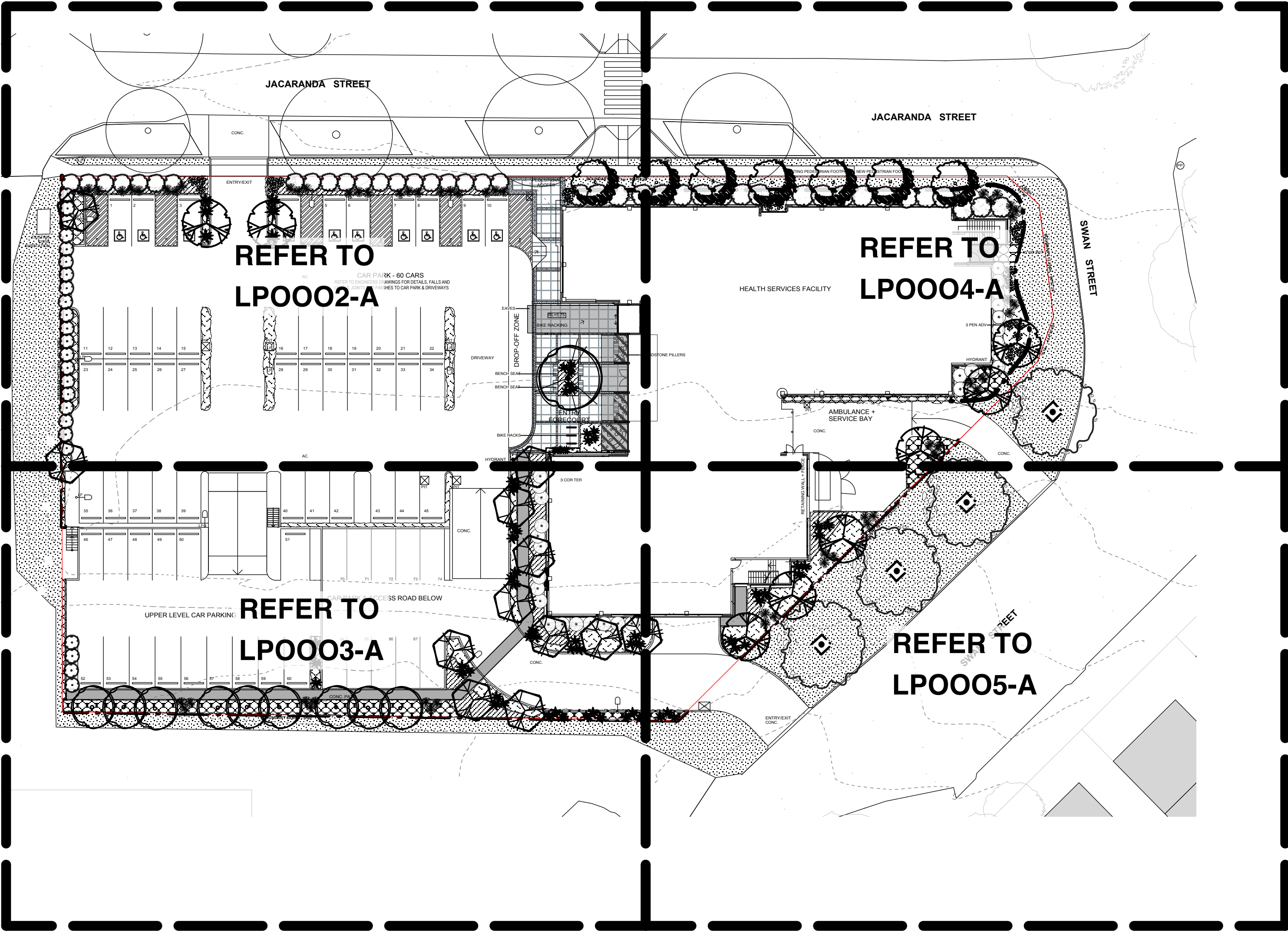
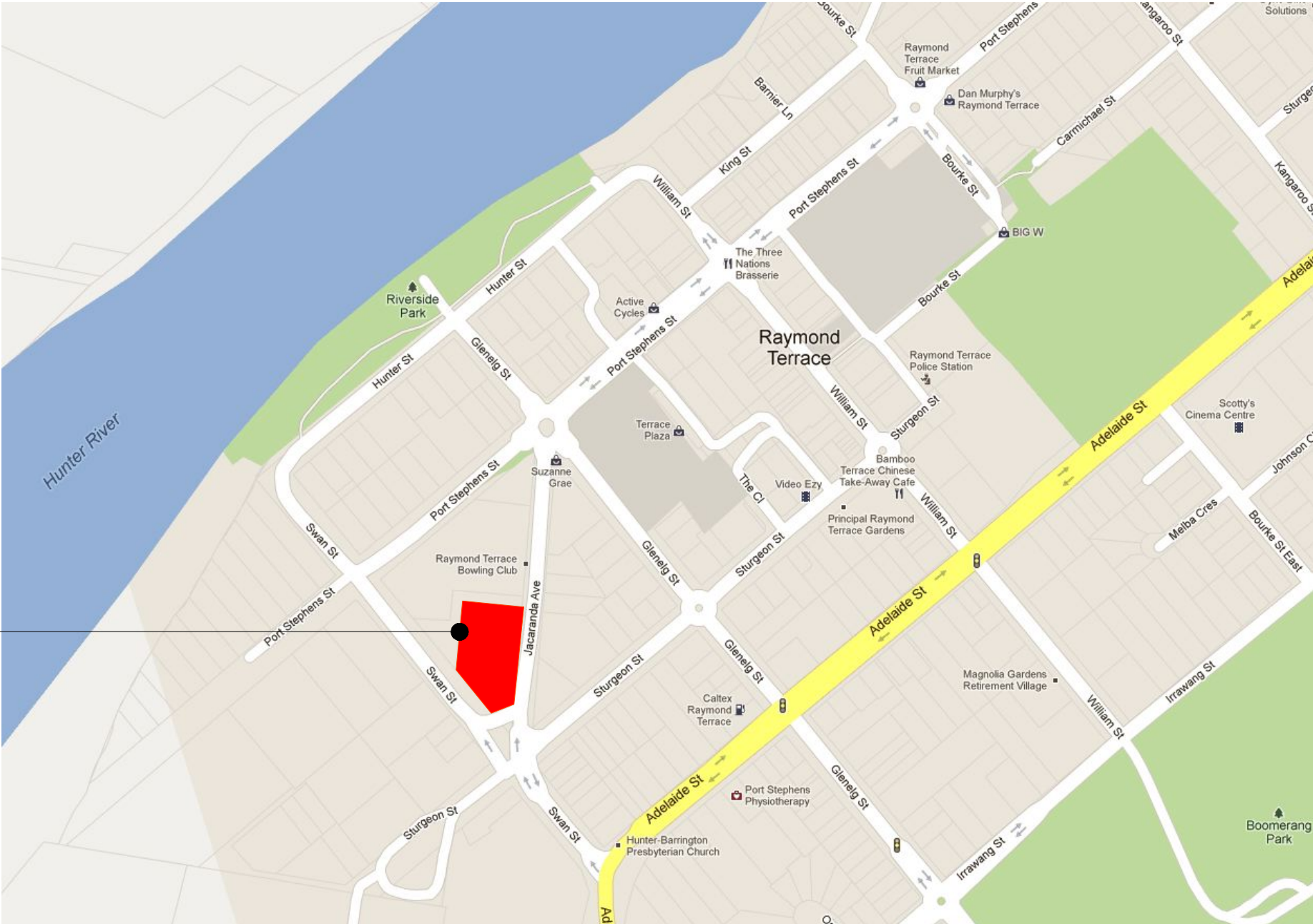


GP SUPER CLINIC HEALTH ONE - RAYMOND TERRACE LANDSCAPE DEVELOPMENT CONSTRUCTION DOCUMENTATION JACARANDA AVENUE, RAYMOND TERRACE




SITE MAP: SCALE: 1:350 (A1)

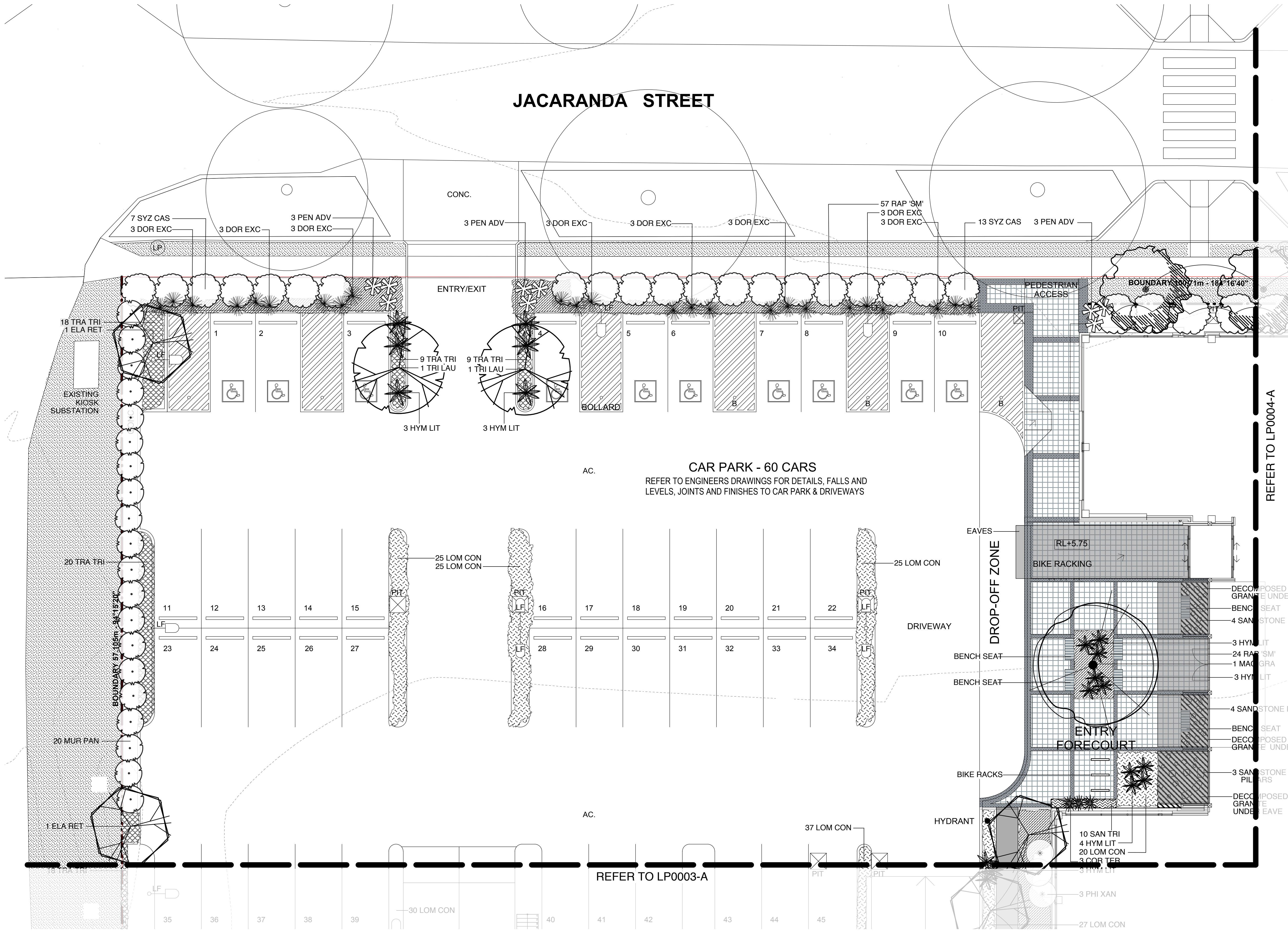


LOCALITY MAP: SCALE: (NTS)
SOURCE: GOOGLE MAPS

DRAWING SCHEDULE:

DWG NO	DESCRIPTION	REVISION
LP0001	LANDSCAPE DEVELOPMENT - TITLE PAGE	A
LP0002	LANDSCAPE DEVELOPMENT - PLANTING PLANT 1 OF 4	A
LP0003	LANDSCAPE DEVELOPMENT - PLANTING PLANT 2 OF 4	A
LP0004	LANDSCAPE DEVELOPMENT - PLANTING PLANT 3 OF 4	A
LP0004	LANDSCAPE DEVELOPMENT - PLANTING PLANT 4 OF 4	A
LP0006	LANDSCAPE DEVELOPMENT - DETAILS	A

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Iss.	Date	Appr	Revision Notes
A	18-04-12	-	PRELIMINARY - NOT FOR CONSTRUCTION
CLIENT: HEALTH ONE			
PROJECT: GP SUPER CLINIC LANDSCAPE DEVELOPMENT CONSTRUCTION DOCUMENTATION JACARANDA ST, RAYMOND TERRACE			
DRAWING TITLE: TITLE PAGE			
DRAWN BY: SB		DATE: 18.04.12	
CHECKED BY: PJW		SCALE: AS NOTED	
APPROVED BY: DM		NOTES: REFER TO PLAN	
0779			
			



- LEGEND**
- HARDSCAPE**
- PT1 - PAVING TYPE 1
 - PT2 - PAVING TYPE 2
 - PT3 - PAVING TYPE 3
 - PT4 - PAVING TYPE 4
- SOFTSCAPE**
- TURF - A GRADE GREEN COUCH
 - EDGING - 150 x 50 TREATED PINE
- TREES**
- EUCALYPTUS CUMALDULENSIS SP.
 - MAGNOLIA GRANDIFLORA (BULL BAY MAGNOLIA)
 - ACMENA SMITHII (LILLY PILLY)
 - ELEOCHARIS RETICULATUS (BLUEBERRY ASH)
 - TRISTANOPSIS LAURINA 'LUSCIOUS'
 - WATERHOUSSIA FLORIBUNDA 'SWEEPER'
- SHRUBS**
- PHILODENDRON 'KANADI' (DWARF PHILODENDRON)
 - MURRAYA PANICULATA (ORANGE JASMINE)
 - SYZIGIUM 'CASCADE' (LILLY PILLY)
- FEATURE PLANTS**
- PENNISETUM ADVENNA 'RUBRUM' (FOUNTAIN GRASS)
 - DORYANTHES EXCELSA (GYMEA LILY)
 - HYMENOCALLIS LITTORALIS (SPIDER LILY)
 - CORDYLINE TERMINALIS 'RUBRA'
- MASS PLANTING**
- LOMANDRA CONFERTIFOLIA (MATT RUSH CULTIVAR)
 - LOMANDRA LONGIFOLIA 'TANIKA'
 - RAPHIOLEPSIS 'SNOW MAIDEN'
 - TRACHELOSPERMUM TRICOLOR (STAR JASMINE)
 - SANSEVIERIA TRIFASCIATA (MOTHER IN LAWS TONGUE)
 - VIOLA X WITTRICKIANA (PANSY)

REFER TO LP0004-A

CAR PARK - 60 CARS
REFER TO ENGINEERS DRAWINGS FOR DETAILS, FALLS AND LEVELS, JOINTS AND FINISHES TO CAR PARK & DRIVEWAYS

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CLIENT:	HEALTH ONE
PROJECT:	GP SUPER CLINIC LANDSCAPE DEVELOPMENT CONSTRUCTION DOCUMENTATION JACARANDA ST, RAYMOND TERRACE
DRAWING TITLE:	LANDSCAPE PLAN 1 of 4
DRAWN BY:	SB
CHECKED BY:	PW
DATE:	18.04.12
SCALE:	1: 100 (A1)
APPROVED BY:	DM
JOB NUMBER:	0779



LANDSCAPE SPECIFICATION

1.0 GENERALLY
Discrepancies within the planting schedule and the drawing should be referred to Moir Landscape Architecture for clarification. Make no substitutions unless approved. Substitutions shall not be approved unless the contractor complies with this specification. The specification shall take precedence over the Landscape Notes should discrepancies (not including omissions) occur between the two.

2.0 PLANT MATERIAL
Trees shall be of the species, sizes and quantities as shown on the drawing. Trees shall be vigorous, well established, of good form, not soft or forced, free from disease and insect pests. Trees shall have large healthy root systems, not root bound and all trees with a single leading shoot. (Refer to NATSPEC Tree Supply).

3.0 WEED CONTROL
Remove weeds prior to planting in areas heavily infested. Initial application of a glyphosphate herbicide equal to Roundup Bi-Active to the manufacturers recommendation and is suitable weather conditions (sunny weather, no rain or wind). Ensure and adequate time lapse between herbicide application and site disturbance to ensure that target vegetation is dead. Continue to reapply in two week intervals if target vegetation does not respond initially.
Vegetative spoil
Remove vegetative spoil from site. Do not burn.

4.0 SITE SOIL
Definitions
Site topsoil: soil excavated from the site which has the following characteristics:
Contains minimum 2% organic matter, supports plant life, and is free from unwanted matter

Unwanted matter (in topsoil):
Stones over 25mm diameter, clay lumps, weeds and tree roots, sticks and rubbish and material toxic to plants.

TOPSOIL
General: Where available use ameliorated site topsoil. Where unavailable Import topsoil from an off-site source approved by the Superintendent.

Source Landscape Soil:
Soil to be used for these landscape works shall be: Ameliorated site topsoil and or Imported General Purpose Soil to the areas and locations as specified.

Soil for the works shall be free from noxious weeds etc. Soil shall be assumed to be placed to all revegetated areas and backfill to all plantings. Unless otherwise directed by site superintendent, the landscape contractor is responsible for the removal and or disposal of all spoil or excess soil excavated in the process of implementing the landscape works.

Soil Tests
Sampling: As recommended in AS 4419 (1998) Appendix A (when on site soil is to be used).

Sampling technique: The following sampling technique should be used in conjunction with the guidelines recommended in AS 4419 (1998). Where discrepancies arise, refer to the Superintendent for clarification prior to proceeding with any works.

The Contractor shall arrange for the following soil tests to be carried out:

- Three tests of any proposed imported topsoil; and
- Where Site topsoil is to be used, three site topsoil tests by an approved soil testing laboratory as specified, from topsoil stockpiles.

For each test, take six samples of each soil type. These should be taken from various locations. Each sample should be approximately a spade full in quantity.
For each soil type, thoroughly mix the six samples together to obtain an 'average' sample. Ensure that mixing is carried out in a clean mixing container, with no impurities such as cement residue or imported soil etc present. Extract 1kg (approximately a 2L icecream container) final samples from each of the three mixed batches. Package and forward to the soil laboratory for testing, together with a site plan locating sources of soil samples and a record of any relevant details about the site and source locations.

Type of Soil Test Required: The Contractor shall specify that a 'major soil test' is required, for the purpose of analysing the characteristics and recommendations for use as a landscaping topsoil for native species.
Results: The results of all soil tests should be submitted to the superintendent when available
Lead time: Allow a minimum of five full working days for completion of soil testing, and check with laboratory to ensure testing will not delay landscaping works. Supply soil tests to site superintendent once available.

SUBSOIL
Excavated Planting Beds
All other Mass planting beds: Where defined planting beds are indicated on the landscape drawings with specific species scheduled and no turfing shown, treat as an excavated landscape planting bed

Excavation technique: Excavate to backfill with improved site topsoil or general purpose soil to bring the subsoil to 300mm below finished design levels, to allow for mulching and placement of imported soil. Where excavation is required below 375mm due to tree roots or other obstacles, backfill to 200mm below finished design levels with On Site Soil or General Purpose Soil should quantities of On Site Soil be insufficient. Cultivate the subsoil to a further depth of 150 mm.

ADDITIVES
Additive types and rates: The Contractor shall incorporate additives to the subsoil or topsoil at rates recommended by the soil test results.

Application: Where subsoil additives (eg. Gypsum) are recommended by the soil tests apply additives after cultivation of the subsoil.
Where site topsoil is to be stockpiled for reuse, incorporate additives as recommended in soil tests by cultivating through the topsoil. For excavated garden beds or ba ckfill to planting holes, incorporate additives into stockpiled topsoil prior to placement. In all situations, ensure additives are thoroughly mixed through topsoil.

FERTILISERS AND ADDITIVES
Apply fertilisers according to the manufacturer's recommendations and recommended rates. Use slow release fertiliser pellets placed to the bottom of the planting hole for plants. Spread fertiliser over topsoil before laying turf.
PLANTS (5L & 25 L POTS) Slow release fertiliser. N:P:K 20:4:8 + trace elements 'TREEMAX Typhoon 20g TABLET' or an approved equivalent.

SOIL TEXTURES
Use soils described by the following terms (or their equivalents) which comply generally with the texture classifications and typical uses of AS 4419 -(1998)
Table H1 Medium textured - Sandy loam
Finished soil levels shall allow turf or mulch to be finished to top of kerb, gravel pavement, existing levels or as otherwise shown on drawings.

Consolidation
Compact lightly and uniformly in 150 mm layers. Avoid differential subsidence and excess compaction and produce a finished topsoil surface which has the following characteristics:
- Finished to design levels.
- Smooth and free from stones or lumps of soil.
- Graded to drain freely, without ponding, to catchment points.
- Graded evenly into adjoining ground surfaces.
- Ready for planting.

Surplus topsoil
Dispose of surplus topsoil remaining on site as directed by site superintendent.

BACKFILL SOIL
Backfill holes using 100% site soil. The contractor to conduct a pH test on the site soil and recommend any necessary remediation strategies to achieve optimal pH level (neutral 5.5%)
NB: Stock pile site soil onsite. Confirm stockpiles of site soil with superintendent prior to placement of materials. Site soil to be free from debris and weeds. Finished soil levels shall allow for mulch to be finished with surropunding turf.

PLANT PROTECTION
Temporary rabbit-proof fencing to align with extent of basin works. Fencing must be of an adequate material and height and the base folded to a minimum 250mm width away from planting zone and buried.

Plastic polyethylene tube UV stabilised. 'TREEMAX Heavy Duty Sleeve' Fixed with three bamboo stakes or an approved equivalent. As noted in the plant schedule.

5.0 WORK NEAR TREES – GROUNDWORKS
PROTECTION: Protect trees to be retained from damage from ground works. Take necessary precautions, including the following:-

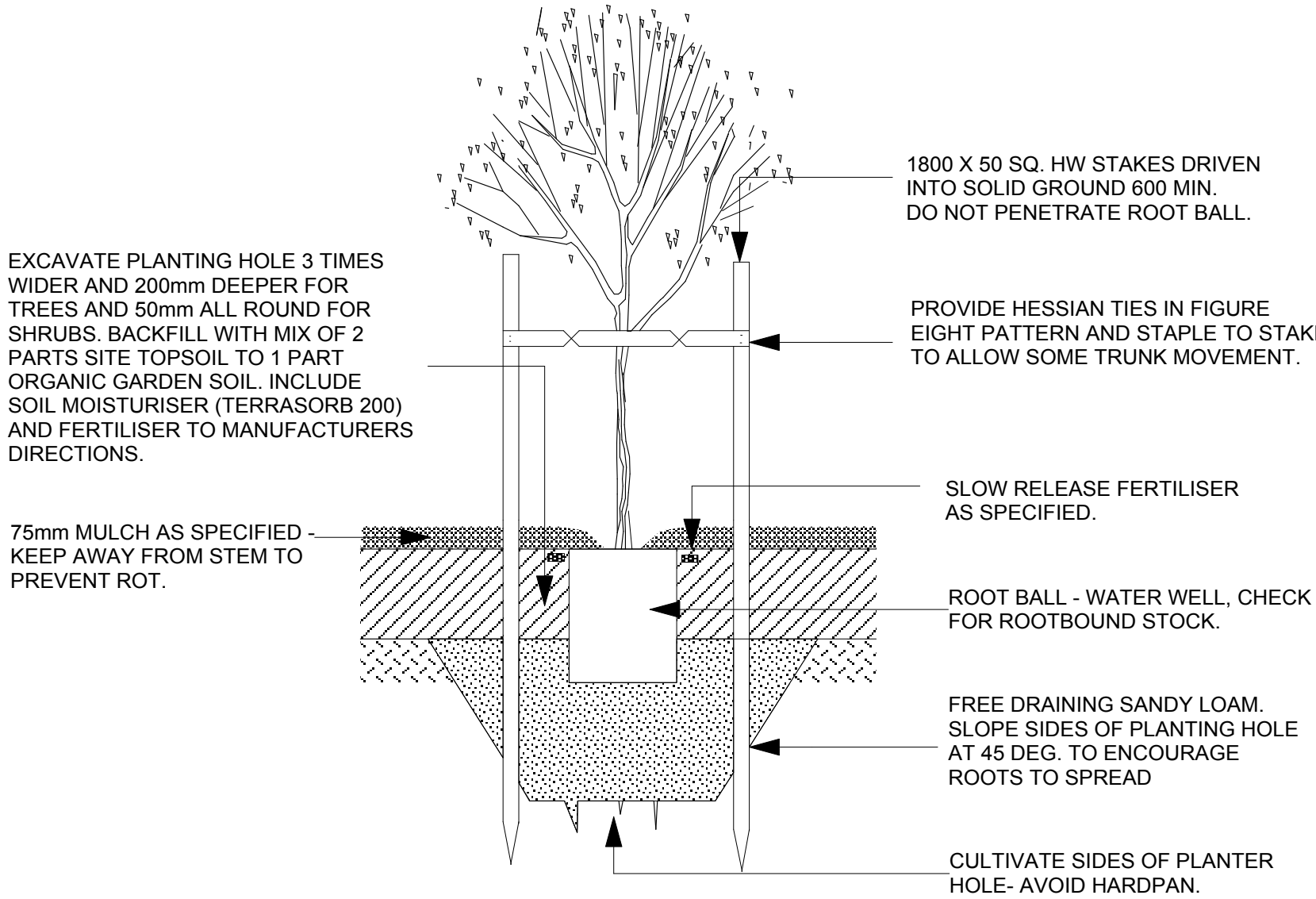
HARMFUL MATERIALS: Do not store or otherwise place bulk materials and harmful materials under or near trees. Do not place spoil from excavations against tree trunks, even for short periods. Prevent wind blown materials from materials such as cement from harming trees and plants.
DAMAGE: prevent damage to tree bark. Do not attach stays, guys and the like to trees.
WORK UNDER TREES: Do not add or remove topsoil within the drip line, use hand methods such that root systems are preserved intact and undamaged. Open up excavations under tree canopies for as short a period as possible.
ROOTS: Where it is necessary to cut tree roots, use means such that the cutting does not unduly disturb the remaining root system. Work to be inspected by Superintendent prior to covering.
COMPACTED GROUND: Prevent compaction of the ground under trees.

6.0 MULCH
Use mulch which is free of deleterious and extraneous matter such as soil, weeds and sticks. Place mulch to the required depth (75mm), clear of plant stems, and rake to an even surface flush with surrounding finished levels.
Mulch type shall be: 'Forest Blend' (Coarse 20-40mm) as supplied by Australian Native Landscape or an approved equivalent.

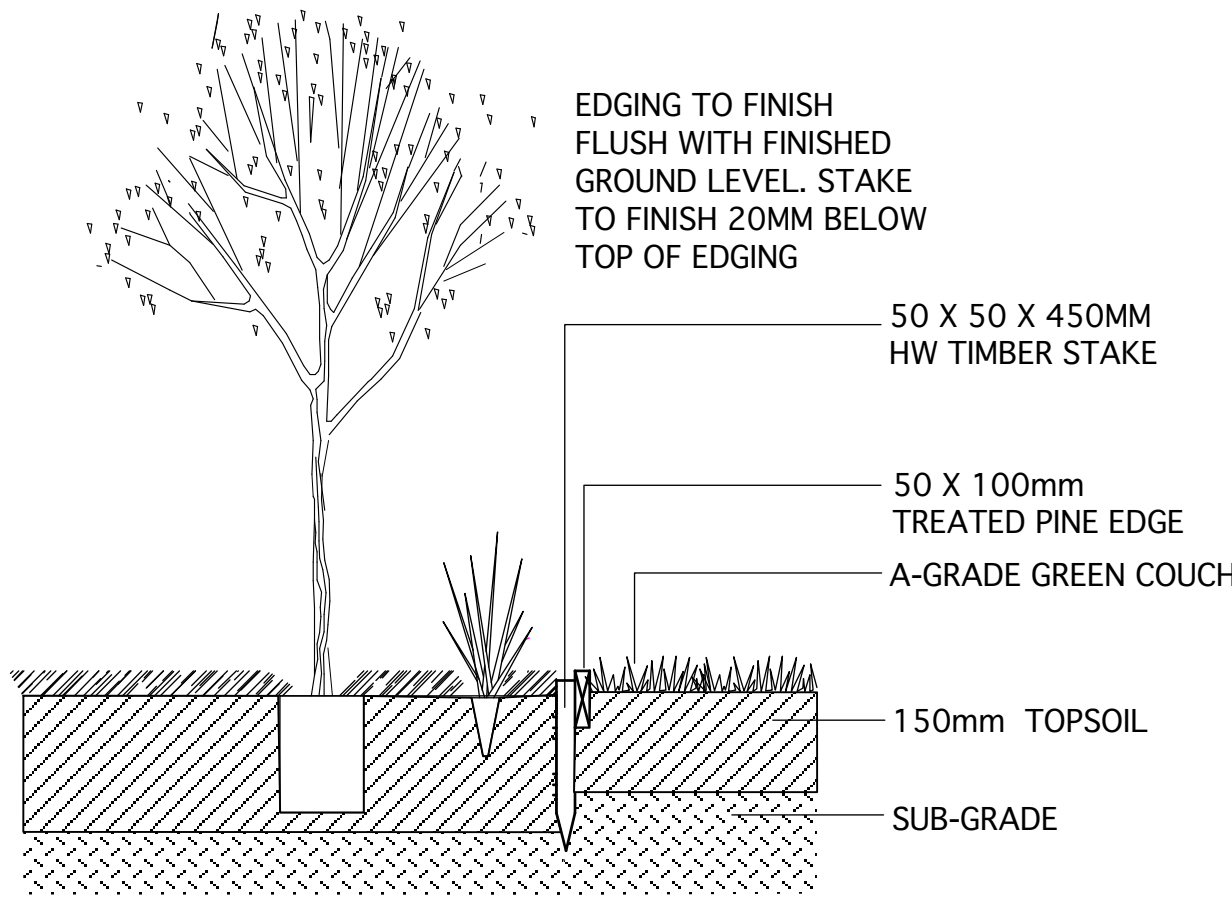
7.0 EDGING
Timber edging shall be located to all planter bed edges adjoining gravel or other soft edges such as grass or turf. Use 38 X 100 mm treated pine edging with 50 x 50 pegs at 1200 centres finished 30 mm below top of edging. Decrease edging thickness to acheive curving.

PLANT SCHEDULE - GP SUPER CLINIC

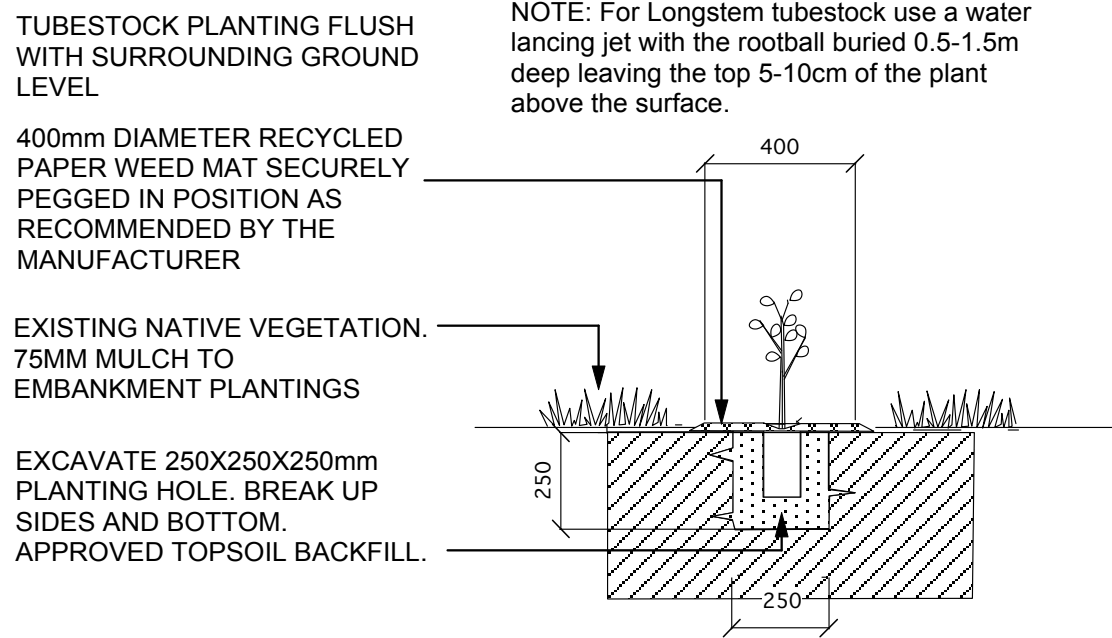
PLANT SCHEDULE				
CODE	BOTANICAL NAME	COMMON NAME	POT SIZE	QTY
TREES				
ACM smi	<i>Acmena smithii</i>	Lilly Pilly	25 Ltr	7
ELA ret	<i>Elaeocarpus reticulatus</i>	Blueberry Ash	25 Ltr	12
EUC cam	<i>Eucalyptus camaldulensis</i>	River Red Gum	25 Ltr	4
MAG gra	<i>Magnolia 'Little Gem'</i>	Magnolia	25 Ltr	1
TRI lau	<i>Tristaniopsis laurina</i>	Water Gum	25 Ltr	8
WAT flo	<i>Waterousia floribunda 'Sweeper'</i>	Weeping Lilly Pilly	25 Ltr	9
SHRUBS				
MUR pan	<i>Murraya paniculata</i>	Orange Jasmine	200mm	24
PHI xan	<i>Philodendron 'Xanadu'</i>	Dwarf Philodendron	200mm	28
SYZ cas	<i>Syzgium 'Cascade'</i>	Lilly Pilly Cultivar	200mm	41
ACCENT PLANTS				
DOR exc	<i>Doryanthes excelsa</i>	Gymea Lilly	100mm	57
PEN rub	<i>Pennisetum advena 'Rubrum'</i>	Red Fountain Grass	100mm	24
HYM lit	<i>Hymenocallis littoralis</i>	Spider Lily	100mm	58
COR ter	<i>Cordyline terminalis 'Rubra'</i>	Cordyline Rubra	100mm	3
SAN tri	<i>Sansevieria trifasciata</i>	Mother in Law Tongue	100mm	10
GRASSES / GROUNDCOVERS				
LOM con	<i>Lomandra confertifolia</i>	Matt Rush	TUBE	614
LOM lon	<i>Lomandra longifolia 'Tanika'</i>	Matt Rush	TUBE	308
RAP sno	<i>Raphiolepis 'Snow Maiden'</i>	Dwarf Snow Maiden	TUBE	291
TRA tri	<i>Trachelospermum 'Tricolour'</i>	Variegated Star Jasmine	TUBE	152
VIO wit	<i>Viola x wittrockiana</i>	pansies	TUBE	40



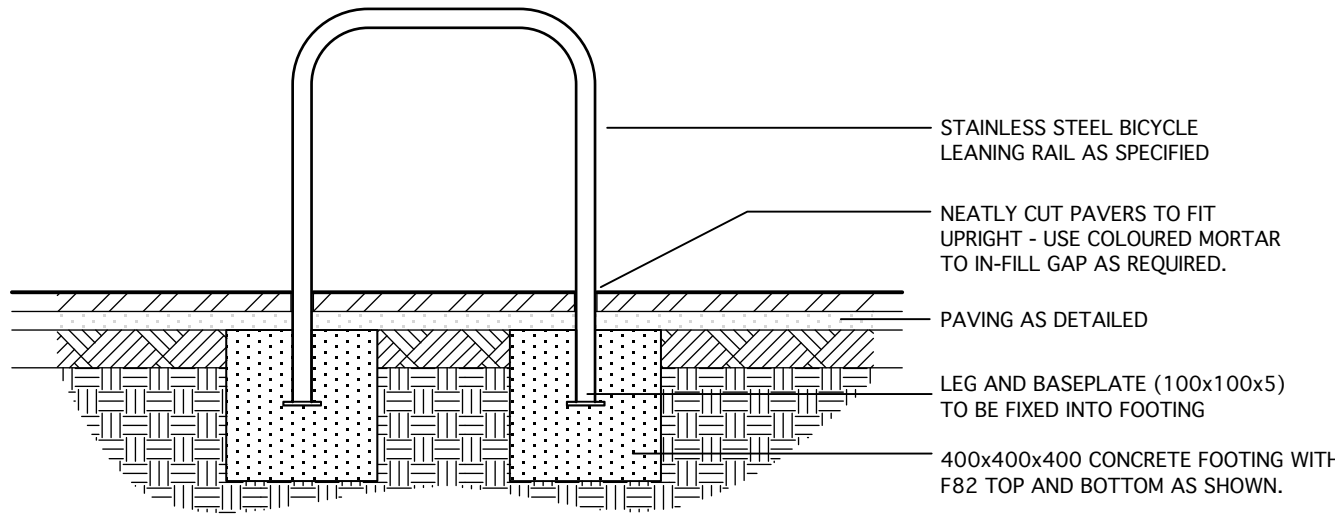
D01
LP006
TYPICAL TREE PLANTING DETAIL
SCALE: 1:20



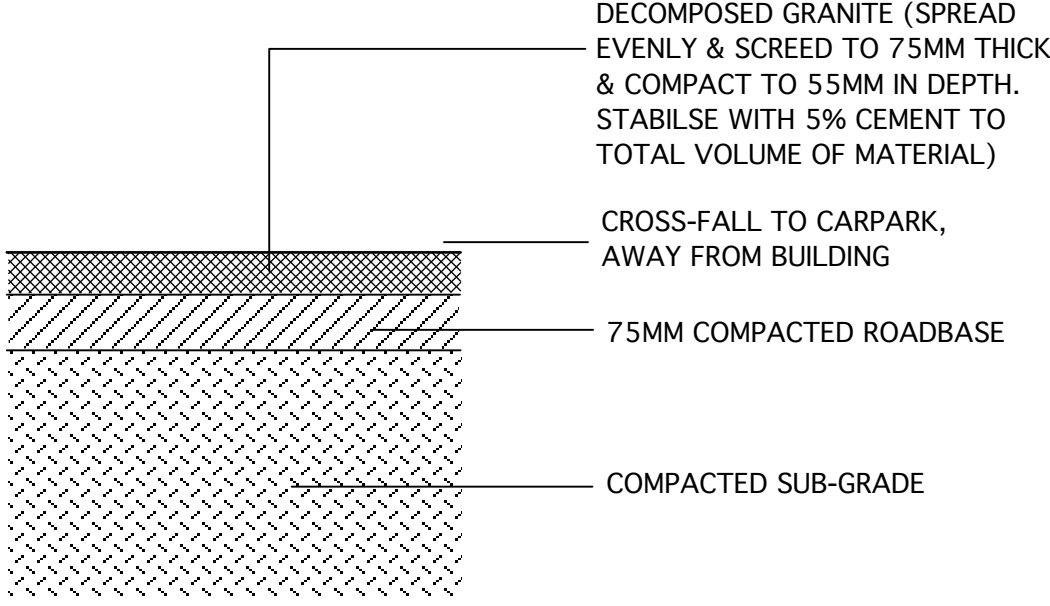
D03
LP006
TYPICAL TIMBER EDGING DETAIL
SCALE: 1:20



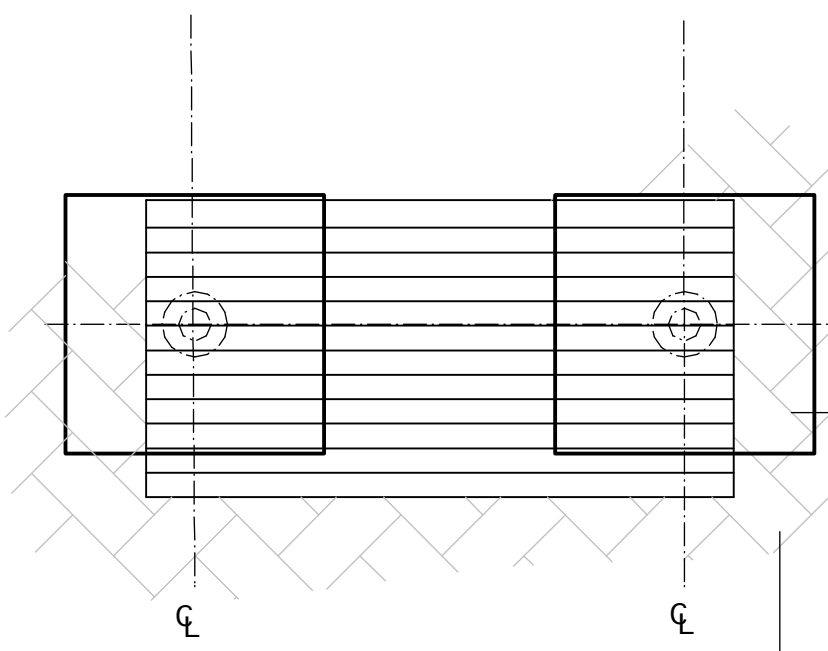
D02
LP006
TYPICAL TUBESTOCK PLANTING DETAIL
SCALE: 1:20



D04
LP006
TYPICAL DETAIL BICYCLE LEAN RAIL
SCALE: 1:20

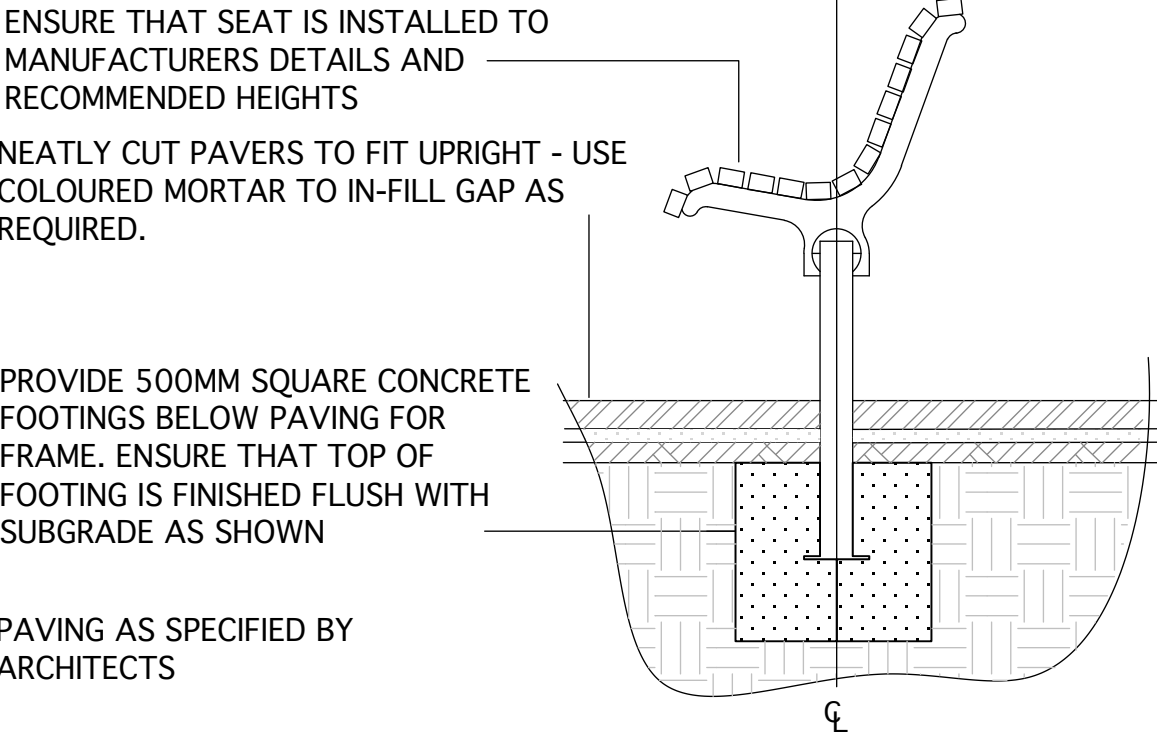


D05
LP006
TYPICAL DECOMPOSED GRANITE DETAIL
SCALE: 1:10



D06
LP006
BENCH SEAT DETAIL
SCALE: 1:20

NOTE:
REFER TO SPECIFICATIONS FOR FINISHES / ITEMS ETC.



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CLIENT: HEALTH ONE

PROJECT: GP SUPER CLINIC
LANDSCAPE DEVELOPMENT
CONSTRUCTION DOCUMENTATION
JACARANDA ST, RAYMOND TERRACE

DRAWING TITLE: DETAILS & PLANT SCHEDULE

DRAWN BY: SB	DATE: 18.04.12
CHECKED BY: PW	SCALE: NTS
APPROVED BY: DM	NORTHPOINT: N
JOB NUMBER: 0779	

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Drawing No: LP0006	Issue: A
Sheet No: 6 of 6	