar - Steintec Tuffgrout Jointing Mortar



### P11 Hoggin

75mm Thick layer of compacted bound aggregate paving



### P12 Timber Deck

Sustainably sourced hardwood timber to match existing. Anti-slip treatment.

## D1 Paving Finishes



### P15 Heritage Mats

'Black crystal granite' 40mm thick flagstone with sawn finish to all sides.

Select sandblasted text 3mm deep. Text and Content varies. Text to be provided by QLDC Heritage

# D1 Paving Finishes

**P01 - Stone Paving - shared surface**



**Light grey stone module\_**

Granite 342 'Light Grey' (or similar approved) saw cut with brushed flame finished wearing surface. Arris to exposed leading edges. (Finish subject to slip testing)

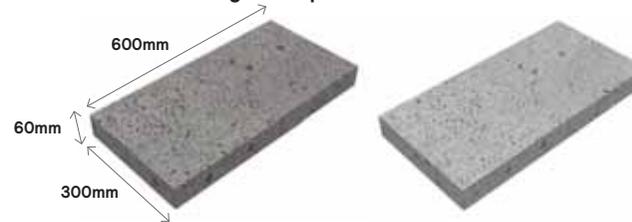
**Mid grey stone module\_**

Granite 654 'Mid Grey' (or similar approved) saw cut with brushed flamed finished wearing surface. Arris to exposed leading edges. (Finish subject to slip testing)

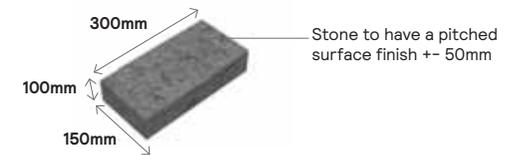
**Dark grey stone module\_**

Type B 'Dark Grey' Basalt (or similar approved) saw cut with brushed flamed finished wearing surface. Arris to exposed leading edges. (Finish subject to slip testing)

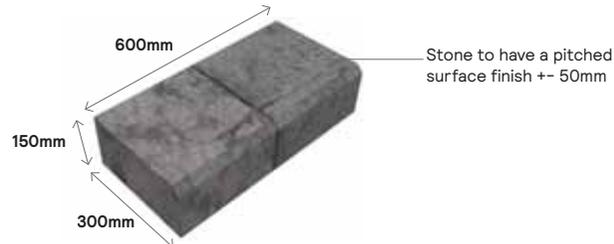
**P02 - Stone Paving - footpath**



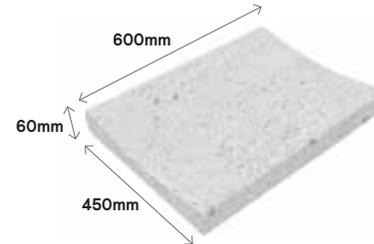
**P07 - Stone delineator strip**



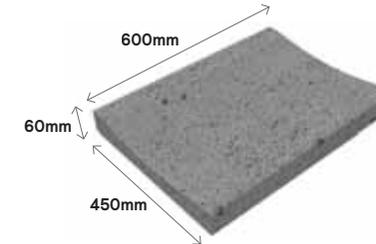
**K01 - Stone kerb**

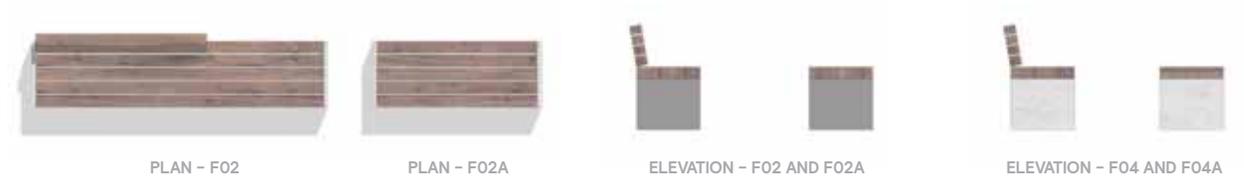


**K03 - Concrete Dish Channel**



**K04 - Stone Dish Channel**





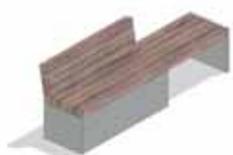
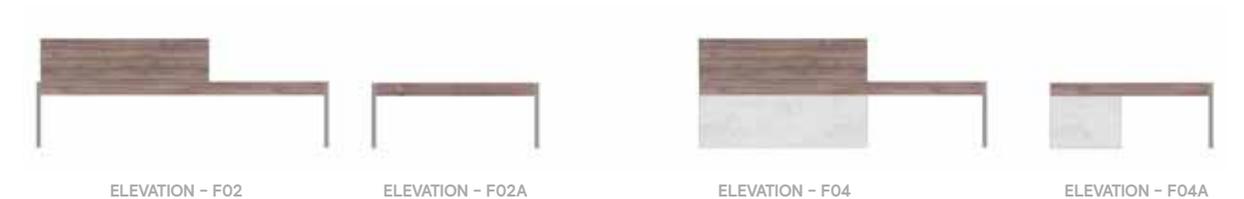
## D2 Street Furniture Seating – Benches

### Outline Specification

Select Grade Hardwood Timber Slats with Natural oil Finish. Solid dark stone block, honed finish with graffiti guard.

Select Metal Frame – Select Grade Hardwood Timber Slats with Natural oil Finish. Surface or Sub-surface mounted.

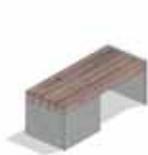
Precast reinforced concrete, light sandblast finish with concrete sealer / graffiti guard. Surface or subsurface mounted (Concrete base only on F01/A, F03/A, F04/A).



F01

Seat Type 1 – Historic Core

Timber bench with backrest.  
4000mm length x 450mm  
width x 450mm high.



F01A

Seat Type 1A – Historic Core

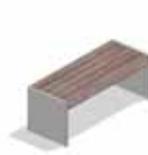
Timber bench with backrest.  
1200mm l x 450mm w x 450mm h.



F02

Seat Type 2 – Town Centre

Timber bench with backrest.  
4000mm length x 450mm  
width x 450mm high.



F02A

Seat Type 2A – Town Centre

Timber bench with backrest.  
1200mm l x 450mm w x 450mm h.



F03

Seat Type 3 – Lakefront

Timber bench with backrest.  
4000mm length x 450mm  
width x 450mm high.



F03A

Seat Type 3A – Lakefront

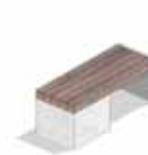
Timber bench with backrest.  
1200mm l x 450mm w x 450mm h.



F04

Seat Type 4 – Lakeview

Timber bench with backrest.  
4000mm length x 450mm width  
x 450mm high.



F04A

Seat Type 4A – Lakeview

Timber bench with backrest.  
1200mm l x 450mm w x 450mm h.

## D2 Street Furniture Seating Arrangement



**Bench Pair**  
2 x F01A Bench



**Seat and Bench**  
F01 Seat and F01A Bench



**Small 'L'**  
F01 Seat and F01A Bench



**Large 'L'**  
F01 Seat and 2 x F01A Bench



**'U'**  
F01 Seat and 2 x F01A Bench

## D2 Street Furniture Seating – Stools

F 0 5

### Seat Type 5 – Stools

Small concrete stools.  
400mm d x 400mm h x 400mm w.

Precast reinforced concrete with varying  
black oxide additive. Light sandblast finish  
with select concrete sealer / graffiti  
guard. Surface or sub-surface mounted.



5 x F05 UNITS



3 x F05 UNITS



2 x F05 UNITS

PLAN



ELEVATION



## D2 Street Furniture Lakefront Seating

F06A



**Seat Type 6A - Timber lounger Small**

Timber lakefront lounger  
1500mm w x 1500mm l x 450-950mm h.

Select Grade Hardwood Timber Slats with Natural oil Finish.

Select Metal Frame - Select Grade Hardwood Timber Slats with Natural oil Finish. Surface or Sub-surface mounted.

F06B



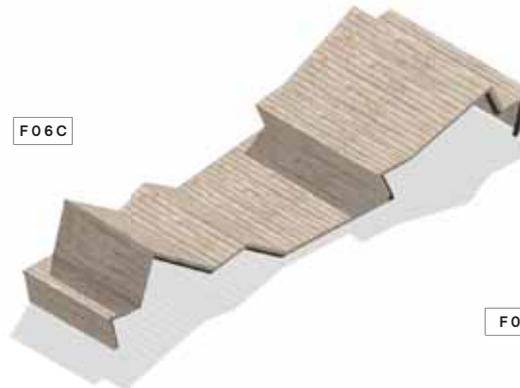
**Seat Type 6B - Timber lounger Medium**

Timber lakefront lounger  
1500mm w x 4000mm l x 450-950mm h.

Select Grade Hardwood Timber Slats with Natural oil Finish.

Select Metal Frame - Select Grade Hardwood Timber Slats with Natural oil Finish. Surface or Sub-surface mounted.

F06C



**Seat Type 6C - Timber lounger Large**

Timber lakefront lounger  
1500mm w x 6500mm l x 450-950mm h.

Select Grade Hardwood Timber Slats with Natural oil Finish.

Select Metal Frame - Select Grade Hardwood Timber Slats with Natural oil Finish. Surface or Sub-surface mounted.

F07

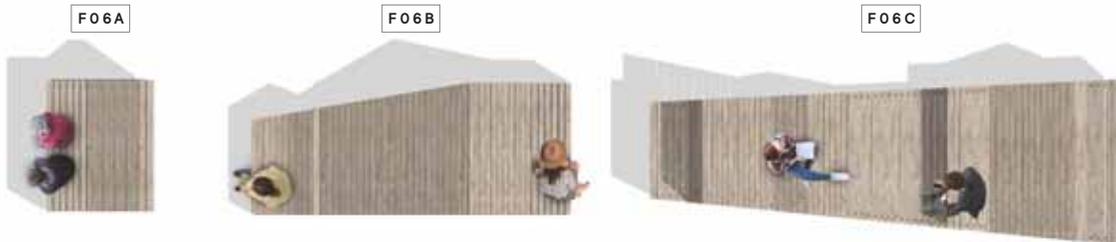


**Seat Type 7 - Timber bench**

Solid Timber Lakefront Bench  
450mm w x 3000mm l x 450mm h.

Select Grade Hardwood Timber element.

## D2 Street Furniture Lakefront Timber lounger

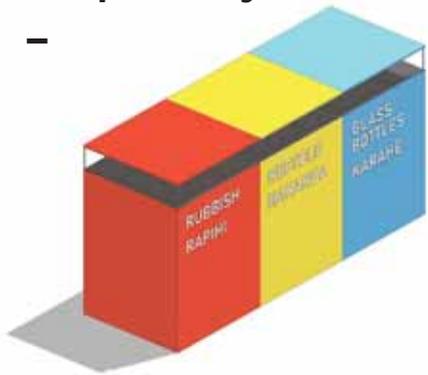


PLAN



ELEVATION

## D3 Street Furniture Proprietary



F10

### Triple Bin

Standard Queenstown Rubbish/Recycling/  
Glass Enclosure. Fits 3 x 240L Wheelie bin.  
Powder coated mild steel body and lid. Surface  
mounted, locking door. Wasteminz colours,  
logos and multi-lingual.

These bins are currently being trialled by QLDC  
and have received good feedback to date.



F11

### Bike rack

BR\_02 - Supplier Walkspace.  
Bead blasted stainless  
steel 304 pipe. 50mm diam  
x 1000mm w x 900mm h.  
Surface or subsurface  
mounted.

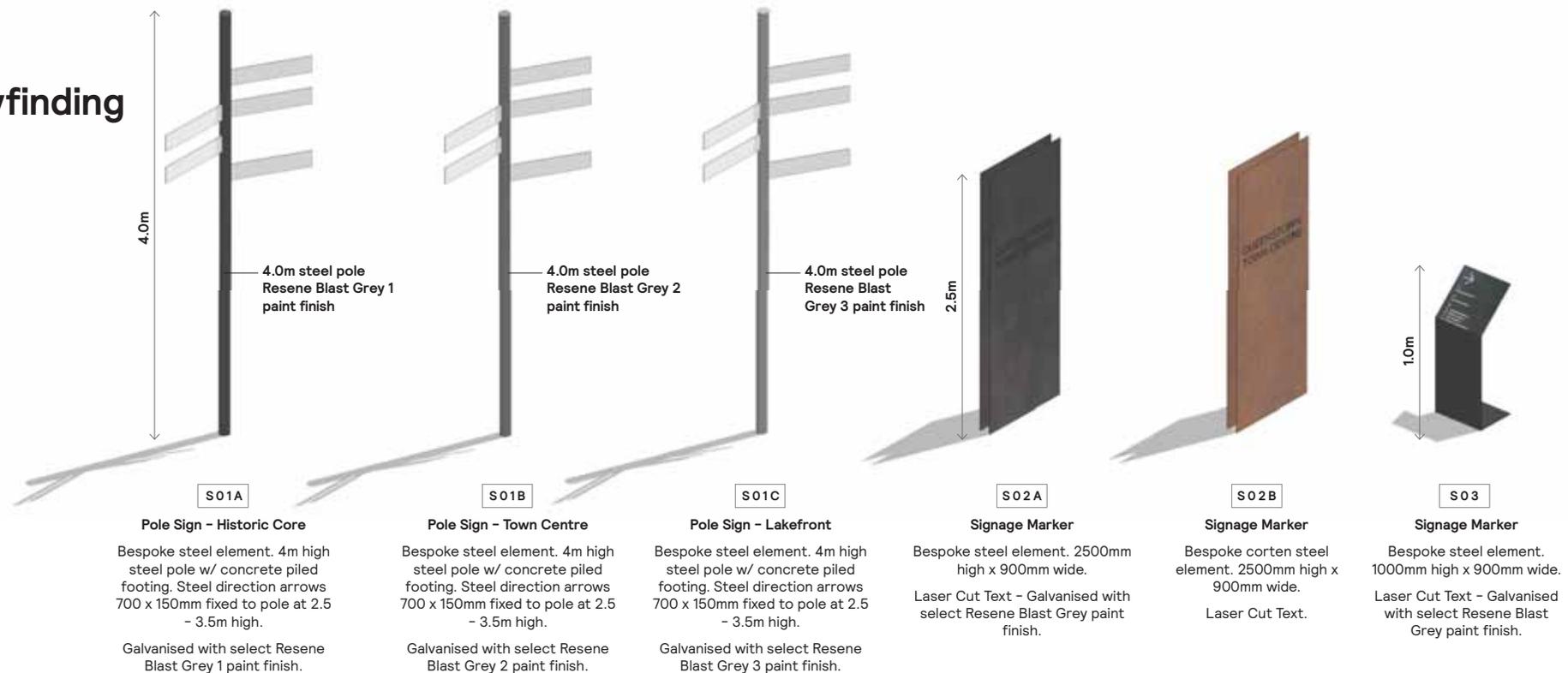


F12

### Drinking Fountain

DF02 - Supplier Walkspace.  
316 Stainless steel fabrication,  
Enware plumbing hardware.  
575mm d x 150mm w x 775mm h.  
Wheelchair accessible. Water bottle  
refill and dog bowl options. Surface  
or subsurface mounting.

## D4 Signage & Wayfinding



## D5 Street Trees

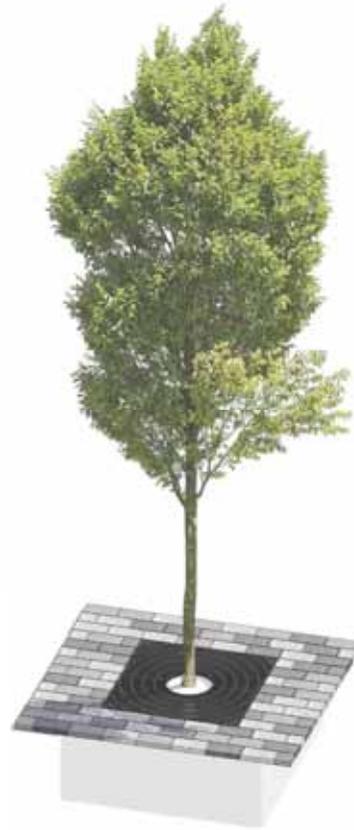
### T01A Tree grate A - Black steel

Shot blast, cast aluminium with 304 S/S Paving Border. 1050mm w x 1050mm h x 35mm. Powder coat select Resene Blast Grey 1 paint finish.



### T01B Tree grate B - Corten

Custom corten steel, laser cut detail, with 304 S/S Paving Border. 1050mm w x 1050mm h x 35mm.



T01

#### Street tree and tree grate

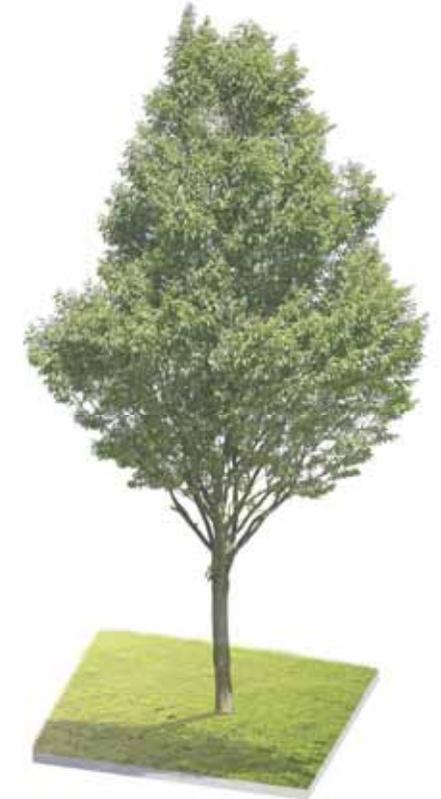
New street tree and tree pit with steel grate



T02

#### Street tree and hoggin

New street tree and tree pit with hoggin surface finish, steel edge detail



T03

#### Street tree and lawn

New street tree and lawn

## D6 Lighting Strategy

The Street lighting of the Town Centre Arterials, Shotover and Stanley Street will be to a V3 Category. This will be achieved using Light Types L01, L02, L03 and L04.

Camp Street lighting will be to a P8 Category and achieved using both L01 and L01A.

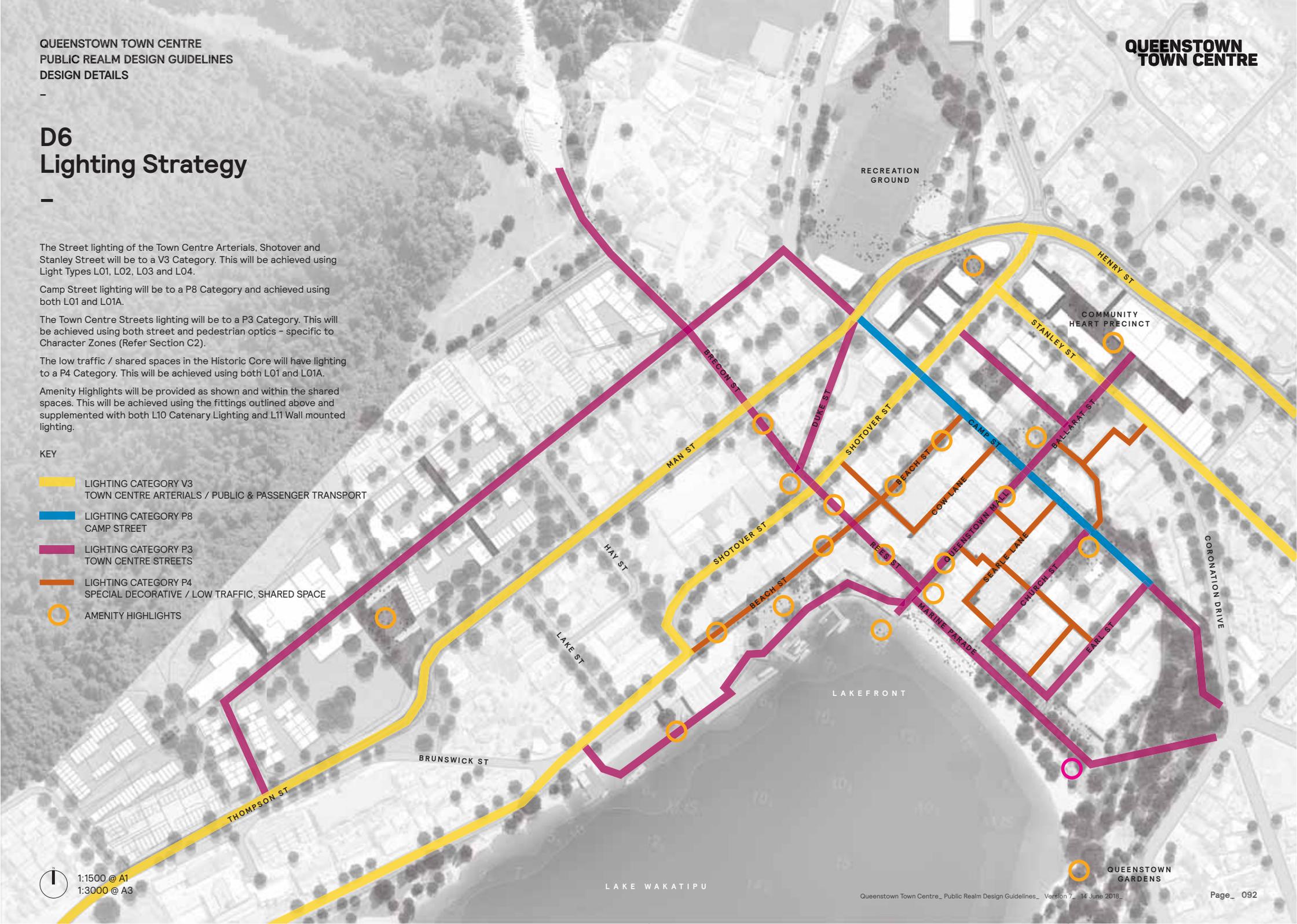
The Town Centre Streets lighting will be to a P3 Category. This will be achieved using both street and pedestrian optics – specific to Character Zones (Refer Section C2).

The low traffic / shared spaces in the Historic Core will have lighting to a P4 Category. This will be achieved using both L01 and L01A.

Amenity Highlights will be provided as shown and within the shared spaces. This will be achieved using the fittings outlined above and supplemented with both L10 Catenary Lighting and L11 Wall mounted lighting.

### KEY

-  LIGHTING CATEGORY V3  
TOWN CENTRE ARTERIALS / PUBLIC & PASSENGER TRANSPORT
-  LIGHTING CATEGORY P8  
CAMP STREET
-  LIGHTING CATEGORY P3  
TOWN CENTRE STREETS
-  LIGHTING CATEGORY P4  
SPECIAL DECORATIVE / LOW TRAFFIC, SHARED SPACE
-  AMENITY HIGHLIGHTS



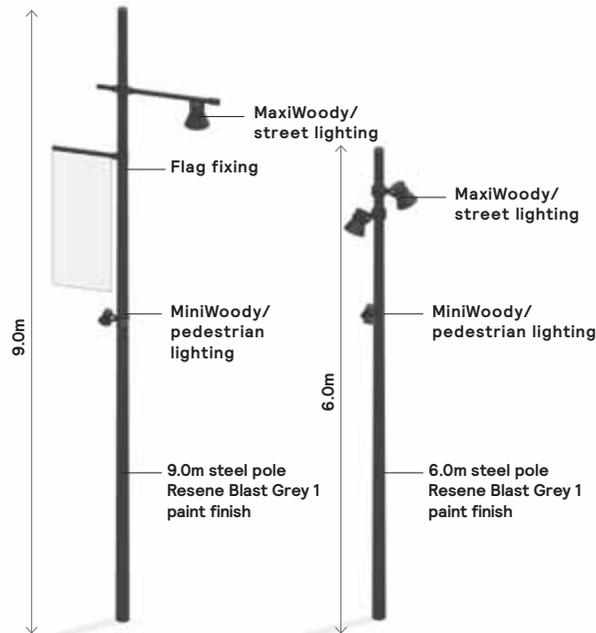
# D6 Lighting



MaxiWoody/  
street/ area lighting



MiniWoody/  
pedestrian lighting



L01

**Historic Core - Light Type 1**

9.0m high steel pole w/ concrete piled footing. Street lighting mounted at 8m. Pedestrian lighting mounted at 4m.

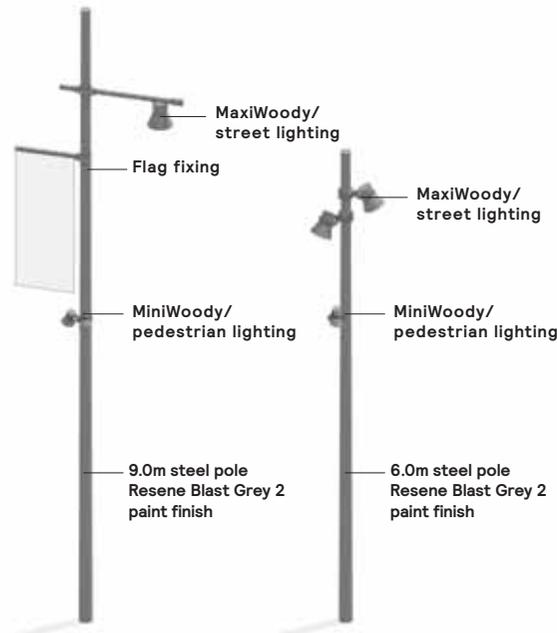
iGuzzini Woody EH42 or EH44 3000k street optic or (special 2700k) warm white. Arm 5987 or custom made. Mini woody BU87 3000k or (special 2700k) warm white

L01A

**Historic Core - Light Type 1A**

6.0m high steel pole w/ concrete piled footing. Street lighting mounted at 5.5m. Pedestrian lighting mounted at 4m.

iGuzzini MaxiWoody Compact BU97 or BU99 3000k or (special 2700k) warm white. Mini woody BU87 3000k or (special 2700k) warm white



L02

**Town Centre - Light Type 2**

9.0m high steel pole w/ concrete piled footing. Street lighting mounted at 8m. Pedestrian lighting mounted at 4m.

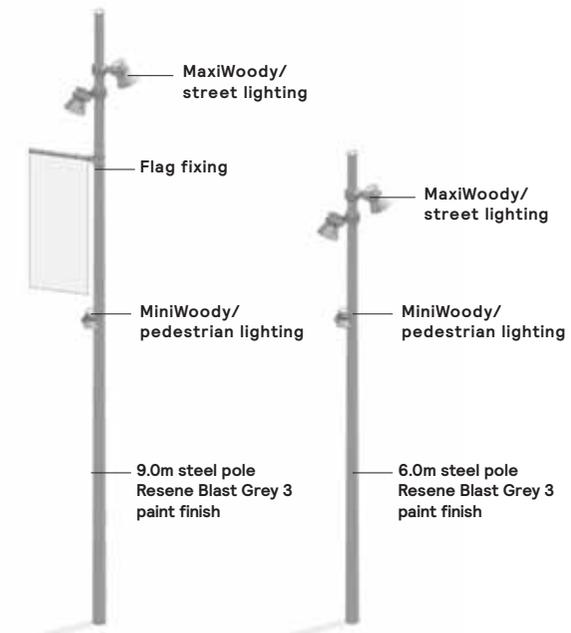
iGuzzini Woody EH42 or EH44 3000k street optic Arm 5987 or custom made. Mini woody BU87 3000k

L02A

**Town Centre - Light Type 2A**

6.0m high steel pole w/ concrete piled footing. Street lighting mounted at 5.5m. Pedestrian lighting mounted at 4m.

iGuzzini MaxiWoody Compact BU97 or BU99 3000k. Mini woody BU87 3000k



L03

**Lakefront - Light Type 3**

9.0m high steel pole w/ concrete piled footing. Street lighting mounted at 8m. Pedestrian lighting mounted at 4m

iGuzzini MaxiWoody Compact BU97 or BU99 3000k Mini woody BU87 3000k

L03A

**Lakefront - Light Type 3A**

6.0m high steel pole w/ concrete piled footing. Street lighting mounted at 5.5m. Pedestrian lighting mounted at 4m.

iGuzzini MaxiWoody Compact BU97 or BU99 3000k. Mini woody BU87 3000k

# D6 Lighting



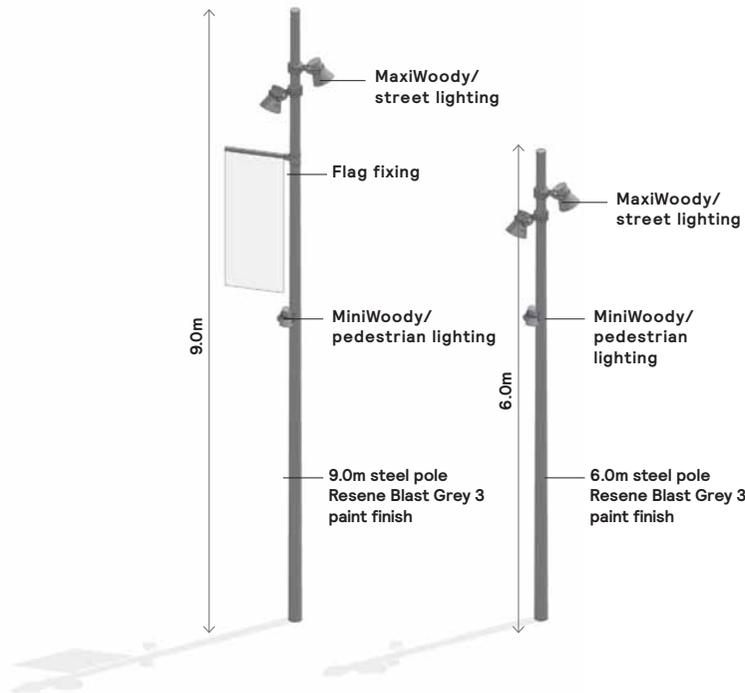
MaxiWoody/  
street/ area lighting



MiniWoody/  
pedestrian lighting



iRoll  
catenary / wall lighting



L04

**Lakeview - Light Type 4**

8.0m high steel pole w/  
concrete piled footing.  
Street lighting mounted  
at 7m. Pedestrian lighting  
mounted at 4m.

iGuzzini MaxiWoody Compact  
BU97 or BU99 3000k  
Mini woody BU87 3000k

L04A

**Lakeview - Light Type 4A**

6.0m high steel pole w/  
concrete piled footing.  
Street lighting mounted at  
5.5m. Pedestrian lighting  
mounted at 4m.

iGuzzini MaxiWoody Compact  
BU97 or BU99 3000k  
Mini woody BU87 3000k



L10

**Catenary - Light Type 10**

Catenary Lighting  
iGuzzini iroll65 Bi16 or Bi18 3000k  
special catenary mount bracket.

Ronstan SS Metric cabling.  
ACS2-M08, turnbuckle both  
ends. Electrical cable with black  
UV stable sheath.



L11

**Wall mounted - Light Type 11**

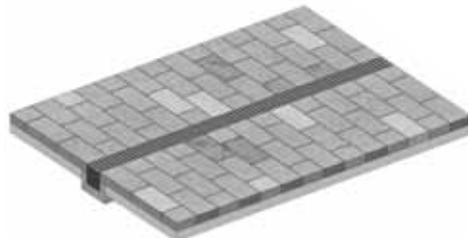
Wall mounted Lighting  
iGuzzini iroll65 Bi24 3000k  
wide flood wall mount.

## D7 Drainage Infrastructure



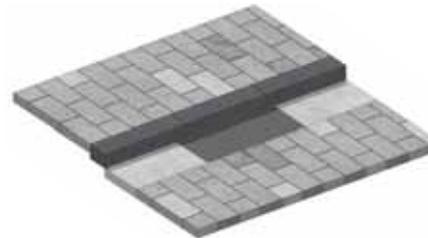
D 01

**Slot Drain**  
ACO Slot Drain



D 02

**Strip Drain**  
ACO Strip Drain



D 03

**Cess Pitt Cover**  
740mm L x 400mm W.  
Cast Iron



V 01 V 02

**Garden Bed / Rain garden**  
Standard garden bed / rain  
garden with hit or miss kerb.  
Native planting



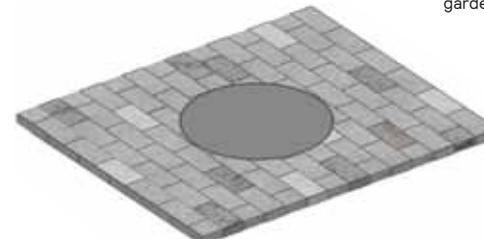
D 04

**Double Cess Pitt Cover**  
2 x 740mm L x 400mm W.  
Cast Iron



D 05

**Wundercover**  
Lid cover with paving infill.  
Dependant on agreement with  
local service authorities.



D 06

**Manhole Lid**  
Standard Manhole Lid.  
Cast Iron



D 07

**Standard Utility Covers**  
SS Finish