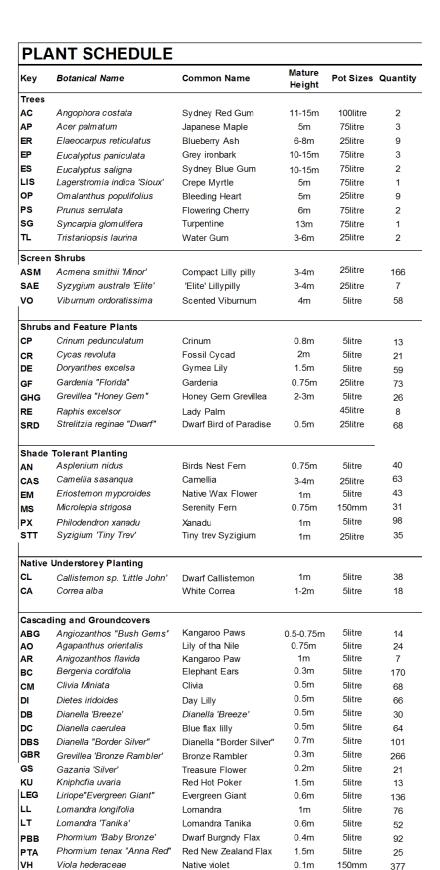
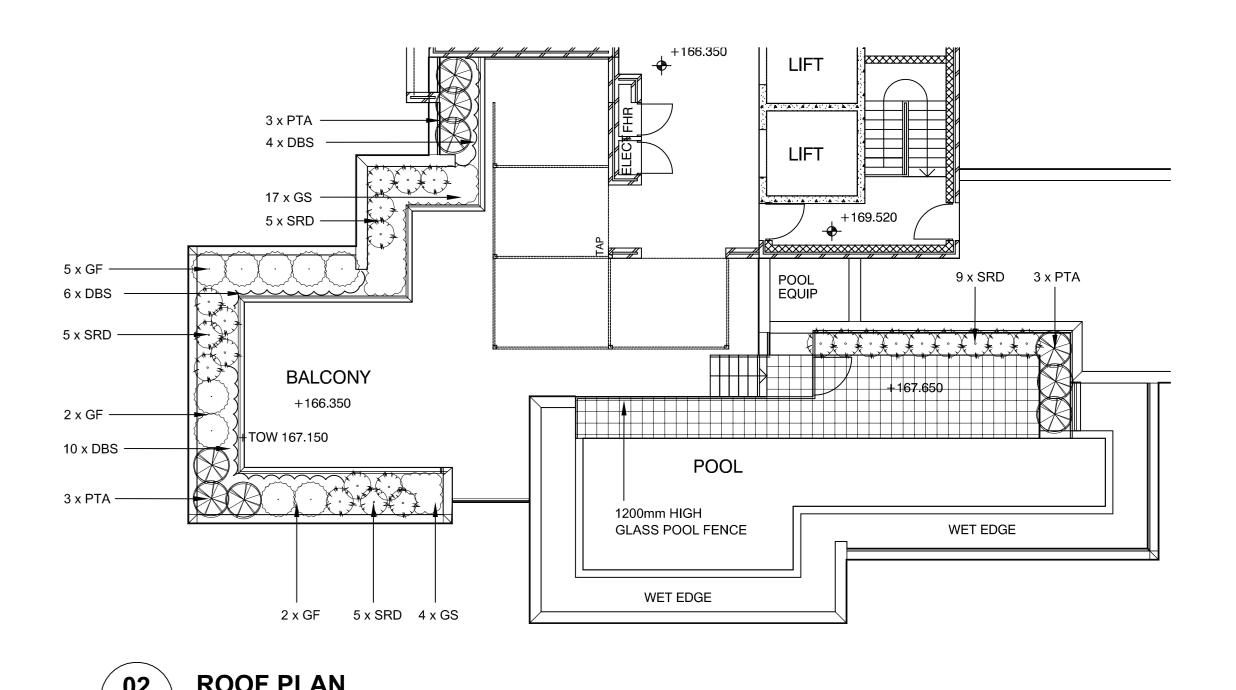




ree #	Plan #	Botanical Name	Common Name	Approx Height	Spread	Effect
1	325	Sapium sebiferum	Chinese Tallow	7	5	Retain
2	327	Fraxinus excelsior 'Aurea'	Golden Ash	8	10	Retain
3	329	Camellia japonica	Camellia	5	4	Retain
4	326	Nyssa sylvatica	Tupelo	10	8	Retain
5	324	Alnus acuminata ssp glabrata	Evergreen Alder	8	6	Remove
6	353	Quercus robur	English Oak	10	11	Retain
7	158	Ficus microcarpa 'Hillii'	Hill's Weeping Fig	8	6	Remove
8	157	Syagrus romanzoffianum	Cocos Palm	8		Remove
9	159	Schefflera actinophylla	Umbrella Tree	10	3	Remove
10	98	Corymbia citriodora	Lemon Scented Gum	18	16	Retain
11	99	Syncarpia glomulifera	Turpentine	12	10	Remove
12a	208	Syagrus romanzoffianum	Cocos Palm	3		Remove
12b	209	Syagrus romanzoffianum	Cocos Palm	3		Remove
12c	207	Syagrus romanzoffianum	Cocos Palm	8		Remove
13	160	Eucalyptus grandis	Flooded Gum	30	20	Retain
14	244	Liquidamb ar styraciflua	Liquidambar	10	8	Retain
15	300	Acer negundo	Box Elder	8	4	Retain
16	245	Eucalyptus grandis	Flooded Gum	15	8	Retain
17	292	Corymbia maculata	Spotted Gum	20	15	Retain
18	293	Eucalyptus grandis	Flooded Gum	15	10	Retain
19	294	Eucalyptus grandis	Flooded Gum	18	8	Retain
20	295	Melaleuca bracteata	Black Tea Tree	10	5	Retain
21	474	Cedrus deodara	Himalayan Cedar	15	12	Retain
22	472	Eucalyptus grandis	Flooded Gum	25	12	Retain
23	473	Cedrus atlantica 'Glauca'	Blue Atlas Cedar	12	8	Retain
24	53	Ligustrum lucidum	Large Leaf Privet	6	5	Retain
25	55	Ligustrum lucidum	Large Leaf Privet	6	5	Retain
26	54	Acer negundo	Box Elder	5	4	Retain
27	439	Fraxinus griffithii	Evergreen Ash	6	4	Remove
28	438	Fraxinus griffithii	Evergreen Ash	6	4	Remove
29	437	Fraxinus griffithii	Evergreen Ash	6	4	Remove
30	379	Cypressus macrocarpa	Monterey Cypress	15	10	Retain
31	380	Cypressus macrocarpa	Golden Weeping Cypress	15	10	Retain
32	381	Cupressus sempervirens var. stricta	Italian Cypress	15	4	Retain





SPECIFICATION NOTES

PREPARATION & CULTIVATION:

Tree Protection fencing

Above Ground Root Protection

All builders rubble, spoil and excess materials are to be removed from all areas prior to planting. In natural ground garden beds the original site topsoil is to be visible prior to the commencement of all

All noxious plants, weeds and grasses on the site and within planting areas shall be eradicated before the commencement of landscape works. Cultivation of natural ground planting beds under the canopy of existing trees

Hand cultivate to 200mm in proposed garden beds beneath the canopy spread of existing trees to be retained under the supervision and to the satisfaction of a qualified Arborist. Incorporate 100mm of organic matter to AS.4419 into cultivated soil and feather out at edges. Ensure soil for 2m radius around trunk remains at original level. Cultivation of natural ground planting outside canopy of existing trees

All natural ground garden areas are to be excavated to a depth of 150mm. Existing topsoil is to be

stockpiled on site for reuse. Stockpiled topsoil is to be free from any foreign or deleterious material. The resultant subgrade is to be hand cultivated to a depth of 300mm. Where cultivation intrudes into podzol soils gypsum is to be added at the rate of 0.25 kg / square metre. A 150mm depth of first quality imported topsoil to AS.4419, or site topsoil, shall be added to garden beds and thoroughly turned in and incorporated into the cultivated subgrade prior to planting. Imported topsoil is to be free from any material toxic to plant growth, stumps, roots, stones, clay lumps or other extraneous material and free from noxious or troublesome weeds such as nut grass,

water couch, mullumbimby couch, onion weed or oxalis. Top Soil: To AS. 4419 TREE PROTECTION MEASURES FOR EXISTING TREES TO BE RETAINED:

Trees to be retained are to be physically protected by the installation of 1.8m high steel mesh/chainwire fencing, which is to be located a minimum of 2m away from the trunk (ideally to enclose the whole extent of the dripline) and fully enclose the tree. This fencing shall be installed prior to the commencement of demolition and construction works and shall remain in place until all works are completed. Indicate tree protection zone with signage on tree protection fencing. Sign to clearly display words "TREE PROTECTION ZONE", "DO NOT ENTER".

No storage of materials or machinery or site office/sheds is to occur within the dripline of existing trees to be retained. Do not mix or dispose of cement or chemicals, or stockpile any soil or rubble Any works required under the dripline of existing trees to be retained (only as approved on the construction certificate) shall be under the direction of and to the satisfaction of a qualified Arborist.

Any excavations required for footings, structures, retaining walls, paving, etc within 3.5 metres of the trunk shall be undertaken by hand and under the direction of and to the satisfaction of a qualified Arborist. Ensure any roots which require cutting are cut cleanly. SUBSOIL DRAINAGE: Natural Grade Areas

In general a flexible 90mm sub soil drainage coil with scck is to be installed to all planting areas defined by retaining walls and along the interfaces between planting / lawn areas and adjacent paved areas, kerb lines, footpath edges etc on natural ground. The sub soil drainage lines will be installed and covered with free draining gravel at the base of retaining walls and in garden and lawn areas are to be sufficiently buried to ensure that they are covered with a 100mm of free draining

gravel and 150mm of topsoil. The free draining gravel bed is to be covered with a 3-4 oz non- Turf Species: Sir Walter Buffalo ST96.

All planter boxes are to have sheet drainage equivalent to 50mm Atlantis Drainage Cell installed to MULCH: their entire base and sides finishing 200mm below the top of the finished planter walls. A 3-4 oz

All garden beds are to be mulched. Mulch is to be composted bark fines mulch (diameter less than non-woven filter fabric is to cover the sheet drainage prior to the addition of planter soil. Drainage

10 mm), spread evenly to a depth of 75mm to planting beds and watered in thoroughly. Finished cell is only to be installed after the planter boxes have been waterproofed and tested for water level of mulch is to 25mm below top of adjacent surface. tightness (by others) and there is a drainage point (by others) within each planter, which in turn

Mulch is to be free of weeds, soil, sticks and rocks, have binding qualities to minimise dispersion by drains to the site stormwater system. The Landscape Contractor is to confirm to their satisfaction the elements or slope, be durable- with minimum 12 months effective longevity and remain pervious that the planter boxes are waterproofed and well drained prior to the installation of any sheet during that time.

AREAS ON SLAB: Ensure minimum 600mm soil cover over all underground structures such as detention tanks and the top of basement slabs protruding into landscaped areas. Soil is to finish flush with adjacent terraces, paths and garden areas. MASONRY RETAINING WALLS:

gaged, level, plumb and aligned. Ensure 10mm bed joints and 10mm perp joints between units. Seek structural engineer advice on foundation and footing details and ensure retaining walls and footings are built to engineers specifications. Retaining Walls: Rendered masonry unless otherwise specified by Architect Equivalent to Boral "Pyrmont retaining wall system" (for expanding Clay Soils) or Litewall (for walls

under 0.5m high) or "Heathstone" (to 1.0m for non expanding soils) An irrigation system is to access all garden areas. It is to be designed and installed by/ or under the stones are to be set on a mortar bed with a 100mm gap between to allow for gravel or lawn (see supervision of a Landscape Contractor licensed for irrigation installation and is to include an plan for areas) to be installed between. automatic timing device, installed in lockable, dustproof, rustproof metal cabinet and backflow prevention device, installed to AS 3500-part1-section 4. Ensure drip lines are spaced no further than 400mm apart for adequate irrigation coverage. The Landscape Contractor is to submit drawings and specifications for the system to the Project PEA GRAVEL AREA:

Manager for approval prior to commencing any installation work.

All plants used are to have been grown, selected and planted in accordance with the Natspec Pea Gravel: equivalent to Indo Cream pea gravel. specifications. Planting is to be overseen by, and plant selection to be carried out by, a qualified Horticulturalist (Minimum Australian Qualification Framework Level 4). Plant sizes are to be in accordance with the Plant Schedule. Plants will not be substituted with other Garden bench to be installed in location shown on plan as per manufacturers instructions. species, varieties or container sizes without consulting the Landscape Architect who will seek All tree planting is to be staked using $3 \times 50 \times 50 \times 1800$ mm timber stakes and hessian ties.

Three stakes are to be used per tree. Stakes are to form a triangular pattern surrounding the trunk with three Hessian ties of 30mm thickness, one at bottom of stakes, one midway and one at top. specimens.

Configure hessian ties in a triangle, encompassing wooden stakes. Twist Hessian tie once before

stapling to each stake. All supplied lawn / turf is to be free from weed species at the time of supply. The Contractor must

ensure turf rolls are laid in a stretcher bond pattern and tightly together.

The sub soil drainage line is to be connected to the site stormwater system or the nearest drainage

Fertiliser is to be slow release fertiliser equivalent to 'Osmocote' for ornamentals and 'Osmocote' low phosphorous for indigenous species and is to be applied to the bed at manufacturer's specified

he following mulch compositions or origins are not acceptable:

Noxious or undesirable weeds; Insufficiently composted or stored; or Excessively bound so unable to shed water.

Install retaining walls to the locations and R.L.'s indicated on plan. Ensure each course is correctly

TIMBER EDGE: Timber edges shall be 100 x 25mm treated pine, secured by nailing at 1000mm centres to 75mm x 25mm x 250mm long treated pine pegs driven into the ground. Edging shall finish flush with adjoining surfaces. Unless angles are shown on the plan, the edges shall be laid in a smoothly

In general timber edges are to be provided at all interfaces between garden & lawn areas.

The Landscape Contractor will be responsible for ensuring that the subgrade below all areas dentified for stepping stone installation is compacted. Following subgrade compaction stepping

Stepping Stones: Equivalent to C+M 'CityStone' in Mist colour, 500x500x40mm Shotblasted.

Compact area for pea gravel installation with vibrating plate compactor before installation of pea

Garden Bench: Equivalent to 'Street Furniture Australia' Galleria, Jarrah Seat, with arch legs,

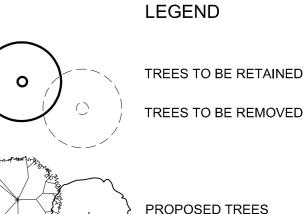
All landscape works are to be maintained for a period of 12 months after construction. Plants

Stake all trees in 75 litre pot sizes or larger. Stakes are to be driven into the ground for 1/3 of their which have failed to thrive, are to be replaced. Mulch is to be maintained at specified depths. All length. Stakes are to be straight, with no knots, and 50mm x 50mm x 1800mm treated pine, pointed planting is to be watered on a regular basis to maintain moisture levels required for optimum growth. All beds and areas around plants are to be maintained free from weeds. After proper establishment all plants are to be tip pruned to encourage dense growth and maintain shape to all of the tree, with each stake placed to avoid damage to the roots of the tree. Stakes are to be tied plants. Plants of the same species are to be maintained as one band of planting and not individual

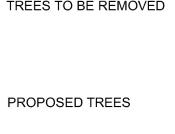
B Issue for Council

A Issue for Review

Nº Amendments:



TREES TO BE RETAINED



TITLE:

PROPOSED SHRUBS & GROUNDCOVERS PROPOSED LEVEL **EXISTING LEVEL**



ST IVES DATE: August 2010 SCALE: 1:100 @ A0 JOB Nº: 100722 DWG. Nº: LP.01/B SHEET 1 of 1

NARELLESONTER

LEVEL 2, 20 Young Street, Neutral Bay NSW 2089 Tel: (02) 9909 8177 Fax: (02) 9908 7796

LANDSCAPE PLAN

161-163 ROSEDALE RD

29.08.10

27.08.10