

DENILIKUIN MICRO SOLAR FARM

LANDSCAPE DOCUMENTATION

CLIENT

Chris Smith
& ASSOCIATES

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Green Gold Energy

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VIC 3000

PREPARED BY



Landscape Architect
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DESIGN STATEMENT

The following landscape plans and associated planting schedule have been prepared to ensure the integration of the proposed Denilquin Micro Solar Farm within the existing site context and landscape character.

The 14.3Ha site is well suited to the proposed solar farm. It is situated on a large, flat block with excellent solar orientation, some nearby adjoining neighbours, extensive setbacks and a moderate level of exposure to the surrounding rural roads to the north, east, and west. The existing trees within the property at the eastern end and the neighbouring property to the immediate northwest provide sufficient screening on those interfaces. A moderate earth bund and existing road verge trees along Flanagan's Lane on the boundary of the neighbouring property in the north and northeast assist in providing additional screening.


The proposed approach to the landscape integration of the proposed facility is based on the establishment of a continuous band of high quality landscape screening to the eastern, northern, western and southern boundaries. This would comprise a mix of indigenous screen shrubs which includes a variety of hardy and fast growing species which are suited to the local soil and environmental conditions.

The plants will be sourced from a local nursery and propagated from local provenance stock. Four species mixes have been developed to provide visual interest and variety in foliage type, flowering times, growth heights, etc. Species have been selected with careful consideration of the habit, growth rate etc, to provide a dense screen of three layers of plants proposed within a 5m wide band on the boundaries closest to residential properties and public road ways, and two layers of plants are proposed within a 2m wide band on boundaries facing broad distances to the nearest public road ways and residential properties. Larger pot sized screen plants (including Brachychiton) will be planted in the areas which are closest to the existing residences to provide denser screening. Visual presentations have been prepared to illustrate the effect of the screen planting, including project growth rates to. A high level of screening should be able to be established within three years, with the facility effectively fully screened in around five years.

DRAWING REGISTER

Drawing List	
Sheet No.	Sheet Name
LD0.0	Cover Page
LD0.1	Legend
LD0.2	Site Plan
LD1.1	Existing Conditions Photos
LD2.1	Site Montage View 1
LD2.2	Site Montage View 2
LD2.3	Site Montage View 3
LD2.4	Site Montage View 4
LD2.5	Site Montage View 5
LD3.1	Planting Plan A
LD3.2	Planting Plan B
LD3.3	Planting Plan C
LD3.4	Planting Schedule & Details

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LANDSCAPE ARCHITECTS & URBAN DESIGN CONSULTANTS

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PLOT DATE | 8/11/2023

CAD FILE NAME | 23041_231023_Denilquin Micro Solar Farm_Concept.vwx

NORTH

SCALE
NA
1:

DW

PROJECT
23041
Deinilquin Micro Solar Farm

ADDRESS
39 Hogans Lane, Denilquin, NSW 2710

DRAWING NO.

REV #

LD0.0

DRAWING NAME
Cover Page

LEGEND

GENERAL

- 10000

Dimensions
- Extent Of Works
- Site Boundary

OVERALL

- Screen Planting
- Advanced Species Planting
- Overhead Power Line Buffer

PLANTING

- Mix A
- Mix B
- Mix C
- Mix D - Low growing to 3m max height
- Screening Plant Arrangement

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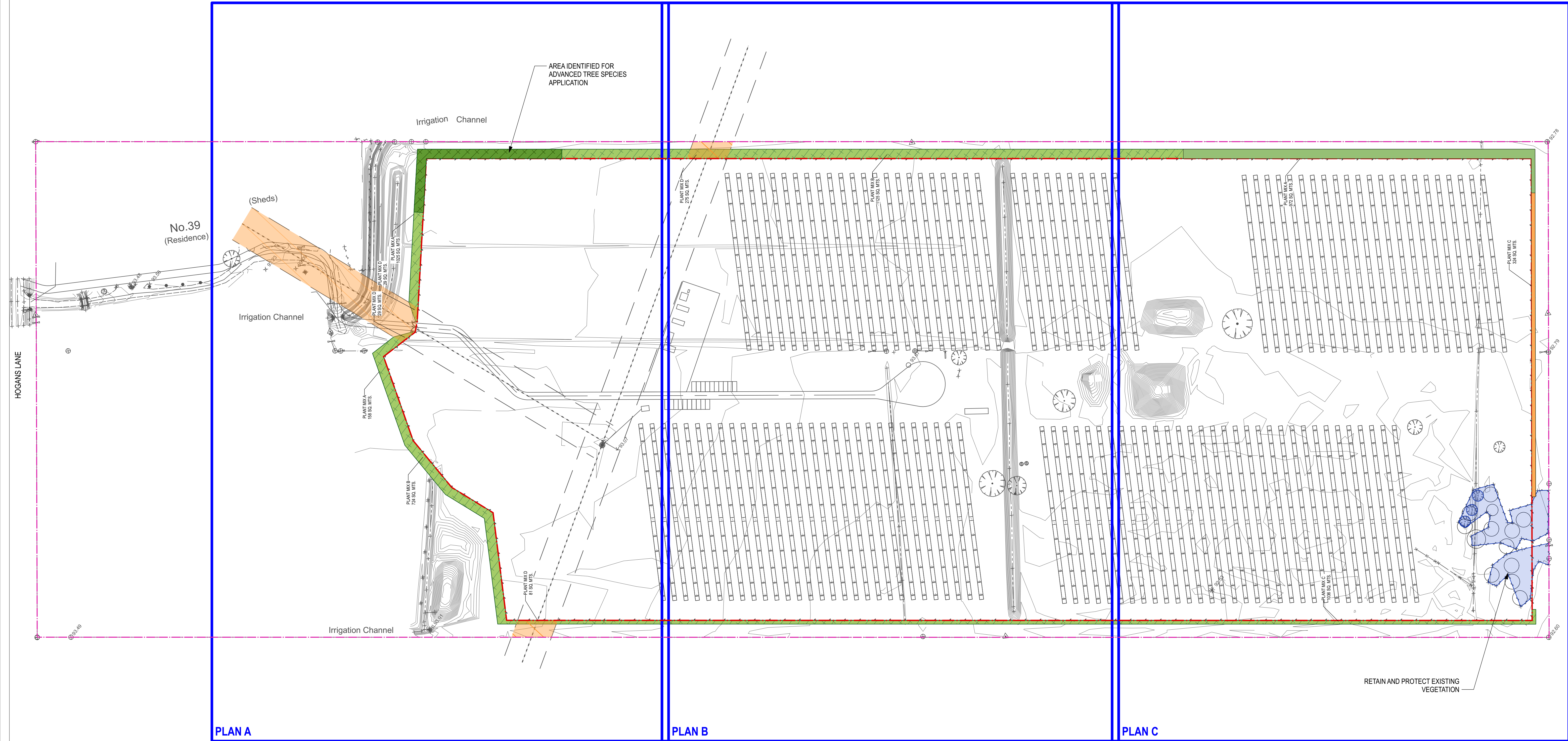
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Legend

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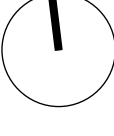
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ADDRESS
39 Hogans Lane, Deniliquin, NSW 2710

DRAWING NO. REV #
LD0.2

DRAWING NAME
Site Plan



1 Within 39 Hogans Lane - Northwest corner
- West towards East




View at 5 years growth

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ADDRESS

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DRAWING NO.

LD2.3

DRAWING NAME

Site Montage View 3

REV #



4 Flanagans Lane - North towards South



View at 5 years growth

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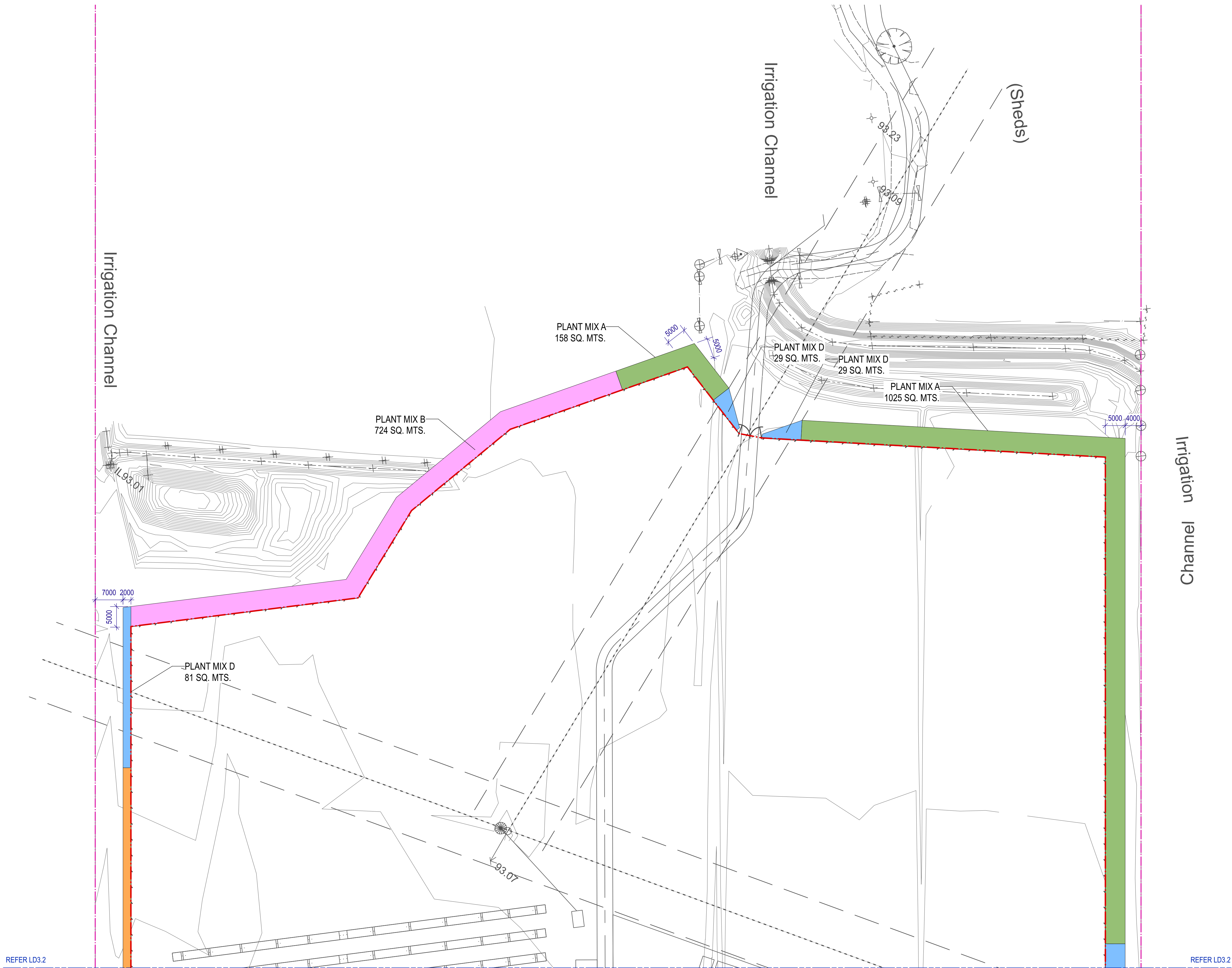


5 Flanagans Lane - East towards West



View at 5 years growth

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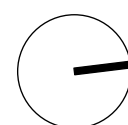
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PROJECT

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Deiniliquin Micro Solar Farm

ADDRESS

39 Hogans Lane, Deniliquin, NSW 2710

DRAWING NO.

LD3.1

DRAWING NAME

Planting Plan A

REV #

REFER LD3.1

REFER LD3.1

PLANT MIX D
275 SQ. MTS.

PLANT MIX B
1125 SQ. MTS.

REFER LD3.3

REFER LD3.3

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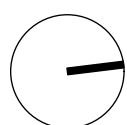
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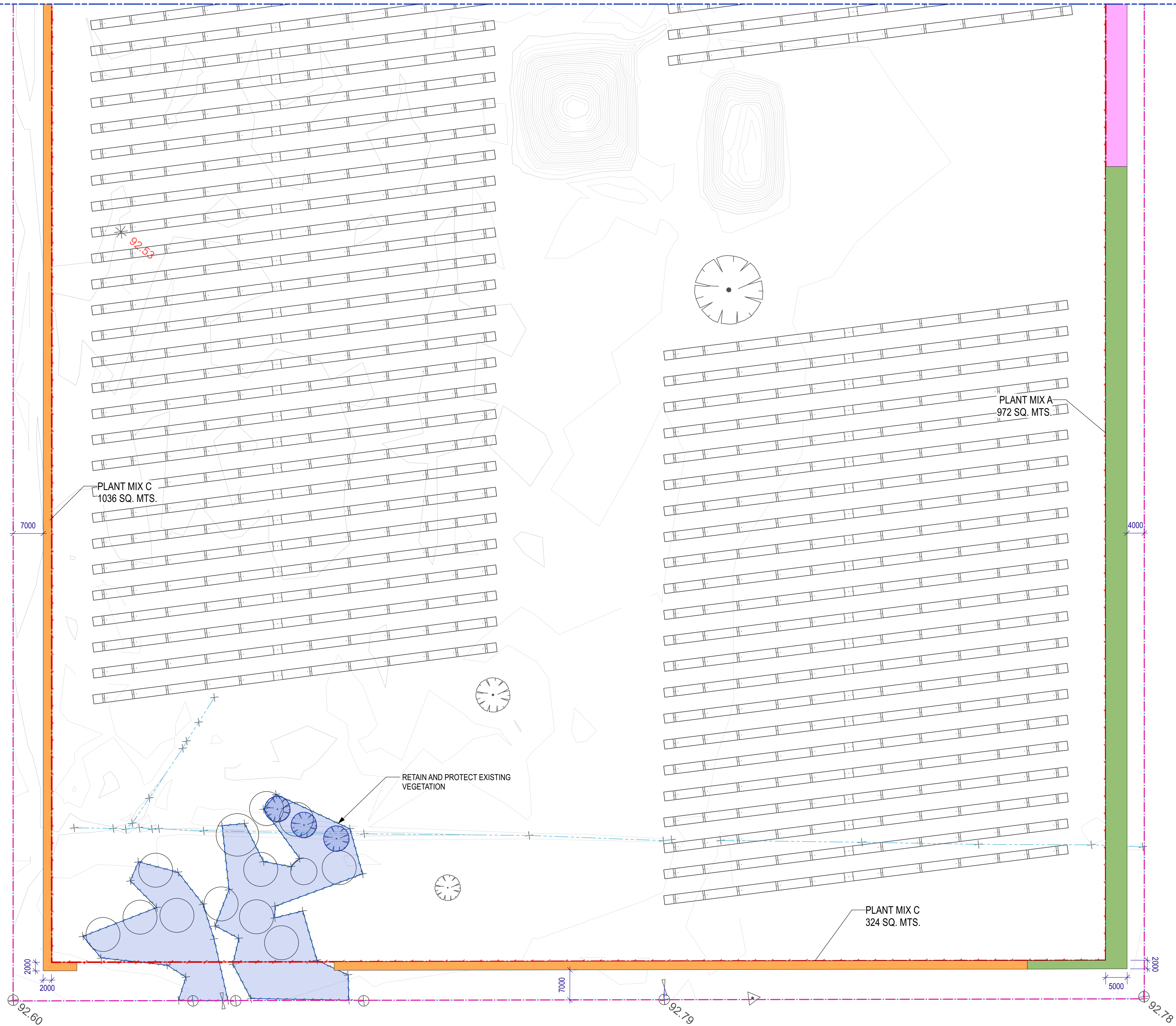
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Planting Plan B

REV #

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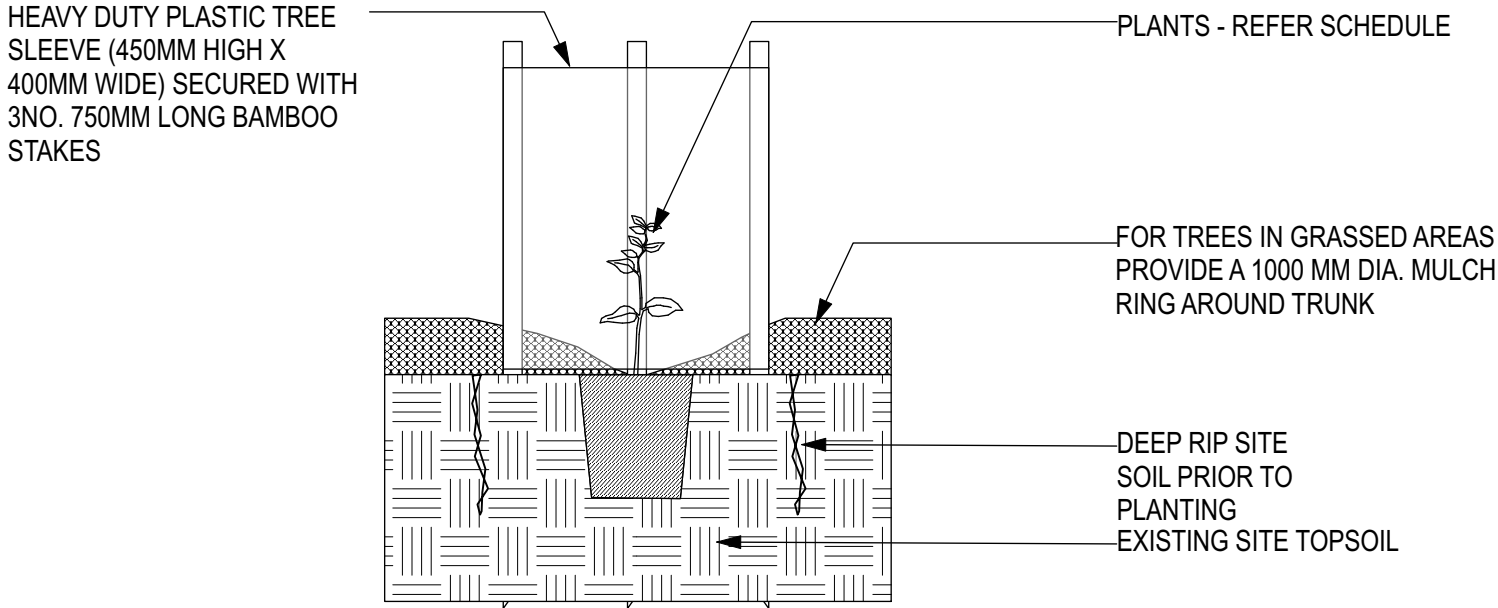
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Planting Plan C

REV #

PLANT SCHEDULE												
Code	Botanical Name	Common Name	Included in Plant mix	Supply size	Approx Mature Size (HxW) m	Density	Typical tree spacing	Quantity / mix A	Quantity / mix B	Quantity / mix C	Quantity / mix D	Quantity / TOTAL
	Shade/Structural Trees											
Aca imp	Acacia implexa	Lightwood	Mix A	tube	8 x 7	1/m2	3 mt c's	130				130
All lue	Allocasuarina luehmannii	Buloke	Mix C	tube	15 x 10	1/m2	5 mt c's			68		68
Bra pop	Brachyiton populneus	Kurrajong	Mix A	30cm	15 x 8	1/m2	3 mt c's	130				130
Cal gla	Callitris glaucophylla	White cypress pine	Mix C	tube	15 x 8	1/m2	3 mt c's			68		68
Cal gra	Callitris gracilis subsp. murrayensis	Murray cypress pine	Mix C	tube	10 x 7	1/m2	3 mt c's			68		68
Euc leu	Eucalyptus leucoxylon-rosea	Pink flowering gum	Mix A & B	tube	8 x 6	1/m2	3 mt c's	130	111			241
Euc mel	Eucalyptus melliodora	Yellow Box	Mix B & C	tube	25 x 15	1/m2	5 mt c's		111	68		179
Euc mic	Eucalyptus microcarpa	Grey Box	Mix B	tube	25 x 15	1/m2	5 mt c's		111			111
Euc sid	Eucalyptus sideroxylon-rosea	Red flowered ironbark	Mix A & B	tube	15 x 10	1/m2	5 mt c's	130	111			241
Euc spa	Eucalyptus spathulata	Swamp mallee	Mix C & A	tube	8 x 6	1/m2	3 mt c's	130		68		198
Euc tor	Eucalyptus torquata	Coral gum	Mix B & C	tube	10 x 8	1/m2	3 mt c's		111			111
	Screen Shrub Planting											
Aca aci	Acacia acinacea	Gold-dust Wattle	Mix A & B	tube	3 x 3	1/m2		151	162			313
Aca dec	Acacia decora	Western golden wattle	Mix A & B	tube	3 x 2	1/m2		151	162			313
Aca bra	Acacia brachybotrya	Grey Wattle	Mix B & C	tube	4 x 3	1/m2			162	136		298
Aca ite	Acacia iteaphylla	Flinders ranges wattle	Mix A, C & D	tube	2 x 3	1/m2		151		136	138	425
Aca mon	Acacia montana	Mallee Wattle	Mix A & D	tube	2 x 3	1/m2		151			138	289
Aca pen	Acacia pendula	Boree	Mix A & B	tube	6 x 6	1/m2		151	162			313
Aca pyc	Acacia pycnantha	Golden Wattle	Mix B	tube	4 x 2	1/m2			162			162
Bur spi	Bursaria spinosa ssp. spinosa	Sweet Bursaria	Mix C	tube	2 x 3	1/m2				136		136
Cal bra	Callistemon brachyandrus	Prickly bottlebrush	Mix A & C	tube	3 x 3	1/m2		151		136		287
Cal cit	Callistemon citrinus	Crimson bottlebrush	Mix C	tube	3 x 3	1/m2				136		136
Cal sal	Callistemon salignus	White weeping bottlebrush	Mix A	tube	3 x 3	1/m2		151				151
Hak lau	Hakea laurina	Pin cushion hakea	Mix A, B & C	tube	4 x 4	1/m2		151	162	136		449
Mel dec	Melaleuca decussata	Totem poles	Mix A & B	tube	2 x 3	1/m2		151	162			313
Mel lan	Melaleuca lanceolata	Moonah	Mix A	tube	3 x 4	1/m2		151				151
Mel lin	Melaleuca linariifolia	Snow-in-summer	Mix B	tube	5 x 4	1/m2			162			162
Rha spi	Rhagodia spinescens	Hedge saltbush	Mix C & D	tube	1 x 1	1/m2				136	138	274

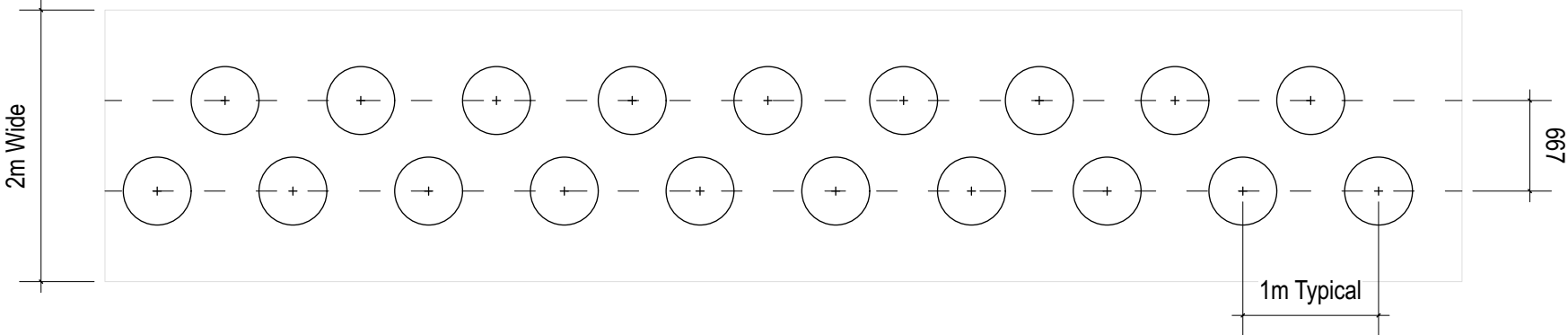
* Note:
All selected planting is indigenous and should be grown from local provenance stock and supplied by an approved nursery



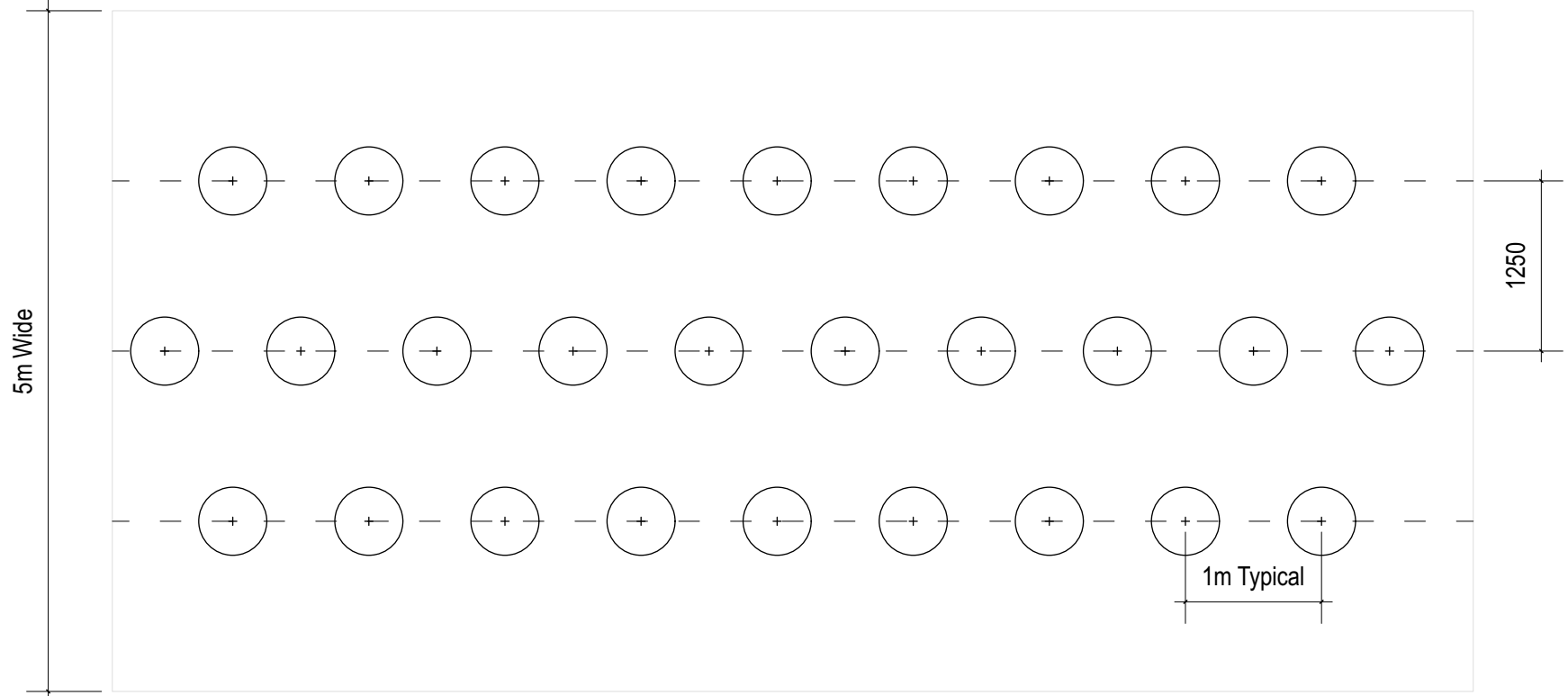
1 TUBESTOCK PLANTING DETAIL
Scale: 1:10

Tree Protection Notes

1. All works within the vicinity of existing trees on the Works site, including works outside of the drip line, must comply in full with AS4970 -2009 Protection of trees on development sites', and the provisions below.
2. Where a discrepancy between Provisions arises, Contractors are required to comply in full with the Australian Standard. Any variations to the provisions below or the Standard drawings must be expressly approved by the Superintendent, prior to commencement of any adjustments being undertaken on site.
3. Prior to commencing works on site, including preliminary service location, trenching, and site or vegetation clearance; the Contractor shall assess and identify trees that must be protected during the course of the proposed works.
4. Tree protection fencing can only be displaced or removed within the project site, with the express permission of the Superintendent.
5. Unless otherwise specified or approved by the Superintendent, no trenching, boring, excavation or other ground disturbances associated with utilities or other in-ground services is to be carried out within the Tree Protection Zone as specified in AS4970 -2009 'Protection of trees on development sites'.
6. The Contractor must not remove, lop or cut back any trees for storage or access or any other activities associated with the contracted services on site, unless prior approval in writing has been obtained by the Superintendent.
7. No persons, vehicles, or machinery shall enter the Tree Protection Zone without the permission of the Superintendent. The Contractor must ensure that the Tree Protection Zone is maintained. Equipment, machinery, vehicles, chemicals, fill, building materials, temporary construction or signage, and other similar items are not permitted within the Tree Protection Zone.
8. Nothing whatsoever shall be attached to any tree, including temporary services wires, nails, screws or any other fixing device.



2 TWO ROW GARDEN BED LAYOUT & SPACING
Scale: 1:50



3 THREE ROW GARDEN BED LAYOUT & SPACING
Scale: 1:50

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ADDRESS
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DRAWING NO.

LD3.4

DRAWING NAME
Planting Schedule & Details

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