

**Arboricultural Statement 211 Pacific Highway St Leonards NSW**

**Client:**

Stanton Dahl architects  
PO Box 833 Epping NSW 1710  
Epping NSW 1710

**Attention Caroline Hart**

**Date: 16<sup>th</sup> December 2019**

In relation to the additional information requested by the Department in relation to the International Chinese Schools SSD application for 211 Pacific Highway, St. Leonards we provide the following commentary:

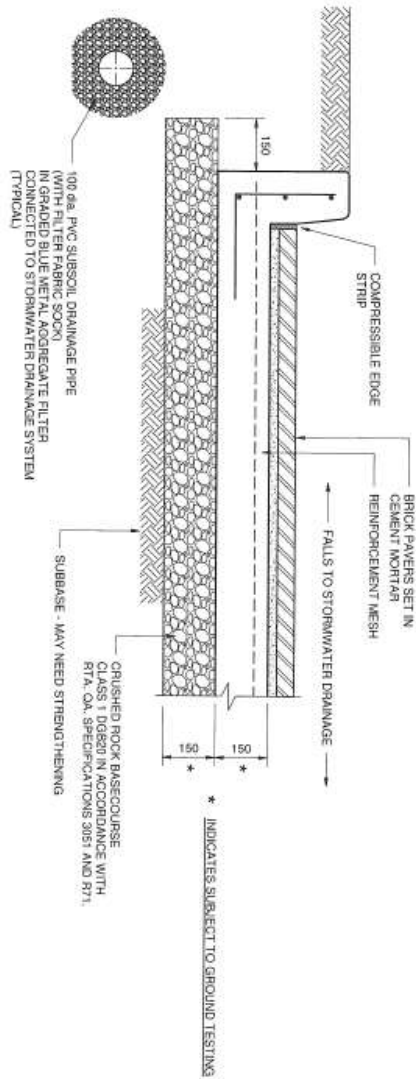
In relation to the second school signage location at the pedestrian entry to the site facing The Avenue, I refer to the attached statements and plans and wish to advise the proposed works will not have any detrimental impact on the existing shrubbery. It is noted that the installation of the signage footings can be adjusted within reason to be located in and around any major roots, therefore there will be little if no impact on the existing shrubbery, with the exception of required light pruning.

In relation to the impact on vegetation, including the root zone of adjacent trees, of the construction of a second access driveway to The Avenue to serve the proposed school, please refer to the attached proposed civil design (option 2) from Birzulis Associates for the new driveway entry. The civil design proposes the use of porous pavers on concrete subgrade (drilled to allow for drainage through to root zone), cardboard void former for future root growth and pier supports at 3000mm centres position adjustment allowed to avoid major roots. This construction methodology to considered acceptable.

Mark Bury

Principal Consultant Mark Bury Consulting

AQF Level 5 Arborist Hortus Australia National Code 1042 Diploma of Horticulture/Arboriculture Parchment Number 6621 31<sup>st</sup> January 2006 Course Code RTF50203 International Society of Arboriculture Certified Arborist and Municipal Arborist Licence Number AU-0345AM

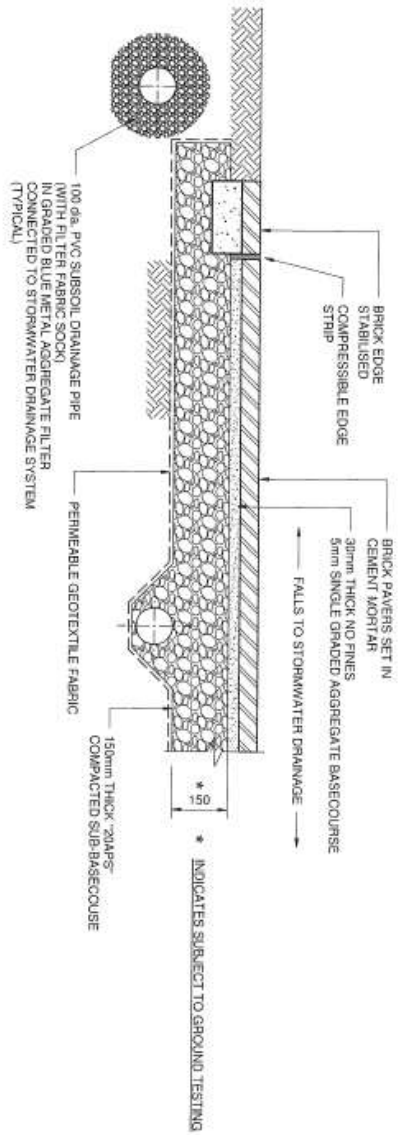


**OPTION 1 - BRICK PAVEMENT ON STABLE SUBBASE.**  
SCALE 1:10



PROJECT	INTERNATIONAL CHINESE SCHOOL
ST. LEONARDS	
TITLE	PAVEMENT DETAILS SHEET 1

DATE	1:10 @ A3	DATE	9-12-19
BY	R.D.B.	CHECKED	A.L.B.
NO.	7769	PROJECT NO.	2019/001
		DRAWING NO.	SK.01



OPTION 3. - BRICK PAVEMENT AT CARPARK.  
SCALE 1:10

ASSOCIATE  
**stanton dahl**  
architects

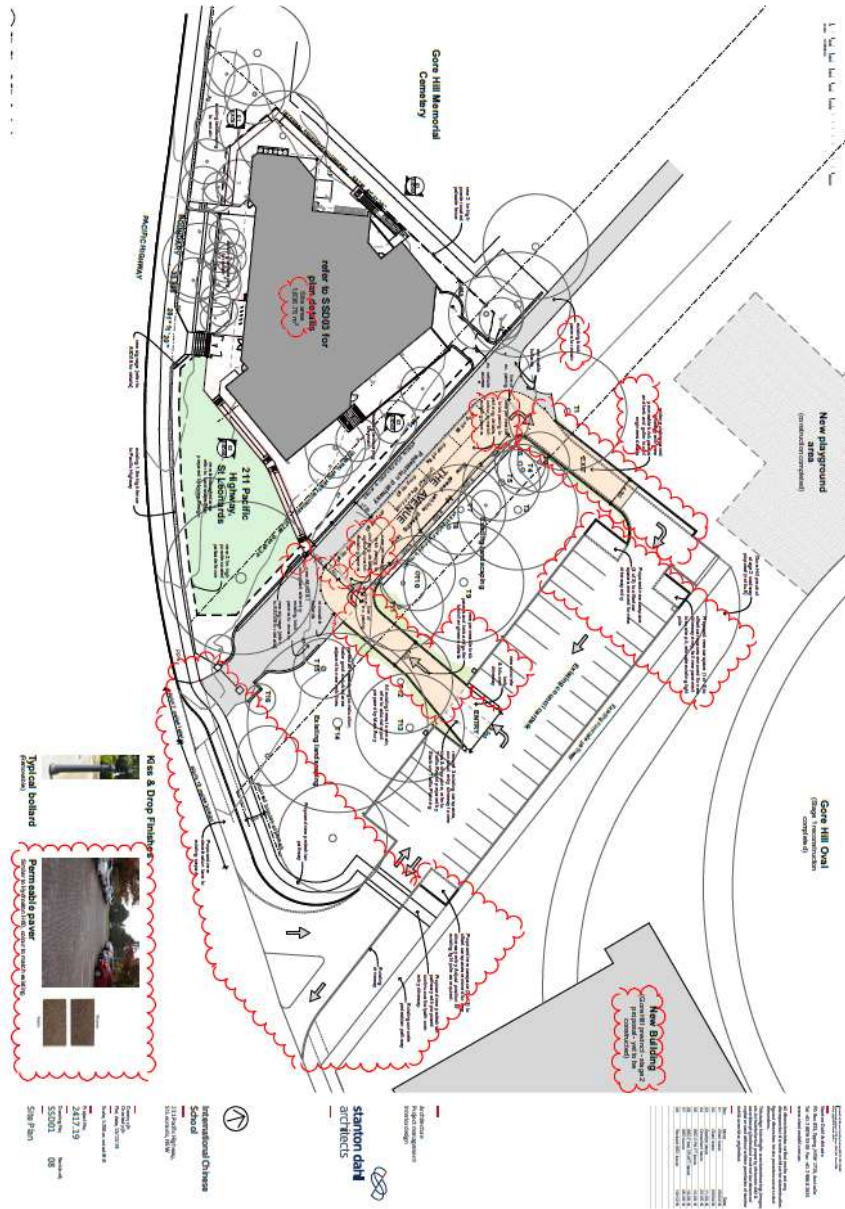
**BIRZULIS ASSOCIATES**  
CONSULTING STRUCTURAL & CIVIL ENGINEERS  
10/100 WILSON ROAD  
ST LEONARDS NSW 2234  
www.birzulis.com.au

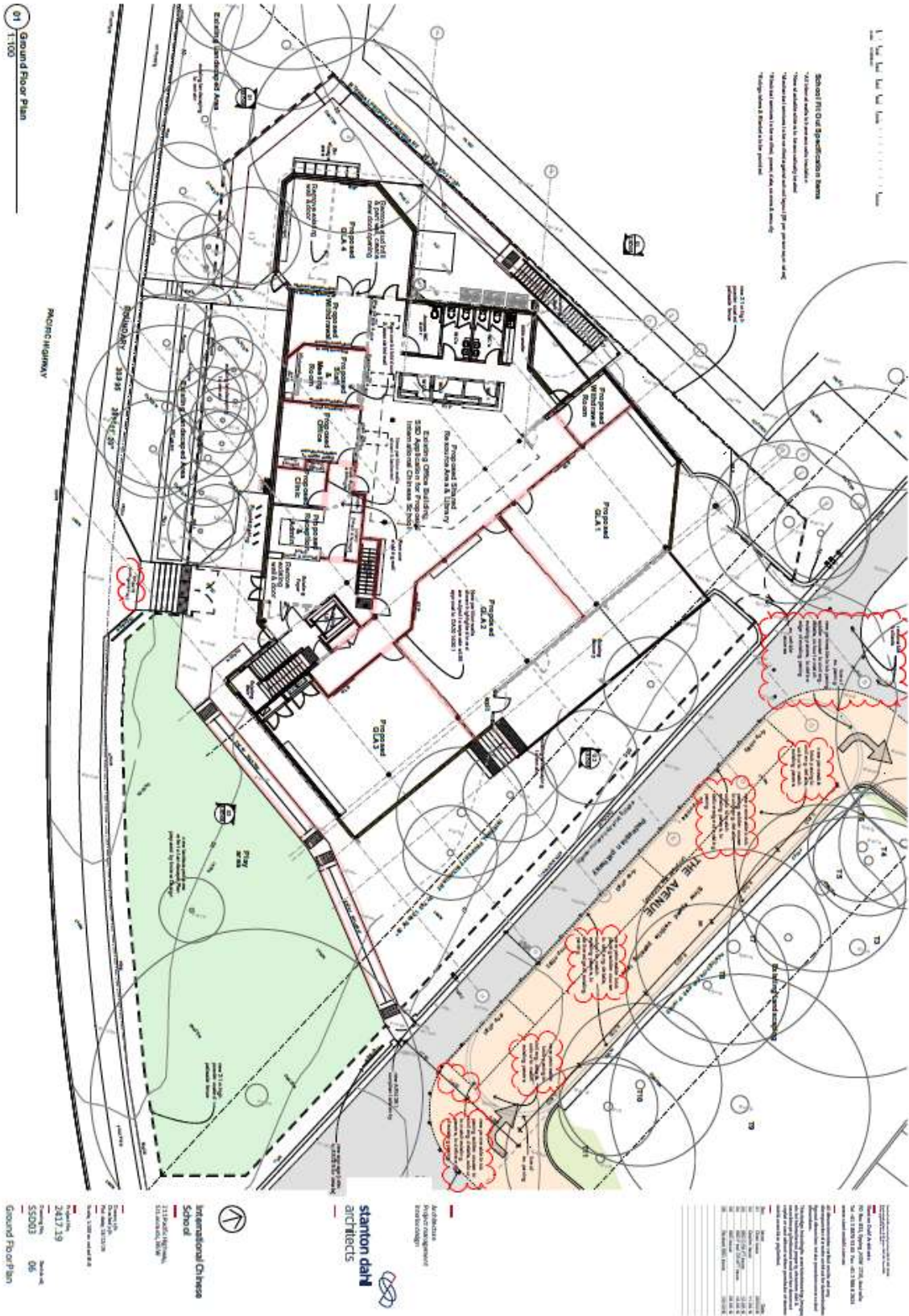
PROJECT  
INTERNATIONAL CHINESE SCHOOL  
ST LEONARDS

TITLE  
PAVEMENT DETAILS SHEET 3

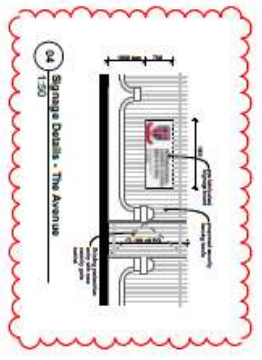
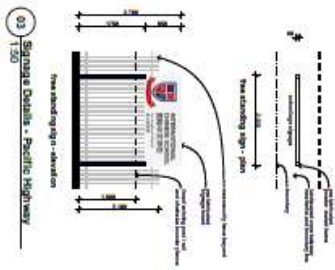
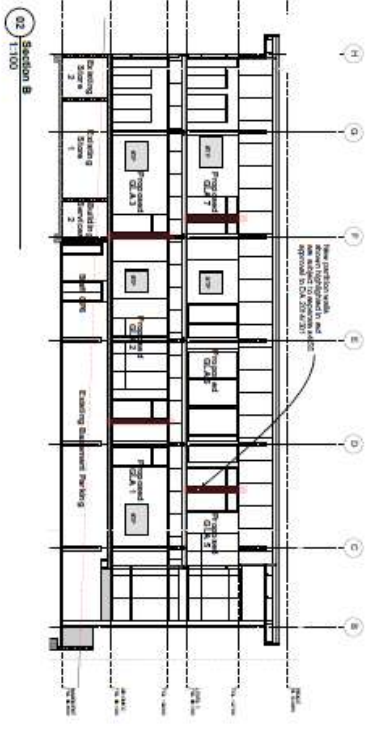
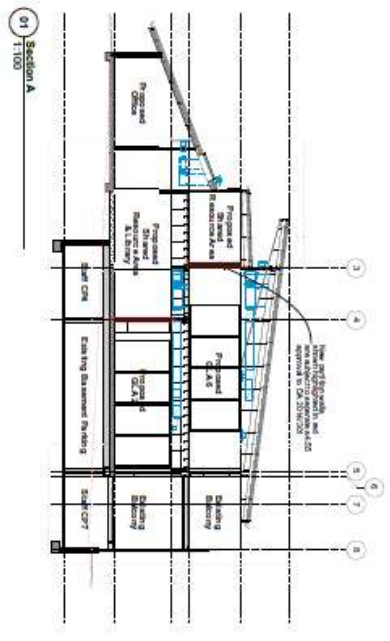
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**stonon dahl**  
 architects

**International Chinese School**  
 211 Pacific Highway, St Leonards NSW  
 Project No: 2427/19  
 Drawing No: 04  
 Date: 20/09/2019  
 Scale: 1:100  
 Section & Signage Details

## Brief Qualifications and Experience of Mark Bury

- 1. Qualifications:** Diploma of Horticulture/Arboriculture 2005, Advanced Certificate of Management 1995, Graduate Certificate in Parks Management UTS 2001. Advanced Certificate Horticulture TAFE 1986, Hadlington Certificate of Tree Care 1995 Licensed QTRA Practitioner since 2006. International Society of Arboriculture Tree Risk Assessment Qualification 2014, Completed refresher Course in 2018 and Licensed till 2024 International Society of Arboriculture Certified Arborist 2014 Licensed till 2020, International Society of Arboriculture Certified Municipal Specialist 2015 Licensed till 2020, currently studying International Society of Arboriculture Board Master Arborist Course
- 2. Practical experience:** Twenty Three (23) years experience as a consulting arborist, 20 years experience in Local Government as a consulting arborist. A Founding member of the Institute of Australian Consulting Arborist (Resigned 2006) and The Local Government Tree Resources Group which I was Secretary of in 1995.
- 3. Continuing professional development:** Member of International Society of Arboriculture (AU0345A). Member of Australian Institute of Horticulture (MXB0615), attended courses by Jeremy Barrell and Claus Matteck. I attended the update of QTRA certification March 2015 and completed course in Visual Tree Assessment in 2015 and Visual Tree Assessment and Estimating the probability of failure in 2015.
- 4. Relevant experience** Twenty Three (23) Years experience as a consulting arborist and Twenty years experience in tree management in local government. Twenty (20) years experience in Local Government assessing development applications in regards to tree management issues. (Councils; Warringah, North Sydney, Mosman, Manly, Ashfield, Pittwater, Marrickville and Hornsby).

With my qualifications and experience I am an AQF 5. Furthermore I have written and published books on Trees and Asset Management, Trees and Real Estate, Planning and Trees and Inherent Failure Patterns of Trees in the Greater Sydney Area.

I have also been a high Level Asset Manager in Local Government for 10 years and have carried out numerous courses in asset management and risk management and developed Council Budgets in this area for a number of years.

I also have lectured at UTS on Asset Management. I have worked in the Industry for 36 years and have carried out major Asset management inventories including trees for large Local Government Areas and developed financial and operations plans to manage assets. Furthermore I have developed, written and implemented asset tree master plans for Ashfield, Pittwater, Hornsby and Marrickville Councils.

**International Society of Arboriculture Continuing Education Units Completed 2014, 2015  
and 2016**

Tree Risk-Strategies for Preserving Heritage Trees  
Tree Risk-Mitigation and Reporting  
Tree Risk-Structural Defects and Conditions  
Tree Risk-Tree Load: Concept  
Tree Risk—Loads and Growth Response  
Tree Risk-Levels of Tree Risk Assessment  
Tree Risk- Sap Rot  
Tree Risk- Anchorage: Root Plate Resistance to Failure  
Tree Risk- Indicators of Decay in Urban Trees  
Tree Risk- Visual Inspection Prior to Dismantling  
Urban Forestry-Wildfire and the Role of the Arborist  
Urban Forestry-Managing Trees during Construction Part 1 and 2  
Urban Forestry-Tree Risk Assessment: A Foundation  
Urban Forestry-Tree Inventories Part 1 and Part 2  
Trees & Their Environment- Fertilizing Trees & Shrubs Part 1 and Part 2  
Urban Forestry-Root Management Challenges on Urban Sites  
Urban Forestry-Challenges for the Built Environment  
Urban Forestry - The Benefit of Trees  
Urban Forestry- Root Planting Friendly Site Design  
Urban Forestry- Root Management Challenges on Urban Sites  
Urban Forestry- Tree Inventories Part 1  
Urban Forestry- Tree Inventories Part 2  
Urban Forestry- Tree Risk Assessment a Foundation  
Urban Forestry- Managing Trees during Construction Parts 1 and 2  
Urban Forestry- Wildfire and the Role of the Arborist  
Trees & Their Environment- Soil Properties: Part 1 and Part 2  
Trees & Their Environment- Fertilizing Trees & Shrubs Part 1 and Part 2  
Trees & Their Environment- Analyse Before You Fertilize  
Trees & Their Environment- Back to Basics: Tree Fertilization  
Trees & Their Environment- Slow or Controlled Release Fertilizers  
Tree Maintenance- Trees & Lightning  
Tree Maintenance- Cabling  
Tree Maintenance- Pollarding: What Was Old Is New Again  
Tree Maintenance- Why Utilities "V-Out" Trees  
Tree Maintenance- Pruning Trees Part 1: Principles, Objectives & Pruning Types  
Tree Maintenance- Pruning Trees Part 2: How, Where and How Much  
Plant Health Care- Plant Health Care  
Plant Health Care- Maintaining Tree and Turf Associations  
Plant Health Care- Preserving Trees during the Construction Process  
Plant Health Care- Mulch  
Plant Health Care- Preserving trees during the Construction Process  
Plant Health Care- Trees v Turf  
Plant Health Care- Resource Allocation Trade Off  
Plant Health Care- Root System Care  
Safe Working Practices –Innovations in Climbing Techniques and Equipment  
Safe Working Practices- Basic Chain Saw Maintenance  
Safe Working Practices- Felling Techniques  
Safe Working Practices- Engineering Concepts for Arborists  
Safe Working Practices- Tree Removals  
Safe Working Practices- Chain Saw Cutting Techniques  
Tree Science-Palms just not for the Tropics  
Tree Science-Damage and Diagnosis Steps to Proper Diagnosis  
Tree Science- Plant Traits that Resemble Abiotic Disorders  
Tree Science- Adventitious Roots Occurrence and Management in Trees



Tree Science- Cool Trees Surviving Cold Temperatures  
Tree Science- Identifying Wood Decay and Wood Decay Fungi in Urban Trees  
Tree Science- How Pests use Bark or Wood as Food  
Tree Science- How trees get to fat  
Tree Science- Kissing under the Mistletoe  
Biology-Tree Failure Risk Evaluations  
Biology-Tree Growth Rings Formation and Form  
Biology- Regulating Tree Growth Keeping the Green Side Up  
Biology- How Wind Affects Trees  
Biology- Allelopathy in Trees  
Biology- Fantasy Facts and Fall Colour  
Biology- Blowing in the Wind  
Biology-Tree Physiology  
Biology-Basic Woody Plant Biology  
Diagnosis and Treatment- Plant Health Care and the Diagnostic Process  
Diagnosis and Treatment- Want to be a Better Plant Diagnostician  
Diagnosis and Treatment- Diagnosing Disease Problems on Trees  
Diagnosis and Treatment- How Weather Influences Insect and Mite Populations  
Diagnosis and Treatment- Understanding and Diagnosing Scale Insects  
Diagnosis and Treatment- Surefire Rules of Diagnosis  
Diagnosis and Treatment- Diagnosing Abiotic Disorders  
Tree Selection and Planting- A plant by any Other Name  
Tree Selection and Planting- Installation and Establishment of Trees and Shrubs  
Tree Selection and Planting- Ten Keys to Plant and Site Selection  
Tree Selection and Planting- Tree Transplanting  
Tree Selection and Planting- Tree Transplanting and Establishment  
Tree Selection and Planting- Post Planting Maintenance of Trees and Shrubs  
Tree Selection and Planting- Tree Trunk Protection  
Tree Selection and Planting- Siting Selecting and Planting Problems  
Tree Selection and Planting- Girdling Root Formation in Landscape Trees  
Tree Selection and Planting- Right Tree, Right Location  
Tree Selection and Planting- Dendrology and Taxonomy  
Tree and Development  
The Landscape below Ground  
General- Arborist Equipment Study Program

**International Society of Arboriculture**  
**Continuing Education Units Completed 2017**

Root Pruning Part 2  
Palms: Woody Giants of the Monocots Part 2  
Biology and Assessment of Callus and Woundwood  
Managing Soils That Support Urban Trees Part 1  
Palms: Woody Giants of the Monocots Part 1  
Tree Injection Part 1  
Plant Health Care and Diagnostics  
Root Management: An Introduction  
Bark Traits are Important to Tree health and Survival  
The Cost of Not Maintaining the Urban Forest  
Flood Tolerant Trees in the Urban Sphere  
Integrated Vegetation Management  
Advanced Twig Anatomy  
Tree Lightning Protection Systems Part 2  
Tree Safety

## Continuing Education Units Completed 2018

Managing Soils That Support Urban Trees Part Two  
Preserving Trees During Construction  
Arborists and Wildlife Retaining Trees for Wildlife Habitat  
Understanding Tree Responses to Abiotic and Biotic Stress Complexes  
Storm Response Part 1 Types of Storms and Their Effects on Trees  
Storm Response Part 2 Preparing for Safe and Effective Responses to Storms  
Storm Response Part 3 Effective Response to Large and Small –Scale Storm Emergencies  
Storm Response Part 4 Unique Aspects :Keeping Employees Safe, Talking to the Media, Saving Damaged Trees, Winding Down, and Lessons Learned  
Tree Inventories  
Understanding Tree Responses to Stress  
Tree Lightning Protection Systems (Part One)  
Root Management Challenges on Urban Sites Achieving a Healthy Root Crown Balance  
Root Management Challenges on Urban Sites Human Intervention in Root Development  
Tree Risk Assessment Structural Defects and Conditions that Affect the Likelihood of Failure  
Basic Tree Plumbing Translocation  
Tree Injection (Part 2)  
Advanced Twig Anatomy Starting Little to Get Big (Part 1)  
Biology and Identification of Fungi  
Urban Tree Inventory Data  
Comparison of Tree Conditions  
Roadside Soil Enhancement  
Tree Species as Tools for Biodiversity and Phytoremediation  
Homeowner Interactions with Residential Trees In Urban Areas  
Does Modulus of Elasticity Vary  
Long Term Fluctuations in Water Status and Crown Die Back  
Maximum Size Expectations in Designed Space  
The Arboricultural and Economic Benefits of Formative Pruning  
Protecting Your Assets  
The Management of Tree Roots in Urban and Suburban Settings  
The Costs on Not Maintaining and Maintaining Urban Forest  
Tree Performance during Early Years and Future Performance  
Effects of Urbanisation on Tree Species Composition and Structure  
Things Arborist Should Know about Soil Microbes  
Wood Chips and Compost Improve Compacted Urban Soil  
The Linear Index of Tree Appraisal Model  
The Influence of Abiotic factors on street tree condition and mortality in a commercial retail Streetscape  
Water Management Strategies in Dry Environments  
Comparison of Shading Effectiveness  
Vines and Utility Arboriculture  
Vegetation and Storm Water Run Off

## Disclaimer

This assessment has been prepared for the exclusive use of the client and Mark Bury Consulting which accepts no responsibility for its use by other persons.

The client acknowledges that this appraisal, and any opinions, advice or recommendations expressed or given in it, are based on the information supplied by the client and on the data inspections, measurements and analysis carried out or obtained by Mark Bury Consulting and referred to in the assessment. The client should rely on the assessment and on its contents, only to that extent.

This assessment was carried out from the ground, and covers what was reasonably able to be assessed and available to this assessor at the time of inspection. No aerial or subterranean inspections were carried out.

This report is to be utilised in its entirety only. Any written or verbal submission, report or presentation that includes statements taken from the findings, discussions conclusions or recommendations made in this report, may only be used where the whole of the original report (or a copy) is referenced in, and directly attached to that submission, report or presentation. This report must be revised for use in the Land and Environment Court and permission sorted from the owner for its use in court.

Care has been taken to obtain information from reliable sources. All data has been verified where possible, however, Mark Bury Consulting can neither guarantee nor be responsible for the accuracy of information provided by others.

Information contained in this report covers only the trees that were examined and reflects the condition of the trees at the time of inspection, furthermore the inspection was limited to a visual examination of the subject trees without dissection, excavation, probing or coring. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the subject tree may not arise in the future. This report cannot be used in a court of law until it is revised and referenced.