



Swan and Canning Rivers Management Act 2006

PART 5

DETERMINATION OF DEVELOPMENT APPLICATION

FILE NUMBER : 2015-4004
APPLICANT : City of South Perth
APPLICANT'S ADDRESS : Attn: Geoff Glass, Chief Executive Officer
City of South Perth
Cnr Sandgate St and South Tce
SOUTH PERTH WA 6151
LANDOWNER : City of South Perth and Western Australian Planning
Commission
LAND DESCRIPTION : Lots 920 and 921 on Plan 21483 (Reserve 33804), Mill
Point Road and Mill Point Close, South Perth
DEVELOPMENT : Revitalisation of the South Perth Foreshore, Mill Point Road
VALID FORM 1 RECEIVED : 18 December 2015
DETERMINATION : **APPROVAL WITH CONDITIONS**

The application to commence development in accordance with the information received on 18 December 2015 is APPROVED subject to the following conditions:

Prior to the commencement of works

1. Approval to implement this decision is valid for two (2) years from the date of approval. If substantial on-site works have not commenced within this period, a new approval will be required before commencing or completing the development.

Prior to the commencement of works

2. The applicant shall notify the Department of Parks and Wildlife in writing not less than fourteen (14) days prior to the commencement of works.
3. Prior to commencement of works the applicant shall submit, and have approved, a Construction Environmental Management Plan which addresses the potential environmental impacts during construction activities at the site, including management of acid sulphate soils, if required (see **Advice Note 2**).
4. Prior to commencement of works an Acid Sulphate Soils Management Plan and a Dewatering Management Plan shall be prepared to the satisfaction of the Department of Parks and Wildlife on advice from the Department of Environment Regulation.
5. Prior to commencement of development, the applicant shall provide a plan detailing the colours, building materials and finishes for the development, to the satisfaction of the Department of Parks and Wildlife (see **Advice Note 5**).

During works

6. The approved Construction Environmental Management Plan and Acid Sulphate Soils Management Plan and Dewatering Management Plan required under **Conditions 3 and 4**, respectively, shall be implemented.
7. All incidents of pollution or spills within the Swan Canning Development Control Area shall be reported immediately to the Department of Parks and Wildlife (see **Advice Note 3**).
8. Prior to any fill and/or top soil being brought onto the site, the applicant shall ensure that all material is certified clean (as defined by the Department of Environment Regulation's *Landfill Waste Classification and Waste Definitions, 1996 (As amended December 2009)*), uncontaminated, and free from rubble, weeds and disease.
9. No contaminants, rubbish or other deleterious matter shall be allowed to enter the river as a result of the works.
10. Public access along the foreshore and pathway shall be maintained, unless closure is necessary for safety purposes and an alternative route provided, for the duration of the works to the satisfaction of the Department of Parks and Wildlife.
11. The applicant shall ensure that signs warning the public of the works, located close to the work sites and in a location easily visible to oncoming pedestrians, cyclists and fishers are in place for the duration of the works.

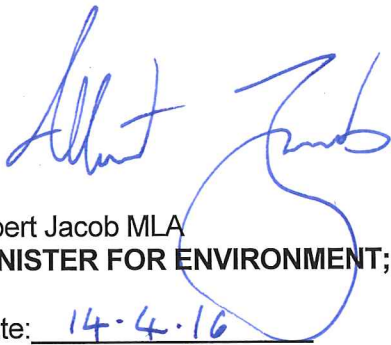
Post works

12. All waste materials, equipment and machinery shall be removed on completion of works and the site cleaned up to the satisfaction of the Department of Parks and Wildlife.

ADVICE TO APPLICANT

1. Notification of commencement of works and all plans required to be submitted to the Department of Parks and Wildlife can be emailed to rivers.planning@dpaw.wa.gov.au.
2. The Construction Environmental Management Plan shall be submitted by the contractor and include, but not be limited to the following aspects:
 - program of works and construction schedule;
 - construction area layout plan including location of laydown areas, stockpiles, fencing, refuelling and chemical storage;
 - work vehicle access and parking areas;
 - location of barriers and signage to notify public of detours for dual use pathways;
 - identification and protection of trees and vegetation to be retained;
 - waste removal schedule showing how rubble, materials and rubbish will be prevented from entering the river;
 - location of specific erosion and sediment controls to be applied;
 - management of stormwater during construction;
 - controls to be applied to meet the noise and dust suppression requirements;
 - hours of operation, timeframes and responsibility for tasks identified;
 - contact details of contractor and superintendent;
 - site clean-up, waste removal and reinstatement; and
 - management of complaints and incidents.

3. In regard to Condition 6, in case of pollution events Department of Parks and Wildlife can be contacted on 9278 0900 or a/h 0419 192 845.
4. The applicant is advised that it is an offence under the Swan and Canning Rivers Management Regulations 2007 to destroy, pull up, cut back or injure any tree, shrub or perennial plant that is on land within the Development Control Area, except with the approval of the Department of Parks and Wildlife or unless otherwise exempt by the Regulations. Should any clearing be required a clearing permit application would also need to be lodged with the Department of Environment Regulation.
5. The applicant is advised that the selected building materials and colour scheme for the development should be of a low reflective standard, and harmonise with the river environment.



Albert Jacob MLA
MINISTER FOR ENVIRONMENT; HERITAGE

Date: 14-4-16

DEPARTMENT OF PARKS AND WILDLIFE REPORT

PROPOSAL	:	Revitalisation of the South Perth Foreshore, Mill Point Road
COST	:	\$2,500,000
LOCATION	:	Lots 920 and 921 on Plan 21483 (Reserve 33804), Mill Point Road and Mill Point Close, South Perth
APPLICANT	:	City of South Perth
OWNER	:	City of South Perth and Western Australian Planning Commission
LOCAL GOVERNMENT	:	City of South Perth
MRS ZONE	:	Parks and Recreation
LG ZONE	:	Parks and Recreation, Town Planning Scheme 6
DECISION TYPE	:	Part 5, <i>Swan and Canning Rivers Management Act 2006</i> – Ministerial Determination
ATTACHMENTS	:	1. Location map 2. Site layout 3. Aerial image (2014) 4. Carpark design 5. Artist impression 6. Technical drawings
RECOMMENDATION	:	APPROVAL WITH CONDITIONS

REPORT

1.0 INTRODUCTION

- 1.1 The Department of Parks and Wildlife has received an application from the City of South Perth (the City) to implement Node 5 of the South Perth Foreshore Strategy and Management Plan.
- 1.2 The CEO of Parks and Wildlife has prepared the report in accordance with Section 75 of the *Swan and Canning Rivers Management Act 2006 (SCRM Act 2006)*.
- 1.3 The proposed works are located on Lots 920 and 921 on Plan 21483 (Reserve 33804), Mill Point Road and Mill Point Close, South Perth, and reserved for Parks and Recreation (**Attachment 1**).
- 1.4 The City proposes to undertake the work in three stages (Stage 1 is the subject of this assessment). Works associated with Stage 1 (**Attachment 2**), includes:
 - revegetating the area surrounding Millers Pool;
 - a boardwalk through the samphire flats on the edge of the pool;
 - construction of a small jetty within the pool;

- development of a limestone spalling canal leading from the Old Mill to Millers Pool;
 - improvements to landscaping and stormwater management, including the development of a swale and bubble-up pit to direct drainage from the carpark to Millers Pool;
 - introduction of traffic management along Mill Point Road;
 - carpark redesign to reduce the hardstand area; and
 - improvements to the cycle, pedestrian and picnic amenities along the foreshore.
- 1.5 Future stages include the development of a single storey café/restaurant at the site (Stage 2) and landscaping associated with the Old Mill (Stage 3). The timing of these subsequent stages are currently unknown and will require separate approval when the details are confirmed. It should be noted that a separate permit application has been approved for the installation of headlands and beaches along the foreshore.
- 1.6 The proposed revitalisation works is to occur on land within the Swan Canning Development Control Area (**Attachment 3**) and therefore the proposed works require an approval under Part 5 of the *Swan and Canning Rivers Management Act 2006*.
- 1.7 The community benefit will include the creation of a cultural and heritage hub, with improvements to the beach, traffic management, pedestrian and cycle routes and the ecology and amenities of Millers Pool.

2.0 CONSULTATIONS

Department of Environment Regulation – Contaminated Sites Branch

- 2.1 The Contaminated Sites Branch noted that dewatering will be required for this work and soils between 1 to 4.5 metres below ground level (mbgl) have been identified as having net acidity levels above Department of Environment Regulation's (DER) criteria. Therefore, DER recommends the City develop an Acid Sulfate Soil and Dewatering Management Plan (ASSDMP), in consultation with DER, prior to the commencement of any ground disturbing works.

City of South Perth

- 2.2 As the applicant, the City is supportive of the proposed development.
- 2.3 In further consultation with the City, it was indicated that the carpark layout has been redesigned to reduce the hardstand area by 30 per cent (reduction of 2272 m²), while gaining a further nine new car bays (**Attachment 4**). The new design provides additional improvements to stormwater drainage and overland flow within the site, moving water away from the Swan River and into Millers Pool.
- 2.4 Beneficial outcomes to the community associated with the proposal include traffic management and speed reduction around Mill Point Road and improved community access to both sides of the Narrows, as the revitalisation work will connect with civil work being undertaken to the west of the site. Furthermore, the City indicated that the ecological character and water quality in Millers Pool will be improved by creating marsh flats (consisting of samphire) surrounding the pool.

This community will aid the introduction of oxygen into the soil and allow aerobic micro-organisms to survive and carry out biological functions that support other species within the pool.

2.5 As part of the City's stakeholder engagement process, a community information session was held on 18 August 2015. The community indicated their support for the proposal. The key issues raised at the forum included:

- a) support for the improvements to public amenities, including BBQ facilities, seating, food vans, shade and night-time lighting; and
- b) managing potential public safety issues, including ensuring the area surrounding Millers Pool edge is safe for children, and speed management is implemented in the area.

Swan River Trust

2.6 In accordance with section 75(3A) of the SCRM Act 2006, the Swan River Trust considered the draft report at its meeting on 9 February 2016. The Trust resolved to recommend its approval of the report to the CEO of Department of Parks and Wildlife.

3.0 PUBLIC COMMENT – SUBMISSIONS ON DRAFT REPORT

3.1 In accordance with the requirements of Part 5 of the SCRM Act 2006 a copy of the draft report and proposed recommendation has been provided to the applicant and the local government. A copy was also published on the department's website for a period of two (2) weeks between 17 February 2016 and 2 March 2016 with an invitation for public submissions.

3.2 No submissions were received during the public comment period.

4.0 RELEVANT POLICIES AND PLANS

- ◆ *State Planning Policy 2.10 – Swan-Canning River System*
- ◆ *SRT/EA1 – Conservation, Land Use and Landscape Preservation*
- ◆ *SRT/D2 - Foreshore Reserves*
- ◆ *SRT/D4 - Stormwater Management*
- ◆ *SRT/D25 - Boardwalk*
- ◆ *SRT/D27 - Car Parking and Access*

5.0 ENVIRONMENTAL AND PLANNING CONSIDERATIONS

- ◆ Acid Sulphate Soils and Soil Contamination
- ◆ Dewatering
- ◆ Car Parking
- ◆ Vegetation
- ◆ Stormwater Management
- ◆ Visual Amenity
- ◆ Public Access and Safety
- ◆ Foreshore Protection

6.0 BACKGROUND

6.1 The City proposes to implement work associated with the Mill Point area (Node 5) of the South Perth Foreshore Strategy and Management Plan. Work associated

- with Node 5 includes the revitalisation of land surrounding the Old Mill, Millers Cottage and Millers Pool, which will be developed to represent a cultural and heritage hub, with improvements to the beach, pedestrian and cycle routes and the ecology and amenities of Millers Pool (**Attachment 5**).
- 6.2 The City's initial conceptual design included an inlet connecting Millers Pool with the Swan River. This design would have required approximately 32,000 m³ of soil to be excavated and managed.
 - 6.3 This initial concept was unachievable due to the City's hydrodynamic modelling indicating poor flushing at the site and prohibitive costs associated with the work.
 - 6.4 The design has subsequently been scaled back to focus on maintaining the current layout of Millers Pool and revitalising the land surrounding it. This has reduced the volume of soil to be excavated to approximately 3000 m³ for the main landscape works and 400 m³ for the limestone walls.
 - 6.5 The City engaged MDW Environmental to undertake site investigations for acid sulfate soils (ASS), groundwater quality and waste classification. The survey work was based on the City's initial design that proposed an inlet at the site.
 - 6.6 The City has also engaged Ecoscape and MP Rogers & Associates to undertake landscape design. Landscaping will incorporate informal soft edges for access, fringing vegetation for habitat, and reintroduction of native vegetation (including areas of native Samphire) around Millers Pool.
 - 6.7 Technical drawings of the site layout have been developed (**Attachment 6**), however as the tender for undertaking construction at the site has not yet been awarded, specific details regarding the construction methodology have not been determined.

7.0 DISCUSSION

Acid Sulphate Soils and Soil Contamination

- 7.1 *State Planning Policy 2.10, Swan-Canning River System (SPP 2.10)* states that any development in the vicinity of the river should identify the risks of ASS and measures taken to minimise possible risks associated with its disturbance.
- 7.2 The proposed work will be undertaken within a high to moderate ASS disturbance risk area. MDW Environmental undertook a comprehensive ASS, groundwater and waste classification investigation of the site and identified ASS occurring between 1 mbgl and 4mbgl. A clean confining layer is typical of reclaimed land as the top layer of sediment was imported when the site was initially developed.
- 7.3 Although the site is not listed as a contaminated site under the *Contaminated Sites Act 2003*, MDW Environmental undertook a survey of the soil chemistry as part of the ASS survey. The analysis of the results identified exceedances in a number of heavy metals within the soil profile, including elevated levels of arsenic, molybdenum, nickel and lead. Due to these levels further leachate testing was performed and it was found that the soil would be below criteria required for disposal in Class 1 Infill site.
- 7.4 Due to the presence of ASS, the City has modified its works to minimise excavation below 1 mbgl. However, there are still isolated spots where excavation will intercept ASS, including:
 - Construction of approximately 15 m of edge walls immediately adjacent to Millers Pool (dewatering will also be required);

- Removal of existing drainage pipes no longer required;
 - Re-laying of existing and placement of new drainage sites; and
 - Placement of new bubble-up pit.
- 7.5 Current calculations indicate that approximately 3400 m³ of soil will be disturbed during the revitalisation works.
- 7.6 DER has advised that due to the disturbance of problematic soils and dewatering at the site, an ASS and Dewater Management Plan (ASSDMP) will be required. The management measures for ASS and contaminated soils will be detailed in the ASSDMP. A condition will require the City to develop the ASSDMP before works begin, in consultation with DER, and to the satisfaction of the Department of Parks and Wildlife.

Dewatering

- 7.7 SRT/DE6 - *Dewatering* indicates that dewatering activities should be carried out in a manner that protect the river from direct and indirect impacts, as well as promote the use of best practice for all activities.
- 7.8 Dewatering will be required to construct footings for the limestone wall along Millers Pool. Based on the estimated total construction timeframe of seven weeks, a total of 75,500 kilolitres of groundwater is anticipated to be abstracted during the proposed works.
- 7.9 The City's consultants have advised that the most suitable option for disposal of the tailwater is infiltration (predicted maximum dewatering rate is 22 L/s). It is proposed that tailwater is passed through a lined settlement trench to enable the settlement and collection of suspended solids and particulate metals prior to discharge into the infiltration trench. No direct discharge to the river is proposed.
- 7.10 A condition will require the City to develop the ASSDMP before works begin in consultation with DER, and to the satisfaction of the Department of Parks and Wildlife.

Car Parking

- 7.11 SRT/D27 - *Car Parking and Access* states that parking areas should be setback no less than 30 metres from the River Reserve. The location of the proposed carpark corresponds to an existing carpark, which was created in the 1970s when the freeway ramp was modified. Although the City considered setting the proposed carpark further back from the river, the levels of existing road and carpark connections limit the opportunity for this. The low lying area behind the carpark is best utilised for stormwater management and is therefore not a suitable carpark location.
- 7.12 However, a number of improvements to the existing carpark design have been proposed by the City, including reducing the hardstand area by 30 per cent, and improving stormwater management at the site (see stormwater management). The reduction of the hardstand area is a positive outcome for the community and is supported.

Stormwater Management

- 7.13 SRT/D4 - *Stormwater Management* indicates that a proposal should include a demonstrable commitment to improve the quality of water entering the river system from a development site and the surrounding catchment.

- 7.14 Currently, the majority of stormwater is directed towards the carpark and Swan River, causing flooding in the low points within the carpark.
- 7.15 The City has proposed improvements to stormwater drainage at the site by directing stormwater over a planted swale that connects to Millers Pool. All stormwater that falls on the hardstand area will be diverted to a bubble up pit at the top of the overland swale. Stormwater will bubble up into the swale and flow overland prior to entering Millers Pool.
- 7.16 These measures will improve water quality of the stormwater that ultimately drains into the Swan River.

Vegetation

- 7.15 SPP 2.10 provides for the protection and re-establishment of fringing riparian vegetation as a means of stabilising river banks, providing wildlife habitat, intercepting nutrients, providing shade and improving river water quality.
- 7.16 Furthermore, SRT/EA1 – *Conservation, Land Use and Landscape Preservation* (SRT/EA1) provides for the maintenance and restoration of natural vegetation and encourages the retention and reinforcement of existing vegetation along the foreshore.
- 7.17 The City has indicated that the majority of established trees within this site will be retained. The City proposes to revegetate the site with native tree species, including planting of 66 trees consisting of a variety of *Melaleuca sp.*, Tuarts and *Gahnia trifida*. To further improve the amenity of the site, the City proposes to remove 13 exotic and juvenile trees.
- 7.18 The proposed revegetation at the site will result in a net increase of tree numbers and improvements to the ecological character of the site.
- 7.19 Protection of vegetation along the foreshore will be reinforced in our advice to the proponent.

Boardwalk

- 7.20 SRT/D4 - *Stormwater Management* indicates that boardwalks should be appropriately planned and managed in foreshore areas and ensure that they are constructed in an appropriate manner to maintain public safety and minimise environmental damage.
- 7.21 The City proposes to construct a boardwalk through the western edge Millers Pool. This area of samphire flats will be expanded with additional planting as part of the proposal.
- 7.22 This boardwalk is likely to be constructed of timber or of a fibreglass reinforced plastic product, however as the tender for undertaking construction at the site has not yet been awarded, specific details regarding the construction methodology have not been determined.
- 7.23 A condition will require the City to develop the Construction Environmental Management Plan (CEMP) prior to the commencement of works to the satisfaction of the Department of Parks and Wildlife. Advice to the City will be provided requiring the CEMP to outline the boardwalk construction methodology.

Visual Amenity

- 7.24 SRT/EA1 states that the design, materials and colour scheme of development adjacent to the waterway and foreshores should complement and protect the character and landscape setting of the river.
- 7.25 The City proposes to use limestone, as oppose to laterite, to fill the axis canal leading from the Old Mill to Millers Pool. Limestone in this location is Parks and Wildlife's preferred choice of construction material. It should be noted that the axis canal is purely a feature in the landscape and does not function as a stormwater drainage system.
- 7.26 The City has proposed that the boardwalk structure will be finished in a natural colour, such as green or brown. A condition and advice has been provided to ensure that appropriate building materials and colour scheme are selected to the satisfaction of the Parks and Wildlife.

Public Access and Safety

- 7.27 SPP2.10 states that public access to the river and its foreshores should be maintained and enhanced while protecting the river.
- 7.28 The site is an entry point for vehicles, cyclists and pedestrians exiting from the Kwinana Freeway and the Narrows Bridge dual use pathway. The area is generally in high use during peak times and management of public access is a key issues.
- 7.29 A benefit to the community will be the implementation of traffic management measures to reduce vehicle speed in the area.
- 7.30 Complicating the issue of ensuring public access and safety is the number of projects being undertaken simultaneously in the vicinity of the site. The City will be required to coordinate public access during the staging of these projects.
- 7.31 Standard conditions are proposed regarding the use of appropriate warning signs and provision of a safe alternative route for the shared pathway if required during construction.

Foreshore Protection

- 7.32 In order to ensure that all potential impacts are identified and managed appropriately, a Construction Environmental Management Plan (CEMP) can be required as a condition of approval. The CEMP shall be required to include details of protection of vegetation, management of machinery and equipment (including refuelling), public access and safety, demolition and construction methodology, waste management and spill response. The protection of the foreshore and river can be further reinforced through conditions of approval.

Conclusion

- 7.33 The proposed revitalisation of the Millers Pool foreshore will have significant benefit to the community. The proposed work will increase public use by improving the amenities, natural features and public access around Millers Pool and the Old Mill.
- 7.34 Though there are risks associated with the excavation and construction works, it is considered that these can be appropriately managed through conditions and advice notes. Long term adverse environmental impacts from the works are considered unlikely.
- 7.35 It is therefore recommended that the proposal be approved, subject to appropriate conditions and advice.

8.0 RECOMMENDATION – APPROVAL WITH CONDITIONS

That the CEO of the Department of Parks and Wildlife advises the Minister for Environment that the City of South Perth's proposal to implement Stage 1 of Node 5 of the South Perth Foreshore Strategy and Management Plan in Lots 920 and 921, Mill Point Road and Mill Point Close, South Perth, received on 6 October 2016 be approved, subject to the following conditions:

1. Approval to implement this decision is valid for two (2) years from the date of approval. If substantial on-site works have not commenced within this period, a new approval will be required before commencing or completing the development.

Prior to the commencement of works

2. The applicant shall notify the Department of Parks and Wildlife in writing not less than fourteen (14) days prior to the commencement of works.
3. Prior to commencement of works the applicant shall submit, and have approved, a Construction Environmental Management Plan which addresses the potential environmental impacts during construction activities at the site, including management of acid sulphate soils, if required (see **Advice Note 2**).
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5. Prior to commencement of development, the applicant shall provide a plan detailing the colours, building materials and finishes for the development, to the satisfaction of the Department of Parks and Wildlife (see **Advice Note 5**).

During works

6. The approved Construction Environmental Management Plan and Acid Sulphate Soils Management Plan and Dewatering Management Plan required under **Conditions 3 and 4**, respectively, shall be implemented.
7. All incidents of pollution or spills within the Swan Canning Development Control Area shall be reported immediately to the Department of Parks and Wildlife (see **Advice Note 3**).
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9. No contaminants, rubbish or other deleterious matter shall be allowed to enter the river as a result of the works.
10. Public access along the foreshore and pathway shall be maintained, unless closure is necessary for safety purposes and an alternative route provided, for the duration of the works to the satisfaction of the Department of Parks and Wildlife.


11. The applicant shall ensure that signs warning the public of the works, located close to the work sites and in a location easily visible to oncoming pedestrians, cyclists and fishers are in place for the duration of the works.

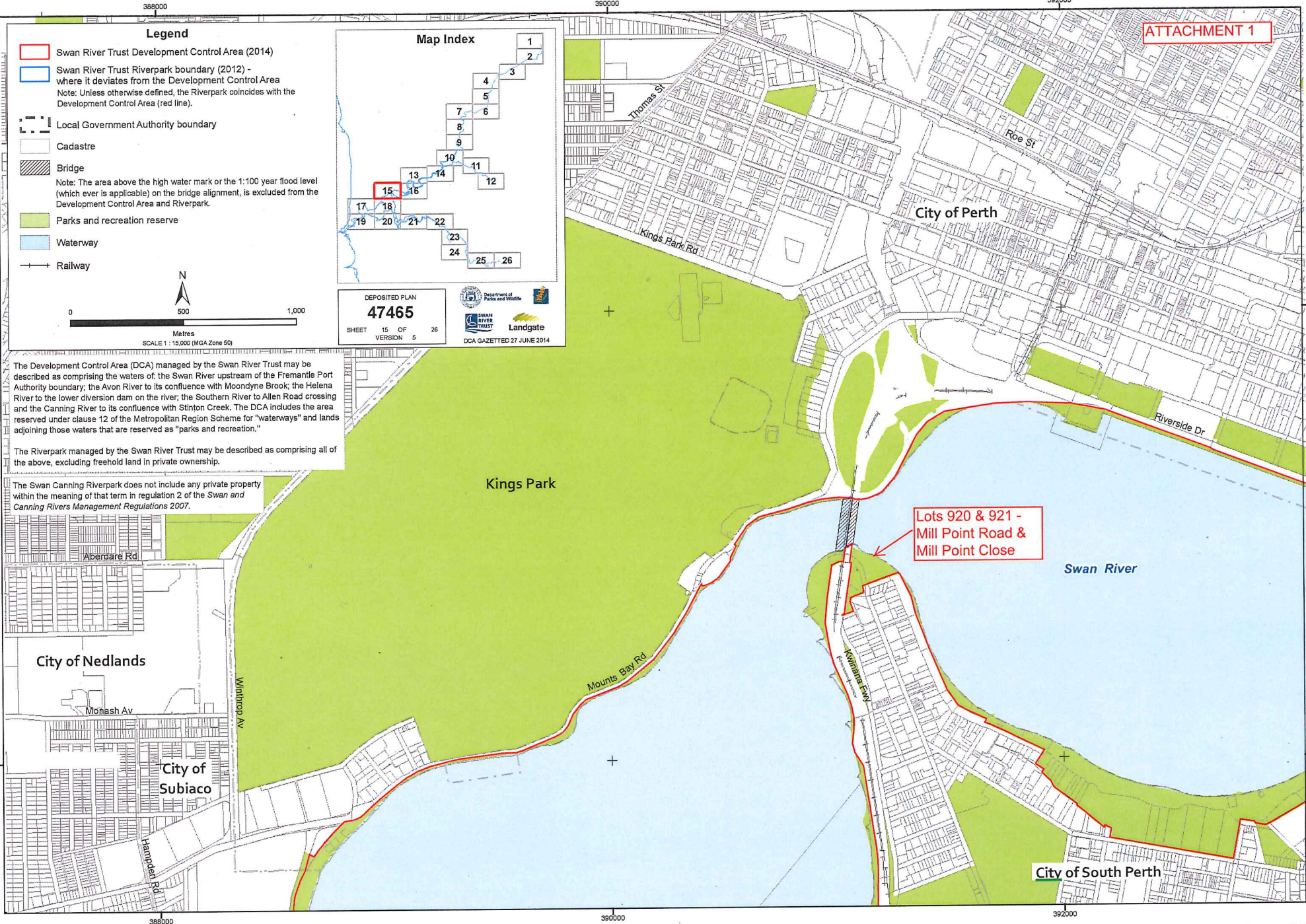
Post works

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ADVICE TO APPLICANT

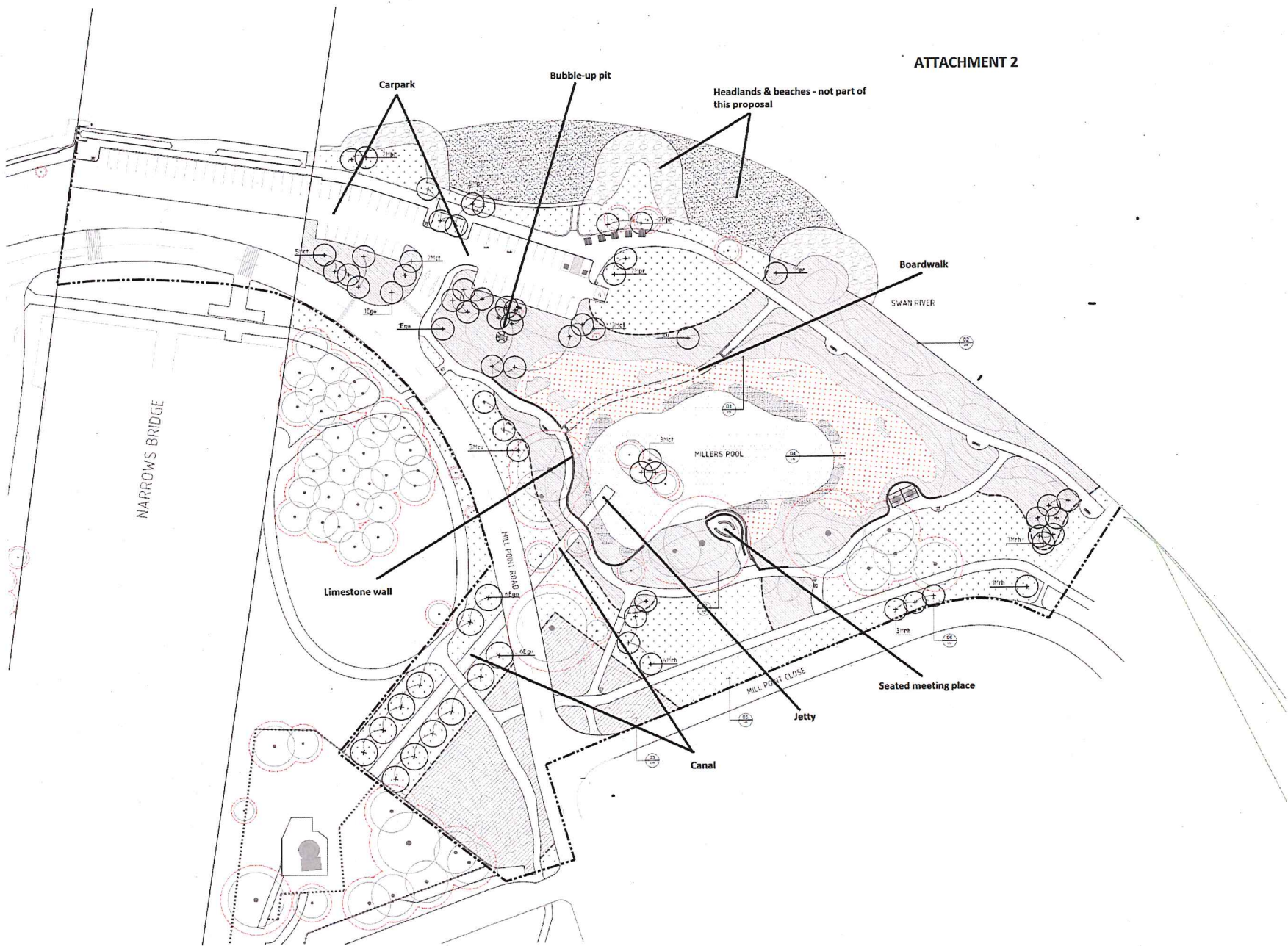
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5. The applicant is advised that the selected building materials and colour scheme for the development should be of a low reflective standard, and harmonise with the river environment.

FINAL REPORT ENDORSED	
Signed: 	Date: <u>14.3.16</u>
Jim Sharp Director General	

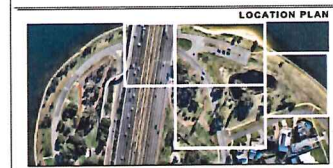


Development Control Area and Riverpark Map 15

ATTACHMENT 2



REV	DATE	ISSUE
E	07.10.2015	ISSUE FOR APPROVAL
L	12.01.2015	CLIENT REVIEW



LEGEND

- EXTENT OF WORKS
- PROPOSED TREE
- EXISTING TREE / PROTECTION ZONE SHOWN AS DASH-DOT REFER SPECIFICATION
- EXISTING INDICATIVE SANDBANK
- EXISTING VEGETATION TO REMAIN IN-PLACE. REMOVE WEEDS AND INFIL PLANT
- MASS PLANTING
- WILDFLOWER PLANTING
- FLAT MARSH
- ROLL-ON TURF
- EXISTING FENCE TO BE RETAINED
- LIMESTONE WALL
- LIMESTONE WALL BENEATH PAVING
- CONCRETE EDGE
- SHADE STRUCTURE - REFER TO L10
- FOMIC SETTING
- BENCH SEAT
- GREEN BIN AND POST TO CUSP DETAIL
- BUBBLE-UP PIT BY CIVIL
- DRINK FOUNTAIN

NOTE
 * EUCALYPTUS SPECIES TO BE PLANTED 3000MM FROM PATHS, ROADS AND CONCRETE EDGES. ALL OTHER POTTED TREES TO BE INSTALLED MIN. 1500MM FROM THE ADJACENT PAVED SURFACES.

NOTES
 ALL COMPLETED WORKS TO BE PROTECTED AND MAKE GOOD ANY DAMAGE TO EXISTING WORKS CAUSED AS PART OF THIS CONTRACT. ALL WORK WITHIN DRIP LINES OF EXISTING TREES IS TO BE DONE BY HAND.

ALL SET OUT IS TO BE DONE BY A LICENSED SURVEYOR. THESE DRAWINGS WILL BE MADE AVAILABLE ORIGINALLY TO THE SURVEYOR UPON REQUEST.

FIGURED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. JUCTS AND DETAIL DRAWINGS TAKE PRECEDENCE A NOTY SUPERINTENDENT OF ANY IDENTIFIED DISCREPANCIES PRIOR TO UNDERTAKING WORK.

WRITTEN NOTIFICATION TO THE SUPERINTENDENT IS REQUIRED WITHIN TEN (10) WORKING DAYS OF TENDER ACCEPTANCE TO CONFIRM PLANT STOCK AVAILABILITY IN SPECIFIED SIZES AND NUMBERS AND DEPOSIT PAID AFTER THIS TIME NO PLANT SUBSTITUTIONS WILL BE ACCEPTED. AFTER TEN WORKING DAYS THE SUPERINTENDENT RESERVES THE RIGHT TO CHARGE THE CONTRACTOR \$100.00/HR FOR SOURCING PLANT SUBSTITUTIONS, AND/OR REDESIGN.

WHERE MIXED PLANTING IS PROPOSED PLANT IN GROUPS OF 3, 5 OR 7 OF THE SAME SPECIES.



AUTHOR: TC CHECKED: SP PROJECT NO: 3246-14

MILLERS POOL
 CLIENT: CITY OF SOUTH PERTH

SOFTWORKS PLAN

Attachment 3



LEGEND

Local Government Authorities

Swan River Trust Development Control Area

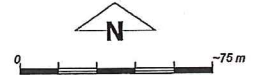
Road Centrelines

Perth Metropolitan North
15cm Orthomosaic -
Landgate 2011

Perth Metropolitan Area
North 15cm Orthomosaic -
Landgate 2014

Perth Metropolitan Central
15cm Orthomosaic -
Landgate 2011

Local Government Authorities_1



Scale 1:2812

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

Prepared by: MattSpence
Prepared for:
Date: 25/01/2016 10:37:32 AM

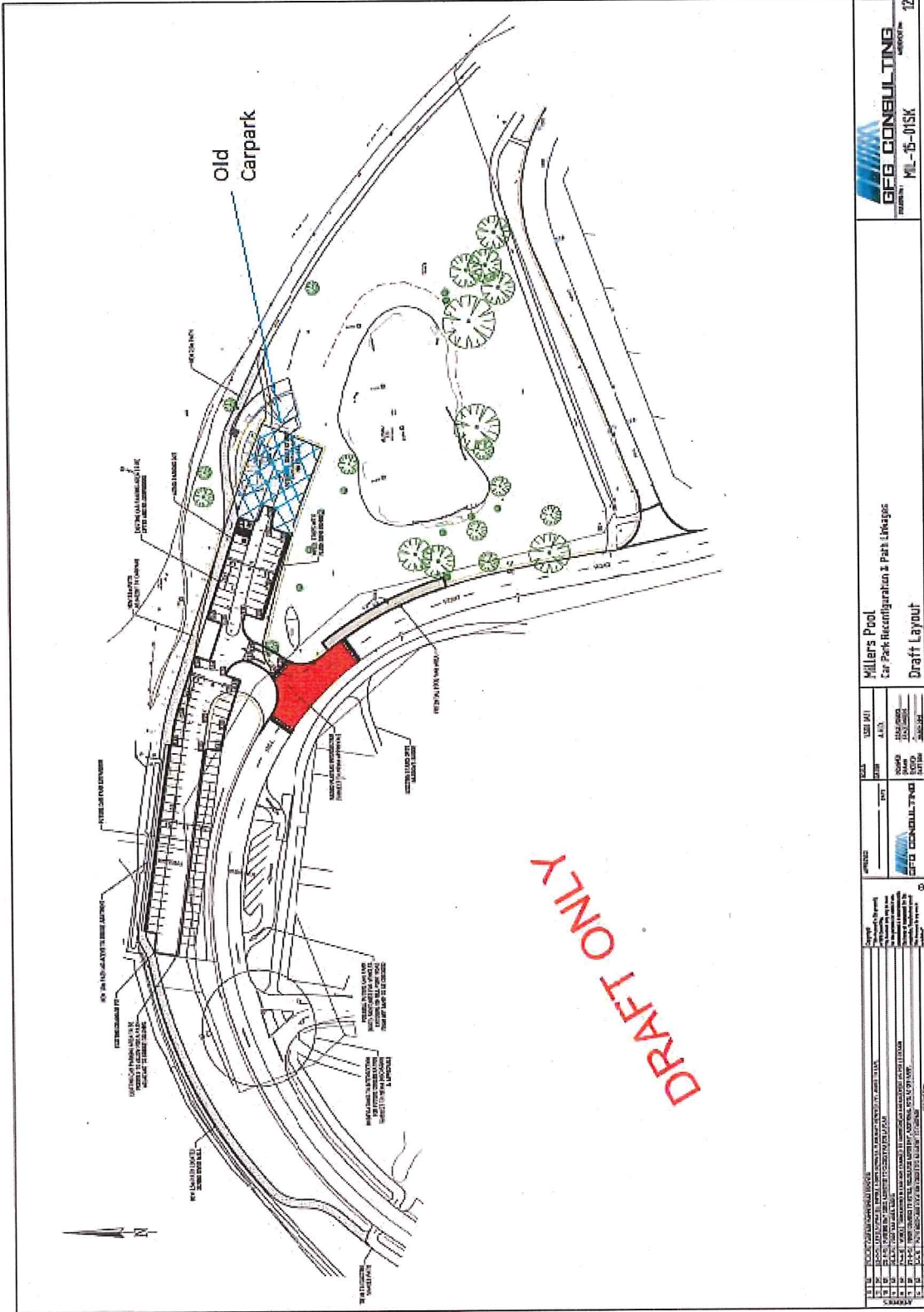
Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.



Government of Western Australia
Department of Environment Regulation

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*Project Data. This data has not been quality assured. Please contact map author for details.



		ML-15-01SK SHEET 12	
MILLERS POOL FOR PARK RECONFIGURATION & PART IMPROVEMENTS DRAFT LAYOUT		DATE: 15/01/15 DRAWN: J. L. J. CHECKED: J. L. J. SCALE: AS SHOWN PROJECT: MILLERS POOL	PROJECT NO.: ML-15-01SK SHEET NO.: 12 TOTAL SHEETS: 12
THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF GFG CONSULTING. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED IN THE TITLE OF THIS DRAWING. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF GFG CONSULTING.			



MEETING PLACE - VIEWING AND SEATING AREA



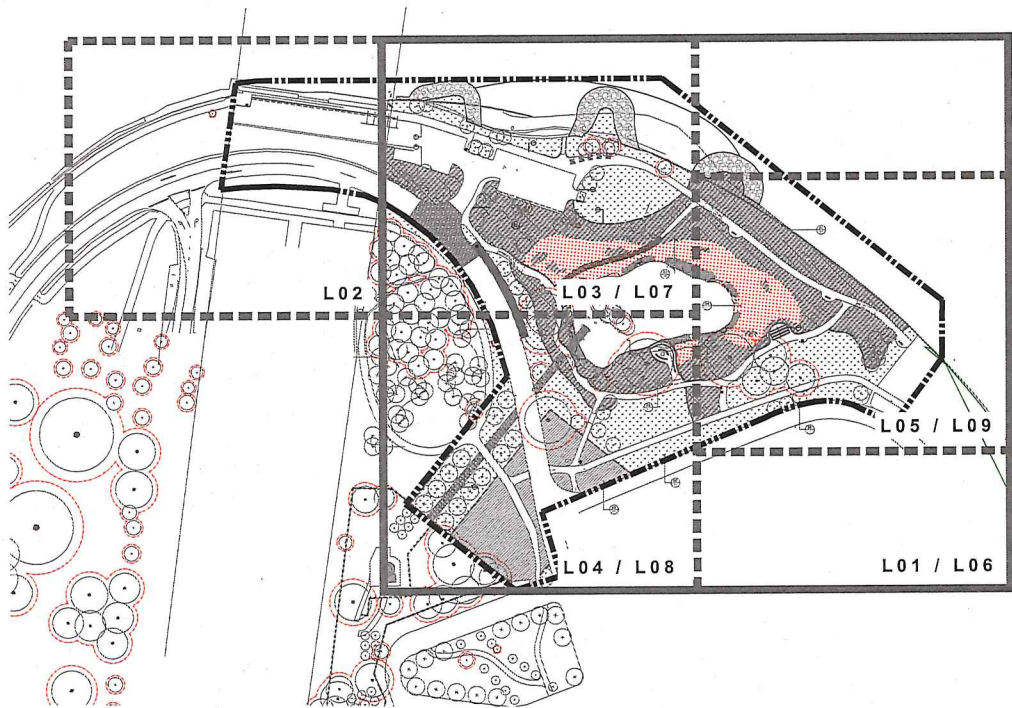
MILLERS POOL SEPARABLE PORTION 'C'

LANDSCAPE ARCHITECTURAL DRAWINGS

Headlands Plant Order List				04.01.2016			
Quantity				2826			
SYM	SPECIES	POT SIZE	QTY	SYM	SPECIES	POT SIZE	QTY
Ala	Acacia lasiocarpa	Forestry Tubes	478	Ala	Acacia lasiocarpa	Forestry Tubes	453
Asc	Asteraea scoparia	Forestry Tubes	149	Asc	Asteraea scoparia	Forestry Tubes	37
Coa	Conostyly canadensis	Forestry Tubes	32	Coa	Conostyly canadensis	Forestry Tubes	634
Epl	Eremophila glabra var. prostrata form	Forestry Tubes	266	Dra	Dianella revoluta	Forestry Tubes	244
Fno	Ficinia nodosa	Forestry Tubes	100	Epl	Eremophila glabra var. prostrata form	Forestry Tubes	552
Hpu	Hemiantra pungens	Forestry Tubes	162	Fno	Ficinia nodosa	Forestry Tubes	2661
Ice	Isoplepis cernua	Forestry Tubes	13	Hpu	Hemiantra pungens	Forestry Tubes	1552
Lbr	Leucophya brownii	Forestry Tubes	96	Ice	Isoplepis cernua	Forestry Tubes	80
Lgl	Lepidospernum gladiatum	140mm	69	Jkr	Juncus kraussii	Forestry Tubes	5228
Oax	Olearia axillaris var Dwarf Form	Forestry Tubes	96	Lgl	Lepidospernum gladiatum	140mm	2172
Poc	Palaemonia occidentalis	Forestry Tubes	266	Oax	Olearia axillaris var Dwarf Form	Forestry Tubes	478
Scr	Scaevola crassifolia var Flat Fred	Forestry Tubes	829	Poc	Palaemonia occidentalis	Forestry Tubes	321
Spl	Spyridium globulosum	Forestry Tubes	106	Rch	Rhodanthe chlorocephala subsp. rosea	Seed (Grams)	34
Tre	Templetonia nutans	Forestry Tubes	164	Rd	Rhodanthe citrina	Seed (Grams)	34

Plant Order List				04.01.2016			
Quantity				25562			
SYM	SPECIES	POT SIZE	QTY	SYM	SPECIES	POT SIZE / SEEDS	QTY
Ala	Acacia lasiocarpa	Forestry Tubes	453	Alp	Anigozanthos flavidus x pulcherrimus	Forestry Tubes	228
Asc	Asteraea scoparia	Forestry Tubes	37	Art	Anigozanthos nitens x flavidus	Forestry Tubes	228
Coa	Conostyly canadensis	Forestry Tubes	634	Coa	Conostyly canadensis	Forestry Tubes	453
Dra	Dianella revoluta	Forestry Tubes	244	Htr	Hovea trispeme	Forestry Tubes	458
Epl	Eremophila glabra var. prostrata form	Forestry Tubes	552	Kco	Kennedia coccinea prostrata'	Forestry Tubes	458
Fno	Ficinia nodosa	Forestry Tubes	2661	Lbi	Lachenaultia biloba	Forestry Tubes	78
Hpu	Hemiantra pungens	Forestry Tubes	1552	Mlu	Macropidia fuliginosa	Forestry Tubes	104
Ice	Isoplepis cernua	Forestry Tubes	80	Pch	Podolobea chrysantha	Seed (Grams)	47
Jkr	Juncus kraussii	Forestry Tubes	5228	Pex	Ptilotus exaltatus	Forestry Tubes	946
Lgl	Lepidospernum gladiatum	140mm	2172	Pgn	Podolobea gnaphaloides	Seed (Grams)	47
Oax	Olearia axillaris var Dwarf Form	Forestry Tubes	478	Poc	Palaemonia occidentalis	Forestry Tubes	104
Poc	Palaemonia occidentalis	Forestry Tubes	321	Rch	Rhodanthe chlorocephala subsp. rosea	Seed (Grams)	34
Rch	Rhodanthe chlorocephala subsp. rosea	Seed (Grams)	34	Rd	Rhodanthe citrina	Seed (Grams)	34
Rd	Rhodanthe citrina	Seed (Grams)	34	Rma	Rhodanthe mangiesii	Seed (Grams)	34
Rma	Rhodanthe mangiesii	Seed (Grams)	34	Rpy	Rhodanthe pyralinum	Seed (Grams)	34
Rpy	Rhodanthe pyralinum	Seed (Grams)	34	Tco	Trachymene coccinea	Seed (Grams)	34
Spl	Spyridium globulosum	Forestry Tubes	25	Tnu	Trysanthus multicaulis	Forestry Tubes	921
Squ	Sarcococca quinquiflora	Forestry Tubes	7939	Vde	Verticordia densiflora	Forestry Tubes	78
Sre	Sarcococca quinquiflora	Forestry Tubes	992	Vni	Verticordia nitens	Forestry Tubes	104
Svi	Sporobolus virginicus	Forestry Tubes	289	Wnl	Walizia nitida	Seed (Grams)	47
				Wsu	Walizia suaevoles	Seed (Grams)	71

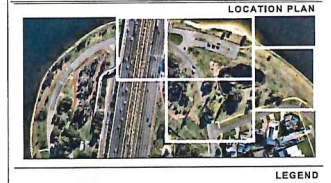
Wildflower Fields Plant Order List				04.01.2016			
Quantity				4537			
SYM	SPECIES	POT SIZE / SEEDS	QTY	SYM	SPECIES	POT SIZE / SEEDS	QTY
Alp	Anigozanthos flavidus x pulcherrimus	Forestry Tubes	228	Alp	Anigozanthos flavidus x pulcherrimus	Forestry Tubes	228
Art	Anigozanthos nitens x flavidus	Forestry Tubes	228	Art	Anigozanthos nitens x flavidus	Forestry Tubes	228
Coa	Conostyly canadensis	Forestry Tubes	453	Coa	Conostyly canadensis	Forestry Tubes	453
Htr	Hovea trispeme	Forestry Tubes	458	Htr	Hovea trispeme	Forestry Tubes	458
Kco	Kennedia coccinea prostrata'	Forestry Tubes	458	Kco	Kennedia coccinea prostrata'	Forestry Tubes	458
Lbi	Lachenaultia biloba	Forestry Tubes	78	Lbi	Lachenaultia biloba	Forestry Tubes	78
Mlu	Macropidia fuliginosa	Forestry Tubes	104	Mlu	Macropidia fuliginosa	Forestry Tubes	104
Pch	Podolobea chrysantha	Seed (Grams)	47	Pch	Podolobea chrysantha	Seed (Grams)	47
Pex	Ptilotus exaltatus	Forestry Tubes	946	Pex	Ptilotus exaltatus	Forestry Tubes	946
Pgn	Podolobea gnaphaloides	Seed (Grams)	47	Pgn	Podolobea gnaphaloides	Seed (Grams)	47
Poc	Palaemonia occidentalis	Forestry Tubes	104	Poc	Palaemonia occidentalis	Forestry Tubes	104
Rch	Rhodanthe chlorocephala subsp. rosea	Seed (Grams)	34	Rch	Rhodanthe chlorocephala subsp. rosea	Seed (Grams)	34
Rd	Rhodanthe citrina	Seed (Grams)	34	Rd	Rhodanthe citrina	Seed (Grams)	34
Rma	Rhodanthe mangiesii	Seed (Grams)	34	Rma	Rhodanthe mangiesii	Seed (Grams)	34
Rpy	Rhodanthe pyralinum	Seed (Grams)	34	Rpy	Rhodanthe pyralinum	Seed (Grams)	34
Tco	Trachymene coccinea	Seed (Grams)	34	Tco	Trachymene coccinea	Seed (Grams)	34
Tnu	Trysanthus multicaulis	Forestry Tubes	921	Tnu	Trysanthus multicaulis	Forestry Tubes	921
Vde	Verticordia densiflora	Forestry Tubes	78	Vde	Verticordia densiflora	Forestry Tubes	78
Vni	Verticordia nitens	Forestry Tubes	104	Vni	Verticordia nitens	Forestry Tubes	104
Wnl	Walizia nitida	Seed (Grams)	47	Wnl	Walizia nitida	Seed (Grams)	47
Wsu	Walizia suaevoles	Seed (Grams)	71	Wsu	Walizia suaevoles	Seed (Grams)	71



ISSUE FOR APPROVAL

DWG NO.	DWG NAME	SCALE @ A1	REV
L00	COVER SHEET	1:1000	L
L01	DEMOLITION PLAN	1:500	L
L02	GRADING & HARDWORKS PLAN 01	1:200	L
L03	GRADING & HARDWORKS PLAN 02	1:200	L
L04	GRADING & HARDWORKS PLAN 03	1:200	L
L05	GRADING & HARDWORKS PLAN 04	1:200	L
L06	SOFTWORKS PLAN	1:500	L
L07	PLANTING PLAN 01	1:200	L
L08	PLANTING PLAN 02	1:200	L
L09	PLANTING PLAN 03	1:200	L
L10	SHELTER DETAILS	AS SHOWN	L
L11	MEETING CIRCLE	AS SHOWN	L
L12	HARDWORKS DETAILS	AS SHOWN	L
L13	SOFTWORKS DETAIL	AS SHOWN	L

REV	DATE	ISSUE
K	07.12.2015	ISSUE FOR APPROVAL
L	12.01.2016	CLIENT REVIEW



EXTENT OF WORKS

NOTES

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WHERE MIXED PLANTING IS PROPOSED PLANT IN GROUPS OF 3, 5 OR 7 OF THE SAME SPECIES.

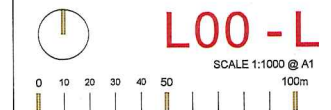
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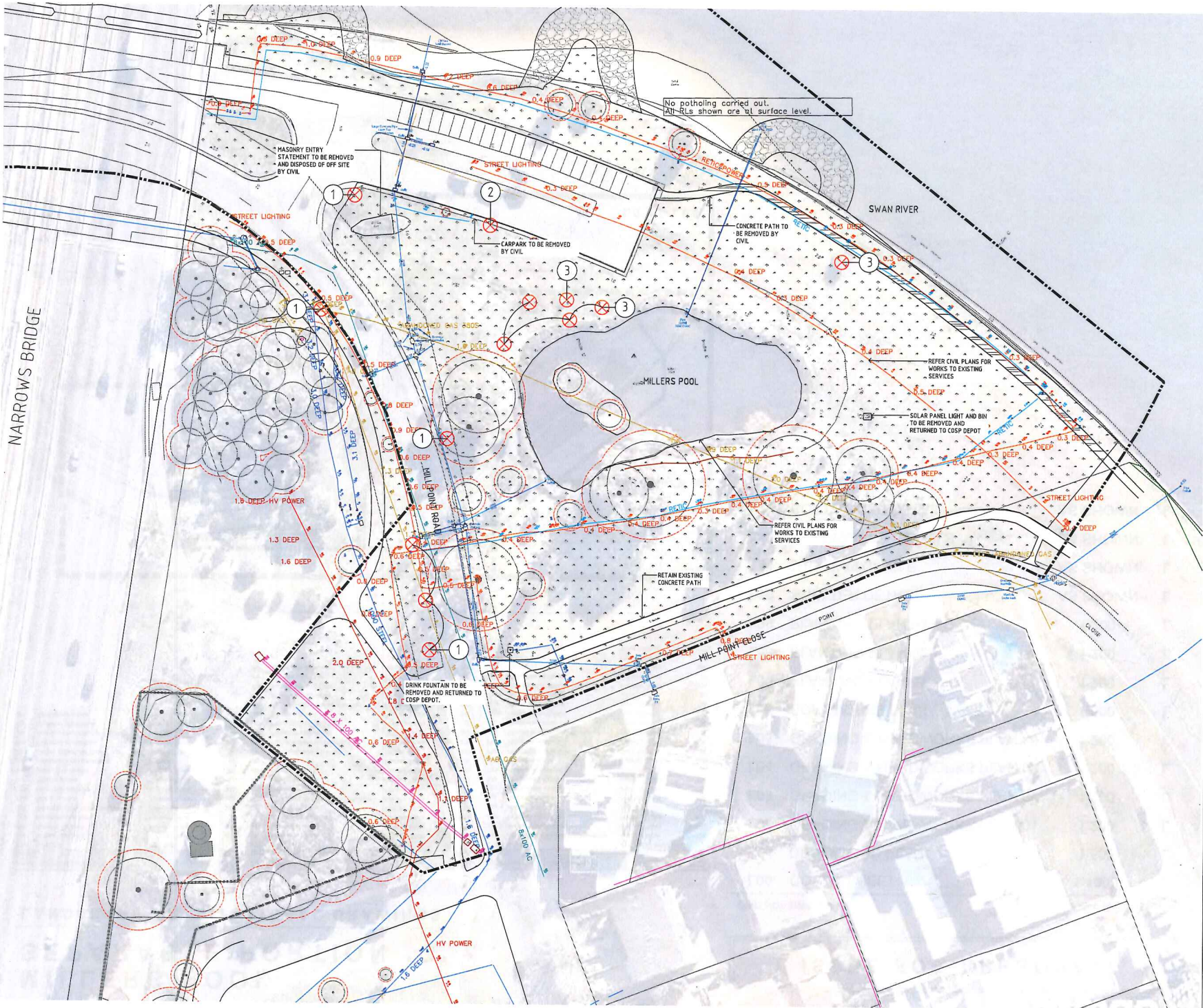
MILLERS POOL
CLIENT: CITY OF SOUTH PERTH

COVER SHEET



L00 - L

SCALE 1:1000 @ A1



REV	DATE	ISSUE
K	07.12.2015	ISSUE FOR APPROVAL
L	12.01.2015	CLIENT REVIEW



LOCATION PLAN

- LEGEND**
- EXTENT OF WORKS
 - EXISTING TREE / PROTECTION ZONE SHOWN AS DASH-DOT REFER SPECIFICATION
 - ⊗ TREE TO BE REMOVED
 - TURF TO BE REMOVED
 - CONCRETE PATH TO BE REMOVED
 - EXISTING FENCE TO BE RETAINED
 - ① PLATANUS ORIENTALIS
 - ② EUCALYPTUS RUDIS
 - ③ MELALEUCA

- EXISTING SERVICES**
- GAS MAIN
 - UNDERGROUND POWER
 - WATER MAIN
 - TELECOMMUNICATIONS
 - OPTIC FIBRE

NOTES

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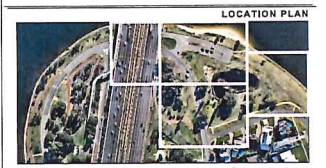
MILLERS POOL
 CLIENT: CITY OF SOUTH PERTH

DEMOLITION PLAN

0 5 10 15 20 25 50m

L01-L
 SCALE 1:500 @ A1

REV	DATE	ISSUE
K	07.12.2015	ISSUE FOR APPROVAL
L	12.01.2015	CLIENT REVIEW



- LEGEND**
- EXTENT OF WORKS
 - - - EXISTING CONTOURS
 - +FL 0.500 PROPOSED FINISHED LEVEL
 - - - EXISTING TREE / PROTECTION ZONE SHOWN AS DASH-DOT REFER SPECIFICATION
 - EXISTING PAVING
 - CONCRETE PAVEMENT 'TYPE A' EXP. AGG.
 - CONCRETE PAVEMENT 'TYPE B' REINFORCED
 - CONCRETE PAVEMENT 'TYPE C' EXP. AGG.
 - CONCRETE PAVEMENT 'TYPE D' REINFORCED
 - MEETING CIRCLE - REFER DETAIL
 - FRP BOARDWALK / KICKRAIL
 - LOOSE LIMESTONE SPALLING
 - EXISTING ROCK GROUYNE
 - EXISTING INDICATIVE SANDBANK
 - EXISTING FENCE TO BE RETAINED
 - LIMESTONE WALL
 - LIMESTONE WALL BENEATH PAVING
 - OFF-FORM CONCRETE WALL
 - CONCRETE EDGE
 - SHADE STRUCTURE
 - PICNIC SETTING
 - BENCH SEAT
 - GREEN BIN AND POST TO COSP DETAIL
 - BIKE RACKS (2200MM BETWEEN RACKS)
 - ROOSTING POST
 - BUBBLE-UP PIT BY CIVIL
 - DRINK FOUNTAIN
 - GATE TO CARPARK
 - 'NO BICYCLE' SIGN TO COSP DETAIL
 - BOLLARD

NOTES

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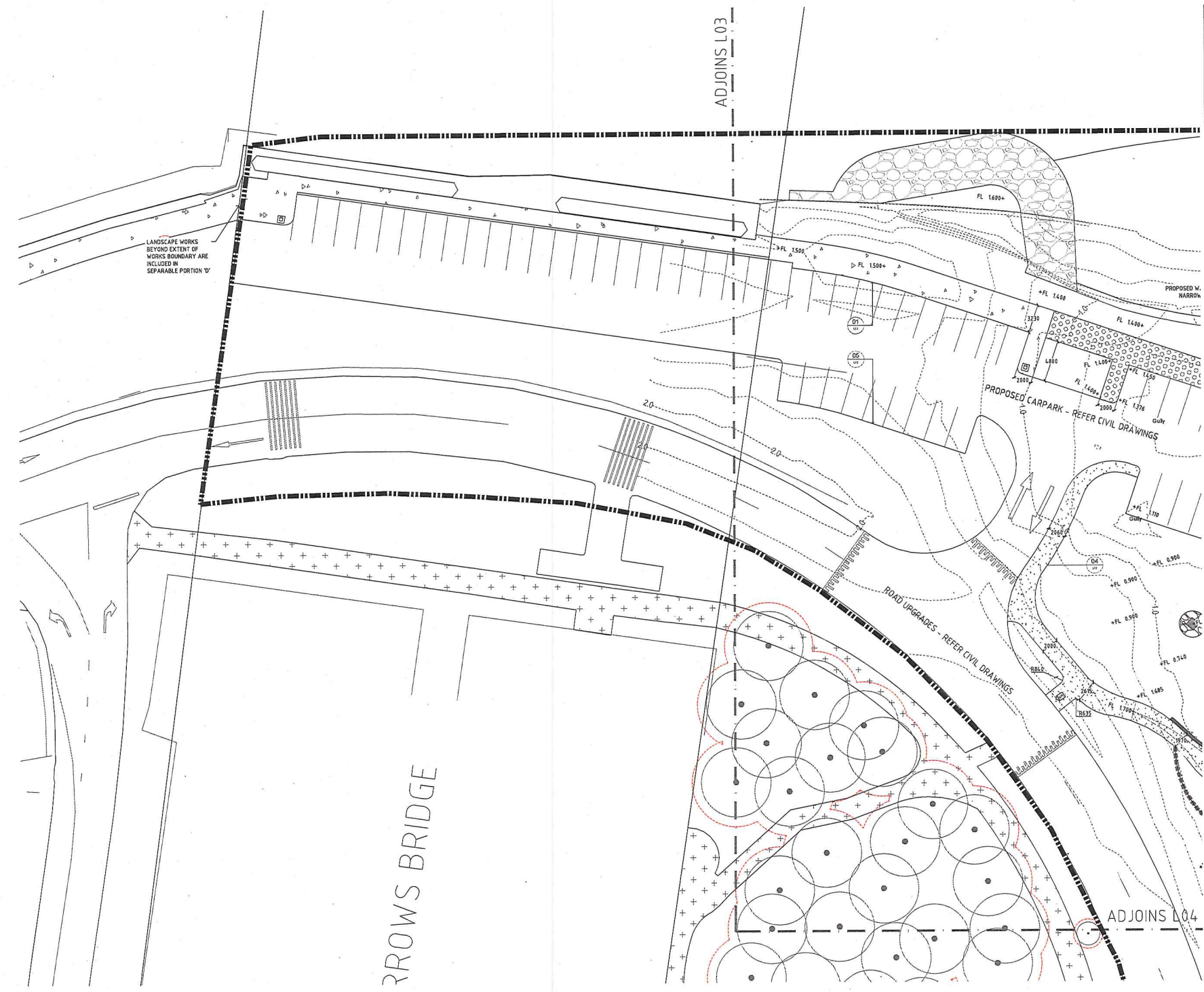
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MILLERS POOL
 CLIENT: CITY OF SOUTH PERTH

GRADING & HARDWORKS
 PLAN 01

L02 - L
 SCALE 1:200 @ A1



LANDSCAPE WORKS BEYOND EXTENT OF WORKS BOUNDARY ARE INCLUDED IN SEPARABLE PORTION 'D'

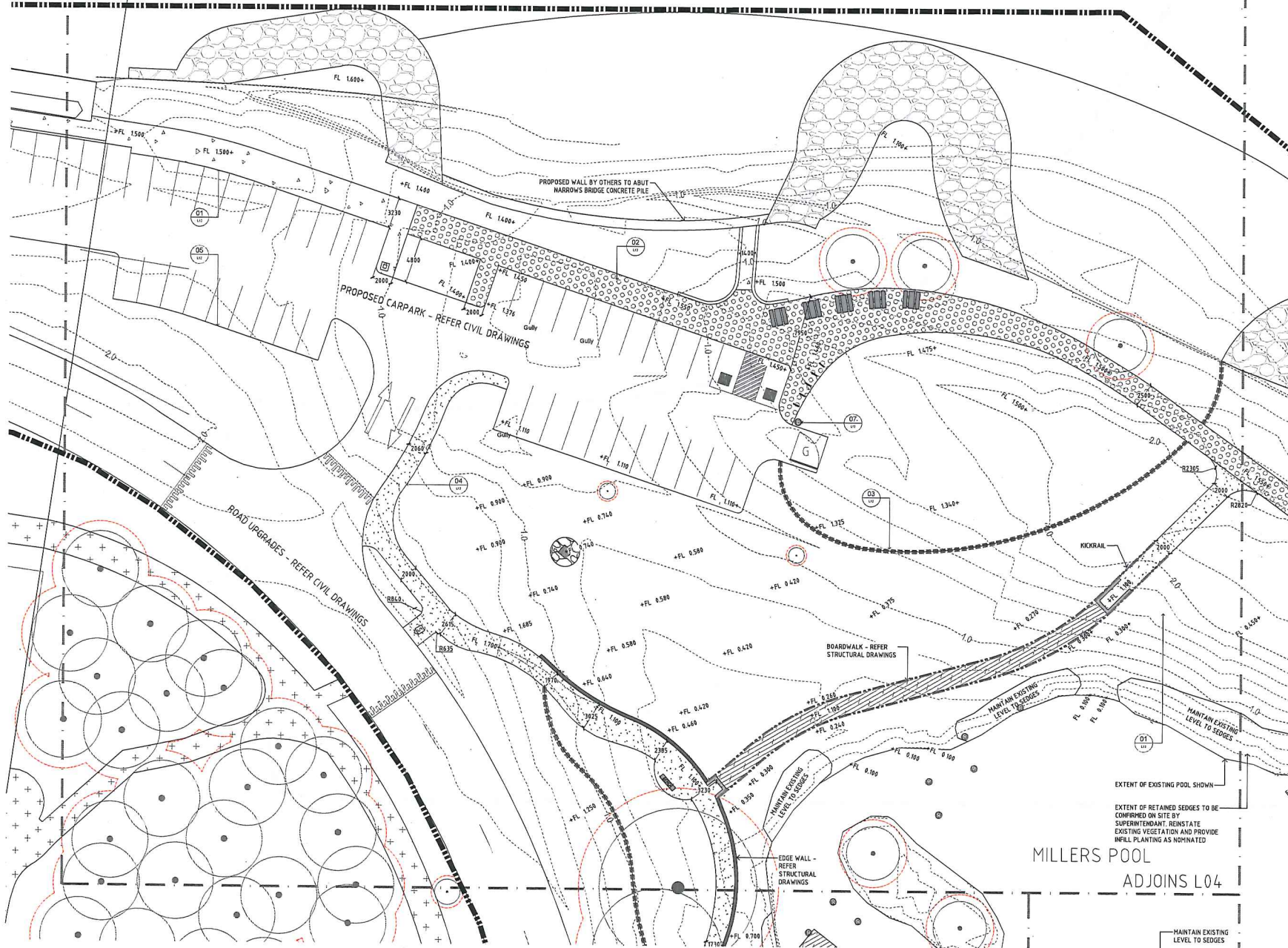
BROWS BRIDGE

ADJOINS L03

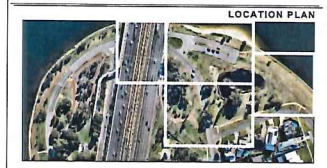
ADJOINS L04

ADJOINS L02

ADJOINS L05



REV	DATE	ISSUE
K	07.12.2015	ISSUE FOR APPROVAL
L	12.01.2016	CLIENT REVIEW



- LEGEND**
- EXTENT OF WORKS
 - EXISTING CONTOURS
 - PROPOSED FINISHED LEVEL
 - EXISTING TREE / PROTECTION ZONE SHOWN AS DASH-DOT REF SPECIFICATION
 - EXISTING PAVING
 - CONCRETE PAVEMENT 'TYPE A' EXP. AGG.
 - CONCRETE PAVEMENT 'TYPE B' REINFORCED
 - CONCRETE PAVEMENT 'TYPE C' EXP. AGG.
 - CONCRETE PAVEMENT 'TYPE D' REINFORCED
 - MEETING CIRCLE - REFER DETAIL
 - FRP BOARDWALK / KICKRAIL
 - LOOSE LIMESTONE SPALLING
 - EXISTING ROCK GROUYNE
 - EXISTING INDICATIVE SANDBANK
 - EXISTING FENCE TO BE RETAINED
 - LIMESTONE WALL
 - LIMESTONE WALL BENEATH PAVING
 - OFF-FORM CONCRETE WALL
 - CONCRETE EDGE
 - SHADE STRUCTURE
 - PICNIC SETTING
 - BENCH SEAT
 - GREEN BIN AND POST TO COSP DETAIL
 - BIKE RACKS (1200MM BETWEEN RACKS)
 - ROOSTING POST
 - BUBBLE-UP PIT BY CIVIL
 - DRINK FOUNTAIN
 - GATE TO CARPARK
 - 'NO BICYCLE' SIGN TO COSP DETAIL
 - BOLLARD

NOTES

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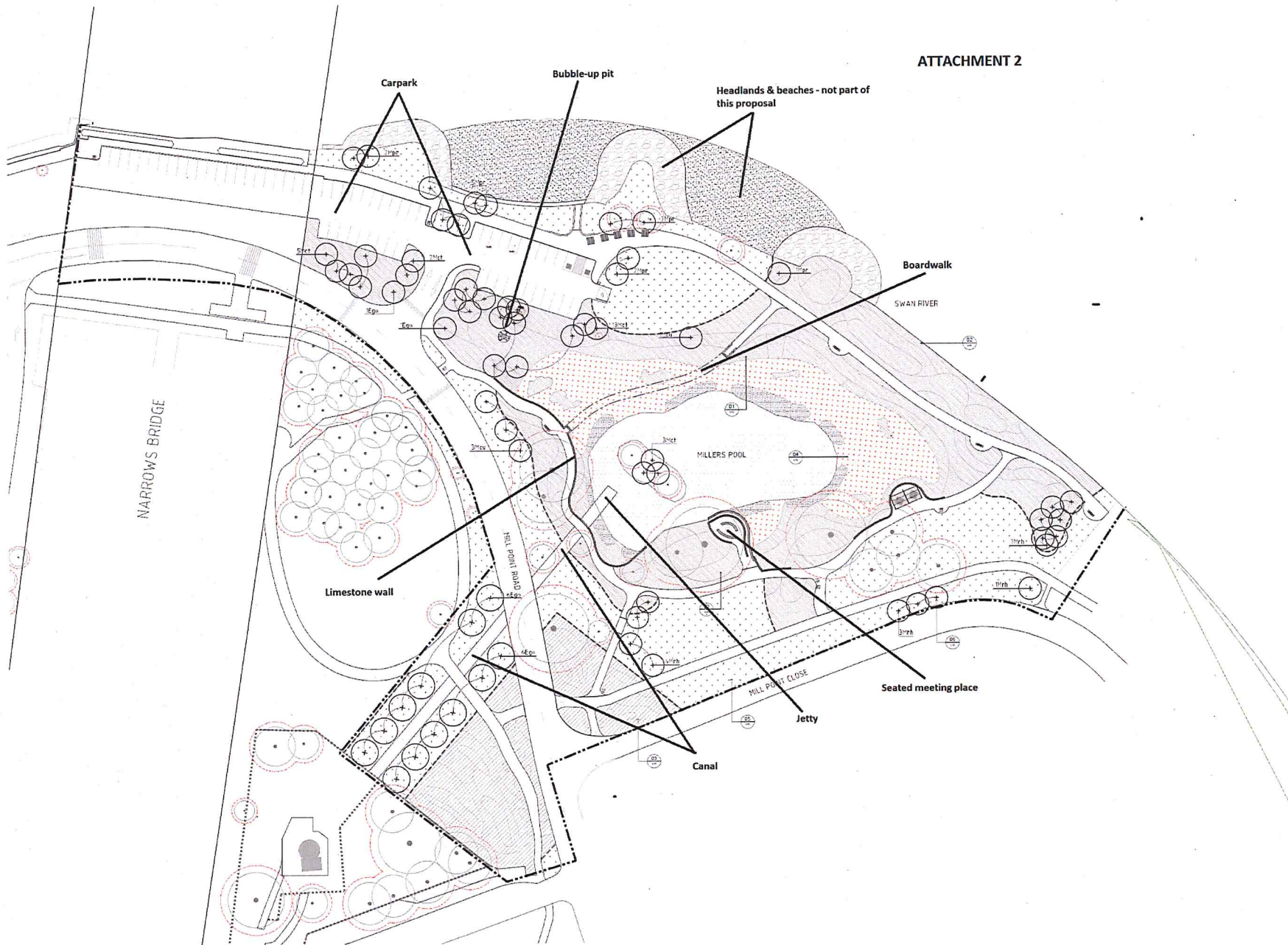
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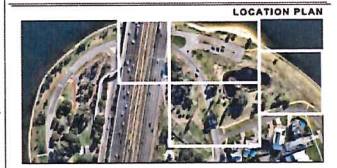
MILLERS POOL
 CLIENT: CITY OF SOUTH PERTH

GRADING & HARDWORKS
PLAN 02
L03 - L
 SCALE 1:200 @ A1

ATTACHMENT 2



REV	DATE	ISSUE
R	07.12.2015	ISSUE FOR APPROVAL
L	10.01.2015	CLIENT REVIEW



LEGEND

- EXTENT OF WORKS
- PROPOSED TREE
- EXISTING TREE - PROTECTION ZONE SHOWN AS DASH-DOT REFER SPECIFICATION
- EXISTING INDICATIVE SANDBANK
- EXISTING VEGETATION TO REMAIN IN-PLACE REMOVE WEEDS AND FILL PLANT
- MASS PLANTING
- WILDFLOWER PLANTING
- FLAT MARSH
- FILL-ON TURF
- EXISTING FENCE TO BE RETAINED
- LIMESTONE WALL
- LIMESTONE WALL BENEATH PAVING
- CONCRETE EDGE
- SHADE STRUCTURE - REFER TO L10
- FRONIC SETTING
- BENCH SEAT
- GREEN BIN AND FIRST TO CURB DETAIL
- BUBBLE-UP PIT BY CIVIL
- DRINK FOUNTAIN

NOTE
 * EUCALYPTUS SPECIES TO BE PLANTED 300MM FROM PATHS, ROADS AND CONCRETE EDGES. ALL OTHER PLANTED TREES TO BE INSTALLED 150-250MM FROM THE ABOVE-MENTIONED SURFACES.

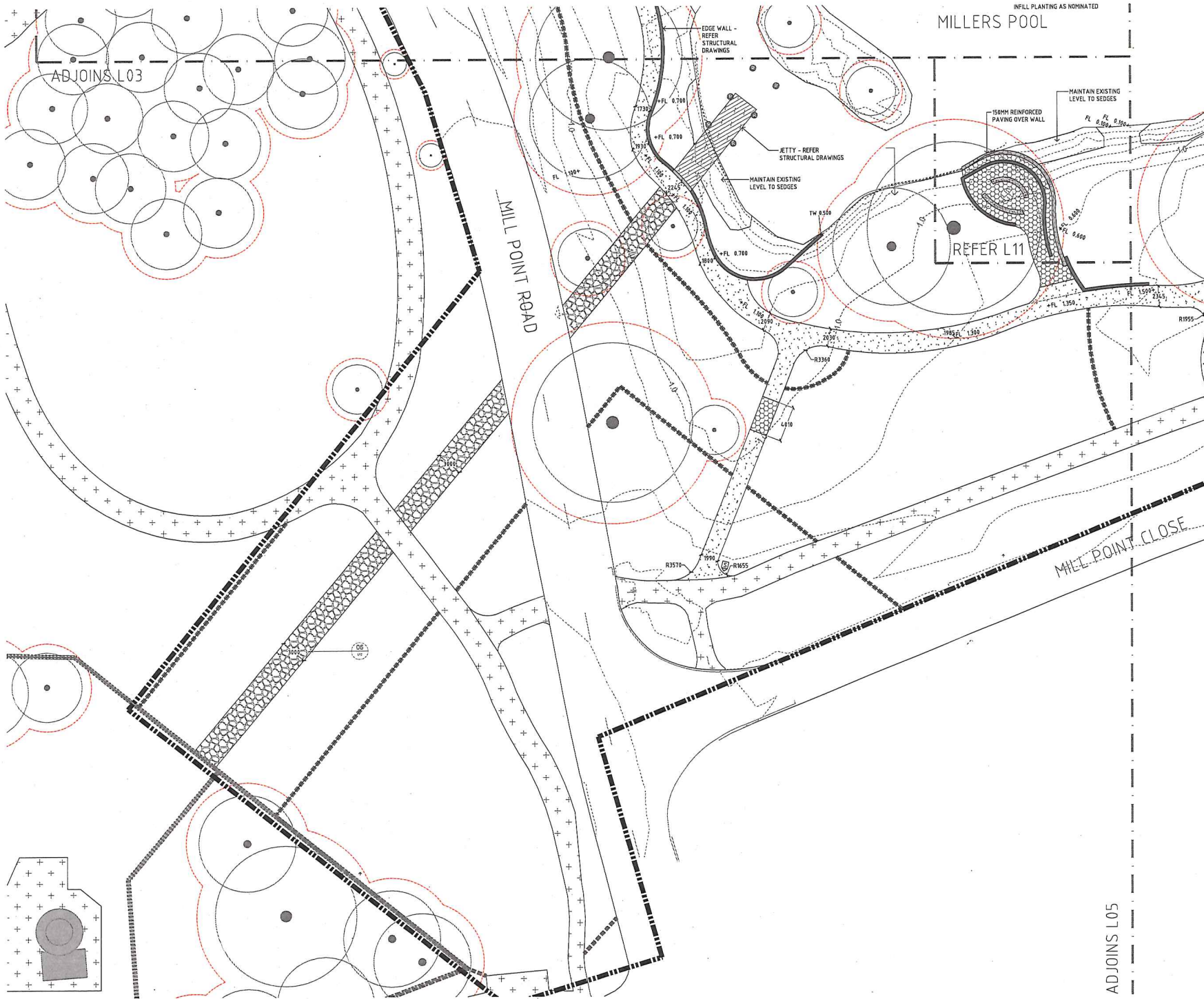
NOTES
 ALL COMPLETED WORKS TO BE PROTECTED AND HAVE GROUND ANY DAMAGE TO EXISTING WORKS CAUSED AS PART OF THIS CONTRACT. ALL WORK WITHIN OFF-LINES OF EXISTING TREES IS TO BE DONE BY HAND.
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 WHERE MIXED PLANTING IS PROPOSED PLANT IN GROUPS OF 3, 5 OR 7 OF THE SAME SPECIES.



AUTHOR: TC CHECKED: SP PROJECT NO: 3246-14

MILLERS POOL
 CLIENT: CITY OF SOUTH PERTH

SOFTWORKS PLAN



INFILL PLANTING AS NOMINATED

MILLERS POOL

REV	DATE	ISSUE
K	07.12.2015	ISSUE FOR APPROVAL
L	12.01.2015	CLIENT REVIEW



- LEGEND**
- EXTENT OF WORKS
 - - - EXISTING CONTOURS
 - + FL 0.500 PROPOSED FINISHED LEVEL
 - EXISTING TREE / PROTECTION ZONE SHOWN AS DASH-DOT REFER SPECIFICATION
 - EXISTING PAVING
 - ▨ CONCRETE PAVEMENT 'TYPE A' EXP. AGG.
 - ▩ CONCRETE PAVEMENT 'TYPE B' REINFORCED
 - ▧ CONCRETE PAVEMENT 'TYPE C' EXP. AGG.
 - ▦ CONCRETE PAVEMENT 'TYPE D' REINFORCED
 - MEETING CIRCLE - REFER DETAIL
 - ▨ FRP BOARDWALK / KICKRAIL
 - ▩ LOOSE LIMESTONE SPALLING
 - ▧ EXISTING ROCK GROUYNE
 - ▦ EXISTING INDICATIVE SANDBANK
 - ▧ EXISTING FENCE TO BE RETAINED
 - ▩ LIMESTONE WALL
 - ▨ LIMESTONE WALL BENEATH PAVING
 - ▧ OFF-FORM CONCRETE WALL
 - ▦ CONCRETE EDGE
 - ▩ SHADE STRUCTURE
 - ▧ PICNIC SETTING
 - ▦ BENCH SEAT
 - ▩ GREEN BIN AND POST TO COSP DETAIL
 - ▧ BIKE RACKS (1200MM BETWEEN RACKS)
 - ▦ ROOSTING POST
 - ▩ BUBBLE-UP PIT BY CIVIL
 - ▧ DRINK FOUNTAIN
 - ▦ GATE TO CARPARK
 - ▩ 'NO BICYCLE' SIGN TO COSP DETAIL
 - ROLLARD

NOTES

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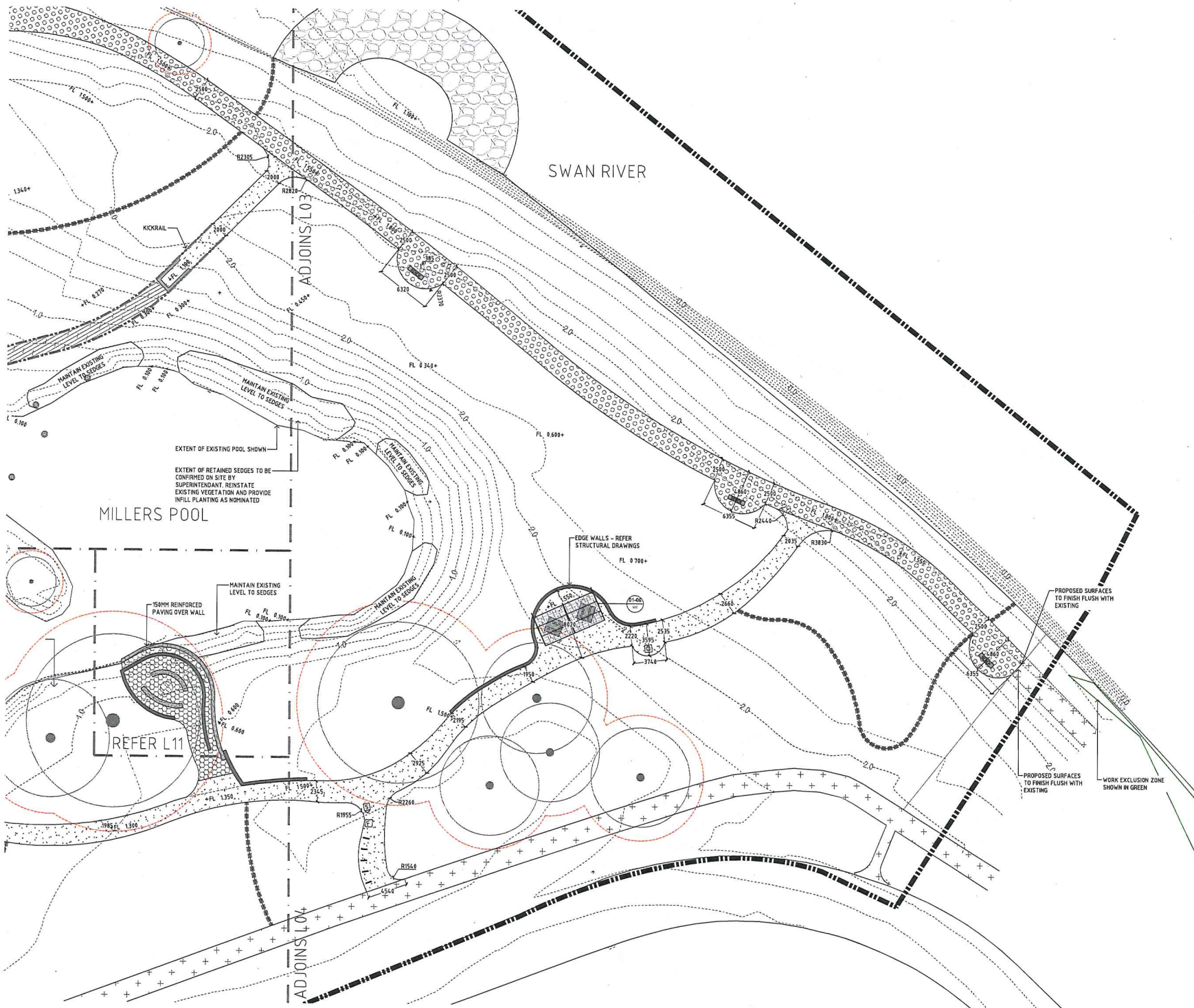
MILLERS POOL
 CLIENT: CITY OF SOUTH PERTH

GRADING & HARDWORKS
PLAN 03

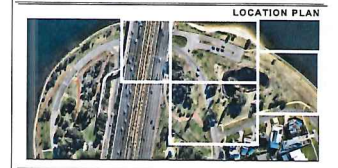
L04 - L
 SCALE 1:200 @ A1



ADJOINS L05



REV	DATE	ISSUE
K	07.12.2015	ISSUE FOR APPROVAL
L	12.01.2015	CLIENT REVIEW



LEGEND	
	EXTENT OF WORKS
	EXISTING CONTOURS
	PROPOSED FINISHED LEVEL
	EXISTING TREE / PROTECTION ZONE SHOWN AS DASH-DOT REFER SPECIFICATION
	EXISTING PAVING
	CONCRETE PAVEMENT 'TYPE A' EXP. AGG.
	CONCRETE PAVEMENT 'TYPE B' REINFORCED
	CONCRETE PAVEMENT 'TYPE C' EXP. AGG.
	CONCRETE PAVEMENT 'TYPE D' REINFORCED
	MEETING CIRCLE - REFER DETAIL
	FRP BOARDWALK / KICKRAIL
	LOOSE LIMESTONE SPALLING
	EXISTING ROCK GROYPNE
	EXISTING INDICATIVE SANDBANK
	EXISTING FENCE TO BE RETAINED
	LIMESTONE WALL
	LIMESTONE WALL BENEATH PAVING
	OFF-FORM CONCRETE WALL
	CONCRETE EDGE
	SHADE STRUCTURE
	PICNIC SETTING
	BENCH SEAT
	GREEN BIN AND POST TO COSP DETAIL
	BIKE RACKS (1200MM BETWEEN RACKS)
	ROOSTING POST
	BUBBLE-UP PIT BY CIVIL
	DRINK FOUNTAIN
	GATE TO CARPARK
	'NO BICYCLE' SIGN TO COSP DETAIL
	BOLLARD

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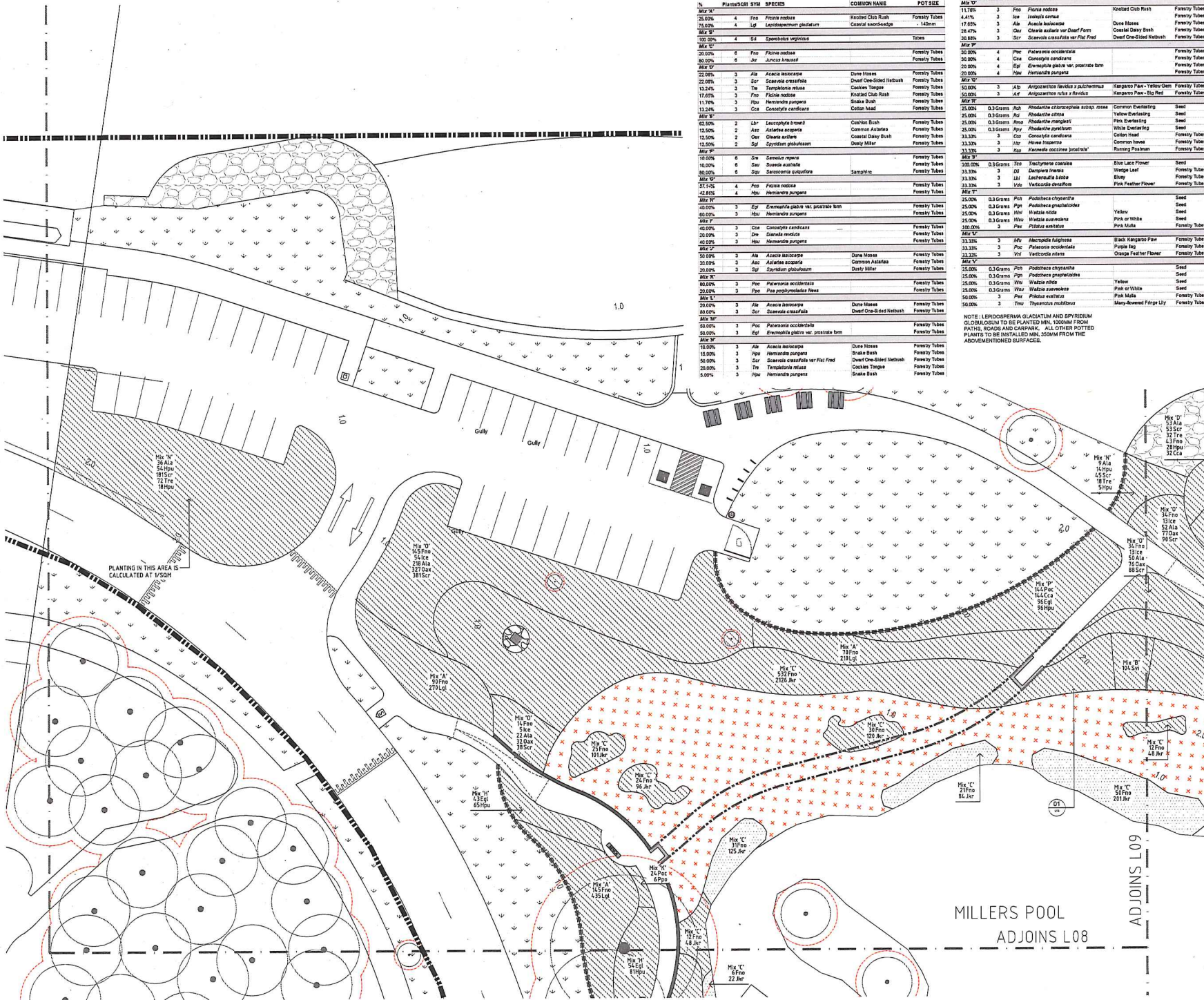


AUTHOR: TC CHECKED: SP PROJECT NO: 3248-14

MILLERS POOL
CLIENT: CITY OF SOUTH PERTH

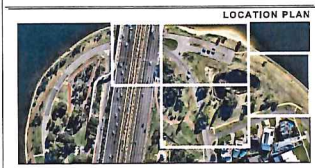
GRADING & HARDWORKS
PLAN 04

L05 - L
SCALE 1:200 @ A1



Mix	Flora/DBA	Qty	Species	Common Name	Pot Size	Mix	Qty	Species	Common Name	Pot Size	
Mix 'A'	11.7%	3	<i>Ficus rodia</i>	Knoted Cloe Bush	Forestry Tubes	11.7%	3	<i>Ficus rodia</i>	Knoted Cloe Bush	Forestry Tubes	
26.0%	4	<i>Ficus rodia</i>	Knoted Cloe Bush	Forestry Tubes	4.4%	3	<i>Joe Jacobus ornata</i>	Joe Jacobus	Forestry Tubes		
18.0%	4	<i>Lonicera caerulea</i>	Coastal sand-edge	Forestry Tubes	17.6%	3	<i>Abi Asotia salicaria</i>	Dune Moses	Forestry Tubes		
Mix 'B'	26.4%	3	<i>Olea europaea var. oleaster</i>	Coastal Olive Bush	Forestry Tubes	26.4%	3	<i>Olea europaea var. oleaster</i>	Coastal Olive Bush	Forestry Tubes	
25.0%	3	<i>Str. Scandiacasalis</i>	Dead One-Billed Noddy	Forestry Tubes	25.0%	3	<i>Str. Scandiacasalis</i>	Dead One-Billed Noddy	Forestry Tubes		
Mix 'C'	100.0%	4	<i>Syr. Scandiacasalis</i>	Dead One-Billed Noddy	Forestry Tubes	Mix 'D'	30.0%	4	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed
30.0%	6	<i>Ficus rodia</i>	Knoted Cloe Bush	Forestry Tubes	30.0%	4	<i>Coc. Conocarpus endrobia</i>	Common Everlasting	Seed		
30.0%	6	<i>Str. Scandiacasalis</i>	Dead One-Billed Noddy	Forestry Tubes	20.0%	4	<i>Egl. Eranthis pinnatifida</i>	Orange Feather Flower	Forestry Tubes		
Mix 'E'	22.0%	3	<i>Abi. Acacia baerocarpa</i>	Dune Moses	Forestry Tubes	20.0%	4	<i>Hou. Heliconia purpurata</i>	Heliconia	Forestry Tubes	
22.0%	3	<i>Syr. Scandiacasalis</i>	Dead One-Billed Noddy	Forestry Tubes	Mix 'F'	50.0%	3	<i>Abi. Acacia baerocarpa</i>	Dune Moses	Forestry Tubes	
13.24%	3	<i>Tem. Tempeltonia retusa</i>	Cockles Tongue	Forestry Tubes	50.0%	3	<i>Abi. Acacia baerocarpa</i>	Dune Moses	Forestry Tubes		
17.6%	3	<i>Ficus rodia</i>	Knoted Cloe Bush	Forestry Tubes	50.0%	3	<i>Abi. Acacia baerocarpa</i>	Dune Moses	Forestry Tubes		
17.6%	3	<i>Hou. Heliconia purpurata</i>	Heliconia	Forestry Tubes	Mix 'G'	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
13.24%	3	<i>Coc. Conocarpus endrobia</i>	Common Everlasting	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed		
Mix 'H'	12.3%	2	<i>Lbr. Leucophya brenn</i>	Cushion Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
12.3%	2	<i>Acc. Adiantum scopulorum</i>	Common Antennae	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed		
12.3%	2	<i>Occ. Oenothera biennis</i>	Common Evening Primrose	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed		
12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed		
Mix 'I'	12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
Mix 'J'	12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
Mix 'K'	12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
Mix 'L'	12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
Mix 'M'	12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
Mix 'N'	12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
Mix 'O'	12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
Mix 'P'	12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
Mix 'Q'	12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
Mix 'R'	12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
Mix 'S'	12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
Mix 'T'	12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
Mix 'U'	12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
Mix 'V'	12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
Mix 'W'	12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
Mix 'X'	12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
Mix 'Y'	12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	
Mix 'Z'	12.3%	2	<i>Syl. Scaevola caespitosa</i>	Coastal Daisy Bush	Forestry Tubes	25.0%	0.3 Grams	<i>Poa. Pteris caerulea</i>	Common Everlasting	Seed	

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LOCATION PLAN

LEGEND

- EXISTING TREE PROTECTION ZONE SHOWN AS DASH-DOT REFER SPECIFICATION
- EXISTING VEGETATION TO REMAIN IN-PLACE. REMOVE WEEDS AND INFILL PLANT
- MASS PLANTING
- WILDFLOWER PLANTING
- FLAT MARSH
- ROLL-ON TURF
- SHADE STRUCTURE WITH PICNIC BENCH
- PICNIC SETTING
- BENCH SEAT
- LIMESTONE WALL
- CONCRETE EDGING
- BUBBLE-UP PIT BY CIVIL
- BIKE RACKS (1200MM BETWEEN RACKS)
- GATE TO CARPARK

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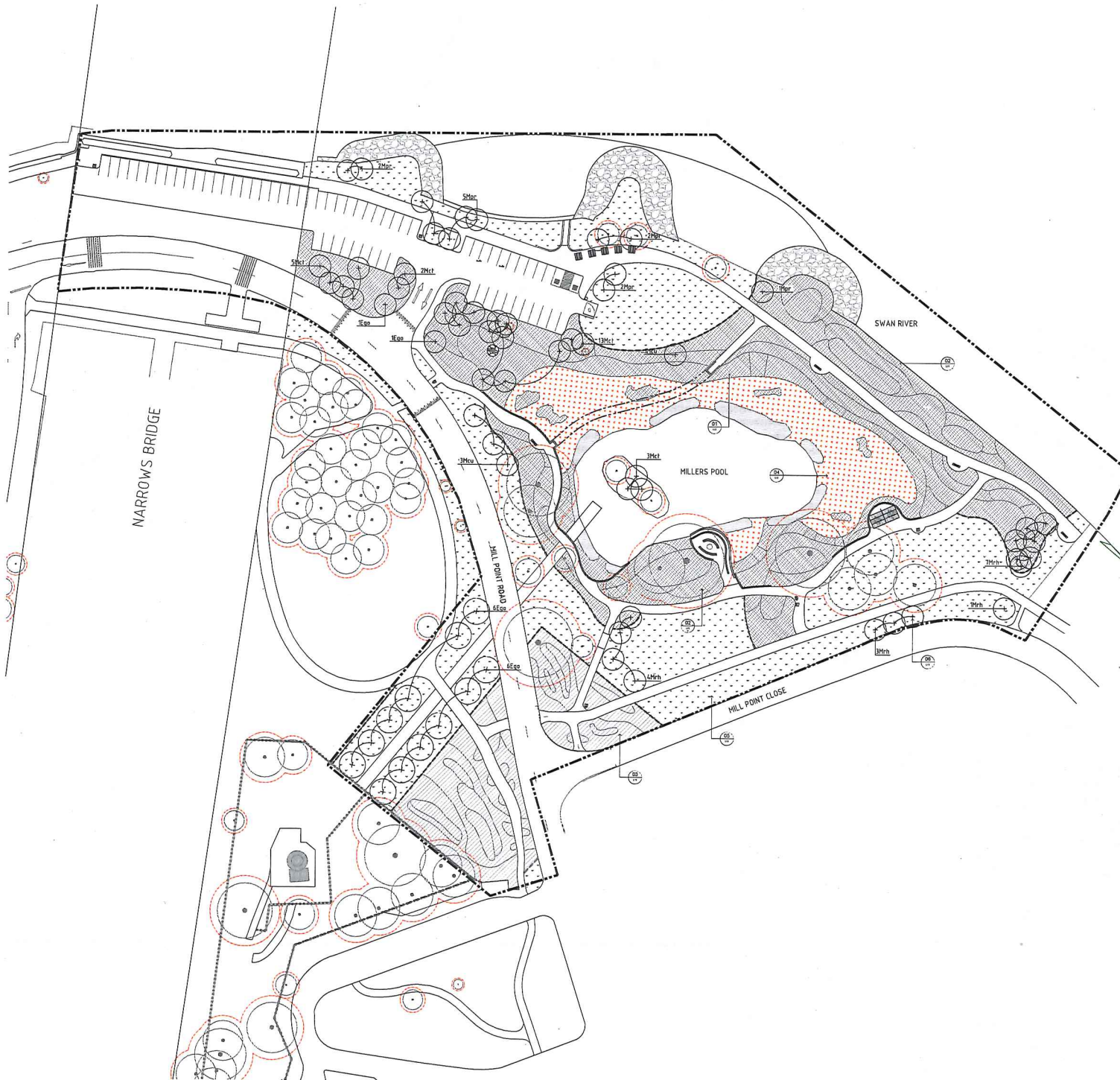


AUTHOR: TC CHECKED: SP PROJECT NO: 3248-14

MILLERS POOL
CLIENT: CITY OF SOUTH PERTH

PLANTING PLAN 01

L07-L
SCALE 1:200 @ A1
0 2 4 6 8 10 20m



REV	DATE	ISSUE
K	07.12.2015	ISSUE FOR APPROVAL
L	12.01.2015	CLIENT REVIEW



LEGEND

- EXTENT OF WORKS
- PROPOSED TREE
- EXISTING TREE / PROTECTION ZONE SHOWN AS DASH-DOT REFER SPECIFICATION
- ▭ EXISTING INDICATIVE SANDBANK
- ▭ EXISTING VEGETATION TO REMAIN IN-PLACE. REMOVE WEEDS AND INFILL PLANT
- ▨ MASS PLANTING
- ▨ WILDFLOWER PLANTING
- ▨ FLAT MARSH
- ▨ ROLL-ON TURF
- EXISTING FENCE TO BE RETAINED
- ▬ LIMESTONE WALL
- ▬ LIMESTONE WALL BENEATH PAVING
- CONCRETE EDGE
- ▭ SHADE STRUCTURE - REFER TO L10
- ◆ PICNIC SETTING
- ▭ BENCH SEAT
- ▭ GREEN BN AND POST TO COSP DETAIL
- BUBBLE-UP PIT BY CIVIL
- DRINK FOUNTAIN

NOTE:
 * EUCALYPTUS SPECIES TO BE PLANTED 3000MM FROM PATHS, ROADS AND CONCRETE EDGES. ALL OTHER POTTED TREES TO BE INSTALLED MIN. 1500MM FROM THE ABOVEMENTIONED SURFACES.

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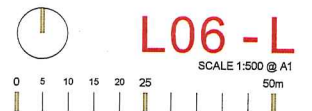
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MILLERS POOL
 CLIENT: CITY OF SOUTH PERTH

SOFTWARES PLAN

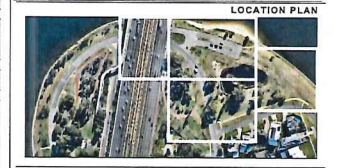




%	PLANTING SYM	SPECIES	COMMON NAME	POT SIZE	Mix %	Plant	Plant	Plant	Plant
10.00%	3	Ala	<i>Acacia salicarpa</i>	Dune Moss	10.00%	3	Ala	<i>Acacia salicarpa</i>	Dune Moss
15.00%	3	Hvu	<i>Homalium purpurum</i>	Snake Bush	15.00%	3	Hvu	<i>Homalium purpurum</i>	Snake Bush
15.00%	3	Str	<i>Stenandrium crinale</i> var <i>Pal. Fried</i>	Dwarf One-sided Heath	15.00%	3	Str	<i>Stenandrium crinale</i> var <i>Pal. Fried</i>	Dwarf One-sided Heath
20.00%	3	Tre	<i>Templetonia missa</i>	Cockles Tongue	20.00%	3	Tre	<i>Templetonia missa</i>	Cockles Tongue
15.00%	4	04	<i>Sporocaulis virginica</i>	Tubes	15.00%	4	04	<i>Sporocaulis virginica</i>	Tubes
20.00%	6	Fro	<i>Fuchsia rubra</i>	Knotted Chib Rush	20.00%	6	Fro	<i>Fuchsia rubra</i>	Knotted Chib Rush
17.85%	3	Ala	<i>Acacia salicarpa</i>	Dune Moss	17.85%	3	Ala	<i>Acacia salicarpa</i>	Dune Moss
28.47%	3	Car	<i>Clareia aculeata</i> var <i>Dwarf Form</i>	Coastal Daisy Bush	28.47%	3	Car	<i>Clareia aculeata</i> var <i>Dwarf Form</i>	Coastal Daisy Bush
30.80%	3	Str	<i>Stenandrium crinale</i> var <i>Pal. Fried</i>	Dwarf One-sided Heath	30.80%	3	Str	<i>Stenandrium crinale</i> var <i>Pal. Fried</i>	Dwarf One-sided Heath
30.00%	4	Pac	<i>Palafoxia occidentalis</i>	Cotton Head	30.00%	4	Pac	<i>Palafoxia occidentalis</i>	Cotton Head
20.00%	4	Con	<i>Conostyche candidans</i>	Common Innea	20.00%	4	Con	<i>Conostyche candidans</i>	Common Innea
20.00%	4	Epl	<i>Eriosepala glabra</i> var. <i>prostrata</i> bsm	Running Postman	20.00%	4	Epl	<i>Eriosepala glabra</i> var. <i>prostrata</i> bsm	Running Postman
50.00%	3	Alp	<i>Angiopteris hirsuta</i> x <i>paluchiana</i>	Kangaroo Paw - Yellow Gem	50.00%	3	Alp	<i>Angiopteris hirsuta</i> x <i>paluchiana</i>	Kangaroo Paw - Yellow Gem
50.00%	3	Ad	<i>Angiopteris hirsuta</i> x <i>fraxilis</i>	Kangaroo Paw - Big Red	50.00%	3	Ad	<i>Angiopteris hirsuta</i> x <i>fraxilis</i>	Kangaroo Paw - Big Red
25.00%	0.3 Grams	Rh	<i>Rhodiola chrysophylla</i> sub sp. <i>rossa</i>	Common Everlasting	25.00%	0.3 Grams	Rh	<i>Rhodiola chrysophylla</i> sub sp. <i>rossa</i>	Common Everlasting
25.00%	0.3 Grams	Ru	<i>Rhodiola rosea</i>	Yellow Everlasting	25.00%	0.3 Grams	Ru	<i>Rhodiola rosea</i>	Yellow Everlasting
25.00%	0.3 Grams	Wet	<i>Wetlandia missa</i>	Pink Everlasting	25.00%	0.3 Grams	Wet	<i>Wetlandia missa</i>	Pink Everlasting
25.00%	0.3 Grams	Wp	<i>Wetlandia purpurea</i>	White Everlasting	25.00%	0.3 Grams	Wp	<i>Wetlandia purpurea</i>	White Everlasting
33.33%	3	Con	<i>Conostyche candidans</i>	Cotton Head	33.33%	3	Con	<i>Conostyche candidans</i>	Cotton Head
33.33%	3	Hvu	<i>Homalium purpurum</i>	Common Innea	33.33%	3	Hvu	<i>Homalium purpurum</i>	Common Innea
33.33%	3	Eco	<i>Kennedia occidentalis</i>	Running Postman	33.33%	3	Eco	<i>Kennedia occidentalis</i>	Running Postman
50.00%	0.3 Grams	Tco	<i>Trichlyma caerulea</i>	Blue Lace Flower	50.00%	0.3 Grams	Tco	<i>Trichlyma caerulea</i>	Blue Lace Flower
33.33%	3	Cl	<i>Claytonia rosea</i>	Wedgie Leaf	33.33%	3	Cl	<i>Claytonia rosea</i>	Wedgie Leaf
33.33%	3	Lch	<i>Lachnoloba hibernica</i>	Shiny	33.33%	3	Lch	<i>Lachnoloba hibernica</i>	Shiny
33.33%	3	Vte	<i>Verticordia densiflora</i>	Pink Feather Flower	33.33%	3	Vte	<i>Verticordia densiflora</i>	Pink Feather Flower
25.00%	0.3 Grams	Pch	<i>Podolobos chrysanthus</i>	Seed	25.00%	0.3 Grams	Pch	<i>Podolobos chrysanthus</i>	Seed
25.00%	0.3 Grams	Ppn	<i>Podolobos gnaphalodes</i>	Seed	25.00%	0.3 Grams	Ppn	<i>Podolobos gnaphalodes</i>	Seed
25.00%	0.3 Grams	Ww	<i>Wetlandia missa</i>	Yellow	25.00%	0.3 Grams	Ww	<i>Wetlandia missa</i>	Yellow
25.00%	0.3 Grams	Wp	<i>Wetlandia purpurea</i>	Pink or White	25.00%	0.3 Grams	Wp	<i>Wetlandia purpurea</i>	Pink or White
50.00%	3	Per	<i>Ptilotus exaltatus</i>	Pink Thula	50.00%	3	Per	<i>Ptilotus exaltatus</i>	Pink Thula
50.00%	3	Tmo	<i>Thymus multiflorus</i>	Many-bowered Fringe Lily	50.00%	3	Tmo	<i>Thymus multiflorus</i>	Many-bowered Fringe Lily

NOTE: LEPIDOSPERMA GLADIATUM AND SPYRIDUM GLOBULOSUM TO BE PLANTED MIN. 100MM FROM PATHS, ROADS AND CARPARK. ALL OTHER FOOTED PLANTS TO BE INSTALLED MIN. 250MM FROM THE ABOVEMENTIONED SURFACES.

REV	DATE	ISSUE
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LEGEND

- EXTENT OF WORKS
- EXISTING TREE/ PROTECTION ZONE SHOWN AS DASH-DOT REFER SPECIFICATION
- EXISTING VEGETATION TO REMAIN IN-PLACE REMOVE WEEDS AND INFILL PLANT
- MASS PLANTING
- WILDFLOWER PLANTING
- FLAT MARSH
- ROLL-ON TURF
- SHADE STRUCTURE WITH PICNIC BENCH
- PICNIC SETTING
- BENCH SEAT
- LIMESTONE WALL
- CONCRETE EDGING
- BUBBLE-UP PIT BY CIVIL
- BIKE RACKS (1200MM BETWEEN RACKS)
- GATE TO CARPARK

NOTES

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WHERE MIXED PLANTING IS PROPOSED PLANT IN GROUPS OF 3, 5 OR 7 OF THE SAME SPECIES.

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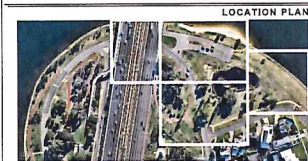
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MILLERS POOL
 CLIENT: CITY OF SOUTH PERTH

PLANTING PLAN 03

L09 - L
 SCALE 1:200 @ A1
 0 2 4 6 8 10 20m

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LEGEND

01 SHADE STRUCTURE SECTION B - B
L10 DETAIL SECTION SCALE 1:20 @ A1

02 SHADE STRUCTURE BASE PLATE
L10 DETAIL SECTION SCALE 1:20 @ A1

03 SHADE STRUCTURE FOOTING
L10 DETAIL SECTION SCALE 1:20 @ A1

04 FRP SIDE PANELS TO SHADE STRUCTURE
L10 DETAIL ELEVATION SCALE 1:50 @ A1

05 FRP SHADE STRUCTURE SETOUT
L10 PLAN SCALE 1:100 @ A1

06 HOLDING DOWN BOLT ENGINEERING DETAIL
L10 TYPICAL DETAIL SCALE NTS

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SHELTER DETAILS

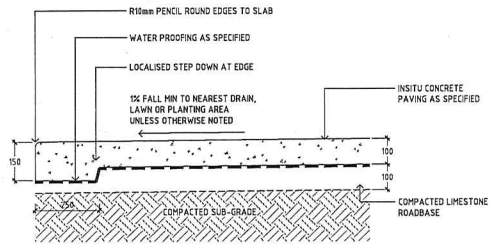
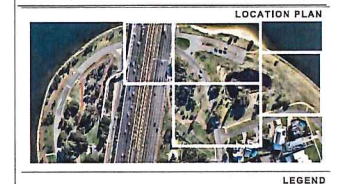


L10 - L

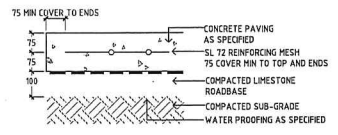
SCALE AS SHOWN



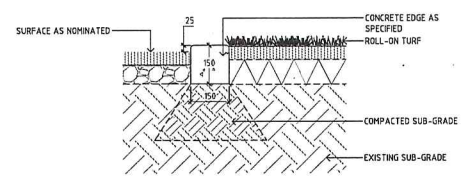
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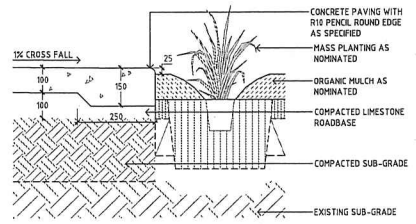
01 CONCRETE PAVING
TYPICAL DETAIL SCALE 1:10 @ A1



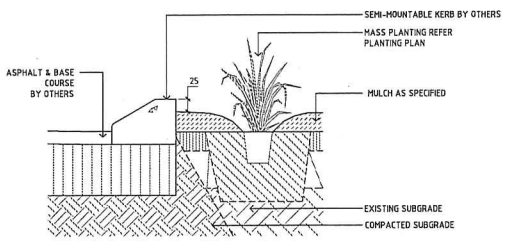
02 REINFORCED CONCRETE PAVING
TYPICAL DETAIL SCALE 1:10 @ A1



03 CONCRETE EDGE
SECTION DETAIL SCALE 1:10 @ A1

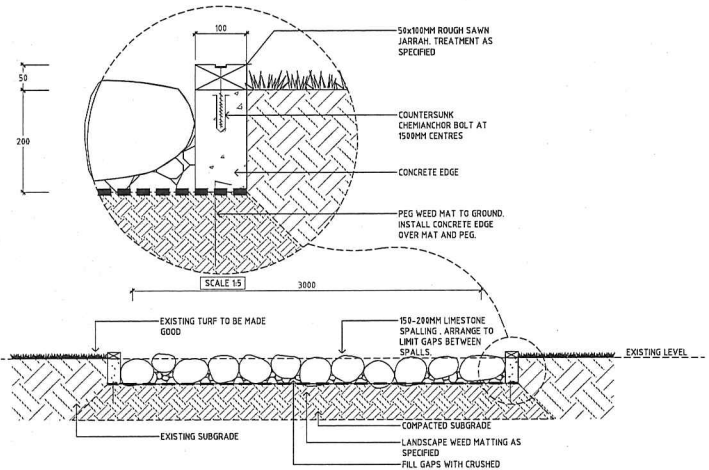


04 CONCRETE PAVING / MASS PLANTING
TYPICAL DETAIL SCALE 1:10 @ A1

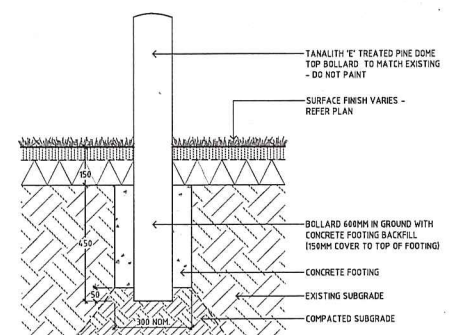


05 KERB / MASS PLANTING
TYPICAL DETAIL SCALE 1:10 @ A1

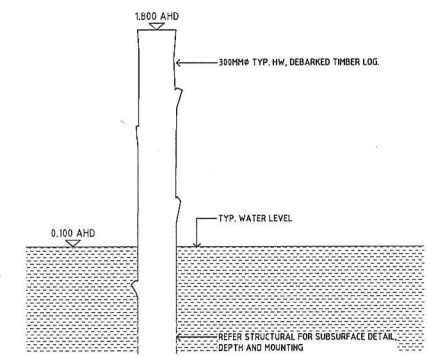
NOTE: REFER STRUCTURAL FOR EXPANSION AND CONTRACTION JOINTS. ALL MORTAR TO BE CLASS M3 WITH 1:1:6 OR 1:0.5 (GB / GP CEMENT : LIME : SAND) MIX. GREY CEMENT.



06 LOOSE LIMESTONE SPALLING
TYPICAL DETAIL SCALE 1:20 @ A1



07 BOLLARD
TYPICAL DETAIL SCALE 1:10 @ A1



08 ROOSTING POST
TYPICAL DETAIL SCALE 1:20 @ A1

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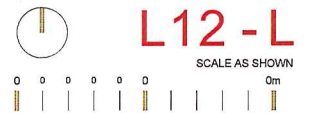


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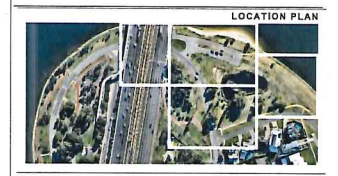
AUTHOR: TC CHECKED: SP PROJECT NO: 3246-14

MILLERS POOL
CLIENT: CITY OF SOUTH PERTH

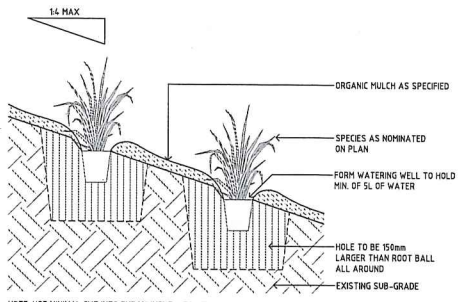
HARDWORKS DETAILS



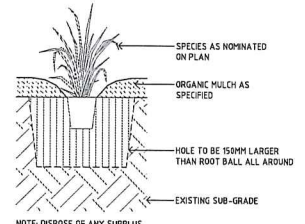
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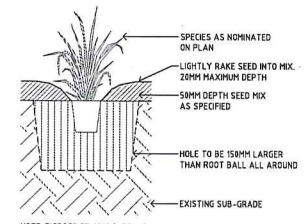
LEGEND



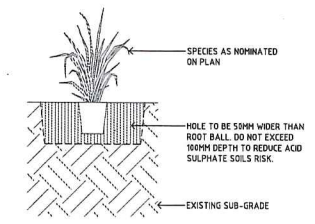
D01 MASS PLANTING ON SLOPE
SCALE 1:10 @ A1



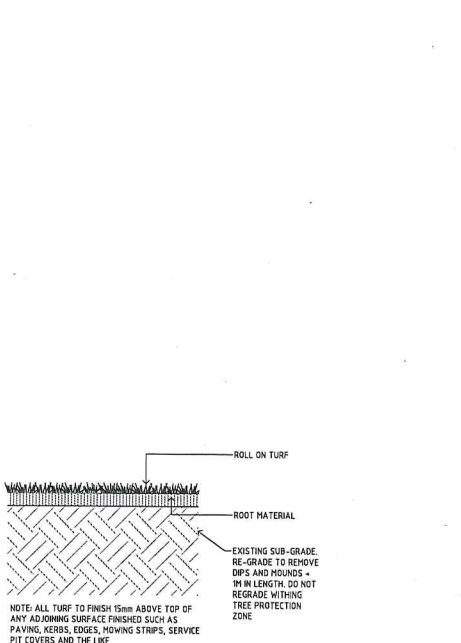
D02 MASS PLANTING / TREES <= 10L
SCALE 1:10 @ A1



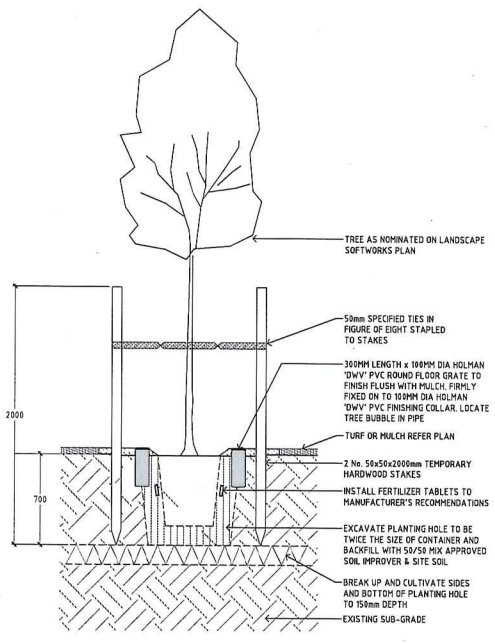
D03 WILDFLOWER PLANTING
SCALE 1:10 @ A1



D04 FLAT MARSH
SCALE 1:10 @ A1



D05 ROLL-ON TURF
SCALE 1:10 @ A1



D06 TREE > 10L IN MULCH OR TURF
SCALE 1:20 @ A1

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SOFTWAREKS DETAILS

L13-L
SCALE AS SHOWN