

ST MARYS

St Marys Intermodal Freight Terminal Development Application

Drawing Schedule

Drawing Number	Drawing Title	Scale
000	Landscape Coversheet	N/A
001	Landscape Masterplan	1:1500
002	Landscape Colour Plan	1:750
003	Landscape Colour Plan	1:750
101	Landscape Plan	1:250
102	Landscape Plan	1:250
103	Landscape Plan	1:250
104	Landscape Plan	1:250
105	Landscape Plan	1:250
106	Landscape Plan	1:250
107	Landscape Plan	1:250
108	Landscape Plan	1:250
501	Landscape Details	N/A
502	Landscape Specification	N/A

PLANT SCHEDULE

	BOTANICAL NAME	COMMON NAME	HEIGHT	WIDTH	POT SIZE	SPACING	QUANTITY
TREES							
Af	Angophora floribuna	Roughbarked Apple	20	15	75Lt	As Shown	42
Cm	Corymbia maculata	Spotted Gum	15	10	100Lt	As Shown	6
Es	Eucalyptus saligna	Sydney Blue Gum	30	15	75Lt	As Shown	34
Et	Eucalyptus tereticornis	Forest Red Gum	30	15	75Lt	As Shown	32
TI	Tristaniopsis laurina 'Luscious'	Water Gum	9	8	100Lt	As Shown	25

PLANTING MATRIX 1

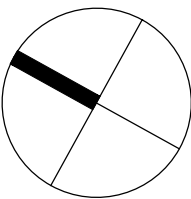
Bs	Banksia spinulosa	Hairpin Banksia	2	1.5	Tube	Refer Detail
Dc	Dianella caerulea	Blue Flax Lily	0.75	1	Tube	
Ju	Juncus usitatus	Common Rush	1	1	Tube	
LI	Lomandra longifolia	Mat Rush	1	1	Tube	
Ta	Themeda australis	Kangaroo Grass	0.7	0.5	Tube	

PLANTING MATRIX 2

De	Doryanthes excelsa	GyMEA Lilly	2	2	150mm	Refer Detail
Hs	Hibbertia scandens	Snake Vine	0.2	3	150mm	
LI	Lomandra longifolia	Mat Rush	1	1	150mm	
PK	Poa poiformis 'Kingsdale'	Kingsdale	0.6	0.6	150mm	
Wf	Westringia fruticosa	Coastal Rosemary	2	2	150mm	

NOTE:
PROPOSED PLANTING/REVEGETATION WILL ADOPT PROCEDURES THAT WILL NOT ADVERSELY IMPACT ON THE EXITING NATIVE VEGETATION. REFER ECO LOGICAL AUSTRALIA REPORT.

PROPOSED PLANT SPECIES HAVE BEEN SELECTED BASED ON THE EXISTING VEGETATION ZONES OUTLINED IN ECO LOGICAL AUSTRALIA REPORT AND THEIR TYPICAL SPECIES MAKEUP.



Client:

Urbanco

Project:

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DEVELOPMENT APPLICATION

Drawing Name:

Landscape Cover Sheer

Scale:

Job Number:

Drawing Number:

Issue:

SS18-4031

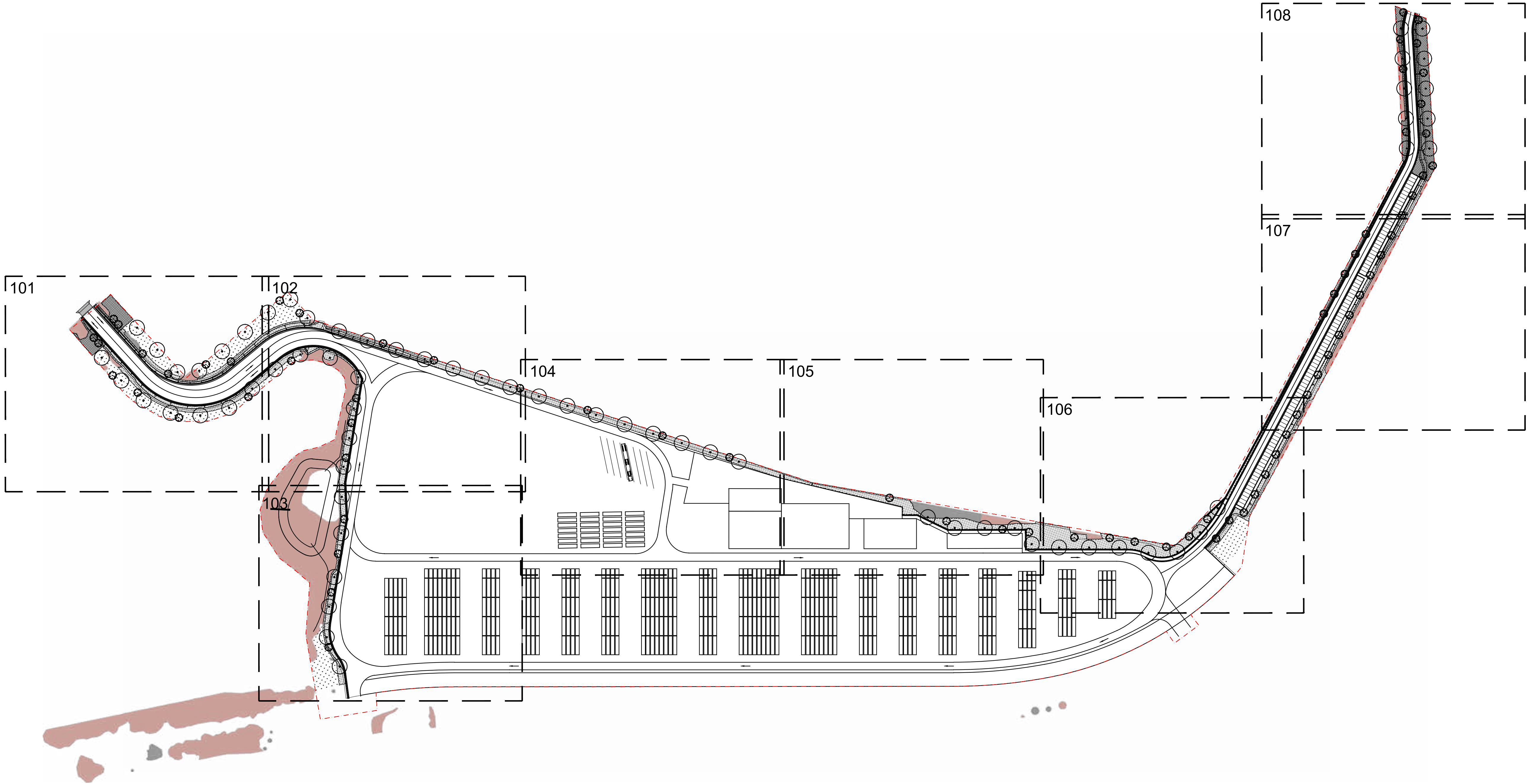
000 C

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C	REVISED SITE PLAN	JM	NM	16.04.2019
B	VEGETATION ADDED	JM	NM	26.02.2019
A	FOR COMMENT	SM	NM	20.02.2019
Issue	Revision Description	Drawn	Check	Date

LEGEND	
	Eucalyptus saligna (Refer to Plant Schedule)
	Eucalyptus tereticornis (Refer to Plant Schedule)
	Angophora floribuna (Refer to Plant Schedule)
	Corymbia maculata (Refer to Plant Schedule)
	Tristaniopsis Luscious (Refer to Plant Schedule)



Eucalyptus saligna - Sydney Blue Gum



Eucalyptus tereticornis - Forest Red Gum



Angophora floriibunda - Roughbarked Apple



Corymbia maculata - Spotted Gum



Tristaniopsis Luscious - Water Gum

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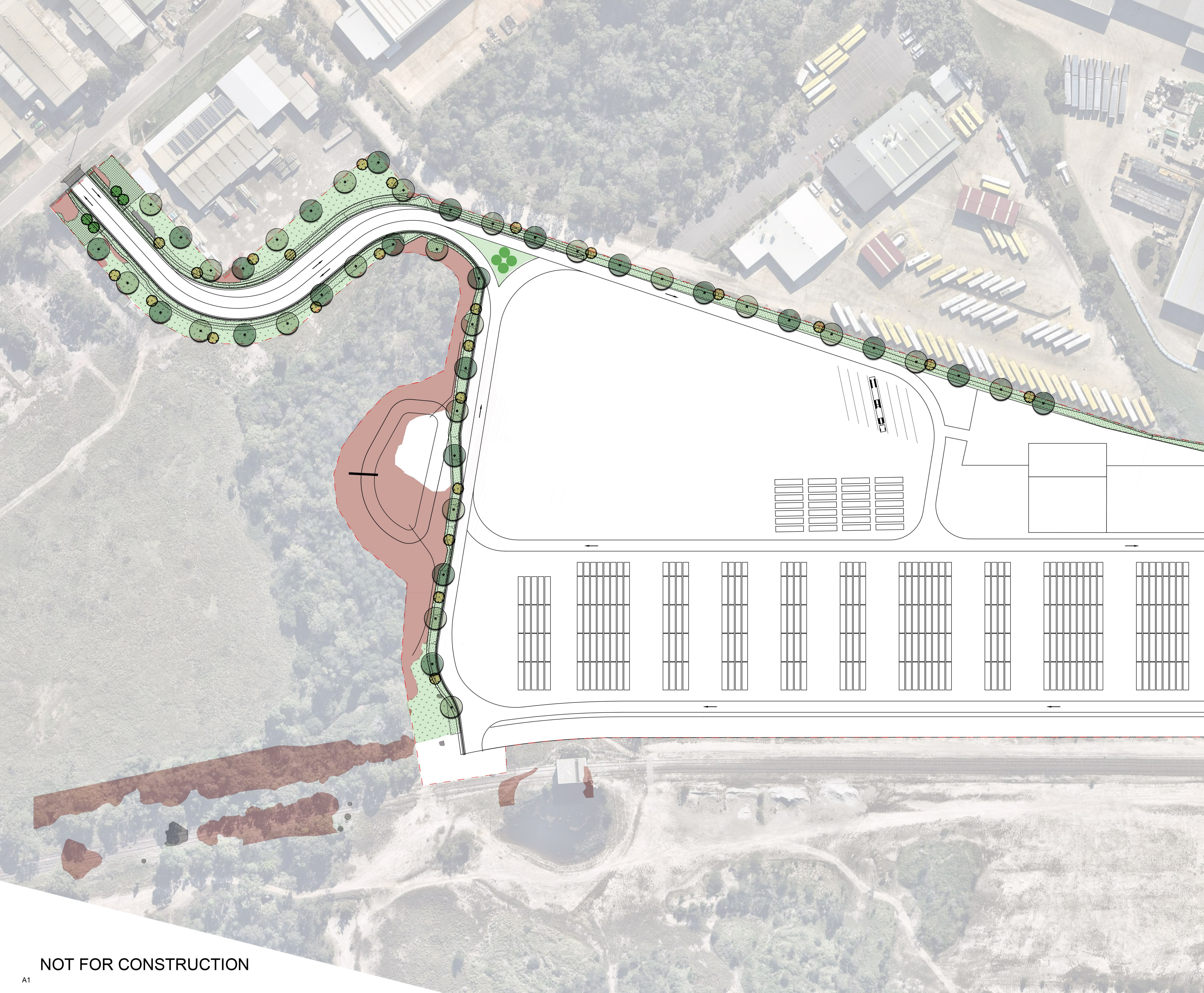
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DEVELOPMENT APPLICATION

Drawing Name:
Landscape Masterplan

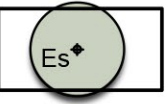
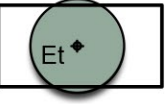

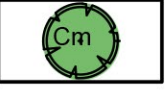

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Job Number: SS18-4031
Drawing Number: 001
Issue: C

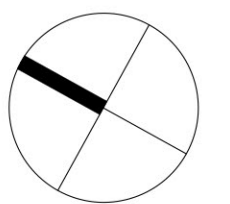


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(Refer to Plant Schedule)
 -  **Eucalyptus tereticornis**
(Refer to Plant Schedule)
 -  **Angophora floribuna**
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 -  **Corymbia maculata**
(Refer to Plant Schedule)
 -  **Tristaniopsis luscious**
(Refer to Plant Schedule)



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DEVELOPMENT APPLICATION

Drawing Name:
Landscape Colour Plan

Scale: 1:1500 @ A1
Job Number: SS18-4031
Drawing Number: 002
Issue: C


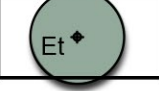

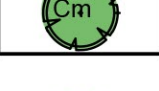

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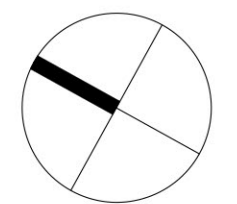


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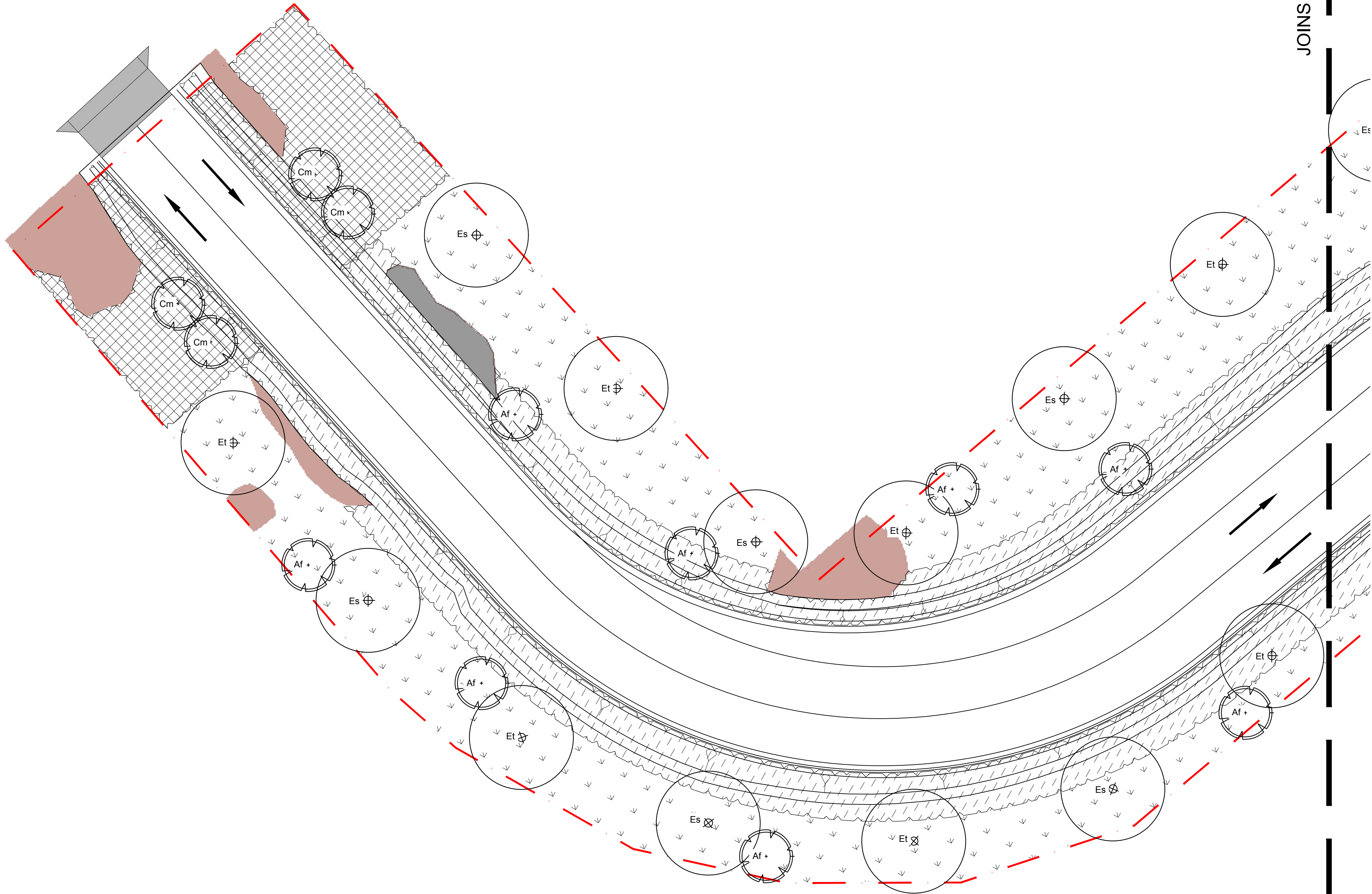
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DEVELOPMENT APPLICATION

Drawing Name:
Landscape Colour Plan

Scale: 1:1500 @ A1
Job Number: **SS18-4031**
Drawing Number:
Issue: **003 C**

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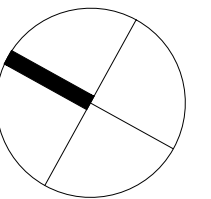


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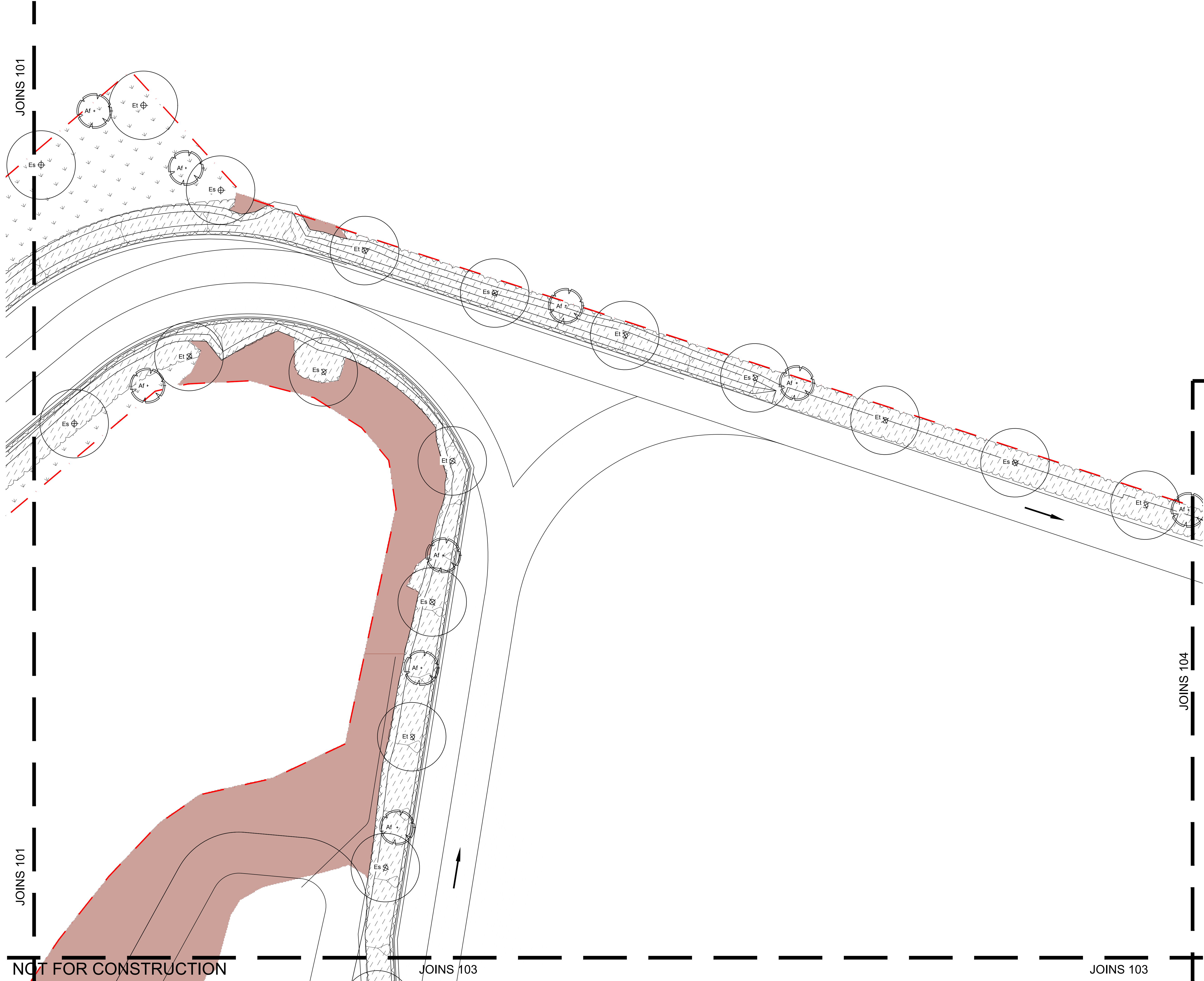
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DEVELOPMENT APPLICATION

Drawing Name:
Landscape Plan

Scale: 1:250 @ A1
Job Number:
Drawing Number:
Issue:

SS18-4031 101 C



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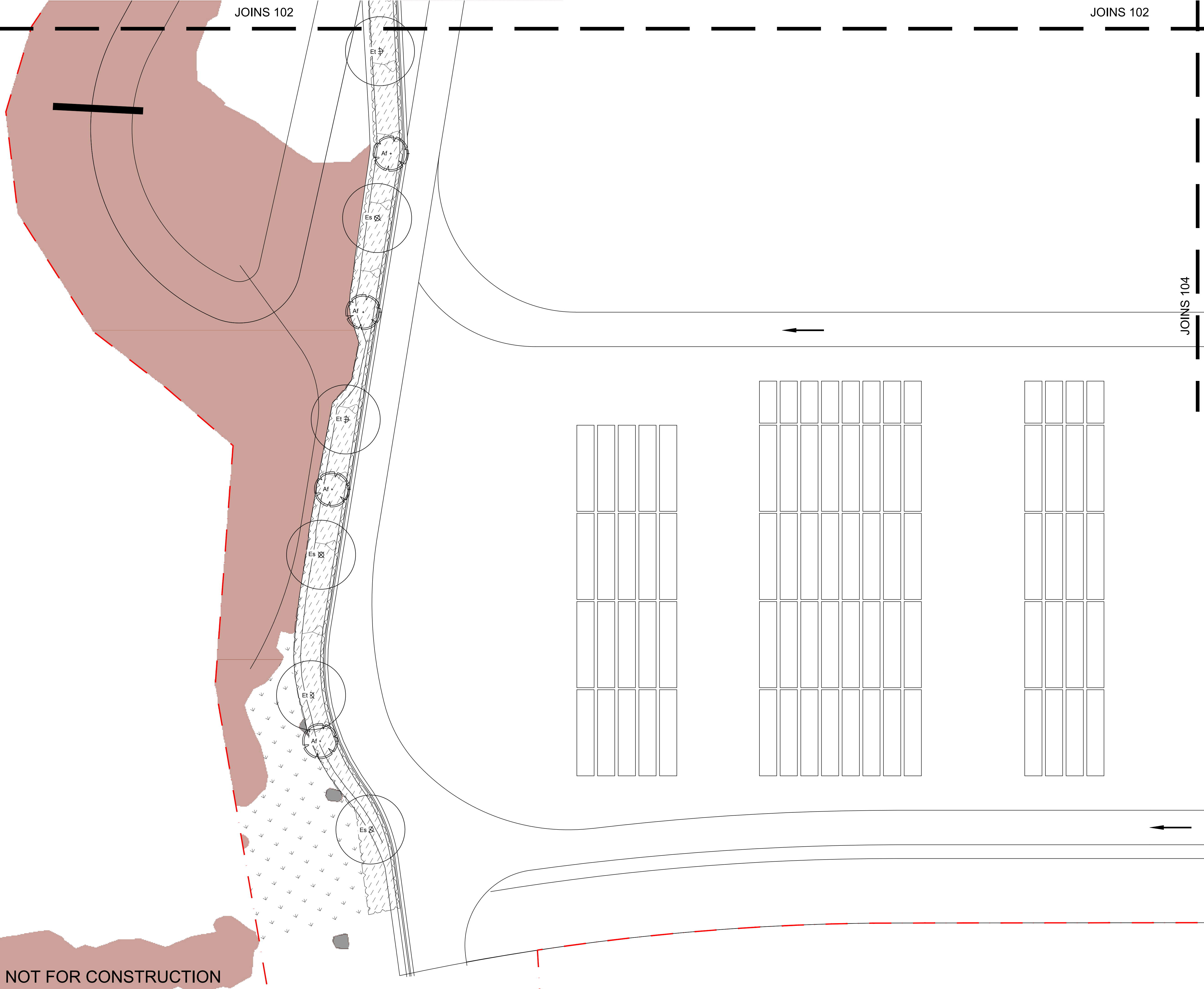
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Drawing Name:
Landscape Plan

Scale: 1:250 @ A1
Job Number: SS18-4031
Drawing Number: 102
Issue: C

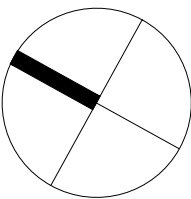


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Drawing Name:

Landscape Plan

Scale: 1:250 @ A1

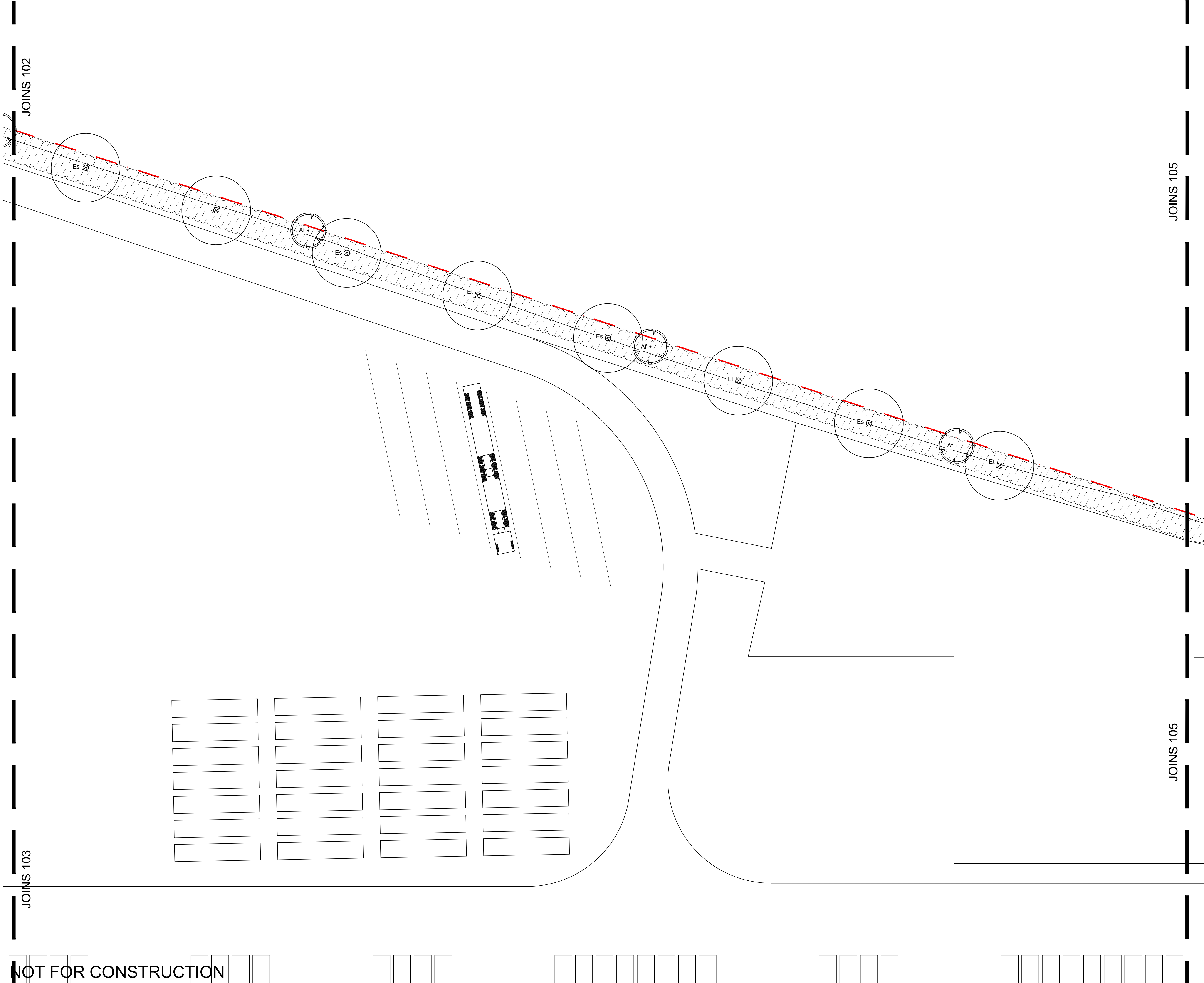
Job Number:

SS18-4031

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Drawing Number:

Issue:

103 C



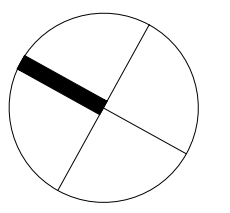
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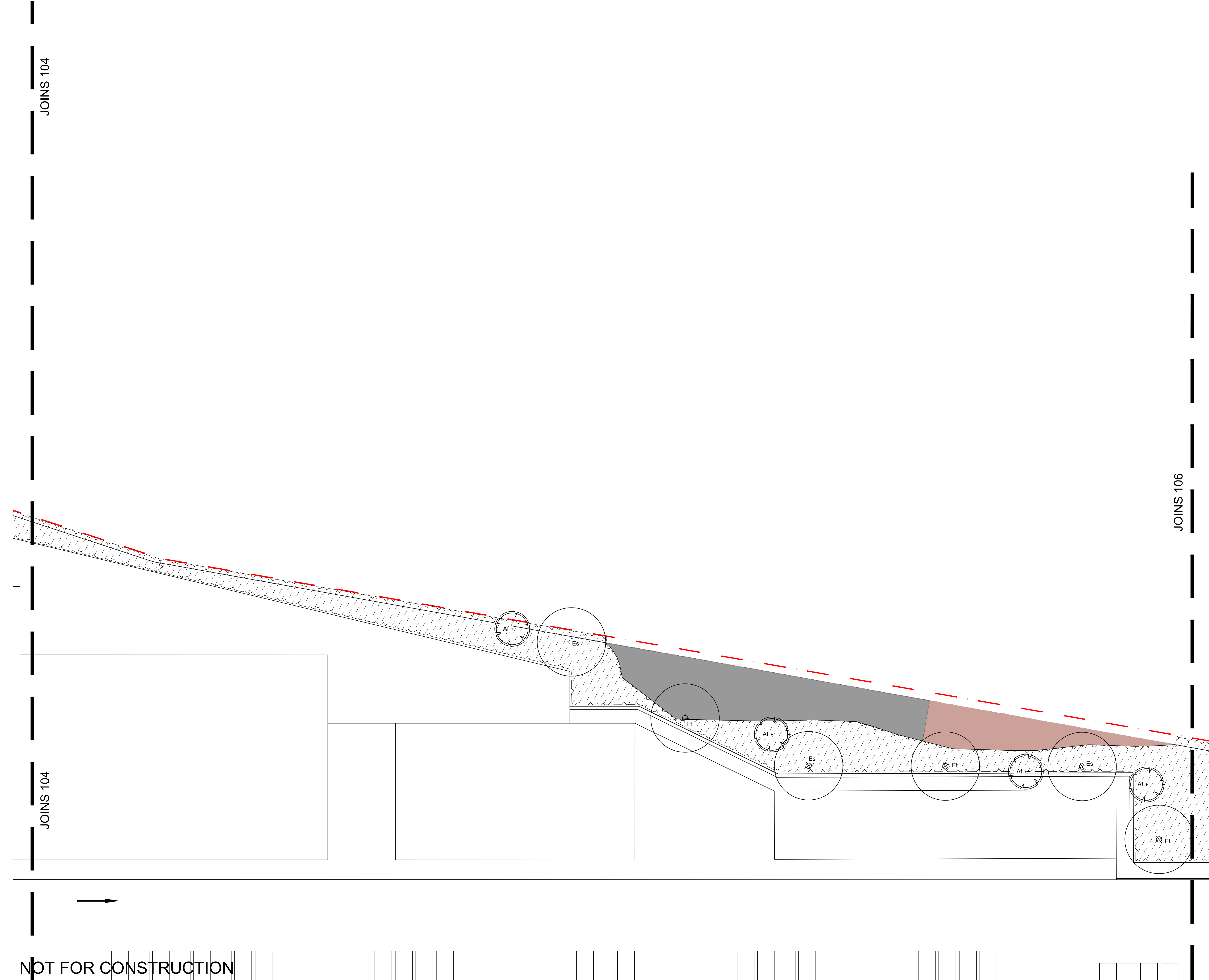
Drawing Name:
Landscape Plan

Scale: 1:250 @ A1

Job Number:
SS18-4031

Drawing Number:
104

Issue:
C



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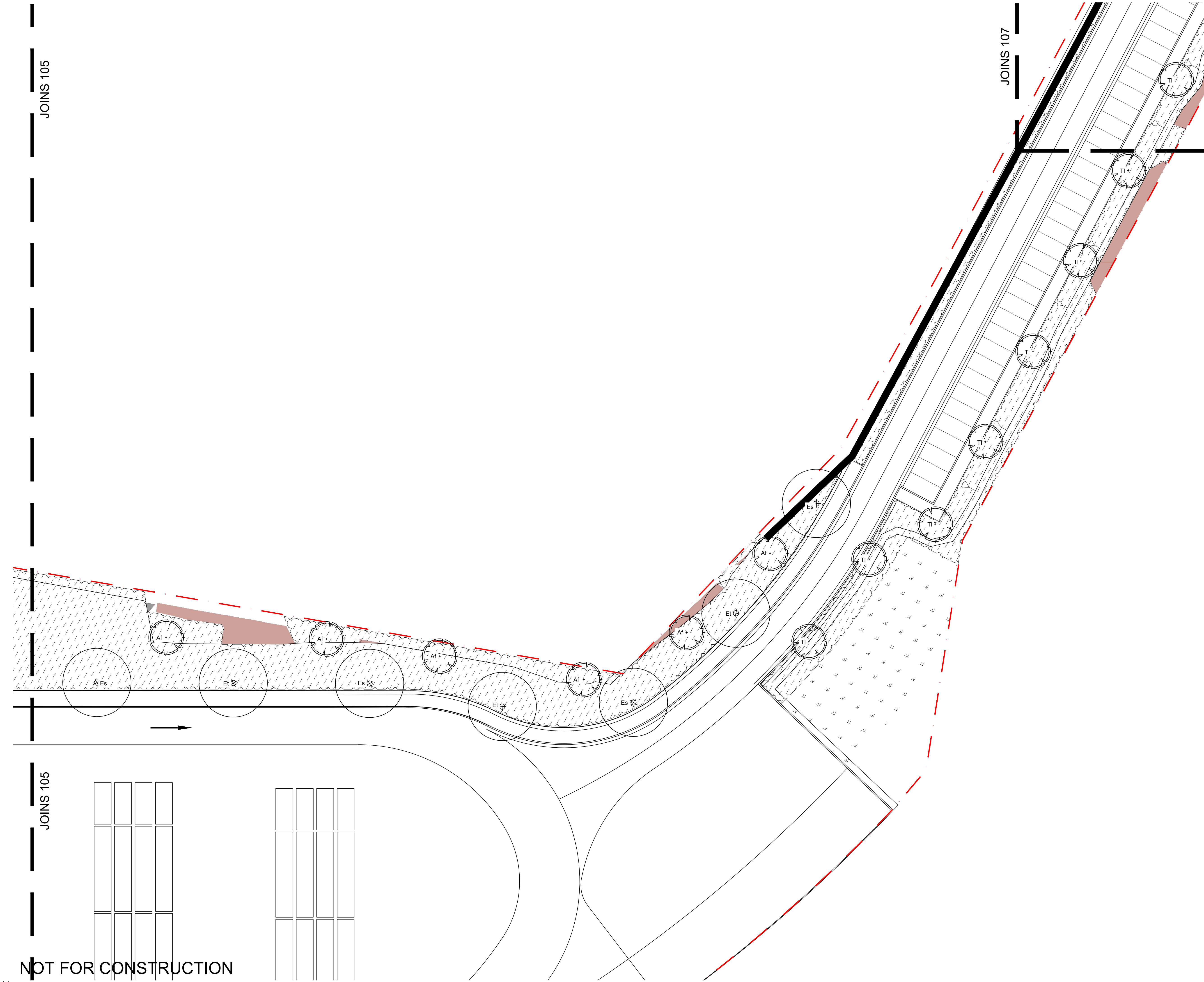
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DEVELOPMENT APPLICATION

Drawing Name:
Landscape Plan

Scale: 1:250 @ A1
Job Number: **SS18-4031**

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Drawing Number: **105** Issue: **C**

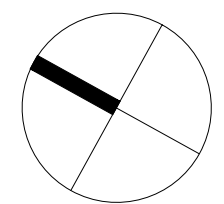


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Drawing Name:

Landscape Plan

Scale: 1:250 @ A1

Job Number:

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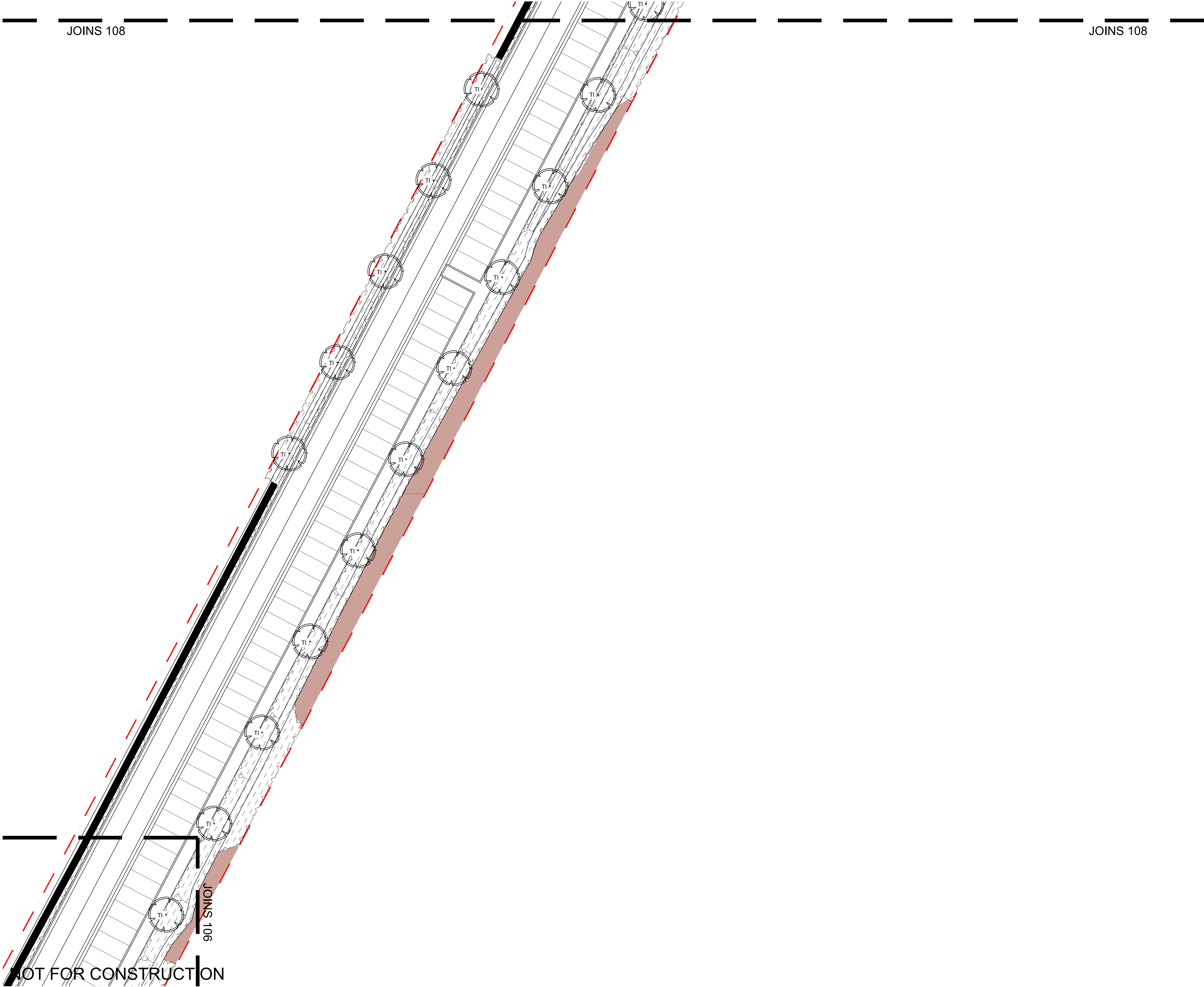
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Drawing Number:

Issue:

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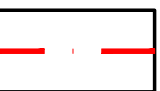







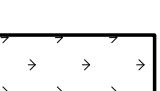

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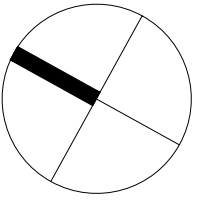


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B	VEGETATION ADDED	JM	NM	26.02.2019
A	FOR COMMENT	SM	NM	20.02.2019
Issue	Revision Description	Drawn	Check	Date

- LEGEND**
-  Scope of Works
 -  Existing Native Vegetation to be Retained
 -  Eucalyptus saligna (Refer to Plant Schedule)
 -  Eucalyptus tereticornis (Refer to Plant Schedule)
 -  Angophora floribuna (Refer to Plant Schedule)
 -  Corymbia maculata (Refer to Plant Schedule)
 -  Tristaniopsis Luscious (Refer to Plant Schedule)
 -  Planting Matrix 1 (Refer to Plant Schedule & Detail)
 -  Planting Matrix 2 (Refer to Plant Schedule & Detail)
 -  Hydromulch



Client:
Urbanco

Project:
**St Marys Intermodal
Freight Terminal**

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Drawing Name:
Landscape Plan

Scale: 1:250 @ A1
Job Number:
Drawing Number:
Issue:

SS18-4031 **107** **C**

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LEGEND

Scope of Works

Existing Native Vegetation to be Retained

Es

Eucalyptus saligna
(Refer to Plant Schedule)

Et

Eucalyptus tereticornis
(Refer to Plant Schedule)

Af

Angophora floribuna
(Refer to Plant Schedule)

Cm

Corymbia maculata
(Refer to Plant Schedule)

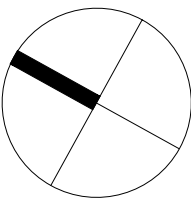
Tl

Tristaniopsis Luscious
(Refer to Plant Schedule)

Planting Matrix 1
(Refer to Plant Schedule & Detail)

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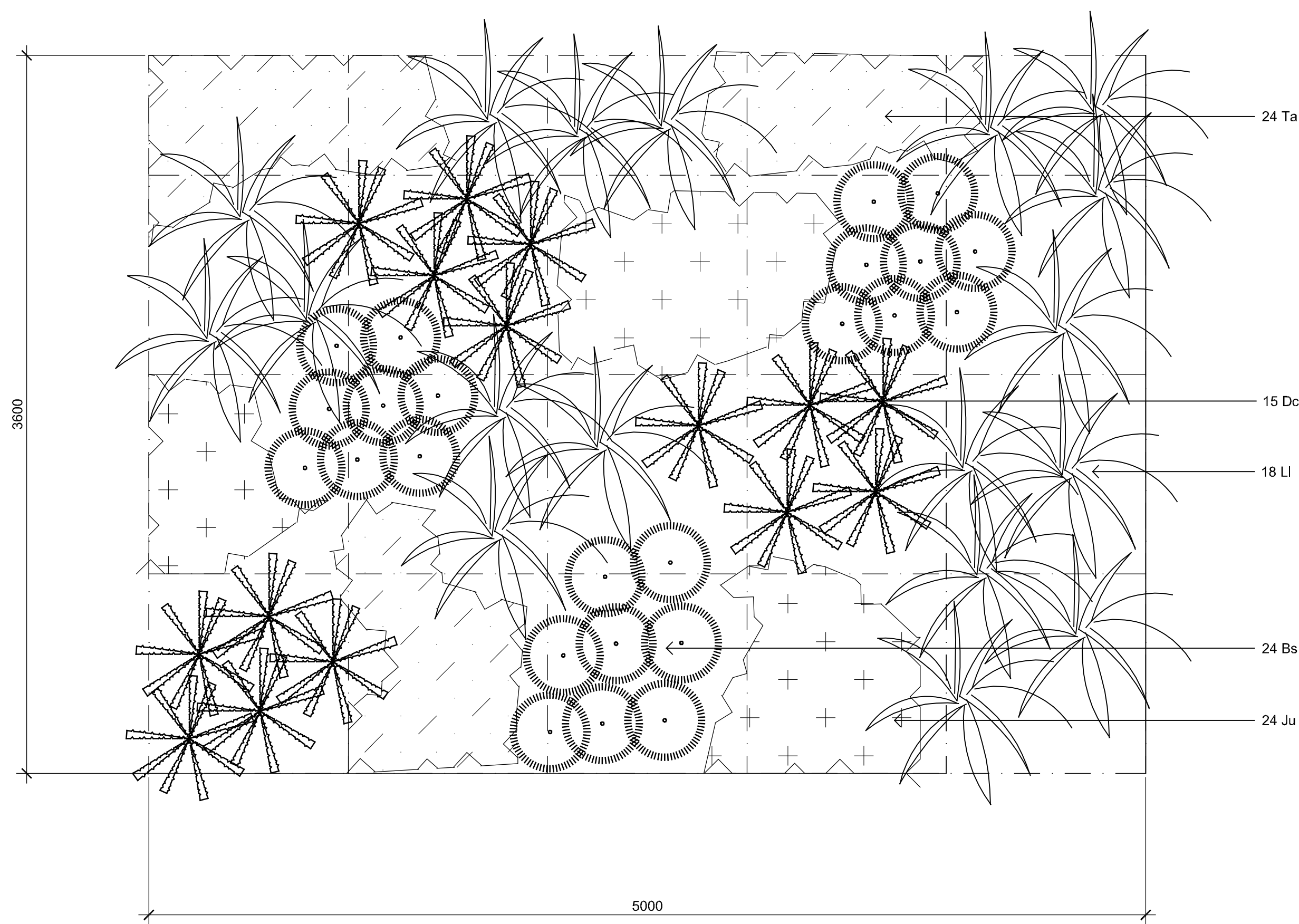
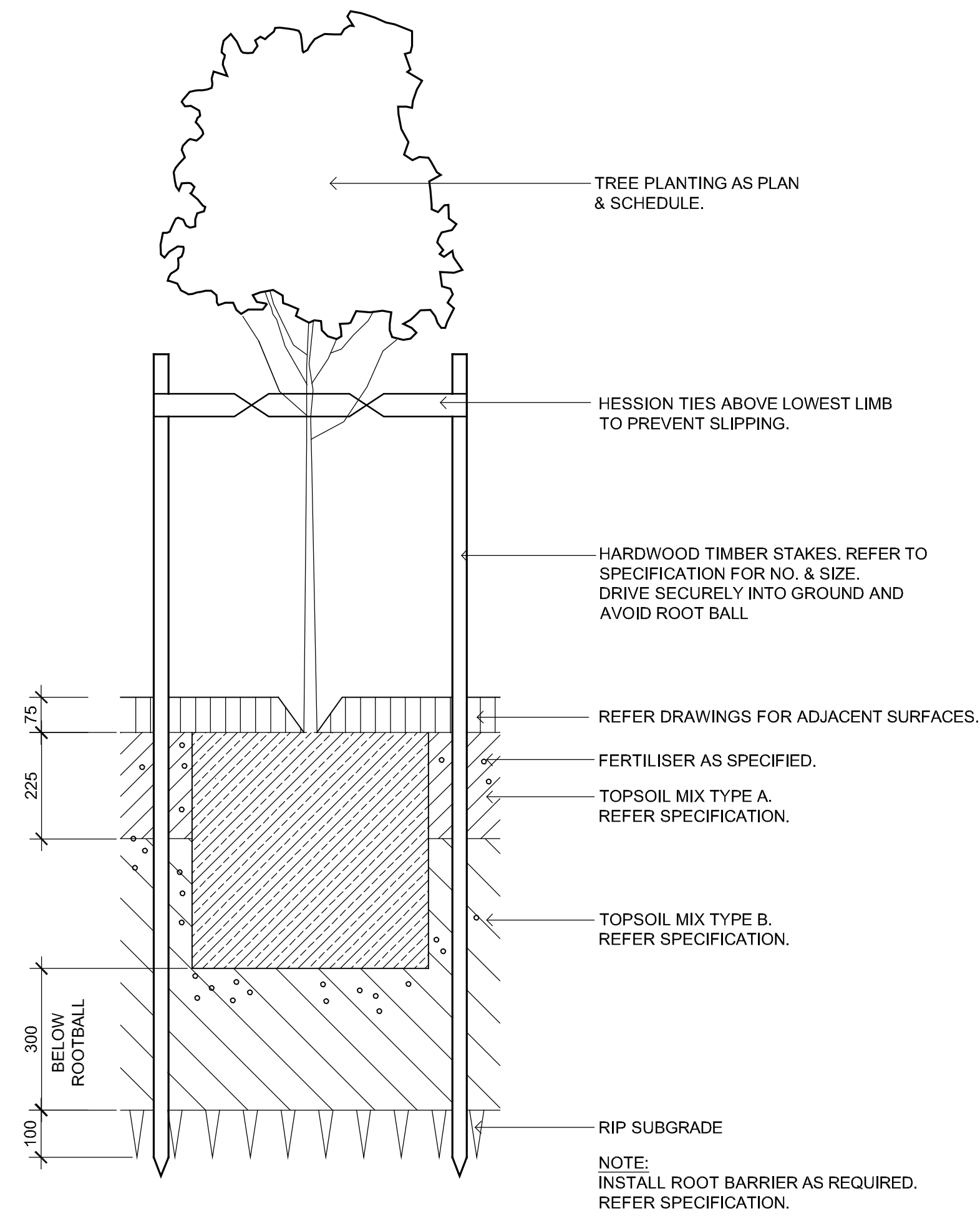
DEVELOPMENT APPLICATION

Drawing Name:
Landscape Plan

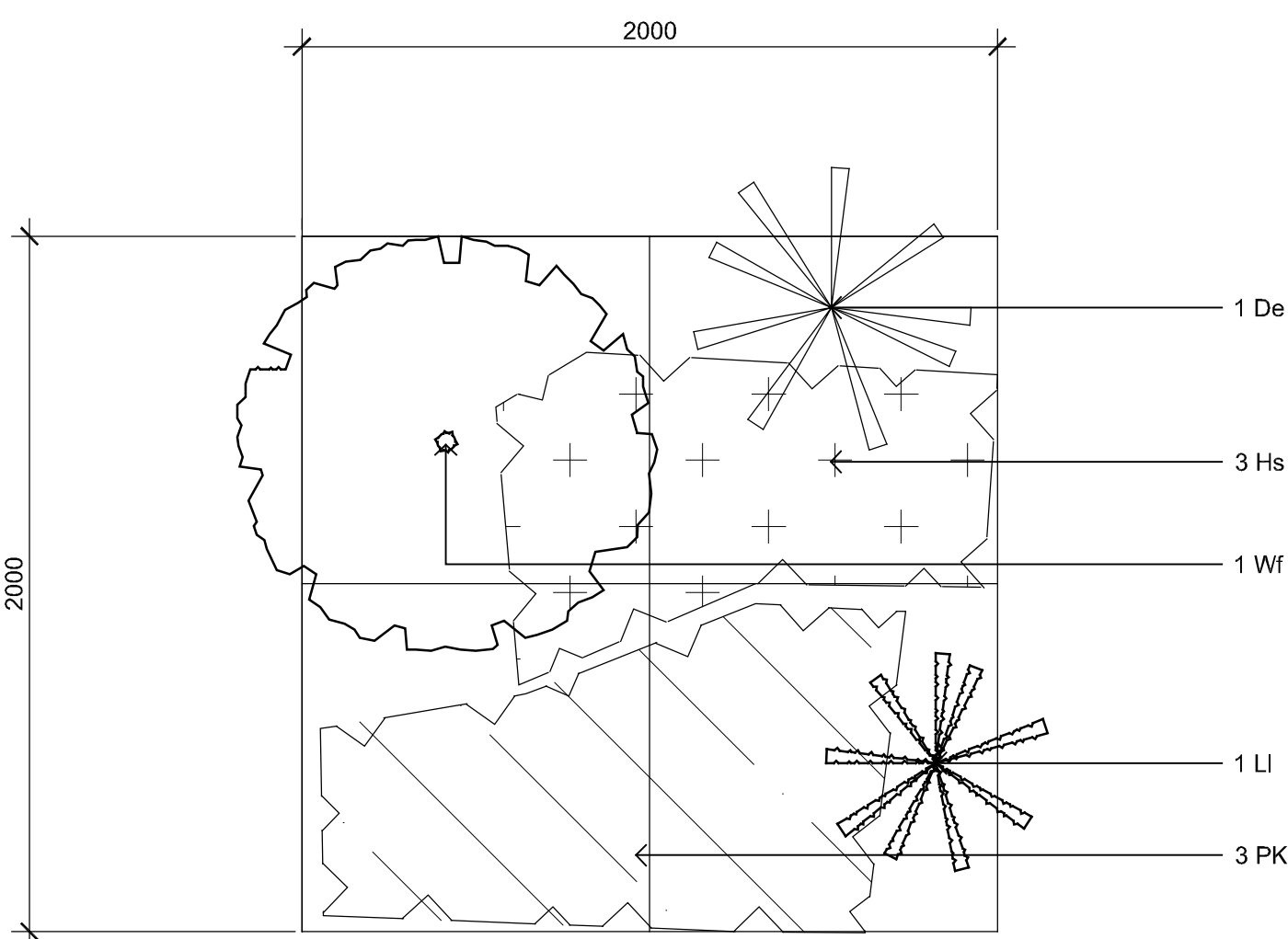
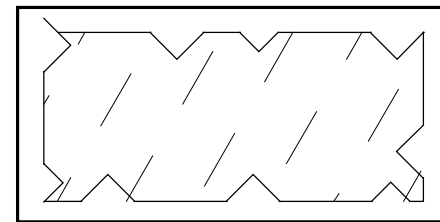
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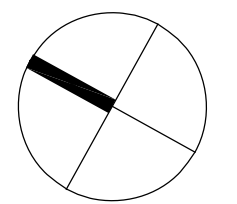
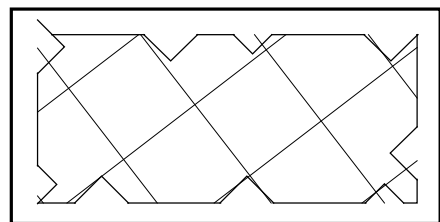
LEGEND



PLANTING MATRIX 1 - DETAIL
SCALE 1:20



PLANTING MATRIX 2 - DETAIL
SCALE 1:20



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DEVELOPMENT APPLICATION

Drawing Name:

Landscape Details

Scale: AS SHOWN
Job Number: Drawing Number: Issue:

SS18-4031

501 B

NOT FOR CONSTRUCTION

SPECIFICATION

GENERAL NOTES

References
All plans and details included in the project documents shall be read in conjunction with this specification. All structural and civil works components of the landscape design shall be referenced to engineers' details and specifications. Read this specification in conjunction with the plant and materials schedules on the drawings. If in doubt about any detail or if conflicts are found in the documents, seek advice.

Workmanship and Materials
The whole of the landscape works shall be carried out by a competent, trained and qualified landscape contractor who is experienced in horticultural practices, landscape construction and planting techniques. The landscape contractor shall hold a current Building Contractors License and/or be a financial member of LNA Landscape Association NSW & ACT or equivalent organisations in other states.

EXISTING TREES AND SHRUBS

Trees and Shrubs to be Retained and Protected
Identify and mark trees and shrubs to be retained using a suitable non-injurious, easily visible and removable means of identification. Protect from damage the trees and shrubs to be retained, including those beyond the site area, both above and below the ground. If a tree becomes damaged during the works or it is proposed to perform work on a tree, give written notice immediately and obtain instructions.

Work Near Trees and Shrubs
Keep the area of the drip-line free from construction material and debris. Do not place bulk materials and harmful materials under foliage canopies or near trees. Do not place spoil from excavations against tree trunks. Prevent wind-blown building materials, such as cement, from covering trees and other plants. Do not remove topsoil from, or add topsoil to, the area within the drip-line of trees.

EARTHWORKS

Excavation, Trimming and Filling
Except as otherwise noted in the contract, bulk excavation is excluded from the landscape works. After the completion of bulk excavation by others, trim and fill the excavated ground surfaces to achieve design levels to accommodate finish materials as detailed. Prepare the sub-grade surface as required for the various finished ground treatments.

Sub-soil Drainage
Keep the excavated works drained and free of standing water. Allow to supply and install sub-soil drainage pipes as required for the new works to ensure that all gardens are well drained. Connect the sub-soil drainage pipes to the nearest downstream stormwater pits. Include pipe filter socks and course sharp aggregate backfilling of trenches.

HARDWORKS

Furniture, Handralls, Balustrades
Supply and install the scheduled items in accordance with the manufacturer's recommendations, as detailed and in the locations shown on plan. Provide all footings and fixings required for the items to be stable and in accordance with applicable codes and standards.

Garden Walls, Fences, Steps, TGSi and Edging
Construct garden walls, fences, steps, TGSi and edging as shown on plan, as detailed and of the material scheduled. Provide footings, step nosings, tactile surfaces to comply with Australian Standards and applicable legislation. Refer to engineer's details for structural retaining walls, concrete stairs, concrete strength, reinforcing and joint placement.

Continuous, Unit and Loose Pavement
Install the scheduled material pavement to the locations shown on plan. Ensure that all subgrade/subsurface works are complete prior to commencing paving. Confer with the engineer to ensure the structural integrity of the subgrade. Ensure that the base course under paved surfaces is a continuous plane offering a constant depth of bedding material not exceeding 50mm. If laying unit pavers in a cement mortar bed on a concrete sub-base ensure that joints in paving match the location of joints in the concrete. Refer to engineer's details for heavy duty slabs, concrete stairs, concrete strength, reinforcing, and joint type and placement.

SOFTWORKS

Site Soil Testing
Where site soil is to be retrieved from site and stored on site for reuse, undertake at least two (2) soil tests in locations as advised by the Project Manager or as shown on the plans. Provide results and recommendations regarding soil additives for the benefit of healthy plant growth and to adjust the soil components to achieve an appropriate planting medium for successful plant development.

Subsoil
Excavate and/or fill all garden beds to bring the top of subsoil to at least 300mm below finished design soil levels. Excavate all turf areas to bring the subsoil to at least 100mm below finished design levels. In all areas shape the subsoil to fall to subsoil drains where applicable. Do not excavate within the drip line of trees and shrubs to be retained. Cultivate or rip the subsoil to a further depth of 100mm before placing top soil. Remove stones of size exceeding 25mm, clods of earth exceeding 50mm, and weeds, rubbish or other deleterious material brought to the surface during cultivation. Do not disturb services or existing tree roots. If necessary cultivate these areas by hand. During cultivation, thoroughly mix in materials required to be incorporated into the subsoil, as recommended in the soil testing results and to manufacturer's recommendations. Trim the surface to design levels again after cultivation.

Topsoil
Import topsoil for the garden and turf areas, unless the topsoil can be provided from material recovered from the site, as recommended in the soil testing results. Spread the topsoil on the prepared subsoil and grade evenly, compact lightly and uniformly in 150mm layers. Avoid differential subsidence and excess compaction and produce a finished topsoil surface which has the following characteristics:

- Finished to design levels, allowing for mulch or turf, which is to finish flush with adjoining hard surfaces such as paths and edges;
- Smooth and free from inorganic matter, stones or clods of soil;
- Graded to drain freely, without ponding, to catchment and/or sub-soil drains;
- Graded evenly to adjoining surfaces; and
- Ready for planting.

Compost
Provide, in accordance with AS 4454, well rotted vegetative material or animal manure, free from harmful chemicals, inorganic matter, grass, weeds and the reproductive parts of unwanted plants.

Fertiliser
Provide proprietary fertilisers, delivered to the site in sealed containers marked to show manufacturer or vendor, weight, fertiliser type, N:P:K ratio, recommended uses, application rates and safety procedures. Apply appropriate fertiliser suited to the provenance of plants (indigenous or exotic) included in the design.

Plants
Supply plants in accordance with the landscape design drawings and schedules, which have the following characteristics:

- Large healthy root systems, with no evidence of root curl, restriction or damage;
- Vigorous, well established, free from disease and pests, of good form consistent with the species/variety;
- Hardened off, not soft or forced, and suitable for planting in the natural climatic conditions prevailing at the site in full sun, partial shade or full shade conditions;
- Grown in final containers for not less than twelve weeks;
- Trees, unless required to be multi-stemmed, shall have a single leading shoot; and
- Containers shall be free from weeds and of appropriate size in relation to the specified plant size.

Plant Installation
Following excavation of the planting hole, place and spread 15gms of wetting agent pre-mixed with one (1) litre of water. Place the plant correctly orientated to north or for best presentation. Backfill the planting holes with specified topsoil mixture. Lightly tamp and water to eliminate air pockets. Ensure that the backfill soil is not placed over the top of the root ball and that the root ball is not higher than the soil in which it is planted. Apply fertiliser, as specified around the plants in the soil at the time of planting.

Root Barrier
Supply and install root control barriers to all new tree plantings adjacent to walls, paths, kerbs and all service trenches, where their proximity poses a threat to the stability of the built infrastructure. Install in accordance with manufacturer's recommendations.

Mulch
Unless noted otherwise, mulch shall be approved proprietary recycled wood fibre or pine bark material. Place mulch in all garden beds to a depth of 75mm after all specified plants are installed. Keep mulch clear of all plant stems and rake to an even plane, flush with the surrounding surfaces evenly graded between design surface levels. Over fill to allow mulch to settle to the specified depth.

Stakes and Ties
Stakes shall be durable hardwood, straight, free of knots and twists, pointed at one end, in the following quantities and sizes for each of the various plant pot sizes:

- Plants >25 lt: 1 off 38 x 38 x 1200mm;
- Semi-advanced plants >75 lt: 2 off 50x50x 1800mm;
- Advanced plants ≥100 lt: 3 off 50 x 50 x 2400mm.

Turf
Turf shall be delivered to site as 25mm minimum thick cut rolls. Obtain turf from a specialist grower of cultivated turf. Turf shall have an even thickness, free from weeds and other foreign matter. Deliver turf to the site within 24 hours of being cut and lay it within 24 hours of delivery. Prevent it from drying out between cutting and laying. Lay the turf in the following manner:

- In stretcher pattern, joints staggered and close butted;
- Parallel long sides of level areas, with contours on slopes; and
- To finish flush, after lightly tamping, with adjacent finished surfaces and design levels.

Species: *Stenotaphrum secundatum* Sir Walter Soft-leaf Buffalo.

IRRIGATION

Scope: Unless otherwise noted or instructed irrigate all planted areas shown on plans including planters, tubs, gardens, turf and the like.
The irrigation system shall be an automatic permanent system, with an irrigation controller self operated via a soil moisture sensor. The system shall be calibrated to deliver the optimum rate and volume of water appropriate to the type of plants in the design. The system shall be adjustable and fully serviceable. The layout of the entire irrigation system shall focus on delivering the required amount of water to maintain healthy and vigorous growth. The irrigation system shall be such that, component theft, vandalism, over-spray and wetting of paths shall be reduced to a minimum or completely eliminated by the use of drip, pop-up sprinklers and judiciously placed fixed spray emitters. Generally do not use fine mist emitters that provide a drifting mist that may wet paths and the buildings unless specifically required by the design.

LANDSCAPE MAINTENANCE

The Landscape Contractor shall rectify defects during installation and that become apparent in the works under normal use for the duration of the contract Defects Liability Period. Unless contracted otherwise, the Landscape Contractor shall maintain the contract areas by the implementation of industry accepted horticultural practices for 62 weeks from Practical Completion of the works. The landscape maintenance works shall include, but not be limited to:

- Replacing failed plants;
- Pruning;
- Insect and pest control;
- Fertilising;
- Maintaining and removing stakes and ties;
- Maintaining mulch;
- Mowing and top dressing;
- Irrigation and watering;
- Erosion control; and
- Weeding and rubbish removal.

Maintenance Log Book
Implement and keep a maintenance log book recording when and what maintenance work has been undertaken and what materials, actions and decisions have been used, implemented and concluded to keep the landscape always looking its best. Enter data daily and review information every 2 weeks. Observe trends and develop a maintenance regime around seasonal and observed event occurrences.

Maintenance Activities
During the defects maintenance period schedule the following activities to occur on a timely basis.

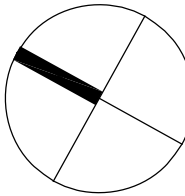
- **Plant replacement** - Replace plants that have failed to mature, die or are damaged. Replacement plants shall be in a similar size and quality and identical species or variety to the plant that has failed. Replacement of plants shall be at the cost of the landscape contractor unless advised otherwise. If the cause of the failure is due to a controllable situation then correct the situation prior to replacing plants. Observe and replace failed plants within 2 weeks of observation.
- **Pruning** - Prune dead wood, broken limbs, dead or infected foliage and as needed to develop strong, healthy plants to achieve the shape and form expected of the plant type. Observe daily and prune plants on a needs basis.
- **Insect, disease and pest control** - Avoid spraying:
 - if ever possible;
 - in wet weather or if wet weather is imminent;
 - if target plants are still wet after rain;
 - in windy weather; and
 - if non-target species are too close.Immediately report to the Project Manager any evidence of intensive weed infestation, insect attack or disease amongst plant material. Submit all proposals to apply chemicals and obtain approval before starting this work. When approved, spray with herbicide, insecticide, fungicide as appropriate in accordance with the manufacturers' recommendations. Observe daily and act as necessary to control any infestation or disease. Record in the logbook all relevant details of spraying activities including:
 - Product brand / manufacturer's name,
 - Chemical / product name,
 - Chemical contents,
 - Application quantity and rate,
 - Date of application and location,
 - Results of application, and
 - Use approval authority.
- **Fertilising** - Fertilise gardens with a proprietary slow release fertiliser applied in accordance with the manufacturer's directions and recommendations. Apply 6-12 monthly. Record in the logbook all relevant details of fertilising including:
 - Product brand / manufacturer's name,
 - Fertiliser / product name,
 - Application quantity and rate, and
 - Date of application and location.
- **Stakes and ties** - Adjust and replace as required to ensure plants remain correctly staked. Remove those not required at the end of the planting establishment period (Defects Liability Period). Inspect and act at least every 2 weeks.
- **Maintaining mulch** - Maintain the surface in a clean, tidy and weed free condition and reinstate the mulch as necessary to ensure correct depth as specified. Observe weekly and replenish mulch as required.
- **Mowing and top dressing** - Mow the turf to maintain a grass height of between 30-50mm. Do not remove more than one third of the grass height at any one time. Remove grass clippings from the site after each mowing. Top dress to a maximum of 10mm to fill depressions and hollows in the surface. Mow weekly/fortnightly in warmer months. Mow monthly or as required in cooler months. Top dress at approximately 6 monthly intervals.
- **Irrigation and watering** - Maintain the irrigation system to sure that each individual plant receives the required amount of water to maintain healthy and vigorous growth. Adjust and calibrate as required. Provide additional watering, if necessary but inspect irrigation weekly and make repairs as necessary.
- **Erosion control** - Where necessary, maintain the erosion control fabric in a tidy and weed free condition and reinstate as necessary to ensure control measures are effective where deemed necessary. Inspect every 2 weeks and act to repair any damage as soon as possible.
- **Weeding and rubbish removal** - During the plant establishment period remove by hand, rubbish and weed growth that may occur or re-occur throughout all planted, mulched and paved areas. The contractor shall target weeds that are capable of producing a major infestation of unwanted plants by seed distribution. Whenever possible, time weed removal to precede flowering and seed set. Constant observation and removal of weeds is essential.

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Landscape Specification

Scale: AS SHOWN
Job Number: Drawing Number: Issue:

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