

# SPECIFICATION NOTES

**SITE PREPARATION / SOIL WORKS**  
ALL EXISTING TREES MARKED FOR RETENTION SHALL BE PROTECTED FOR THE DURATION OF THE BUILDING WORKS. REMOVE FROM SITE ALL PERENNIAL WEEDS SUCH AS OXALIS, ONION WEED AND THE LIKE.

NO REGRADING IS TO BE CARRIED OUT WITHIN THE DRIPLINE OF THE TREES TO BE RETAINED. WHERE EXCAVATION IS NECESSARY USE HAND METHODS TO AVOID DAMAGE TO THE ROOT SYSTEM. DO NOT CUT ROOTS GREATER THAN 50MM. CUT ROOTS CLEANLY WITH A SAW AND DO NOT SEAL THE WOUND.

**TREE PROTECTION**  
PROTECT ALL EXISTING TREES AS NOTED ON THE DRAWINGS FOR THE DURING OF THE BUILDING WORKS.

TAKE ALL NECESSARY PRECAUTIONS, INCLUDING THE FOLLOWING:

**Tree Protection fence:**  
INSTALL A TREE PROTECTION FENCES AT THE MAXIMUM RADIUS ALLOWABLE TO ACCOMMODATE THE PROPOSED DEVELOPMENT. MAINTAIN THE FENCE FOR THE DURATION OF THE BUILDING WORKS.

CONSTRUCT THE FENCE 1.8 M HIGH WITH CHAINWIRE MESH ON STEEL POSTS. ALL AREAS WITHIN THE PERIMETER OF THE FENCE ARE TO BE COVERED TO A DEPTH OF 100MM WITH WOODCHIP MULCH.

**Temporary Irrigation:**  
INSTALL A TEMPORARY IRRIGATION SYSTEM TO ALL TREES TO BE RETAINED. INSTALL DRIP EMITTERS ON POLY LATERALS. THE IRRIGATION SYSTEM IS TO BE CONTROLLED BY A GALCOON OR SIMILAR AUTOMATIC CONTROLLER.

**Harmful materials:**  
DO NOT STORE, STOCKPILE, DUMP OR OTHERWISE REPLACE UNDER OR NEAR TREES, BULK MATERIALS AND HARMFUL MATERIALS INCLUDING OIL, PAINT, WASTE CONCRETE, CLEARINGS, BOULDERS AND THE LIKE. DO NOT PLACE SPOIL FROM EXCAVATIONS AGAINST TREE TRUNKS, EVEN FOR SHORT PERIODS. PREVENT WIND-BLOWN MATERIALS SUCH AS CEMENT FROM HARMING TREES AND PLANTS.

**Damage:**  
PREVENT DAMAGE TO TREE BARK. DO NOT ATTACH STAYS, GUYS AND THE LIKE TO TREES.

**Work under trees:**  
DO NOT REMOVE TOPSOIL FROM WITHIN THE DRIP LINE OF TREES UNLESS OTHERWISE SPECIFIED. IF IT IS NECESSARY TO EXCAVATE WITHIN THE DRIP LINE, USE HAND METHODS SUCH THAT ROOT SYSTEMS ARE PRESERVED INTACT AND UNDAUNAGED.

**Roots:**  
DO NOT CUT TREE ROOTS EXCEEDING 50 MM DIAMETER UNLESS PERMITTED BY THE SUPERINTENDENT. WHERE IT IS NECESSARY TO CUT TREE ROOTS, USE A CHAIN SAW OR SIMILAR MEANS SUCH THAT THE CUTTING DOES NOT UNDULY DISTURB OR ROCK THE REMAINING ROOT SYSTEM. IMMEDIATELY AFTER CUTTING, APPLY AN APPROVED BITUMINOUS FUNGICIDAL SEALANT TO THE CUT SURFACE TO PREVENT THE INCURSION OF ROT OR DISEASE.

**Compacted Ground:**  
AVOID COMPACTION OF THE GROUND UNDER TREES. IF THE GROUND UNDER TREES HAS BEEN UNDULY COMPACTIONED DURING THE WORK UNDER THE CONTRACT, FOR EXAMPLE BY THE OPERATION OF HEAVY CONSTRUCTIONAL PLANT, LOOSEN THE SOIL BY CORING.

**SOIL WORKS**  
THOROUGHLY CULTIVATE THE SUBSOIL TO A DEPTH OF 150MM. SUPPLY AND INSTALL TO A DEPTH OF 300 MM THE FOLLOWING SOIL MIX:

<b>SOIL DEPTH</b>	
TURF PLANTING	100MM
	300MM

<b>SOIL MIX</b>	
BLACK LOAM	60%
COARSE WASHED RIVER SAND	40%

**ORGANIC LAYER 50 MM DEEP**  
CULTIVATE A 50MM LAYER OF ORGANIC ADMIX INTO THE TOP 100MM OF SOIL MIX

<b>Admix composition</b>	
TREATED HARDWOOD SAWDUST	30%
PINE PARK FINES	40%
COMPOSTED MANURE	30%

TREE PLANTING AREAS TO BE MOUNDED 300 MM ABOVE THE EXISTING GROUND LINE TO IMPROVE DRAINAGE FROM PLANTING HOLES. TREE HOLES TO BE EXCAVATED 2 TIMES LARGER THAN THE ROOTBALL AND BACKFILLED WITH SOIL MIX AS SPECIFIED ABOVE.

**MULCH**  
SUPPLY AND PLACE 75 MM LAYER OF HARDWOOD HORTICULTURAL GRADE MULCH, (GRADED IN SIZE 15 MM X 15MM X 15MM, FREE FROM WOOD SLIVERS), SET DOWN 25MM FROM ADJACENT PAVING.

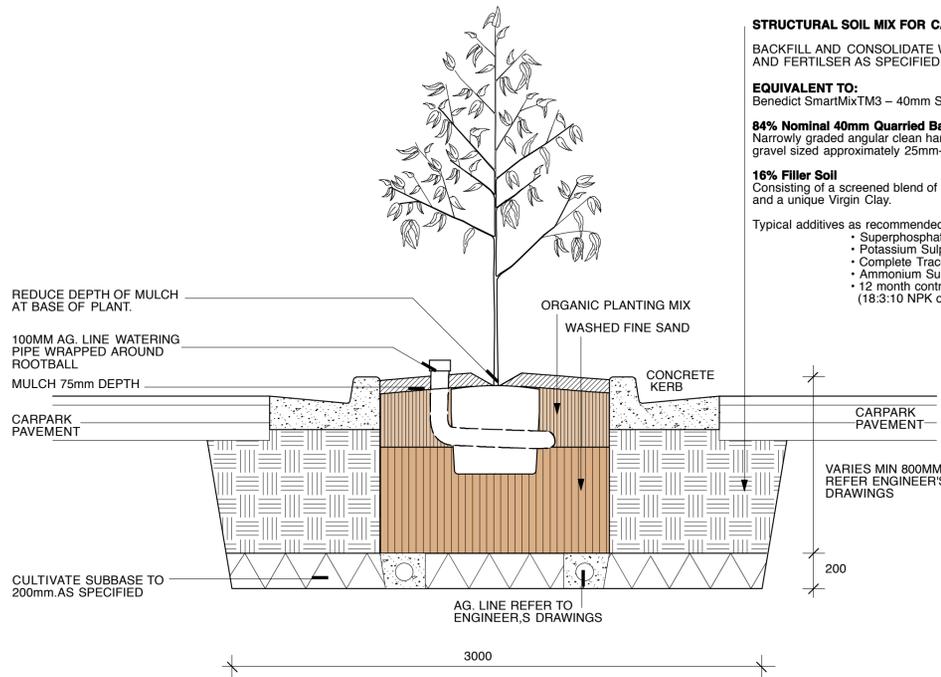
**PLANT MATERIALS**  
ALL PLANTS SHALL BE TRUE TO TYPE, OF HEALTHY GROWTH DISEASE FREE NURSERY STOCK AND NOT DISPLAYING RESTRICTED GROWTH PATTERNS. SHOULD THERE BE A REQUIREMENT FOR SUBSTITUTIONS THEY SHALL NOT CHANGED WITHOUT PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT. NO VARIEGATED STRAIN SHALL BE USED. ALLOW FOR SLOW RELEASE FERTILISER TO ALL PLANTS APPLIED AT THE MANUFACTURERS RECOMMENDED RATE TO BE SAME OR SIMILAR TO OSMOCOTE.

**FERTILIZER:**  
MASS PLANTED AREAS : ALLOW 2 SHIRLEYS SLOW RELEASE KOKEI PELLETS PER 5 - 35 LITRE PLANT AND ONE PER 150MM PLANT TURF AREAS : ALLOW SHELLEYS NO.17 LAWN FERTILISER OR EQUIVALENT, APPLIED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

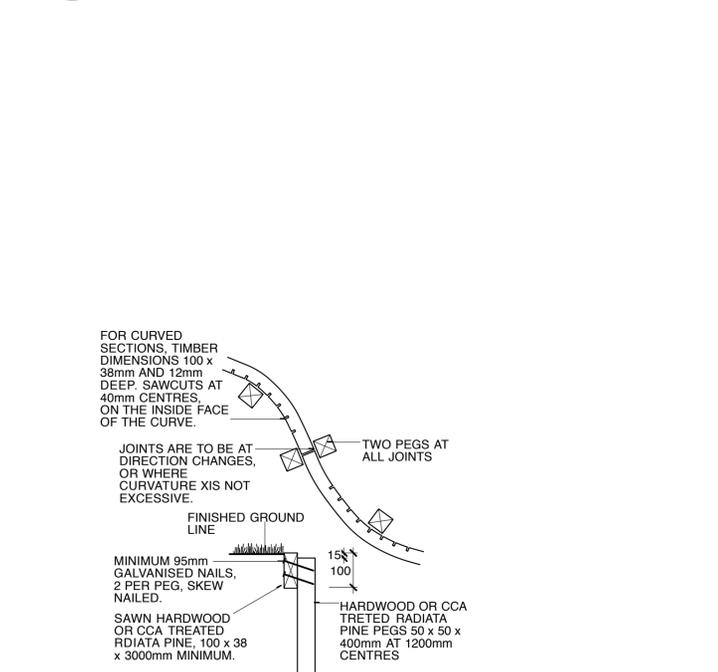
**STAKES AND TIES**  
DURABLE HARDWOOD, STRAIGHT, SIZE SHALL BE 50X50X1800 WITH TIES SPACED APPROXIMATELY 300MM APART. DRIVE STAKES 600MM INTO THE GROUND ON THE WINDWARD SIDE OF THE PLANT. TIES SHALL BE 50MM HESSIAN WEBBING FIXED IN A FIGURE OF EIGHT PATTERN.

**PLANT ESTABLISHMENT PERIOD**  
FROM THE DATE OF PRACTICAL COMPLETION, THERE SHALL BE A PERIOD OF 52 WEEKS FOR THE PLANTING ESTABLISHMENT PERIOD. ANY FAILED PLANTS SHALL BE REPLACED WITH THE SAME TYPE AND SPECIES. THE MULCHED SURFACES SHALL BE MAINTAINED IN A NEAT AND TIDY CONDITION. STAKES AND TIES SHALL BE ADJUSTED AS REQUIRED AND THE TURF SHALL BE REGULARLY MOWED TO MAINTAIN A HEALTHY GROUND COVER. A CONSTANT WATER REGIME SHALL BE MAINTAINED TO ENSURE HEALTHY GROWTH OF ALL PLANT MATERIAL.

**IRRIGATION**  
ALL PLANTING AREAS TO BE SUPPLIED WITH A FULLY AUTOMATIC DRIP IRRIGATION SYSTEM EQUIVALENT TO 'NETAFIM'. THE IRRIGATION SYSTEM SHALL MEET ALL THE REQUIREMENTS OF THE WATER AND ELECTRICITY SUPPLY AUTHORITY AND RELEVANT AUSTRALIAN STANDARDS. PROVIDE RICHDEL OR SIMILAR APPROVED CONTROLLER. CONNECTION TO SYDNEY WATER MAINS TO BE THROUGH AN APPROVED REDUCED PRESSURE ZONE DEVICE INSTALLED TO WATER REGULATIONS.



**A TYPICAL CARPARK TREE PIT & MEDIAN PLANTING**  
SCALE 1:20



**E TIMBER EDGE DETAIL**  
SCALE 1:10

**STRUCTURAL SOIL MIX FOR CARPARK TREE PITS**  
BACKFILL AND CONSOLIDATE WITH STRUCTURAL SOIL AND FERTILISER AS SPECIFIED.

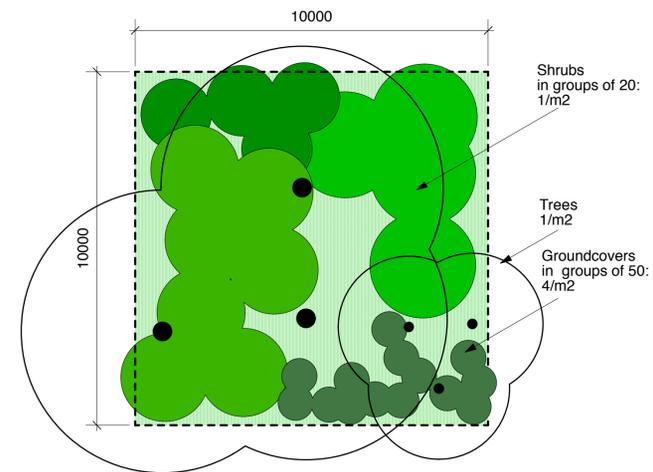
**EQUIVALENT TO:**  
Benedict SmartMixTM3 - 40mm Structural Soil Mix

**84% Nominal 40mm Quarried Basalt Aggregate.**  
Narrowly graded angular clean hard and durable gravel sized approximately 25mm-75mm.

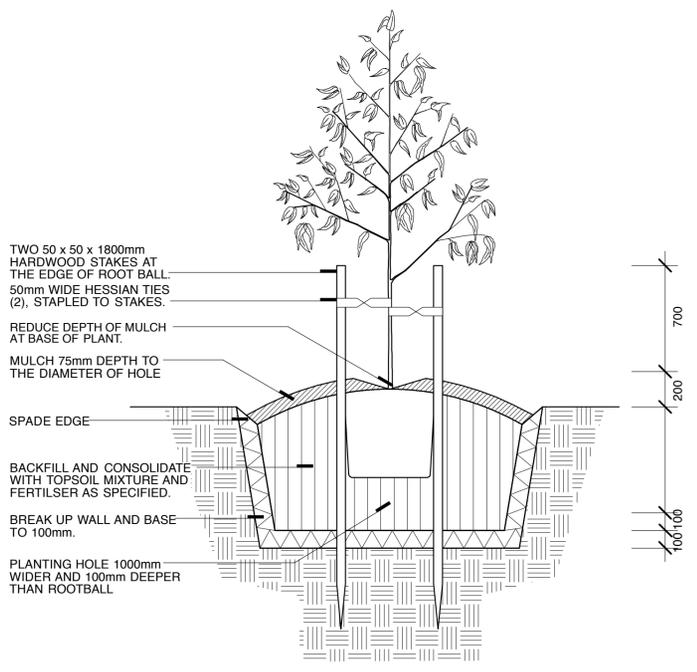
**16% Filler Soil**  
Consisting of a screened blend of Virgin Menangle Sandy Loam and a unique Virgin Clay.

Typical additives as recommended by regular soil testing:

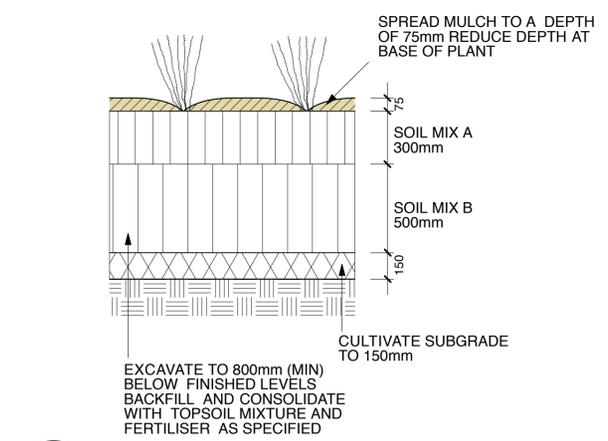
- Superphosphate at 800g/m3
- Potassium Sulphate at 400g/m3
- Complete Trace Elements at 100g/m3
- Ammonium Sulphate at 400g/m
- 12 month controlled release fertiliser (18:3:10 NPK or similar) at 2.0kg/m3



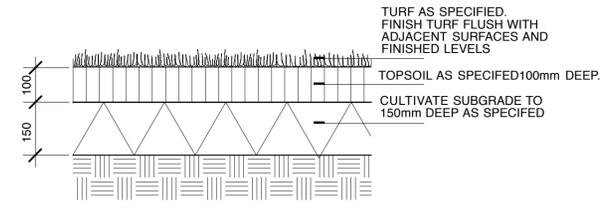
**1 PLANTING MATRIX- MASSES NATIVE GRASSES + SHRUBS**  
SCALE 1:100



**A TREE PIT TYPICAL**  
SCALE 1:20



**B MASS PLANTING DETAIL**  
SCALE 1:20



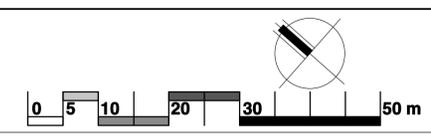
**C TURFING DETAIL**  
SCALE 1:10

client:	<b>BUNNINGS warehouse</b>
architect:	<b>morrisbray architects</b>
landscape architect:	<b>JOHN LOCK &amp; associates LANDSCAPE ARCHITECTURE</b>
project:	<b>PROPOSED BUNNINGS WAREHOUSE</b> Minmi Road Wallsend NSW
scale:	AS SHOWN @ A1 50% @ A3
date:	10/08/2010
drawing no.:	<b>1718 LP - 03</b>

revision	description	date
D	AMENDED DA ISSUE	25/01/11
C	DA ISSUE	30/08/10
B	COORDINATION ISSUE	19/08/10
A	PRELIMINARY ISSUE	10/08/10

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**LANDSCAPE DETAILS**