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IMPORTANT NOTE RE CLARIFICATION:
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This plan shall be read in conjunction with the ACEnergy Pty Ltd Hume Highway, Holbrook Distribution BESS drawings.

This plan shall be read in conjunction with the 'Bushfire Assessment Report: Holbrook D-BESS 5MW' prepared by Bushfire Environmental Management Consultancy (BEMC) v3 dated 6 March 2024.

A 14/3/2024 Design updated to revised
ACEnergy layout; Plant spacing
revised to 1.50 m, plant schedule
updated; Reference added re BEMC
Bushfire Assessment Report; BEMC
report compliance matrix added to
Specification Notes sheet.

Revision Note

2 14/3/2024 REVISED APPROVAL ISSUE 30/11/2023 APPROVAL ISSUE Issue Date

ACEnergy Pty Ltd



HOLBROOK **Distribution BESS**

Hume Highway Holbrook NSW

Overview/Context Plan

1 of 4 Sheet

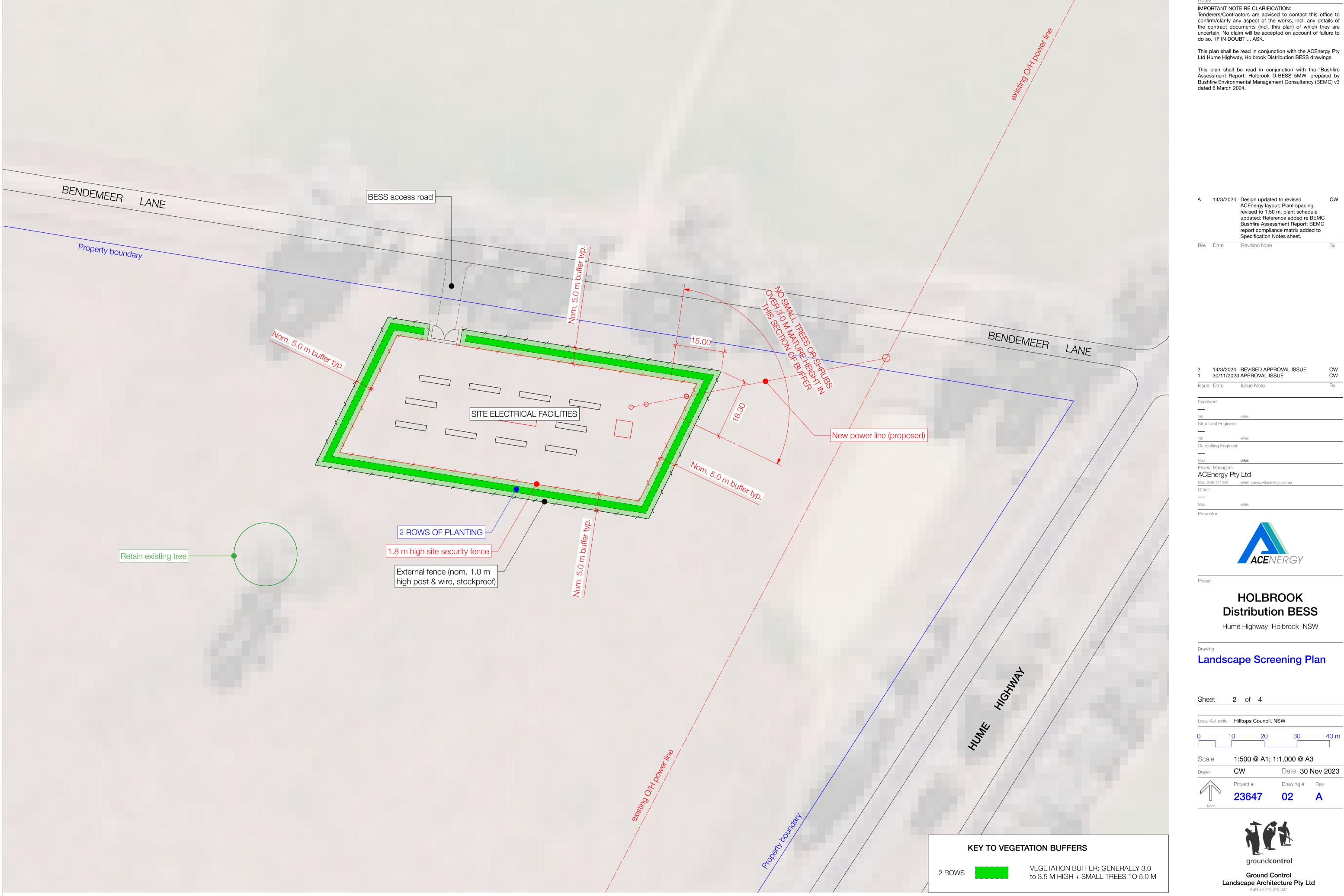
Local Authority Hilltops Council, NSW

1:4,000 @ A1; 1:8,000 @ A3 Date 30 Nov 2023



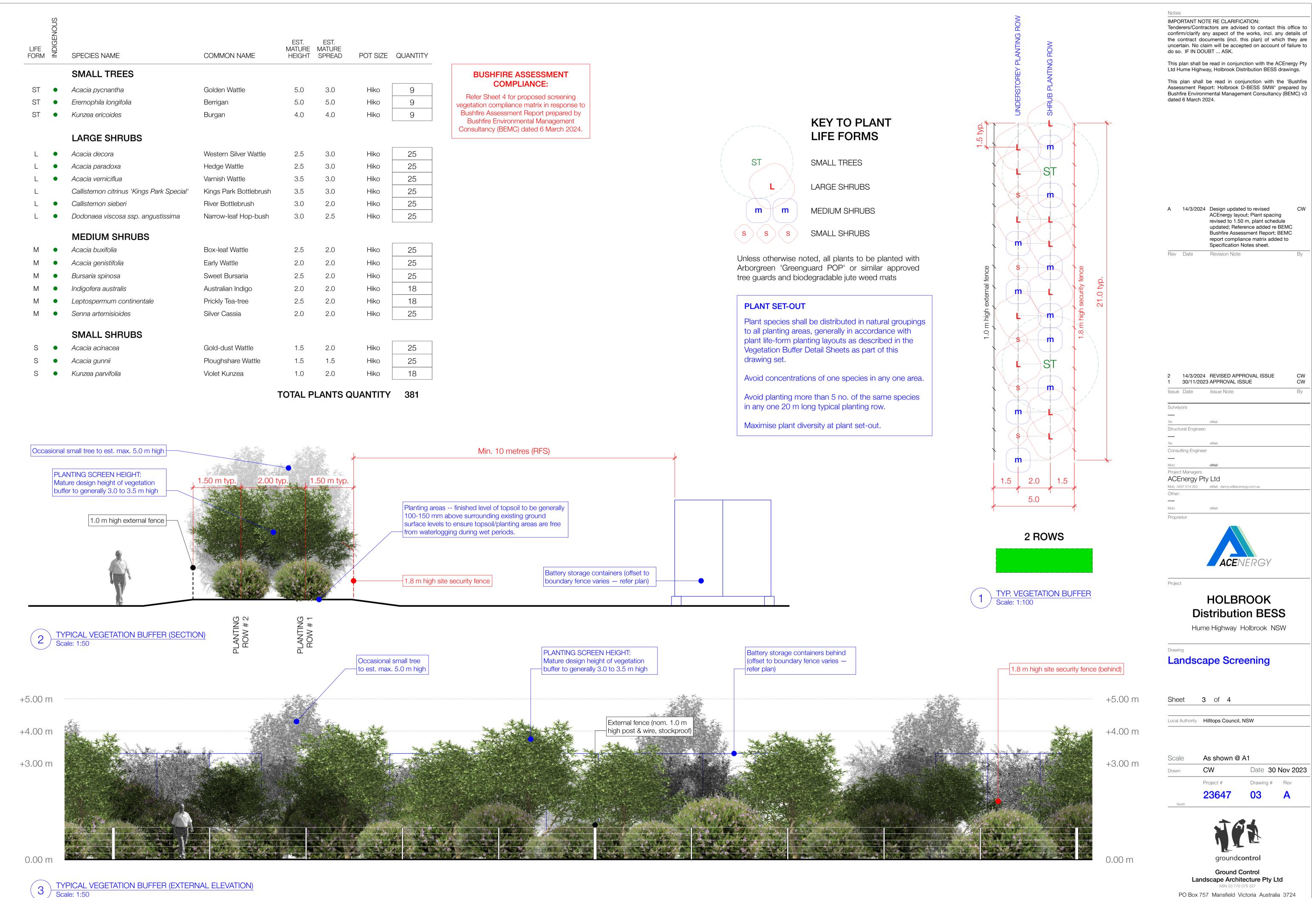
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REVISED APPROVAL ISSUE - 14 March 2024

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LANDSCAPE WORKS CONSTRUCTION NOTES:

WORKS BY CIVIL/OTHERS

All construction & civil works incl. demolition, building works, bulk earthworks, drainage infrastructure, road pavements, site electrical & battery facilities & associated infrastructure, fencing and other related works.

The civil contractor will ensure the following minimum depths of site topsoil are provided for the landscape works:

- Planting areas -- min. 150 mm depth site topsoil.
- Finished level of topsoil to be generally 100-150 mm above surrounding existing ground surface levels to ensure topsoil/planting areas are free from waterlogging during wet periods.

INSURANCES

Provide certificates of currency for Public Liability Insurance (min. \$20M) and Workcover insurance (min. \$20M) to the Superintendent prior to commencing works. Each certificate of currency shall note the Proprietor as an interested party.

ROAD OPENING PERMIT

Apply to the responsible authority for a road opening permit (if required), incl. the payment of all fees and charges re same. An approved copy of the approved road opening permit shall also be provided to the Superintendent prior to works commencing on site.

LANDSCAPE PRE-COMMENCEMENT MEETING

The Contractor shall Initiate, coordinate and attend a pre-commencement meeting with Council, Proprietor & Superintendent, incl. achieving compliance with all Council & specified requirements, checklists, insurances, approvals, etc.

TRAFFIC MANAGEMENT

If required, prepare and submit to the responsible authority a traffic management plan to their satisfaction, incl. the payment of all fees and charges re same. An approved copy of this plan shall also be provided to the Superintendent prior to works commencing on site. Implement approved traffic management plan during the duration of the Works on site.

LOCATE EXISTING SERVICES

Locate all existing services prior to commencing works, contacting Dial Before You Dig, the project civil engineers/contractor and/or the relevant authorities re same as required. Identify all overhead services prior to commencing works.

SET OUT THE WORKS

Accurately set the works out as per the documentation set.

SOIL TESTING

Undertake soil sampling & testing from an approved ag. soil testing laboratory, incl. seeking recommendations for fertilising planting zone to improve soil NPK balance, trace elements, etc. Any recommended adjustments must be made to improve the soil conditions for native tree & shrub planting.

PLANTING AREAS PREPARATION -- INITIAL

These works to be done ideally in LATE FEBRUARY/MARCH of the planting year:

- Eradicate broadleaf, woody and noxious weeds from all planting areas using selective, non-residual herbicides. Manual removal of larger woody weeds may be required -- inspect site to confirm extent.
- Rip along planting line to 2.0 m wide to min. 300 mm depth with a Yeomans/Keyline plough with tynes at max. 750 mm centres to break up/aerate natural subgrade and to relieve compaction, grade & level.
- Apply fertilisers and additives at rates recommended by soil test results.
- Cultivate planting lines to break up soil clods and provide an appropriate planting medium.
- DO NOT WORK WET SOIL. Remove any deleterious material brought to the surface, consolidate soil and grade surface to even grades, free of any depressions or undulations.

10 PLANTING AREAS PREPARATION -- SECONDARY

These works to be done ideally in APRIL/MAY of the planting year

- Eradicate broadleaf, woody and noxious weeds from all planting areas using selective, non-residual herbicides. Manual removal of larger woody weeds may be required.
- Re-cultivate planting lines to break up soil clods and provide an appropriate planting medium.
- DO NOT WORK WET SOIL. Remove any deleterious material brought to the surface, consolidate soil and grade surface to even grades, free of any depressions or undulations.

PLANT SUPPLY

All plants shall be healthy, free from any pests or diseases, be attractive, well grown and well formed plant specimens and shall have a healthy, well formed root system commensurate in size with the foliage mass (root systems must not be pot bound). Plant container sizes shall be as listed in the detail planting schedule, but shall be min. hiko, ViroTube or 50 mm round/square pot size.

The planting contractor shall inspect all plants on delivery to site and shall certify in writing to the Superintendent that all plants supplied are as described above and are accepted by the planting contractor for planting in this project.

12 PLANTING

Set out plants as documented. Individual holes are to be dug (tree planter, mini-auger, etc.) in the prepared planting areas of sufficient size to easily accommodate the plant's root system and relieve any polishing. Create broad, shallow watering bowl to ALL plants to facilitate effective watering (min. 5 litre capacity). All plants shall be watered-in immediately after planting and at such times during the Contract period as is required to maintain growth free of water stress. Planting medium must be moist - do not plant into dry soil. Handle and plant all plants at all times in accordance with best horticultural practice.

13 FERTILISING

Refer maintenance section.

14 WEED MATS

Supply & install to each plant a 600 x 600 mm TreeMax or similar approved jute weed mat. Installation strictly to manufacturer's recommendations.

15 TREE/PLANT GUARDS

Supply & install to each plant Arborgreen 'Greenguard POP' 450 x 200 mm (sides): Code: 'GRGRDPOP-TRI' or similar approved 100% biodegradable tree guard, incl. 1 no. x 25 x 25 x 750 mm HWD stake per guard to all plants. Ensure stake extends min. 300 mm into ground. Installation strictly to manufacturer's recommendations.

16 GRASSING (IF REQUIRED)

Some areas of grass seeding may be required and will be directed and quantified by the Superintendent.

Do not sow seed in periods of extreme heat, cold or wet, or where wind velocities are excessive unless otherwise approved. Seed mix shall be as follows:

- TURF-TYPE REGENERATING PERENNIAL RYEGRASS 95% by count
- TURF-TYPE TALL FESCUE
- SUB CLOVER 1% by count WHITE CLOVER 1% by count

Seeding rate shall be min. 30 gms per m2. Apply seed evenly – seed application shall be via direct drilling or by other approved methods. Seeding shall be programmed when there is a period of anticipated weather conditions (i.e. rain) that will provide the best chance for germination of grass seed. Any areas affected by heavy rain, wind removing seed or other cause shall be re-seeded as specified to achieve an even cover of grass.

Slash grass when growth height has reached 100 mm or otherwise as directed by Superintendent. Should all the areas not require cutting at one time, complete all further cuts as necessary until 100% of the area has achieved successful coverage and all areas have received at least first cut.

17 PRACTICAL COMPLETION COORDINATION

The Contractor shall Initiate, coordinate and attend a Practical Completion meeting with Council, Proprietor & Superintendent, incl. achieving compliance with all Council & specified requirements, checklists, insurances, approvals, etc. NOTE: Min. 3 no. working days notice is required for a Practical Completion meeting.

18 LANDSCAPE ESTABLISHMENT MAINTENANCE PERIOD

Maintain the contract works from the Date of Practical Completion to the Date of Final Completion/hand-over.

Maintenance shall include care of the contract area by accepted horticultural practices, and rectification of any defects that become apparent during this period. Maintenance tasks to be carried out during the maintenance period shall include, but shall not be limited to, slashing, watering as required, weed control, pest & disease control & management, tree/plant guard adjustment/replacement as required, rubbish removal.

WEED CONTROL - PLANTED AREAS:

In planted areas, poison all broadleaf, noxious & woody weeds as they appear. Slashable grasses are to be retained generally between planting rows. Selective herbicides shall be nominated by the Contractor and approved by the Superintendent prior to use. Non-selective herbicide shall be Monsanto 'Roundup BIACTIVE' glyphosate-based herbicide -standard 'Roundup' is NOT to be used. NO OTHER HERBICIDE SHALL BE USED WITHOUT PRIOR APPROVAL. All herbicide applications shall use NuFarm 'Spraymate or similar approved marker dye admixture and shall be handled and applied strictly according to manufacturer's recommendations, recommended rates and directions.

GRASS MANAGEMENT - PLANTED AREAS:

Slash all areas between plants in rows and min. 1.5 m along all outside edges of all planting zones on a regular basis to maintain grass height to max. 100 mm. Slashing shall comply with all local Council and RFS guidelines re grass heights.

JUTE MAT & TREE/PLANT GUARDS:

Maintain jute mat and tree/plant tree guards for first two summers minimum, repair and replace as required during this period.

PLANT REPLACEMENT:

Replace any failing, failed or dead plants during the maintenance period. The Superintendent and the Contractor will inspect the full planting areas at the end of each summer and will identify the number and species of plants that are failing, have failed/died. The Contractor shall replace all such plants identified.

WATERING:

The Contractor shall ensure all plants planted/maintained under this contract receive adequate (but not excessive) watering to maintain optimum growth and health. Watering shall be localised to each plant, not broad spraying across the entire planting area, to limit weed/grass growth between planting rows.

Watering shall be either manually via watercart/hose as required OR via a drip irrigation system, using Netafim 'UniRAM AS' inline dripline @ 1.6 LPH with emitter spacing of 400 mm -- one surface dripline per planting row. Drip irrigation system to be designed by an accredited irrigation designer and connect to an available clean water source, incl. filtration at source.

All plants shall be watered as required for at least the FIRST TWO SUMMERS to aid in establishment of healthy root systems and foliage growth, with further waterings if required during late spring and/or early autumn or at any other time of the year based on prevailing climatic conditions. Further waterings may be needed beyond this minimum establishment watering should prevailing climatic conditions deteriorate with potential to lead to deterioration of plant growth, health or plant deaths (e.g. severe drought, El Niño conditions, etc.).

FERTILISING:

All plants (excluding Proteacea family) shall be fertilised with Scotts 'Osmocote® Plus Trace Elements: Native Gardens' (NPK 21.8:0.7:7.2) or similar approved at the manufacturer's recommended rates. Fertiliser shall be locally spread on soil surface around plants during planting operations. If unsure which plants are in the Proteacea family – ASK.

Allow for one fertiliser application in Year 1 and second application in Year 2.

PESTS & DISEASES:

Regularly monitor all plants grasses planted/maintained under this contract for evidence of pest and/or disease attack -identify and treat any/all problems arising.

RABBITS, HARES, KANGAROOS, ETC.:

Identify any predation by rabbits, hares and other pests with potential to damage or destroy the landscape works under this contract. Take all necessary steps, within local authority regulations and/or guidelines, to limit or eradicate predation. Maintain all tree guards in good condition to limit rabbit/hare/kangaroo/other damage to plants with installed guards.

COMPLIANCE WITH BUSHFIRE ASSESSMENT REPORT:

Bushfire Environmental Management Consultancy (BEMC) report dated 6 March 2024.

Recommendation 2 - Landscaping A Landscaping plan is required to illustrate: 10m APZ internal to the perimeter vegetation screening and perimeter fencing No infrastructure except for the fire trail within the 10m APZ. • Fire trail established within APZ internal to the perimeter fencing around the • The following landscaping maintenance of the perimeter vegetation screening: o No shrub vegetation proposed (refer note # 1 below) o Grasses maintained to 10cm height. o All branches <2m above surface level removed. (refer note # 2 below) • The following principles shall be applied to the landscaping features: Planting does not provide a continuous canopy in a line towards the facility. Avoid species with rough fibrous bark, or which retain/shed bark in long strips or retain dead material in their canopies. Use smooth bark species of trees species which generally do not carry a fire

DESIGN RESPONSE NOTES:

up the bark into the crown.

ground level (i.e., leaf litter).

Avoid climbing species.

Avoid planting of deciduous species that may increase fuel at surface/

Low flammability vegetation species are [to be] used. (refer note # 3 below)

compound.

- 1 The purpose of screening vegetation to this facility is to provide a vegetative screen to the BESS and MVPS units proposed for this site. The design height of the BESS units is nom. 3.0 to 3.5 m above ground level. The design height of the MVPS units is 2.5 to 3.0 m above ground level. ACEnergy direction re screening vegetation was to limit the majority of selected species to 3.0 to 3.5 m estimated mature growth height, with occasional small trees to max. 5.0 m estimated mature growth height. Thus the majority of the species selected for planting in the proposed vegetative screen would be classified as 'shrub vegetation' for the purposes of the Bushfire Assessment Report. Compliance with this 'maintenance' condition would result in the entire removal of ALL effective screen planting. Based on the ACEnergy direction that a vegetative screen is required, the planting proposed in this document must be deemed non-compliant with this condition.
- 2 Assuming shrub vegetation is allowed (refer response # 1 above), compliance with this additional 'maintenance' condition would result in the removal of all proposed small shrubs and most proposed medium shrubs. Removing branches <2.0 m above ground level from the balance of the proposed medium shrubs would render them unviable, resulting in the combined loss of over 53% of the proposed screening vegetation. Removing branches <2.0 m above ground level from the proposed large shrubs would result in a remaining estimated effective screening of between 0.5 and 1.5 m high, starting min. 2.0 m above ground level. Compliance with this 'maintenance' condition would result in the entire removal of any effective screen planting. Based on the ACEnergy direction that a vegetative screen is required, the planting proposed in this document must be deemed non-compliant with this
- 3 Species selection is focused on specifying plants indigenous to the area of the D-BESS facility. Based on available research data accessed as at the date of issue of this drawing set, between 46% and 75% of the total plant numbers specified for the vegetative screen for this project are categorized by multiple sources as being low flammability plant species. As a result, the planting proposed in this document must be deemed part-compliant with this condition.

do so. IF IN DOUBT ... ASK.

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1 30/11/2023 APPROVAL ISSUE		CW
Issue Date	Issue Note	Ву
Surveyors		
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2 14/3/2024 REVISED APPROVAL ISSUE



HOLBROOK **Distribution BESS**

Hume Highway Holbrook NSW

Landscape Specification

Local Authority	Hilltops Council, NS

N.T.S. Scale CW Date **30 Nov 2023** Project # Drawing # Rev



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