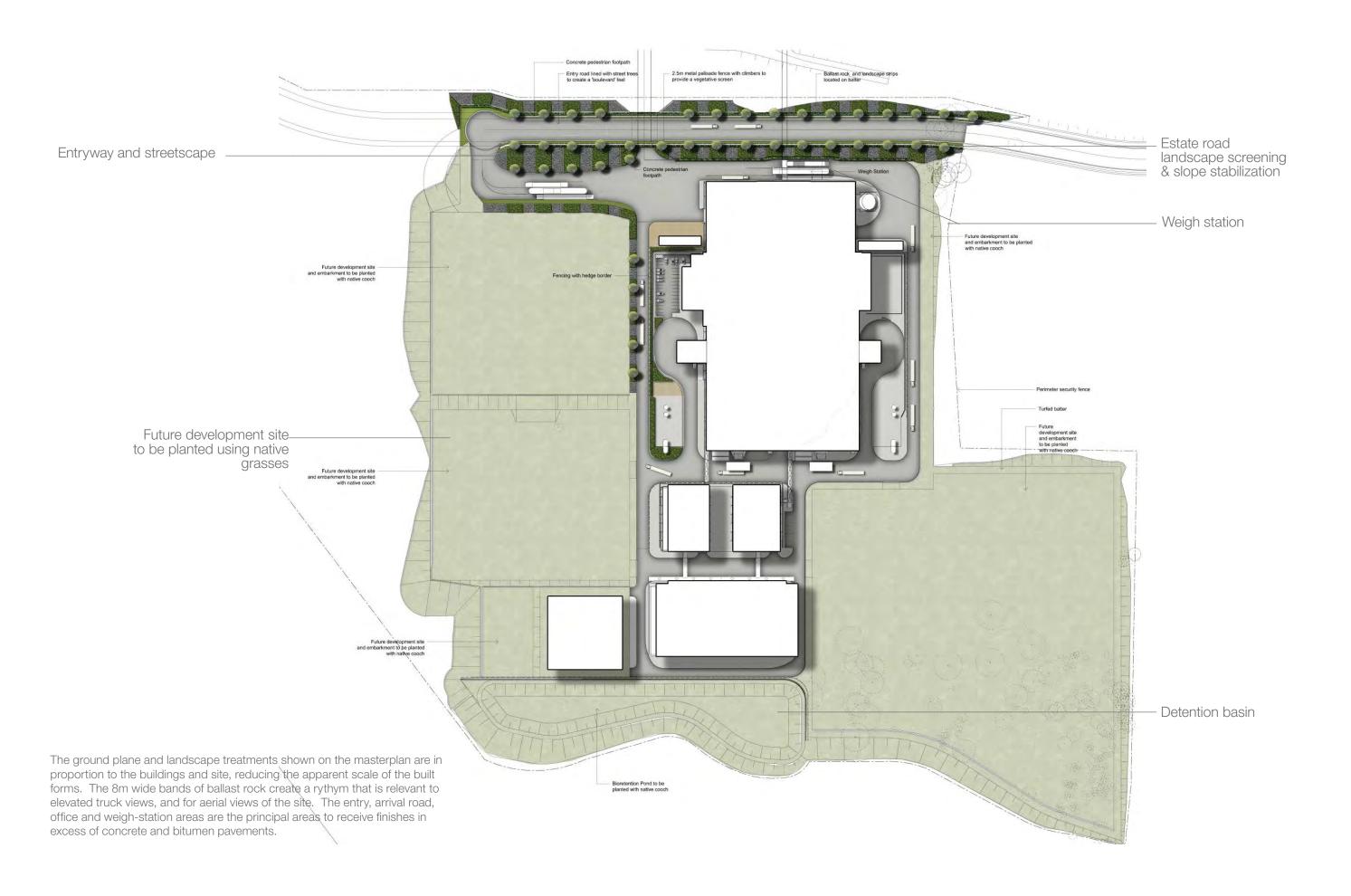


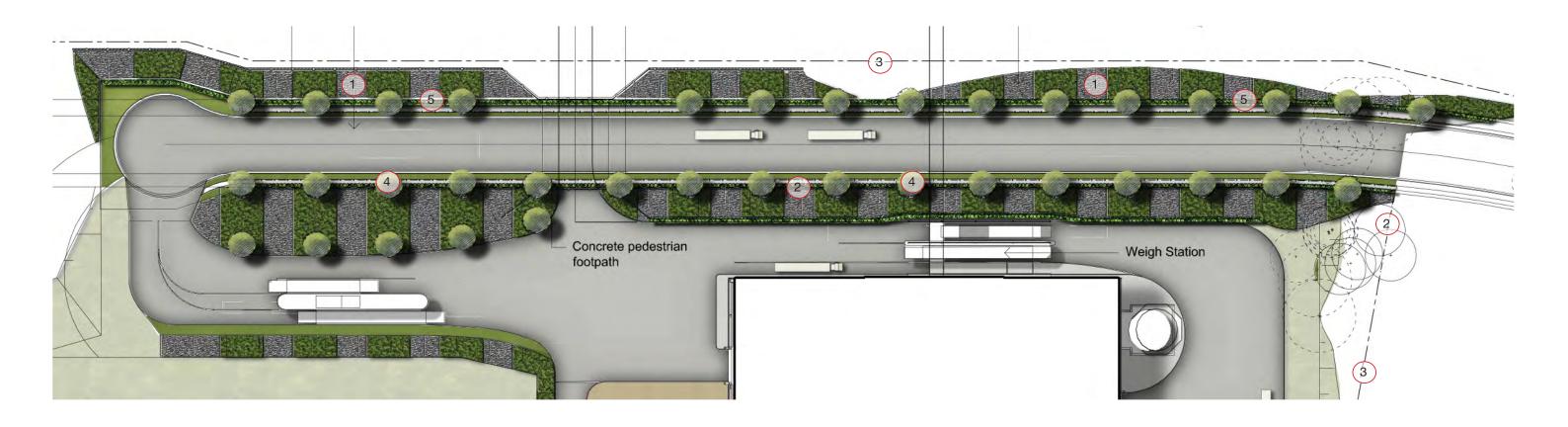
TNG Power Plant Landscape Concept Package











The site entry and adjacent streetscape are provided large scale patterns of landscape and bands of ballast rock – creating a bold industrial visual identity. Limited street and avenue trees are complimented by a narrow margin of managed lawn to the road edge. Entry signage, post top lighting to the roads will provide a higher level of detail than elsewhere on the site.







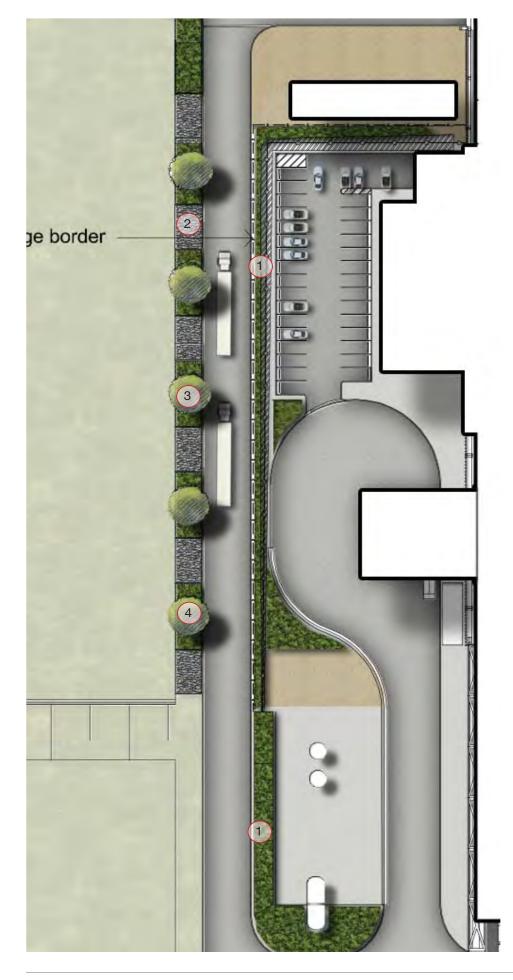


The weigh-bridge area is located against the level change up to street level. Using a ballast and planting stabilized slope eliminates the cost of a retaining structure, and creates a bold repeating pattern of rock and ground cover planted bands across the slope. This softens the outlook for staff and truck drivers who occupy this area 24/7.









The office area is to have a simple outdoor terrace area. Truck and vehicle movements take priority across the site, and pedestrian movement routes are to be demarked clearly as part of a site-wide access management plan. Barbeque and entertainment facilities can be provided for occasional visitor or company functions.



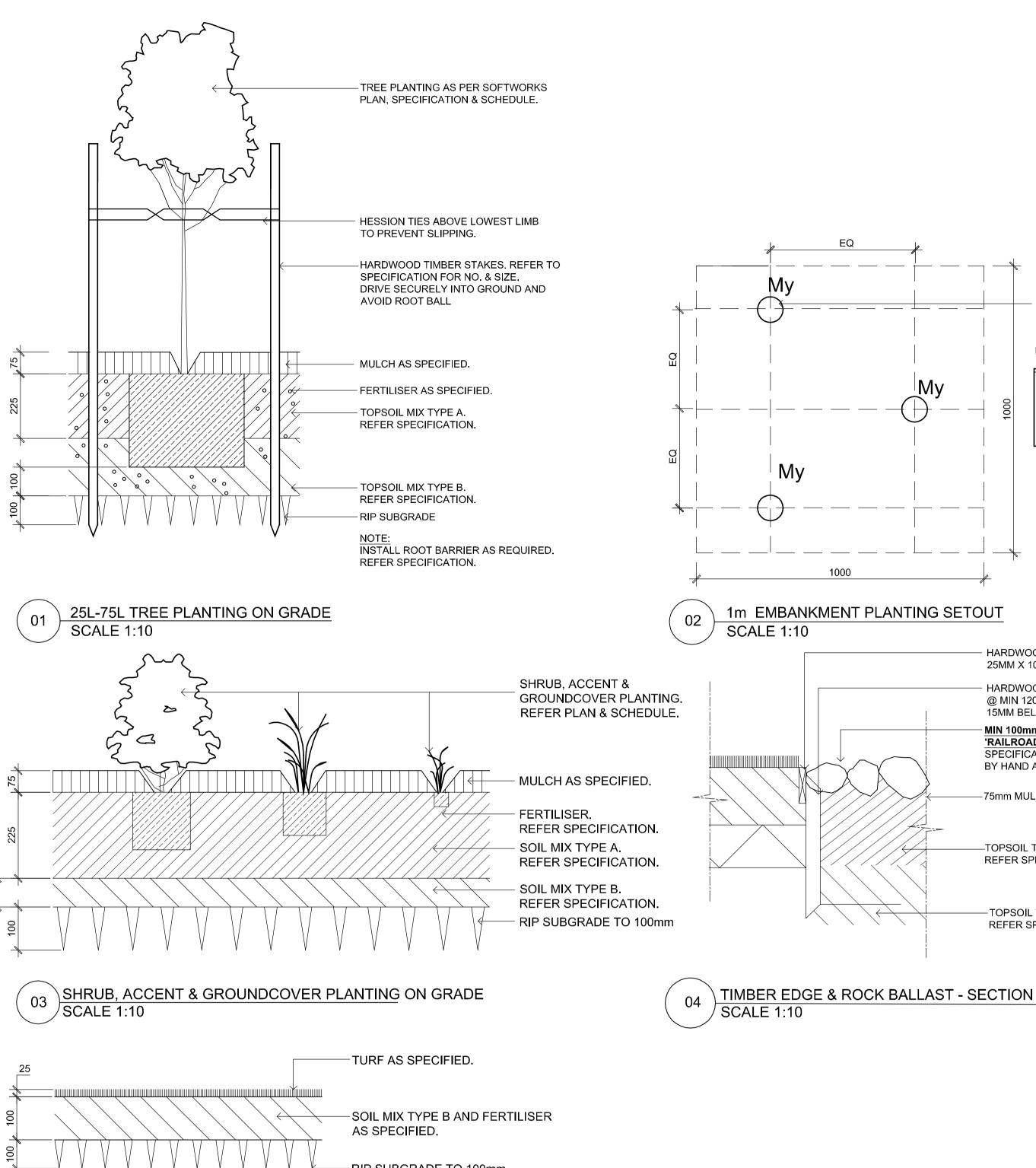


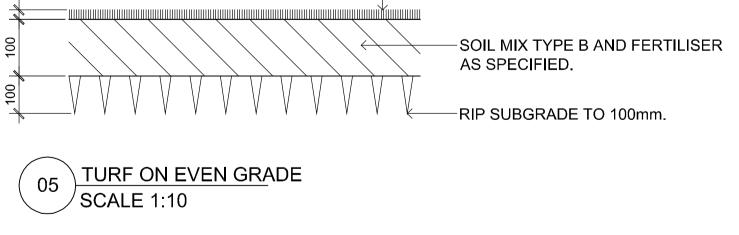


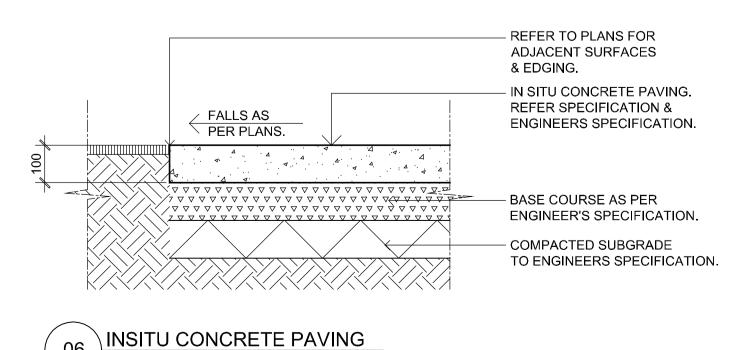












PLANT SCHEDULE							
Symbol	Botanical Name	Common Name	Mature Height (m.)	Mature Spread (m.)	Spacings	Pot Size	Quantity
	Trees		'	•	ı	ı	ı
Cm	Corymbia maculata	Spotted Gum	15	7	As Shown	45L	41
	Shrubs						
Sy	Syzygium 'Path Finder'	Dwarf Lilly Pilly	1	1	As Shown	300mm	651
Lp	Lonicera periclymenum	Honeysuckle	4	4	As Shown	300mm	368
	Groundcovers / Grasses						
Gh	Gazania x hybrida	Gazania	0.2	0.5	3/m2	150mm	6363
My	Myoporum parviflora 'Yareena'	Yareena Myoporum	0.1	1	2/m2	150mm	6285

MAINTAIN STAGGERED

MATRIX HATCH PATTERN

HARDWOOD TIMBER EDGE AS SPECIFIED

@ MIN 1200MM CENTRES AND RECESSED

SPECIFICATION, NOTE: ROCK TO BE LAID

BY HAND AROUND TREE TRUNK BASE

HARDWOOD TIMBER STAKES 50 X 50 X 400MM

BALLAST HATCH PATTERN

25MM X 100MM IN LONG LENGTHS

15MM BELOW FSL OR TIMBER EDGE

MIN 100mm - MAX 200mm BASALT

'RAILROAD BALLAST' REFER TO

75mm MULCH AS SPECIFIED.

TOPSOIL TYPE A.

TOPSOIL TYPE B.

REFER SPECIFICATION.

REFER SPECIFICATION.

PLANTING SET-OUT

FORMAT

Note:

(X) trees have been identified on the subject site that will be impacted upon by proposals and are proposed to be removed. These have been reviewed and assessed by Abel Ecology, and confirmed to be suitable for removal and replacement with offset planting in riparian planting works in adjoining land to the south. The detail of trees proposed to be removed is provided in Abel Ecology documentation. The locations for offset planting and specifying species, methodology and maintenance regime will be noted in the Abel Ecology documents.

GENERAL NOTES

All plans and details included in the project documents shall be read in Root Barrier conjunction with this specification. All structural and civil works components of the landscape design shall be referenced to engineers' adjacent to walls, paths and all trunk service trenches, where their details and specifications. Read this specification in conjunction with proximity poses a threat to the stability of the infrastructure. Install in the plant and materials schedule on this drawing. If in doubt about any accordance with manufacturer's recommendations. detail or if conflicts are found in the documents, seek advice.

Workmanship and Materials

trained and qualified landscape contractor who is experienced in horticultural practices, landscape construction and planting techniques. surface flush with the surrounding surfaces evenly graded between The landscape contractor shall hold a current Building Contractors License and/or be a financial member of LNA Landscape Association depth. NSW & ACT or equivalent organisations in other states.

EXISTING TREES

Trees 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

Turf on a tree, give written notice immediately and obtain instructions.

Work near Trees

Keep the area of the drip-line free from construction material and debris. Do not place bulk materials and harmful materials under or near Prevent it form drying out between cutting and laying. Lay the turf in the trees. Do not place spoil from excavations against tree trunks. Prevent following manner wind-blown materials such as cement from harming trees and plants. • In stretcher pattern, joints staggered and close butted; 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 note in the contract, bulk excavation is excluded

The irrigation system shall be an automatic fixed drip system, with an to achieve design levels to accommodate finish materials as detailed. shall be compatible to the type of plant material and rates of water Compact the finished surface as required for the finished ground

Sub-soll Drainage

Keep the excavated works drained and free of standing water. Allow to vandalism, over-spray and wetting of paths shall be reduced to a 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 and judiciously placed fixed spray emitters. Do not use fine mist type drainage pipes to the nearest downstream stormwater pits. Include pipe filter socks.

HARDWORKS

Garden Walls, Fences, Steps, TGSI and Edging Construct garden walls as shown on plan, as detailed and of the comply with standards and applicable legislation.

Continuous, Unit and Loose Pavement Install the scheduled material pavement to the locations shown on plan. • Replacing failed plants; Ensure that all subgrade/subsurface works are complete prior to

SOFTWORKS

integrity of the installation.

Soll Testing

Undertake at least two (2) soil tests, in locations as advised by Project • Erosion control; and Manager, and provide results and recommendations for the improvement of plant growth and to adjust the soil to achieve appropriate planting medium (including pit levels) for successful plant growth.

Excavate all garden beds to bring the subsoil to at least 300mm below the landscape always looking its best. finished design levels. Shape the subsoil to fall to subsoil drains where applicable. Do not excavate within the drip line of trees to be retained. Maintenance Activities Excavate all turf areas to bring the subsoil to at least 100mm below finished design levels. Shape the subsoil to fall to subsoil drains where applicable. Do not excavate within the drip line of trees to be retained. • Plant replacement - Replace plants that have failed to mature, Cultivate the subsoil to a further depth of 100mm. Remove stones 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 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 after cultivation.

Topsoll

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 edge; Smooth and free from stones or lumps of soil;

• Graded to drain freely, without ponding, to catchment points; Graded evenly to adjoining surfaces; and

Ready for planting.

Provide, in accordance with AS 4454, well rotted vegetative material or animal manure, free from harmful chemicals, grass and weed growth.

Fertiliser

Provide proprietary fertilisers, delivered to the site in sealed bags marked to show manufacturer or vendor, weight, fertiliser type, N:P:K ratio, recommended uses and application rates.

Supply plants in accordance with the landscape 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 or variety; Hardened off, not soft or forced, and suitable for planting in the

natural climatic conditions prevailing at the site, and in particular

- 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 their container

Plant Installation

shade conditions:

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 • Erosion control - Where necessary, maintain the erosion eliminate air pockets. Ensure the topsoil is not placed over the top of the rootball. Keep the plant stem at the same height above the ground as it was above the soil in the container. Apply fertiliser, as recommended in the soil testing results or in accordance with the manufacturer's recommendations around the plants in the soil at the time of planting.

Embankment Stabilisation

Where necessary to prevent soil erosion or soil movement, stabilise embankments. As a minimum this should be on slopes >1:3. Stabilise embankments using biodegradable fibre reinforced with heavy weight polymer mesh. Lay mesh from top to bottom of slope. Install in accordance with manufacturer's specification, including 300 x 300 mm anchor trenches at top and bottom, backfilled with soil over the mesh and compacted, and U-shaped galvanised steel pegs at 1000 mm centres and 250mm centres at edge overlaps. Plant after matting is installed.

Supply and install root control barriers to all new tree plantings

Mulch shall be approved recycled wood fibre or pine bark mulch. Place The whole of the landscape works shall be carried out by a competent, 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 design surface levels. Over fill to allow mulch to settle to the specified

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:

 Semi-advanced plants (>75 lt): 2 off 50x50x 1800mm; Advanced (>100 lt): 3 off 50 x 50 x 2400mm.

• Plants (≥25 lt): 1 off 38 x 38 x 1200mm;

Turf shall be delivered to site as 25mm minimum thick cut rolls. Obtain turf from a specialist grower of cultivated turf. Provide turf of 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.

 Parallel long sides of level areas, with contours on slopes; & • To finish flush, after tamping, with adjacent finished surfaces of

IRRIGATION

from the landscape works. Trim and fill the excavated ground surfaces irrigation controller self operated via a soil moisture sensor. The system required. Where appropriate adjustable and fully serviceable. The layout of the entire irrigation is to ensure that each individual plant receives the required amount of water to maintain healthy and vigorous growth. The irrigation system shall be such that, component theft, minimum or completely eliminated by the use of drip, pop-up sprinklers emitters that provide a drifting mist that may wet paths and the

LANDSCAPE MAINTENANCE

The Landscape Contractor shall rectify defects during installation and that become apparent in the works under normal use for the duration of material scheduled. Provide footings, step nosings, tactile surfaces to the contract Defects Liability Period. The Landscape Contractor shall maintain the contract areas by the implementation of industry accepted horticultural practices for 52 weeks. The landscape maintenance works shall include, but not be limited to, the following:

Pruning: commencing paving. Confer with the engineer to ensure the structural • Insect and pest control;

 Fertilising: Stakes and ties:

> Maintaining mulch Mowing and top dressing; Irrigation and watering:

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

Schedule the following activities to occur on a timely basis.

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

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.

 Insect 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. 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

fertilising including: Product brand / manufacturer's name,

Fertiliser / product name, Application quantity and rate, and

Date of application and location. Stakes and tles - Adjust and replace as required to ensure plants remain correctly staked. Remove those not required at the end

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. • Mowing and top dressing - Mow the turf to maintain a grass

of the planting establishment period (Defects Liability Period).

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.

fertiliser applied in accordance with the manufacturer's directions and

recommendations. Record in the logbook all relevant details of

• 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 rectify as required. Provide additional watering, if necessary.

control devices in a tidy and weed free condition and reinstate as necessary to ensure control measures are effective where deemed

 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.

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The contractor shall check and verify all work on site (including work by others) before commencing the landscape installation. Any discrepancies are to be reported to the Project Manager or Landscape Architect prior to commencing work. Do not scale this drawing. Any required dimensions not shown shall be referred to the Landscape Architect for confirmation.

1 For review CV RS 17.03.2015 Issue Revision Description Drawn Check Date

The Next Generation Pty Ltd

TNG Energy from Waste Facility

Redfern NSW 2016

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SITE IMAGE Level 1, 3-5 Baptist Street

Landscape Architects

For review

Landscape Details, Plant list & Specification

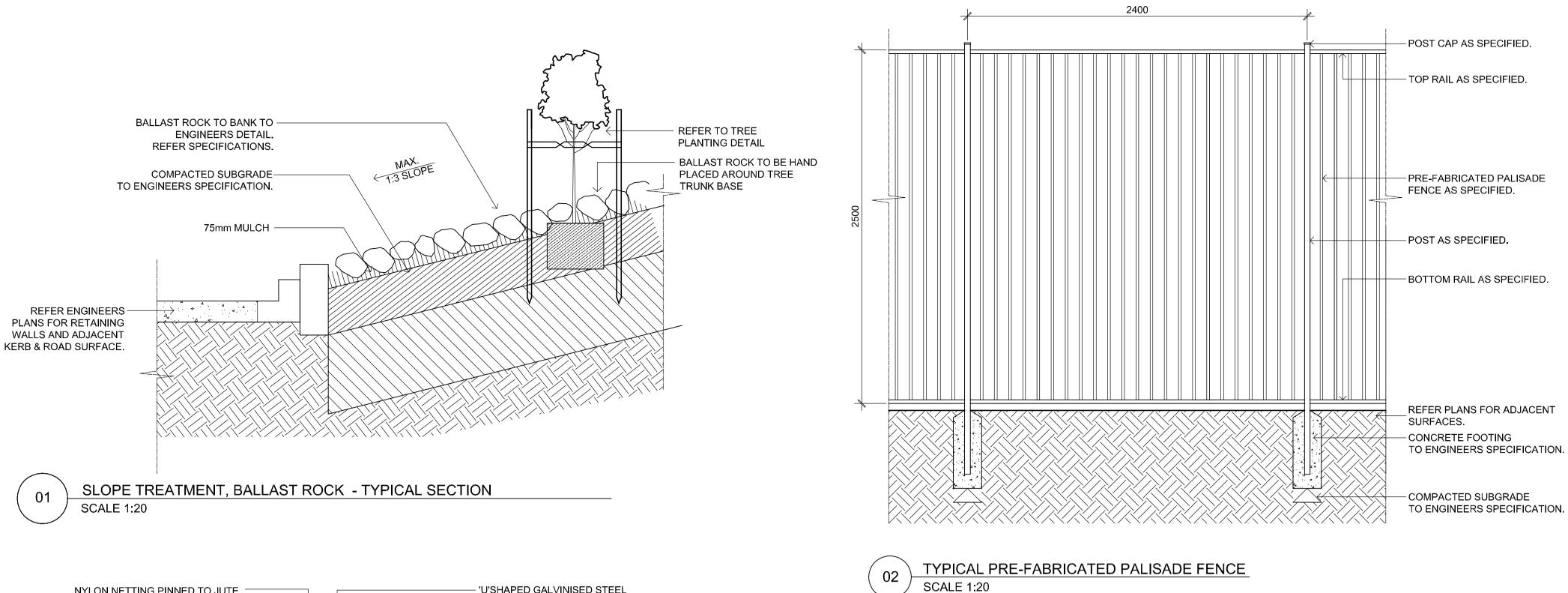
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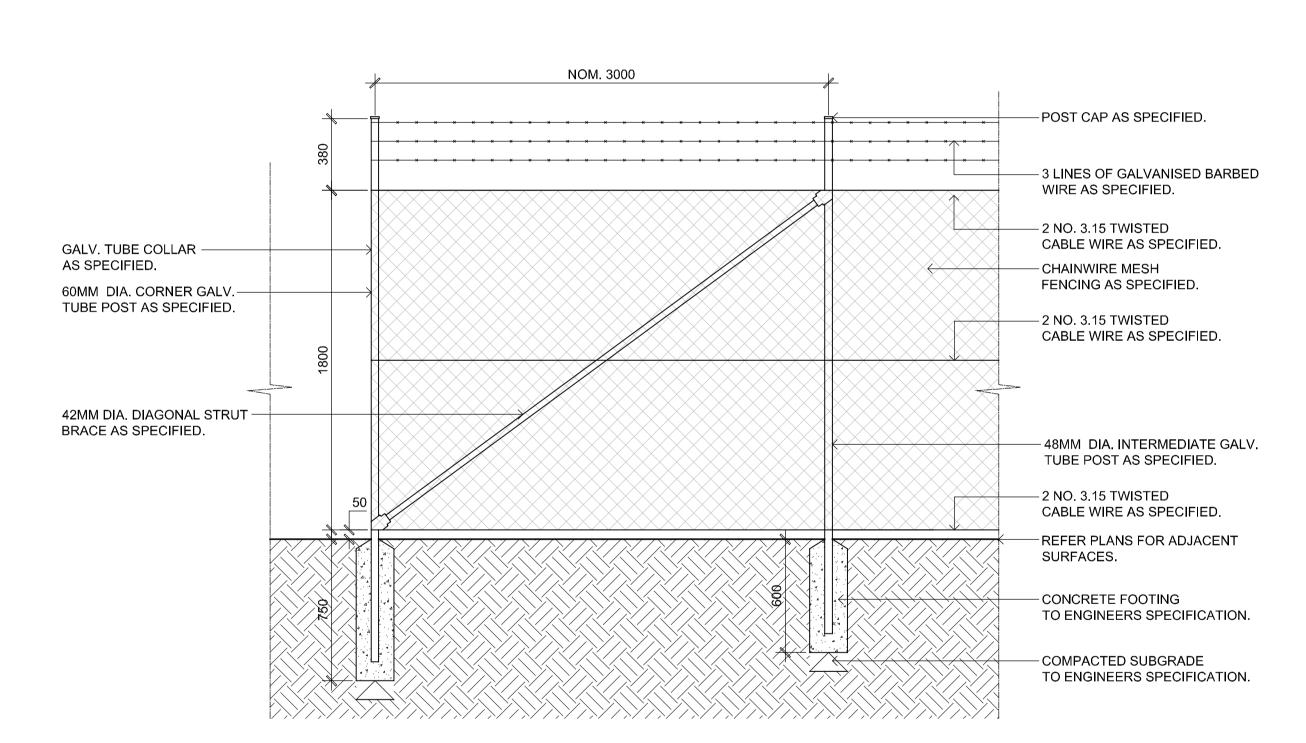
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NOT FOR CONSTRUCTION



U'SHAPED GALVINISED STEEL NYLON NETTING PINNED TO JUTE PEGS SECURED AT 1000mm STABILISATION MATTING,. CENTRES (MIN. 450mmLONG) REFER SPECIFICATION. JUTE STABALISATION - PLANTING HOLES CUT INTO MATTING: ROLLS TO BE JUTE STABALISATION MATTING LAID VERTICALLY DOWN MAX 300mm X 300mm BANK WITH A MIN 100mm OVERLAP ANCHOR JUTE STABILISATION BETWEEN ROLLS. MATTING UNDER SOIL. REFER SPECIFICATION. - MULCH AS SPECIFIED.

TYPICAL EMBANKMENT PLANTING DETAIL



TYPICAL SECURITY CHAINWIRE FENCE **SCALE 1:20**

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SITE IMAGE

For review

Landscape Details

Drawing Name:



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