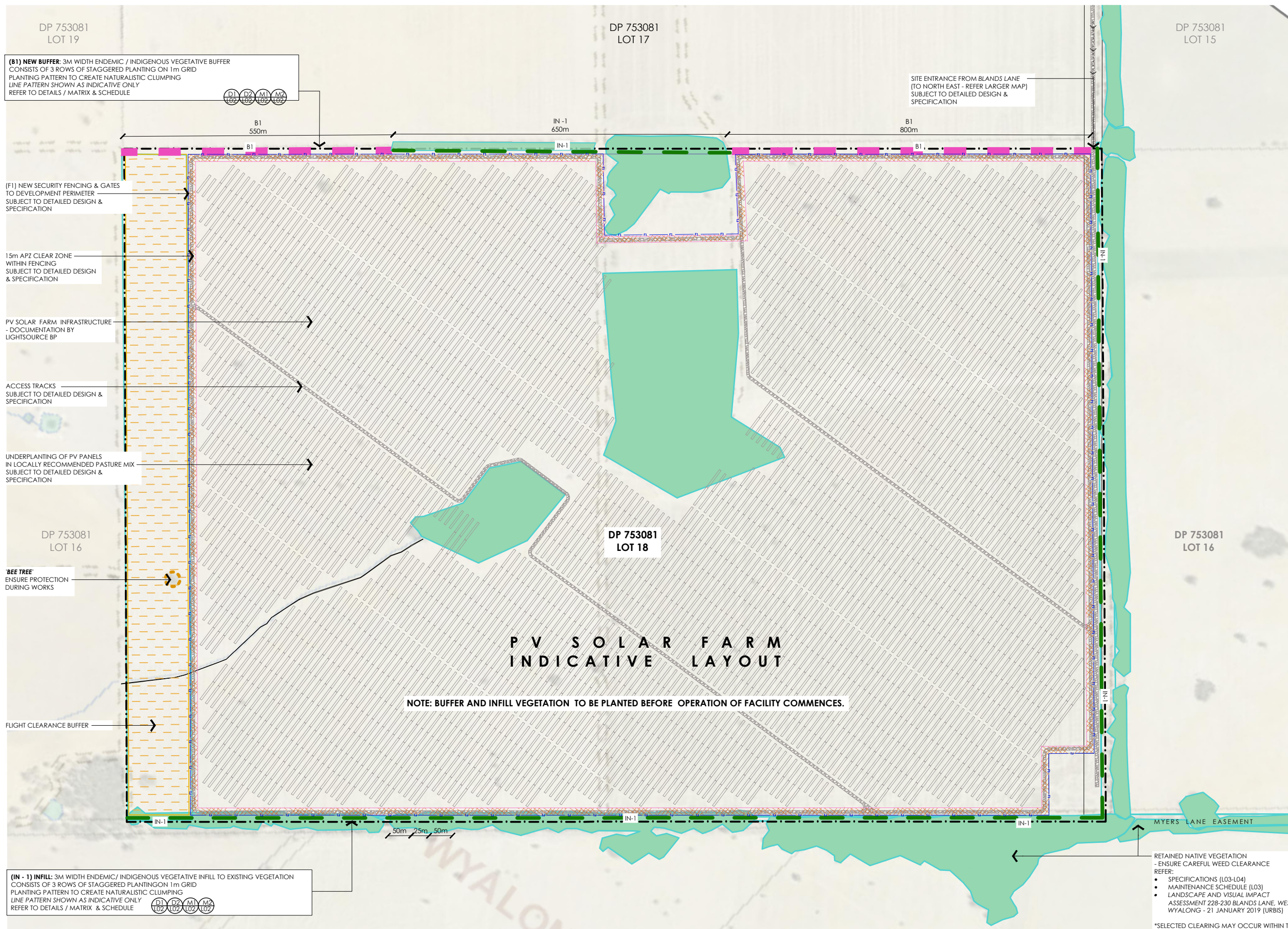


DRAWING REGISTER

DRAWING NUMBER				SHEET NAME	REV. No.	REV. DATE
13141.5	CC	L00		cover page	H	25/8/20
13141.5	CC	L01		plan of landscape works	F	25/8/20
13141.5	CC	L02		planting details / matrix / plant schedule	C	27/7/20
13141.5	CC	L03		landscape specifications 1/2 / task allocation schedule	D	24/8/20
13141.5	CC	L04		landscape specifications 2/2	E	21/8/20
13141.5	CC	L05		maintenance schedules	F	24/8/20

landscape plan

Lightsource BP
West Wyalong Solar Farm
228-230 BLANDS LANE, WEST WYALONG, NSW



LEGEND

- SPECIFIC CULTURAL HERITAGE TREE TO BE RETAINED
- EXISTING ENDEMIC / INDIGENOUS VEGETATION TO BE RETAINED
- NEW BUFFER** - 3m WIDTH ENDEMIC / INDIGENOUS VEGETATION - REFER TO PLANT SCHEDULE & DETAILS
- INFILL** - 3m WIDTH ENDEMIC / INDIGENOUS VEGETATION REFER TO PLANT SCHEDULE & DETAILS
- 15m APZ - INDICATIVE SUBJECT TO DETAILED DESIGN & SPECIFICATION
- PERIMETER FENCE - INDICATIVE SUBJECT TO DETAILED DESIGN & SPECIFICATION
- ACCESS TRACKS - INDICATIVE SUBJECT TO DETAILED DESIGN & SPECIFICATION
- PV PANELS - SUBJECT TO DETAILED DESIGN & SPECIFICATION
- 'FREE FLIGHT SOCIETY' CLEARANCE BUFFER SUBJECT TO DETAILED DESIGN & SPECIFICATION
- SITE BOUNDARY

F	25/8/20	text ammended
E	21/8/20	note added
D	31/7/20	rev to access track
C	27/7/20	rev to client
B	14/7/20	rev to client
A	06/7/20	draft issue
REV	DATE	COMMENTS

PROJECT:

West Wyalong Solar Farm

DRAWING:

Plan of Landscape Works

SITE:

West Wyalong, NSW

CLIENT:

Lightsource BP

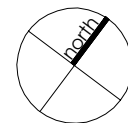
WORK TO FIGURED DIMENSIONS IN PREFERENCE TO SCALE. CHECK DIMENSIONS, LEVELS ON SITE PRIOR TO ORDERING MATERIALS OR COMPLETION OF WORKSHOP DRAWINGS

DRAWN: DS / PW DATE: 14/07/2020 SCALE: 1:7500@A3

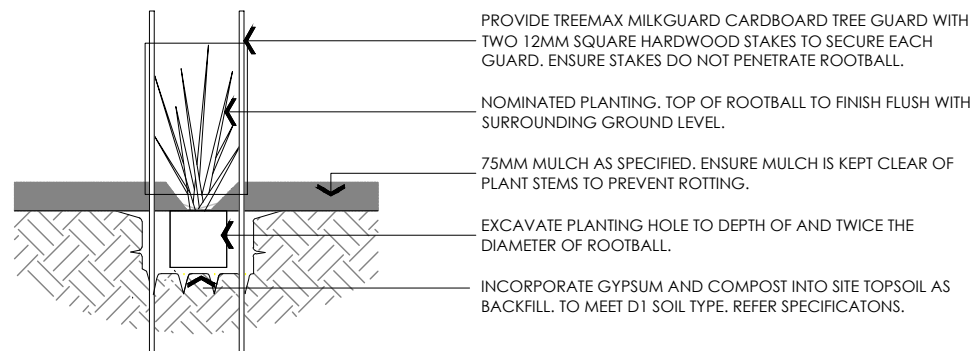
JOB NUMBER: 13141.5 CCL01 PHASE: DWG No: REV: F

REFER TO DOCUMENTS:

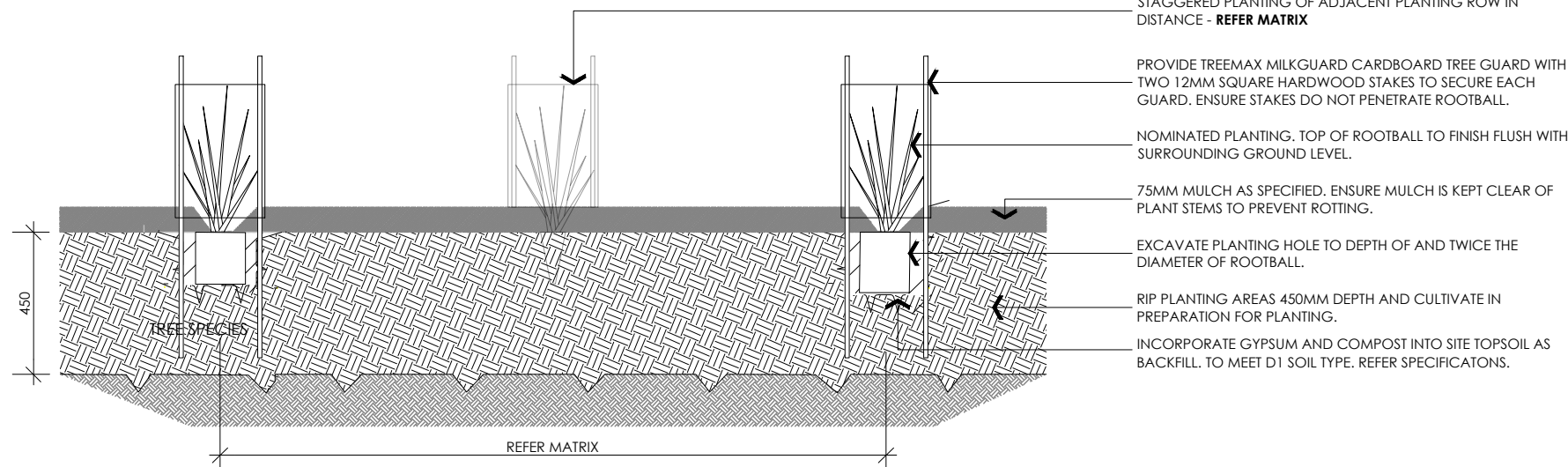
- DEVELOPMENT CONSENT - APPLICATION NUMBER SSD 9504 - 28 NOVEMBER 2019
- LANDSCAPE AND VISUAL IMPACT ASSESSMENT 228-230 BLANDS LANE, WEST WYALONG - 21 JANUARY 2019 (URBIS)



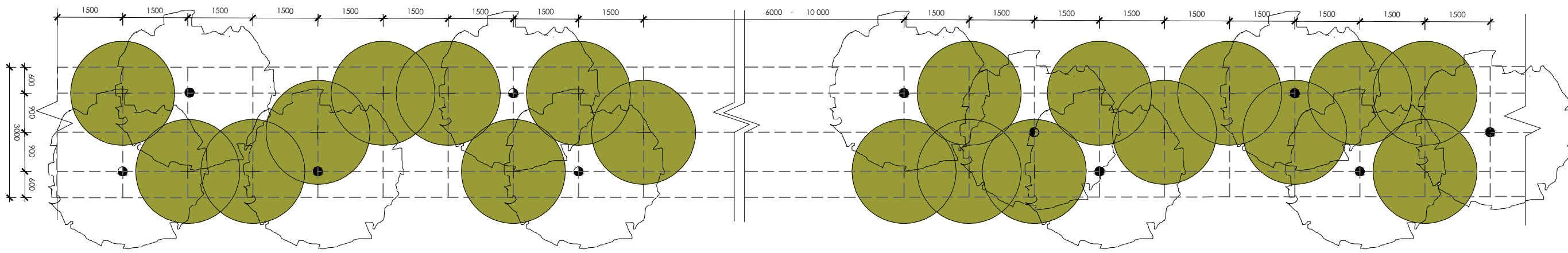
DO NOT CULTIVATE SOILS WITHIN EXISTING TREES TO BE RETAINED
TREE PROTECTION ZONES (TPZ)



D1) TYPICAL PLANTING WITHIN TPZ OF RETAINED VEGETATION
Scale 1:20@A3



D2 TYPICAL PLANTING WITHIN (B1) BUFFER AND (IN-1) INFILL ZONES



M1) SCREEN PLANTING (INDICATIVE PLANTING LAYOUT)

● TREE SPECIES
+ SHRUB SPECIES

REFER TO PLANT SELECTION SCHEDULE. VARY SPECIES PLANTING IN GROUPS OF 1-5 PLANTS OF SAME SPECIES FOR SHRUBS AND 3-5 FOR TREES

NOTE: ADJUST PLANTING AS REQUIRED WHERE IN-FILLING TO EXISTING VEGETATION



M2) INDICATIVE SCREEN PLANTING TO BOUNDARY
ELEVATION - Scale 1:1000 @ A3

PLANT IN CLUMPS IN VARYING LENGTH SEPARATED BY BREAKS OF BETWEEN 6M-10M THE AIM OF WHICH IS TO PROVIDE ADEQUATE SCREENING WITH A SEMI-NATURALISTIC APPEARANCE

NOTES

Planting species selected must have minimum trunk clearance of 300mm from the ground, and not overshadow solar panels. Proposed planting species will be largely comprised of dominant species already found on site, and supplementary planting from a selection of endemic species.

As per P&B and Standards for Asset Protection Zones, Trees must have clear trunk to height of 2 metres, and tall - medium shrubs be maintained to be clear of the tree canopy to ensure vertical stratification. Landscape to be planted in clumps and not provide continuous vegetation or canopy.

All environmental weeds found on site to be removed prior to landscape install, particularly those listed under the NSW Biosecurity Act 2016.

Solar panels are to have pastoral grass surrounding and growing underneath, and be maintained through slashing or grazing.

Pastural grass mix is to be based upon Department of Primary Industries nominated mixes for the West Wyalong District, and determined by specific soil type found on site. Vary to suit site and soil conditions.

There is currently an existing seasonal tributary water course crossing through a portion of the site, as well as existing vegetation found in the southern half of the site. Both the seasonal tributary water course and existing vegetation are to be retained.

Existing vegetation along the perimeter of the site is to be retained where possible and be supplemented with infill planting.

PLANT SCHEDULE

All trees supplied are to comply with AS 2303 Tree stock for landscape use - 2018

ABV	BOTANICAL NAME	COMMON NAME	HEIGHT	POT SIZE
TREES				
Cc	<i>Casuarina cristata</i>	Belah	10m	150mm
Cg	<i>Callitris glaucophylla</i>	White Cypress	14m	150mm
Eb	<i>Eucalyptus behriana</i>	Bull Mallee	10m	150mm
Es	<i>Eucalyptus sideroxylon</i>	Mugga Ironbark	15m	150mm
SHRUBS				
Ao	<i>Acacia oswaldii</i>	Umbrella Wattle	2m	150mm
Ap	<i>Acacia pendula</i>	Weeping Myall	5m	150mm
As	<i>Acacia salicina</i>	Sally Wattle	5m	150mm
At	<i>Acacia treuana</i>	Three-nerve Wattle	5m	150mm
Dv	<i>Dodonaea viscosa</i>	Sticky Hop Bush	5m	150mm
Em	<i>Eremophila mitchelli</i>	False Sandalwood	5m	150mm
Gp	<i>Geijera parvifolia</i>	Wilga	5m	150mm
MI	<i>Mealeuca lanceolata</i>	Black Teatree	5m	150mm

This schedule shall be read in conjunction with the landscape plans. Refer to the written specification for further information. The contractor shall check the schedule with the quantities shown on the drawing. Quantities shown in the plant schedule shall take precedence over quantities shown on the drawing. Refer all discrepancies, should they exist, to the superintendent before planting works commences. Order plants as soon as the head contract for the works has been let. Do not make substitutions unless approved in writing.

PASTURE MIX SCHEDULE (NOMINAL)

Advice should be sought from relevant local knowledge regarding the best pasture mixture for usage of the site
Adjust species and quantities based on existing site conditions.

VARIETAL/ TRADE NAME	RATE
DPI West Wyalong Pasture Mixture 3: (Neutral red soils)	
Urania (or Daiketh) sub clover	2 kg/ha
York (or Seaton Park) sub clover	3 kg/ha
Prolific Persian clover	1 kg/ha
Zulu Arrowleaf clover	1 kg/ha
Premier Digitgrass	½ kg/ha

PLANT SELECTION TAKEN FROM - LANDSCAPE AND VISUAL IMPACT ASSESSMENT 228-230 BLANDS LANE, WEST WYALONG - 21 JANUARY 2019 (URBIS)

C 27/7/20 rev to client

B 14/7/20 rev to client

A 06/7/20 draft issue

REV	DATE	COMMENTS
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PROJECT:

West Wyalong Solar Farm

DRAWING:

Planting Detail / Matrix / Plant Schedule

SITE:

West Wyalong, NSW

CLIENT:

Lightsource BP

WORK TO FIGURED DIMENSIONS IN PREFERENCE TO SCALE
CHECK DIMENSIONS, LEVELS ON SITE PRIOR TO ORDERING
MATERIALS OR COMPLETION OF WORKSHOP DRAWINGS

DRAWN: DS / PW DATE: 14/07/2020 SCALE: 1:20/100@A3

JOB NUMBER: 13141.5 PHASE: CC L02 DWG No: C REV: 0

GENERALLY

Lightsource bp was granted Development Consent on 28 November 2019 to construct and operate the West Wyalong Solar Farm. This plan is was prepared to address Conditions 8 and 9 in Schedule 3 of the Development Consent for West Wyalong Solar Farm. The conditions are as follows:

8. The Applicant must establish and maintain a mature vegetation buffer and infill planting (landscape screening) at the locations outlined in the figure in Appendix 1 to the satisfaction of the Secretary. This vegetation buffer must:

- (a) be planted prior to commencing operations;
- (b) be comprised of species that are endemic to the area;
- (c) be established within 3 years of commencing operations; and
- (d) be properly maintained with appropriate weed management, unless the Secretary agrees otherwise.

Condition Requirement 9	Location in this plan
Prior to commencing construction, the Applicant must prepare a detailed Landscaping Plan for the development to the satisfaction of the Secretary. This plan must include:	
(a) a description of measures that would be implemented to ensure that the vegetated buffers achieve the objectives of condition 8 (a) - (d) above;	Pages: L05
(b) a program to monitor and report on the effectiveness of these measures; and	Pages: L05
(c) details of who would be responsible for monitoring, reviewing and implementing the plan, and timeframes for the completion of actions.	Pages: L03
Following the Secretary's approval, the Applicant must implement the Landscaping Plan.	

STANDARDS

REFERENCED DOCUMENTS:

AS 2303 Tree Stock for Landscape Use 2018

AS 4454 Composts, Soil Conditioners and Mulches 2003

AS 4373 Pruning of Amenity Trees - 2007

AS 4970 Protection of Trees on Development Sites - 2009

Soils for Landscape Development, Selection, Specification & Validation (Leake & Haege) - 2014

OTHER REFERENCED PROJECT DOCUMENTS

DEVELOPMENT CONSENT - APPLICATION NUMBER SSD 9504 - 28.11.2019

LANDSCAPE AND VISUAL IMPACT ASSESSMENT 228-230 BLANDS LANE, WEST WYALONG 21.01.2019 (URBIS)

WORK NEAR TREES

PROTECTION: Protect trees to be retained from damage. Take necessary precautions. 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 damage to tree bark. Do not attach stays, guys and the like to trees. Avoid compaction of the ground under trees.

WORK UNDER TREES: Do not add or remove topsoil within the Tree Protection Zone (TPZ) or drip line (whichever is the greater). 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. Ensure all cuts are clean using sharp and uncontaminated tools.

ROOTS: Where it is necessary to cut tree roots, use means such that the cutting does not unduly disturb the remaining root system.

DAMAGES: Any damage to trees to be retained will be attended to by a qualified arborist who will prepare a report covering rectification works. Submit report to supervisor for approval. Conduct remedial works as required including removal and replacement if so recommended. All costs to be borne by the contractor.

WEEDS

Eradicate weeds prior to start of construction works with follow-up treatments as required - inspect every two weeks. Use environmentally acceptable methods using manual methods and a non-residual Glyphosate herbicide at the manufacturer's recommended rates. Regularly remove, by hand, rubbish and weed growth that may occur or recur throughout grassed, planted and mulched areas. Continue eradication throughout the course of the works and during the Planting Establishment Period so that a weed free area is established at completion of the establishment period.

SETOUT AND DIMENSIONS

Critical design dimensions shall be obtained by the landscape contractor by survey before commencing work. Check engineers drawings to determine extent of earthworks, structures.

IRRIGATION

Landscape will primarily be passively irrigated, and plant species selected will have low water requirements. During install and establishment period, landscape will be irrigated via water truck.

MULCH

GENERALLY: Use mulch as scheduled which is free of deleterious and extraneous matter such as soil, weeds and sticks. Use organic mulches which are free of stones and comply with Australian Standards specifying less than 5% fines. Use first well rotted mulch chipped on site, chip to match ANL 'Forest Blend' 20-40mm mulch. Additional mulch to be made from 100% recycled Grade A green waste and waste wood equal to Australian Native Landscape's Forest Blend® (20-40mm).

APPLICATION: Place mulch to the required depth, clear of plant stems, and rake to an even surface flush with the surrounding finished levels.

SOILS

TESTING

Undertake soil tests on stockpiled soil designated for re-use, or imported organic soil, if requested and provide copies of test results to the Superintendent. Ameliorate as recommended in soil tests to bring soil up to the standards for horticultural grade organic soil to Australian Standards.

GENERAL: To Soils for Landscape Development, Selection, Specification and Validation, by Simone Leake and Elke Haege (2014).

SUBSOIL PREPARATION

CULTIVATION: Cultivate bases of planting holes and beds 150mm, do not use augers unless followed with cultivation of sides and base. Do not disturb services or tree roots; if necessary cultivate these areas by hand. Cultivate manually within 300 mm of paths or structures. Remove stones exceeding 25 mm, clods of earth exceeding 50 mm, and any weeds, rubbish or other deleterious material brought to the surface during cultivation. Trim the surface to the required design levels after cultivation.

SUBSOIL ADDITIVES

ADDITIVES: Apply required additives to stockpiled site topsoil as required by soil tests if scheduled in this specification.

GYPSUM: Provide 150g/m.sq gypsum to base of all tree planting locations unless otherwise approved.

SOIL TYPE

NOTE: Refer Soils for Landscape Development, Selection, Specification and Validation, by Simone Leake and Elke Haege (2014) for soil testing requirements and minimum criteria.

Soil Type	Depth	Location
D1	Top 400mm	Mass Planting Soil: Low nutrient requirements

TECHNICAL PARAMETERS

Generally the soil must be free of "unwanted material" and must meet the requirements of the following tables.

All soil used in the project shall be in accordance with Soils for Landscape Development, Selection, Specification & Validation (Leake & Haege). Soil type shall be: D1

D	24/8/20	text added
C	27/7/20	rev to client
B	04/7/20	rev to client
A	06/7/20	draft issue
REV	DATE	COMMENTS

PROJECT:

West Wyalong Solar Farm

DRAWING:

Specifications 1/2

SITE:

West Wyalong, NSW

CLIENT:

Lightsource BP

WORK TO FIGURED DIMENSIONS IN PREFERENCE TO SCALE.
CHECK DIMENSIONS, LEVELS ON SITE PRIOR TO ORDERING MATERIALS OR COMPLETION OF WORKSHOP DRAWINGS

DRAWN: DS / PW DATE: 14/07/2020 SCALE: -

JOB NUMBER: 13141.5 PHASE: CCL03 DWG No: D REV: D

TASK ALLOCATION SCHEDULE				
ROLE	RESPONSIBILITY	PRE-CONSTRUCTION	CONSTRUCTION	POST-CONSTRUCTION
Lightsource bp Project team	<ul style="list-style-type: none">Overall responsibility for the implementation of the planRevise this plan as required	✓	✓	✓
Engineering, Procurement and Construction (EPC) Project Manager	<ul style="list-style-type: none">Engage qualified personnel to undertake landscaping works (members of the LNA Master Landscapers Association of NSW & ACT or who are eligible to successfully obtain membership)Ensure that all operations on site are undertaken in compliance with this management planIdentify and organize review of this plan if necessary	✓		
EPC Site Manager	<ul style="list-style-type: none">Ensure that all operations on site are undertaken in compliance with this management planEnsure all site personal have received the appropriate training for their responsibilities		✓	
All EPC contractors and Sub-Contractors	<ul style="list-style-type: none">Undertake work in accordance with this planEnsure any potential or actual issues, including environmental incidents, are reported to the immediate supervisor		✓	
Operations and Maintenance (O&M) site manager	<ul style="list-style-type: none">Ensure that all operations on site are undertaken in compliance with this management planEnsure maintenance of landscaping works is undertaken buy suitably qualified personsIdentify and organize review of this plan if necessary			✓
O&M contractors	<ul style="list-style-type: none">Undertake work in accordance with this planEnsure any potential or actual issues, including environmental incidents, are reported to the immediate supervisor			✓

SOFT LANDSCAPE MAINTENANCE

1.1 MAINTENANCE REQUIREMENTS

1.1.1 SERVICE OBJECTIVES

The objective is to meet the requirements of Condition 8 in Schedule 3 of the Development Consent: The Applicant must establish and maintain a mature vegetation buffer and infill planting (landscape screening) at the locations outlined in the figure in Appendix 1 to the satisfaction of the Secretary. This vegetation buffer must:

- (a) be planted prior to commencing operations;
- (b) be comprised of species that are endemic to the area;
- (c) be established within 3 years of commencing operations; and
- (d) be properly maintained with appropriate weed management, unless the Secretary agrees otherwise.

1.1.2 DEFINITIONS:

- Contractor - The person, partnerships. corporation, or agency that will perform the landscape maintenacne work.
- Debris - Remains of twigs, leaves and grass clippings following completion of mowing.
- Disease - Plant ailment caused by environmental conditions such as excessive humidity or prolonged rainfall.
- Excluded Damage - damage caused by vandalism, pedestrians, vehicles, animals (except insects and rodents), or other unusual factors. It does not include damage caused by the contractor's actions, lack of reasonable care, pest damage (such as insects), diseases, or plant loss due to lack of water caused by a sprinkler system breakage. Exceptions may be made if the Principal's authorised representative determines that unusual circumstances contributed to a loss.
- Garden Bed - Specific area planted out with trees, shrubs ground covers or perennial plant species.
- Herbicide - Chemical formulated to destroy or inhibit plant growth. May be selective or non-selective.
- Organic Fertiliser - Plant nutrient derived from plant residues and animal wastes.
- Inorganic Fertiliser - Synthetically developed plant nutrients.
- Litter - waste material including paper, plastic and glass deposited throughout contract area.
- Mulch - protective organic/inorganic ground covering material placed on garden beds to restrict weed infestation and maintain moisture and provide soil nutrients.
- Pavement - Constructed ground surface used for pedestrian or vehicular traffic.
- Pest - Undesirable insect species causing stress or decline in plant health.
- Pruning - Removal of dead, diseased insect infested or damaged tree or shrub limb using correct horticultural practices.
- Repair - Restoring asset within contract to its original condition in response to vandalism, breakage, etc.
- Staking - Providing artificial support to young trees or shrubs using correct horticultural techniques until they are able to be self-supporting.
- Weed - Undesirable plant species within garden beds or turf areas.

1.1.3 SCOPE OF WORK

- The Contractor shall provide regular maintenance services as outlined in these Landscape Maintenance Specifications and the monthly checklists for this project site.
- The Contractor shall examine the landscape on a regular basis, as required dependant on current site conditions.
- The Contractor shall provide regular maintenance services looking for problems or potential problems with the landscape.
- The Contractor shall provide at his/her own risk all labour, materials, tools, equipment, insurance, transportation, hauling, dumping, and all other items needed to provide the services outlined in this Specification.
- The Contractor shall be responsiblefor making minor repairs to landscape facilites as needed and agreed with Operations and Maintenance (O&M) site manager
- The Contractor shall take all reasonable precautions required to protect plants from abnormal temperatures. Provide regular maintenance services as outlined in these Landscape Maintenance Specifications and the monthly checklists for this project site.
- The Contractor shall 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. Observe trends and develop a maintenance regime around seasonal and observed event occurrences.

1.1.4 Roles and Responsibilities

See page L06 for Task Allocation Schedule

1.2 CARE OF PLANTED AREAS

PRUNING

1.2.1 TREES

- Removal of dead or diseased wood should be undertaken as it is noticed to avoid entry for pests and diseases. Works must be undertaken using appropriate equipment/tools for the task by qualified staff using correct horticultural techniques. Where pruning for rejuvenation and improvement of plant shape is undertaken, light, regular pruning is preferable to sporadic heavy cutting.
- Prune trees only in appropriate months as determined by an arborist, undertaken in the correct season to co-ordinate with new growth and avoid loss of flowers. Those plants which bear flowers on the wood from preceding years growth are to be pruned soon after flowering. Those that bear flowers on wood made in the current season should be pruned in winter or early spring.
- Trees shall be maintained in a healthy, vigorous growing condition, free from disease and large concentrations of pests.
- Prune trees branches to allow a minimum 300mm clearance above ground and progressively to provide a 2m clear trunk as growth will allow
- Prune also to remove dead, diseased, broken, dangerous, or crossing branches, and as required below.
- Discard all tree trimmings off-site using a legal method on day of works being undertaken, causing no damage to site.
- Any tree found to be dead or missing shall require a notification to the Principal advising that the tree be replaced with plant material of identical species Replacement trees shall be planted only following instruction from the principal and shall be equal in size to the originally installed tree at the time it was planted at the site. Evidence of previous tree replacement purchases shall be evidenced by delivery dockets and purchase receipts.
- The Principal's authorised representative shall approve replacement trees for size and appearance prior to planting. Correct planting technique must be used and replacement trees shall be double staked with 50 mm diameter stakes unless otherwise approved by the principal's authorised representative. Ensure no damage occurs to root ball upon installation of stakes.
- Removal and replacement must be undertaken causing minimal disturbance to existing plants.
- Mulch must be replaced to finished levels upon completion of works.
- Inspect tree stakes upon each maintenance visit and make necessary adjustments as required ensuring no damage to immature trunk or stem of plants. Remove tree stakes from trees when the trunks are larger than 50 mm caliper and the trees are able to support themselves. Remove stakes from site and dispose of by a legal method. Recycle used stakes if possible.
- Trees planted for screening purposes shall not be pruned except as needed to remove dead, diseased, broken, dangerous, or crossing branches. Check with local authorities prior to pruning. The contractor is responsible for determining if permits are needed and shall obtain and pay for any required permits as part of the basic landscape maintenance fee.
- The cutting blades on pruning shears, clippers, blades, saws, etc. shall be sterilized after pruning each tree to minimise the possibility of spreading disease.

1.2.2 SHRUBS

- Removal of dead or diseased wood should be undertaken as it is noticed to avoid entry for pests and diseases.
- Works must be undertaken using appropriate equipment/tools for the task by qualified staff using correct horticultural techniques.
- Shrubs shall be kept in a healthy, vigorous condition, free from disease and large concentrations of pests and diseases.
- Shrubs shall be pruned only as required for safety, visibility, and plant health, and allowed to develop into the natural shapes expected of the plant variety. Do not shear shrubs into topiary (shapes).
- Any shrub found to be dead or missing shall require notification to the Principal.
- Removal and replacement must be undertaken causing minimal disturbance to existing plants.
- Mulch must be replaced to finished levels upon completion of works.

1.2.3 FERTILISER:

Granular fertiliser to mass planted areas shall be slow release applied at maximum label rate for plant types at intervals indicated in Annual Maintenance Schedule to ensure optimum plant nutrient requirements are maintained. Water immediately after applying to move the fertiliser into the soil and wash the fertiliser off of plant surfaces.

1.2.4 FERTILISER SCHEDULE

Undertake a long term fertiliser regime, as per soil test results. Initial fertiliser/additive application at time of planting, as per soil test results

FERTILISER Plant growth formula equal to Neutrogena Bush Tucker slow release granules.
LOCATION All native species
NPK RATIO 10 : 1 : 8
RATE As per manufacturer's recommended rate

1.2.8 WEED CONTROL:

Eradicate weeds by environmentally acceptable methods using a non-residual glyphosate herbicide suitable for environmentally sensitive areas (such as Bi-active Roundup or similar), at the maximum recommended rate. Regularly remove, by hand, rubbish and weed growth that may occur or recur throughout planted areas. There shall be no greater than 2% weed coverage within planting areas and shall not exceed 50mm tall. Hand removal of weeds must not damage screening plants to be retained. Maintenance herbicide application must be kept to a minimum. Use surfactants to increase herbicide effectiveness by breaking down the leaf surface tension. Regular maintenance of the mulch layer will help minimise weeds in shrub and groundcover areas.

1.2.9 MULCH LAYER:

Mulch shall applied to all tree / shrub planted areas to maintain a depth of 75mm, to limit weed infestation and maintain moisture and nutrient content of garden. Place mulch to the required depth, clear of plant stems, and rake to an even surface flush with the surrounding finished levels. Spread mulch so that after settling it is smooth and evenly graded between design surface levels sloped towards the base of plant stems in mass planted beds. Replacement of large amounts of mulch (over 0.75 cubic metre), which has been stolen, vandalized, or washed away by a single storm shall be replaced in agreement with project manager. Mulch shall be uniform and free of sticks, or trash. When replacing existing mulch, use a mulch product that is similar in appearance to that already at the site.

1.2.10 WATERING

Hand water, water truck or other irrigation as needed to supplement natural rainfall and maintain plantings in a healthy, stress-free condition. It is the contractor's responsibility to make sure that plants receive adequate water regardless of weather conditions. Watering should be undertaken during periods of minimum evaporation (ie: during the coolest times of the day or when the garden bed is in the shade). Shrubs and trees in full sun must not be watered on the foliage to avoid leaf scorching. It is the responsibility of the contractor to conserve water and assure that all watering rules and regulations are followed. Any penalties, fines, or citations for watering ordinance violations shall be paid by the contractor.

1.2.11 CHEMICALS, HERBICIDES, PESTICIDES

All chemicals shall be used in accordance with label directions and the manufacturers recommended handling methods. All chemicals shall be handled in accordance with all applicable regulations. Registered chemicals shall be used only on the advice of a qualified, licensed if required, pest control advisor. Nothing in thisspecification shall be construed to be the advice of, or to substitute for the advice of, a pest control adviser.

REFER TO L05 FOR MAINTENANCE SCHEDULE

REFER TO L03 FOR TASK ALLOCATION SCHEDULE

E	21/8/20	page refs amended
D	28/7/20	rev to client
C	27/7/20	rev to client
B	04/7/20	rev to client
A	07/7/20	draft issue
REV	DATE	COMMENTS

PROJECT:

West Wyalong Solar Farm

DRAWING:

Specifications 2/2

SITE:

West Wyalong, NSW

CLIENT:

Lightsource BP

WORK TO FIGURED DIMENSIONS IN PREFERENCE TO SCALE.
CHECK DIMENSIONS, LEVELS ON SITE PRIOR TO ORDERING
MATERIALS OR COMPLETION OF WORKSHOP DRAWINGS

DRAWN: DS / PW DATE: 14/07/2020 SCALE: -

JOB NUMBER: 13141.5 PHASE: CCL04 DWG No: E REV: E

Vegetation Management Program

The following table is a summary of ongoing maintenance activities that will be required to be undertaken for three years following commencement of operation, to meet the requirements of condition 8.

APZ = ASSET PROTECTION ZONE
FCZ = FLIGHT CLEARANCE ZONE

MAINTENANCE PROGRAM FOR INITIAL 12 MONTH PERIOD

ACTIVITY	AREA	DESCRIPTION	SEASONAL DETERMINATION OF TASK													
			J	F	M	A	M	J	J	A	S	O	N	D	Other	
MULCHING	VEGETATIVE SCREEN PLANTING	INSPECT AND MAINTAIN ORGANIC MULCH COVER	✓				✓				✓					
WATERING	VEGETATIVE SCREEN PLANTING	AS REQUIRED FOR ESTABLISHMENT. DEEP WATER ALL AREAS IN TIMES OF PROLONGED DRY													AS REQUIRED AT SIGNS OF STRESS FOR MINIMUM 52 WEEKS.	
WEEDING	VEGETATIVE SCREEN PLANTING	INSPECT AND UNDERTAKE WEED REMOVAL	✓								✓		✓			
FERTILISING	VEGETATIVE SCREEN PLANTING	APPLY FERTILISER										✓			APPLY SLOW RELEASE FERTILISER TO THE BASE OF EACH TREE / SHRUB	
PESTS & DISEASES	VEGETATIVE SCREEN PLANTING	INSPECT FOR PRESENCE OF PEST & DISEASE AND SEEK ASSISTANCE IF FOUND	✓		✓		✓				✓		✓			
STORM EVENTS	VEGETATIVE SCREEN PLANTING	INSPECT AFTER MAJOR RAIN EVENTS. REPAIR WASHOUT/SCOURING													AFTER STORM EVENT	
SITE CLEARING	APZ & FCZ	INSPECT AND REMOVE UNWANTED PLANT MATERIAL IN ACCORDANCE WITH BUSH FIRE AND AVIATION REQUIREMENTS						✓	✓	✓					UNDERTAKE SOMETIME DURING WINTER MONTHS DURING SLOWDOWN	
PRUNING	VEGETATIVE SCREEN PLANTING	PRUNE LOWER BRANCHES TO ENSURE A 300MM CLEARANCE FROM THE GROUND		✓						✓					UNDERTAKE ONLY WHEN THE LONG TERM VIABILITY OF THE PLANT IS NOT COMPROMISED.	
RESEED	PASTURE	INSPECT EXTENTS OF PASTURE AND RESEED AS NECESSARY			✓						✓					
VEGETATION MANAGEMENT PROGRAM REVIEW	VEGETATIVE SCREEN PLANTING	UNDERTAKE A FULL REVIEW OF SUBJECT SITE, CHECKING PLANT ESTABLISHMENT / GROWTH. UPDATE VEGETATION DATA AND REVIEW MANAGMENT PRACTICES.								✓						
MONITORING (Consent Condition 9 - b & c)	ALL LANDSCAPE WORKS	ALL SOFT LANDSCAPING TO BE ROUTINELY INSPECTED BY QUALIFIED HORTICULTURIST OR SIMILAR TO ENSURE PLANTS ARE KEPT DISEASE & INSECT FREE. INSPECTIONS ARE ALSO REQUIRED TO ASSESS HEALTH AND VIGOUR OF PLANTS & RECOMMEND REMEDIAL ACTION IF REQUIRED. THIS MAY ALSO INCLUDE FURTHER SOIL TESTS AND APPLICATIONS OF FERTILISER AND / OR TRACE ELEMENTS. ANY FAILING OR DEAD PLANTS ARE TO BE PROGRESSIVELY REPLACED.		✓*			✓*			✓*			✓*		*NOMINAL (ADJUST AS REQUIRED TO SUIT COMPLETION OF THE LANDSCAPE WORKS) PROGRESSIVELY REPLACE ALL FAILING OR LOST PLANTS WITH SAME SPECIES UNLESS ADVISED OTHERWISE. PROMPTLY CARRY OUT ALL RECOMMENDATIONS OF INSPECTING HORTICULTURIST. MONITORING WILL BE REQUIRED EVERY THREE MONTHS	
REPORTING (Consent Condition 9 - b & c)	ALL LANDSCAPE WORKS	FOLLOWING EACH MONITORING EVENT PREPARE A REPORT COMMENTING ON THE CONDITION OF THE LANDSCAPE WORKS. REPORTING TO INCLUDE PHOTOS OF PLANTINGS, A BRIEF REPORT OF EFFECTIVENESS OF PLANTING AND RECOMMENDATIONS FOR REMEDIAL WORKS TO BE SUBMITTED TO LIGHTSOURCE BP		✓			✓			✓			✓			

ONGOING MAINTENANCE PROGRAM TO SUBSEQUENT 12 MONTHS CYCLES

			J	F	M	A	M	J	J	A	S	O	N	D		
MULCHING	VEGETATIVE SCREEN PLANTING	INSPECT AND MAINTAIN ORGANIC MULCH COVER										✓			APPLY ADDITIONAL MULCH TO ANY BARE AREAS	
WATERING	VEGETATIVE SCREEN PLANTING	INSPECT MONTHLY FOR WATER STRESS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	AS REQUIRED AT SIGNS OF STRESS	
WEEDING	VEGETATIVE SCREEN PLANTING	INSPECT AND UNDERTAKE WEED REMOVAL		✓				✓				✓				
FERTILISING	VEGETATIVE SCREEN PLANTING	APPLY FERTILISER		✓								✓				
PESTS & DISEASES	VEGETATIVE SCREEN PLANTING	INSPECT FOR PRESENCE OF PEST & DISEASE AND SEEK ASSISTANCE IF FOUND		✓								✓				
STORM EVENTS	VEGETATIVE SCREEN PLANTING	INSPECT AFTER MAJOR STORM EVENTS. REPAIR SCREEN AS REQUIRED													FOLLOWING STORM EVENTS	
SITE CLEARING	APZ & FCZ	INSPECT AND REMOVE UNWANTED PLANT MATERIAL IN ACCORDANCE WITH BUSH FIRE AND AVIATION REQUIREMENTS						✓	✓	✓					UNDERTAKE SOMETIME DURING WINTER MONTHS DURING PLANT GROWTH SLOWDOWN	
PRUNING	VEGETATIVE SCREEN PLANTING	ENSURE ALL TREES HAVE A CLEAR TRUNK HEIGHT OF 2M AND TALL-MEDIUM SHRUBS ARE MAINTAINED TO BE CLEAR OF TREE CANOPIES									✓				UNDERTAKE ONLY WHEN THE LONG TERM VIABILITY OF THE PLANT IS NOT COMPROMISED.	
VEGETATION MANAGEMENT PROGRAM REVIEW	ALL LANDSCAPE WORKS	UNDERTAKE A FULL REVIEW OF SUBJECT SITE, CHECKING PLANT ESTABLISHMENT / GROWTH. UPDATE VEGETATION DATA AND REVIEW MANAGMENT PRACTICES.								✓						
MONITORING (Consent Condition 9 - b & c)	ALL LANDSCAPE WORKS	ALL SOFT LANDSCAPING TO BE ROUTINELY INSPECTED BY QUALIFIED HORTICULTURIST OR SIMILAR TO ENSURE PLANTS ARE KEPT DISEASE & INSECT FREE. INSPECTIONS ARE ALSO REQUIRED TO ASSESS HELATH AND VIGOUR OF PLANTS & RECOMMEND REMEDIAL ACTION IF REQUIRED. THIS MAY ALSO INCLUDE FURTHER SOIL TESTS AND APPLICATIONS OF FERTILISER AND / OR TRACE ELEMENTS. ANY FAILING OR DEAD PLANTS ARE TO BE DOCUMENTED FOR REPLACEMENT.		✓						✓					PROGRESSIVELY REPLACE ALL FAILING OR LOST PLANTS WITH SAME SPECIES UNLESS ADVISED OTHERWISE. PROMPTLY CARRY OUT ALL RECOMMENDATIONS OF INSPECTING HORTICULTURIST.	
REPORTING (Consent Condition 9 - b & c)	ALL LANDSCAPE WORKS	REPORTING IS TO BE COMPLETED YEARLY STARTING AT THE COMPLETION OF THE INITIAL 12 MONTH MAINTENANCE PROGRAM. REPORTING TO INCLUDE PHOTOS OF PLANTINGS, A BRIEF REPORT OF EFFECTIVENESS OF PLANTING AND RECOMMENDATIONS FOR REMEDIAL WORKS, SHOULD IT BE REQUIRED. REPORT IS TO BE TO BE SUBMITTED TO LIGHTSOURCE BP.		✓											THE FIRST REPORT WILL BE UNDERTAKEN AND SUBMITTED BY THE END OF FEBRUARY AND THEN EVERY 12 MONTHS THERAFTER.	

F 24/8/20 text added
E 21/8/20 rows added
D 28/7/20 rev to client
C 27/7/20 rev to client
B 14/7/20 rev to client
A 07/7/20 draft issue
REV DATE COMMENTS

PROJECT:
West Wyalong Solar Farm

DRAWING:
Maintenance Schedule

SITE:
West Wyalong, NSW

CLIENT:
Lightsource BP

WORK TO FIGURED DIMENSIONS IN PREFERENCE TO SCALE.
CHECK DIMENSIONS, LEVELS ON SITE PRIOR TO ORDERING MATERIALS OR COMPLETION OF WORKSHOP DRAWINGS

DRAWN: DS / PW DATE: 14/07/2020 SCALE: -
JOB NUMBER: 13141.5 PHASE: CCL05 REV: E