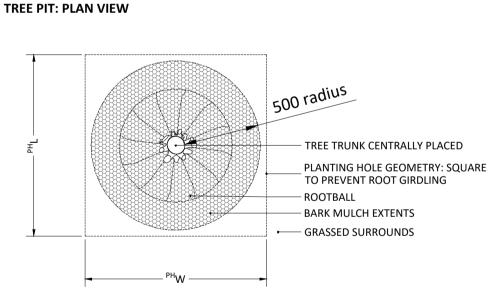


# TREE SUPPORT SYSTEMS & IRRIGATION MEASURES OMITTED FOR CLARITY



N.B. Stated tree planting hole dimensions to accomodate the rootball are a minimum. Rootball dimensions can, & do, vary: some variance is to be expected naturally between species, tree stock, suppliers and season. In the event that the rootball exceeds the stated dimensions, the contractor shall seeks advice from the Landscape Architect before commencing further. Thereafter, the Landscape Architect before commencing further. Thereafter, the Landscape Architect before to the advice given in \$\$455:2014 with the landscape to the service of the given in \$\$455:2014 with the landscape to the service of the service of \$\$455:2014 with the landscape to the landscape greater\*\* than the rootball. Tree planting hole depth shall generally be no greater than the existing tootball or container depth. The Landscape Contractor shall take care not to damage any underground utilities &/or services.

2000mm

**Table 1: TREE PIT DIMENSIONS** 

RBØ = Rootball diameter, RBDp = Rootball depth,

Heavy Standard, SM = Semi Mature

PHL = Planting Hole length, PHW = Planting Hole width, PHD = Planting Hole depth

- (MAX) MULTI-PURPOSE TOPSOIL TO BS 3882 & SUBSOIL TO BS 8601

- AMELIORANTS: TBC ONSITE, THEREIN: AS REQUIRED

BE CONCOMITANT WITH ROOTBALL BASE.

PONDING, RIPPING: NOT REQUIRED

CIRCULAR TABLED SURFACE: ADJUST HEIGHT IF REQUIRED TO PREVENT OVERDEEP PLANTING & ALLOW FOR DEVELOPMENT OF EVENLY SPACED LATERAL ROOTS. IDEALLY, TREE PIT BASE SHOULD

PLANTING HOLE BASE / FORMATION LEVEL: DISH TO PREVENT

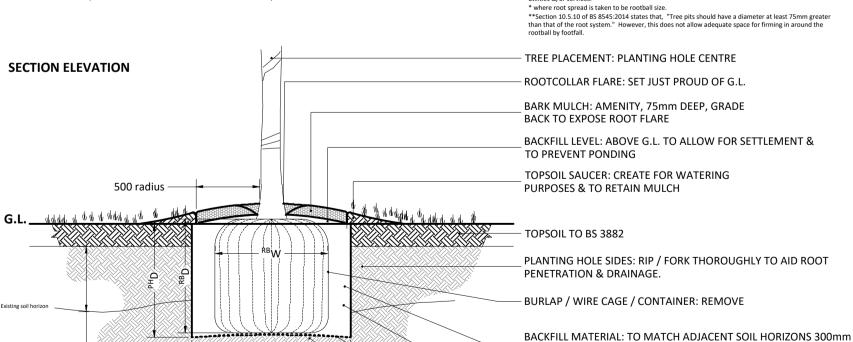
Information regarding 'Tree Planting in Open Ground, Generally' on this sheet is derived from "BS 8545: 2014
Trees: from nursery to independence in the landscape - recommendations".

While every attempt is made to address the most salient points raised (within the BS), this list should not be considered exhaustive as it is presented in summary format only. For further information, the reader referred back to the relevant British Standard.

LS = Light Standard, S = Standard, SSe = Selected Standard, H = Heavy Standard, EH = Extra

ROOTBALL

DIMENSIONS PLANTING HOLE DIMS



N.B. tree pit dimensions are a function of rootball size. Rootball dimensions are dependant on size of tree specified. Refer to Table 1.

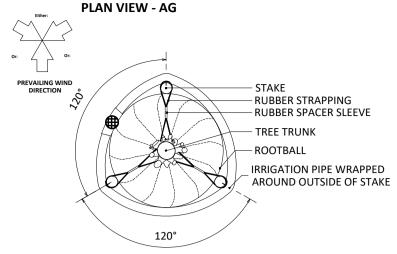
 BS 8545: 2014 states that, "Sensible tree pit design begins with intention of doing as little as possible other than digging a pit, planting the tree, and using the existing soil, separated as subsoil and topsoil, as backfill. Each additional level of complexity added to the basic pit design can be related to the amelioration of a particular constraint".

 Tree shown planted in open ground in optimal conditions with minimal site constraints. Tree support systems are omitted for clarity. • Tree pit dimensions are a function of rootball size. Rootball dimensions are dependant on

size of tree specified. Refer to table.

500mm 1000mm

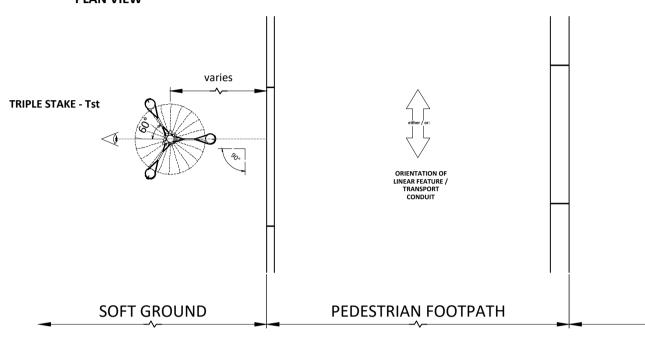
# **ABOVE GROUND SUPPORT** Scale 1:25 / TRIPLE STAKED (Tst) TREES

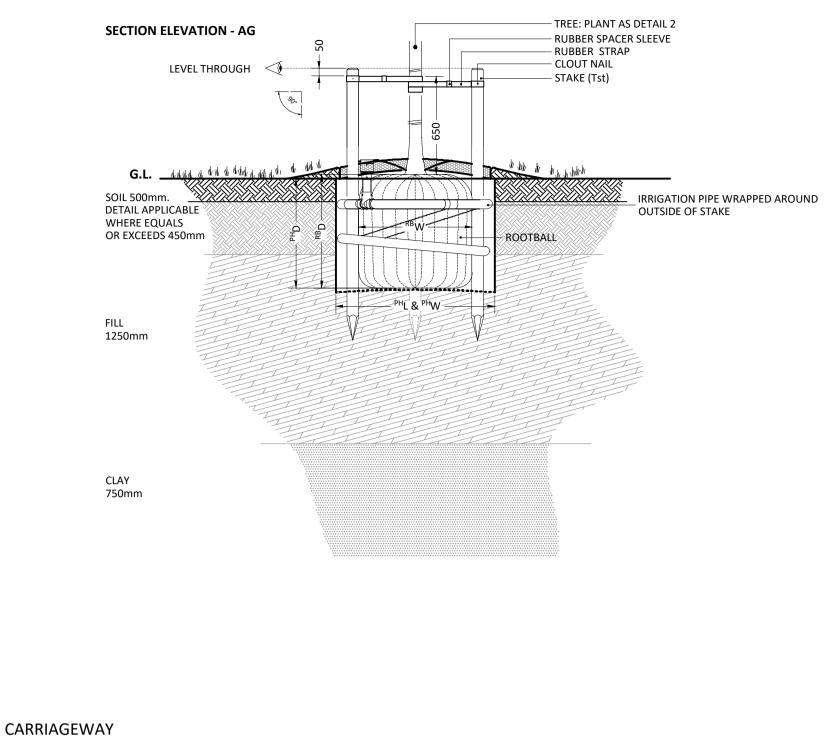


**N.B.** tree pit dimensions are a function of rootball size. Rootball dimensions are dependant on size of tree specified. Refer to Table 1, detail 2

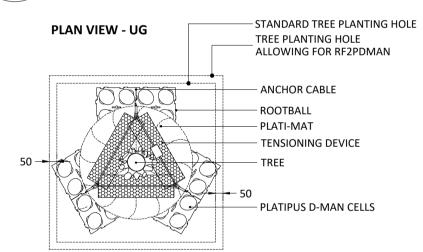
### STAKE TYPE ORIENTATION IN PROXIMITY TO TRANSPORT CONDUITS / AVENUE / SPINE ROAD PLANTING / ETC.

### **PLAN VIEW**





# **BELOW GROUND TREE SUPPORT UNDERGROUND GUYED (UG) TREES** Scale 1:25

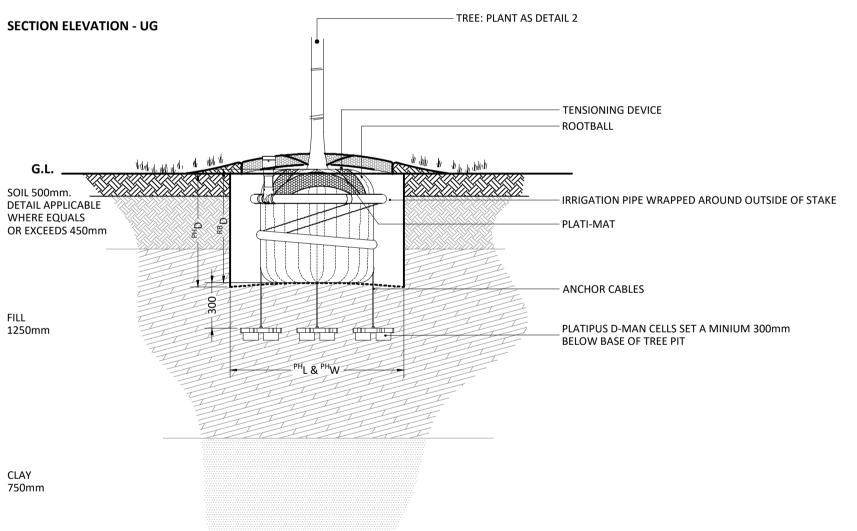


## **TABLE 2: VERGE GUYING SCHEDULE**

TABLE 2. VERGE GOTTING GOTTED GIE		
ITEMS	SPECIFICATION	
EARTH ANCHORING SYSTEM:	UNDERGROUND GUYED	
MANUFACTURER:	PLATIPUS	
MODEL:	D-MAN	
D-MAN CELL DIMENSIONS:	270x270x80mm (LxWxD)	
CODE:	RF2PDMAN	
SUITABLE FOR:	12-45cmg TREES	
SYSTEM COMPRISING:	3no. Wire Chokes, 5m galvanised wire, 1no. ratchet tensioner, 3no. Plati-Mats, 6no. D-MAN cells (3 x 2no. cells connected).	
N.B. Farth Anchoring Systems are	to be installed to manufacturer's	

**N.B.** Earth Anchoring Systems are to be installed to manufacturer's recommendations & requirements with a minimum of 3no. earth anchors & associated cables to be fitted per tree.

The RF2PDMAN system has been preferentially selected over the RF1PDMAN system b/c of adverse site conditions (exposure, wind & ground conditions).



INVENTORY				
Planting Type:		Tst TREES	UG TREES	
Form:		SM	SM	
Girth / Height:		20-25	20-25	
Planting Hole Dimensions	L:	1050	1150	
(length, width, depth -	W:	1050	1150	
mm):	D:	750	750	
Bark Mulch Dimensions	R:	500	500	
radius & depth (mm): D:		75	75	
Tree Support System:		AG	UG	
Tree Support Height (mm):		650	N.A.	
Stake Type:		Tst	N.A.	
Stake Diameter (mm):		75	N.A.	
Stake Length (m):		1800	N.A.	
Tree Tie Type:		BS	N.A.	
Rubber Block Type:		N.A.	N.A.	
Rubber Spacer Type:		SLV230	N.A.	
Rubber Belt Type:		S2	N.A.	
Earth Anchoring Type:		N.A.	RF2PDMAN	
Irrigation Systems:		RRCIVIC 2	RRCIVIC 2	

RF2PDMAN = cabled large anchor system w/t deadmen composite anchors, webbing strap & rachet tensioners. For trees up to 45cmg.

RRCIVIC 2 = Greenleaf RootRain Civic 2, 60mm Ø, 5m long, 80mm inlet, reducer & end cap, 60mm vertical pipe cut to suit onsite. GENERAL TREE PIT PLANTING NOTES:

- 1. SPECIFIED MATERIALS: all to be installed in accordance with the manufacturer's
- recommendations and/or instruction 2. PLANTING GENERALLY: Correct planting depth is critical for transplanting success,

with over-deep planting identified as a common cause of failure. The Contractor

- shall therefore ensure that the natural root flare of the tree is clearly visible at proposed finished soiling surface. To ensure that correct final planting position / depth is achieved, the Contractor shall therefore take care to remove all: • soil placed above natural root flare during nursery packaging & production -
- rootballing, containerization, etc. adventitious roots above the root flare,
- wire encircling the main stem,
- wire cage & burlap where possible. Otherwise, peel back and remove once
- the tree is in the planting pit. **3.** BACKFILL MATERIAL: Open ground & Verges: select 'as dug' material to be reused taking care to match adjacent soil horizons (where suitability assured for tree growth); TBC onsite by Contractor. All 'as dug' topsoil material to conform to BS
- 3882:2015 General Purpose Topsoil & shall be reinstated to a depth of no more than 300mm). Remove all deleterious material arising (weeds, broken brick & large stones, etc). Backfill & lift in layers no greater than 150-230mm deep. Compact to between 1.5 - 2.0 mega pascals: tread down using footfall, paying particular attention to the planting hole edges and rootball extents to eliminate voids. Avoid over compaction.
  - 4. BACKFILL SOIL AMELIORANTS: the Contractor shall satisy himself of the general suitability of the topsoil supplied for long term tree growth. Reason: to ensure the long term longevity of the tree supplied. Thereafter: to suit site conditions. Typically, this may comprise 0.5kg of broadleaf p4 or similar (pre-hydrated with
  - water) thoroughly mixed with the topsoil until the medium is homogeneous. **5. ARISINGS:** all deleterious material arising, shall be removed offsite to a licensed tip by the Contractor.
  - TREE SUPPORT SYSTEMS: Unless otherwise stated, all trees shall be supported as identified on the Softworks drawings which use both the Triple Stake (Tst) &
  - Underground Guyed (UG) method of tree support. Tree support stakes along transport conduits are to be orientated in
  - accordance w/t Detail 3 opposite. Tree support stakes to butt up against the rootball to help stabilise it.
  - Tree support height above ground shall be as identified on Detail 3. Stakes to be removed to a minimum 150mm below ground level with no
  - sharp edges as soon as the developing root system is self-supporting & root
  - firmness is proven. Irrigation pipes to be installed around the AG tree support system & on top of the the UG tree support system.
  - **ROOT PROTECTION MEASURES:** supply & install permeable rootbarriers (Terram RootGuard, or equal & approved) to a min. depth of 600mm below ground. Installation: as per manufacturer's instruction. Finished level: top of barrier to be 10mm above G.L. *Zone of Deployment*: protection of hard surfacing / services
  - lying within a min. 5m radius of the proposed tree and or as dictated on plan. **8. IRRIGATION:** *Open ground & Verges*: Create topsoil chaucer as Detail 2. Water at frequence necessary to ensure establishment & survival.
  - **9. DRAINAGE:** the contractor shall satisy himself that the tree pit is free draining. The contractor shall notify the Contract Administrator of any problem areas and
  - await further instruction before proceeding further. Reason: to ensure the longevity & viability of the tree supplied. TBC onsite.
  - **10. BARK MULCH:** Amenity, 8-40mm particle size, mid dark brown, Rolawn (or equal & approved). Coverage: 75mm deep, 1m Ø around base of tree.

Issue: Drawn by David Jarvis Associates Limited (CROWN COPYRIGHT. ALL RIGHTS RESERVED 2019 LICENCE NUMBER 0100031). This drawing is for Planning purposes only - Do not use this drawing for Construction. The information contained in the drawing should be used as a guide to the final forms and finishes of the landscape scheme. Any revisions to be approved by the Client and Local Authority

 $\underline{\text{Scaling:}}$  Do not scale this drawing. Use given dimensions only.

Setting out: refer to Engineers for information regarding setting out. In the event of discrepancy refer to Engineers in the first

Survey: Original survey provided by the Client. Services: Where possible these are identified on the drawings but, for the avoidance of doubt all service/utility locations should be

considered indicative until identified on site. To ensure those services / utilities shown are current refer to the original survey provider or utilities designer or Client for confirmation and further information regarding easements. In the event of new services being installed refer to the appointed Engineer. It is recommended that hazard warning tape 'danger electric cable'/'danger services' to be installed over all service routes (to remain on site) to current BS guidelines (BS7671). Construction Information: all detailed design (including, but not necessarily limited to), bond patterns, kerbing, edging, tactile crossing demarkation, construction build-up, levels, drainage etc., to be provided by an appropriately qualified structural/highways/civil engineer to be appointed by the client for presentation to [and subsequent discharge from] the relevant

Lighting: Refer to lighting engineers drawings.

<u>Planting:</u> Plant species are selected and located in line with consideration of the site conditions, NHBC guidelines and discussions with the Local Authority and design team. All plants and planting procedure to conform to the David Jarvis Associates Limited Landscape Specification that will accompany the Construction issue drawings. No species or plant location is to be varied without prior consent of the Landscape Architect.

Biosecurity: All plant stock to be sourced from a supplier certified to be pest and disease free and in accordance with Plant Passport / Animal and Plant Health Agency (APHA) and current DEFRA requirements. Supplier information / certification to be retained for a period of not less than 12 years and must be made available upon request. Tree Root Protection Measures: supply & install permeable rootbarriers (Terram RootGuard, or equal & approved) to a min. depth of 600mm below ground. Installation: as per manufacturer's instruction. Finished level: top of barrier to be 10mm above G.L. Zone of Deployment: protection of hard surfacing / services lying within a min. 5m radius of the proposed tree. To be increased to

1000mm depth where services / utilities require this - to be determined at Construction. Foundations: Developers / Contractors to ensure that all foundations (buildings and external walling) are designed and constructed so as to take into account, at the time of maturity, any existing or proposed trees, hedgerows or other vegetation on the application site or existing vegetation on land adjoining the site at the time of construction and any time see felled or hedgerows removed on or adjacent to the site during the previous 15 years. For this purpose the developer / contractors will submit all

Design Levels: Refer to Engineers where design levels are not shown.

relevant details to the authority dealing with the Building Regulations Certificate.

<u>CDM:</u> Drawings to be read in conjunction with Designers risk assessment. Potential risks above that of those associated with the general construction typical to the drawing are identified below;

Rev.	Date	Description	DRN	CKD
P1	20/12/2019	First Issue.	JG	BS

**PLANNING** 

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**HOMES** 

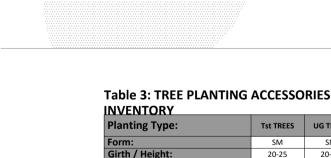
WHITE POST ROAD, BODICOTE

**Drawing Title** 

TYPICAL TREE PLANTING DETAILS

1.25	Δ1	DFC 20
Scale	Sheet Size	Date

DEC 2019 1:25 | AT DR-5500 2832-5-2 **P1** 



F = Feathered, LS = Light Standard, S = Standard, SSe = Selected Standard, H = Heavy

	Standard, EH = Extra Heavy Standard, SM = Semi Mature
Tree Support System:	AG = Above Ground, UG = Under Ground.
Tree Tie Type:	BB = Belt & Block, BS = Belt & Spacer, EA = Earth Anchoring
Rubber Block Type:	RSB1 = Standard Double Rounded Block 50mm x 35mm for use with 24mm belting.
	RSB2 = Standard Double Rounded Block 65mm x 50mm for use with 35mm belting.
	FBS1 = 25mm Slot, Standard Flat Back Block 50mm x 35mm for use with 24mm belt
	FBS2 = 37mm Slot, Standard Flat Back Block 65mm x 50mm for use with 35mm belti
Spacer Type:	SLV130 = 30cm x 25mm for use with 24mm belting
	SLV230 = 30cm x 40mm for use with 35mm belting
	SLV290 = 90cm x 40mm for use with 35mm belting
Belting Type:	S0 = 15mm x 2mm x length, standard reinforced rubber belting
	S1 = 24mm x 2mm x length, standard reinforced rubber belting
	S2 = 35mm x 2mm x length, standard reinforced rubber belting
	S3 = 48mm x 2mm x length, standard reinforced rubber belting
	HD2 = 35mm x 3mm x length, Heavy duty rubber belting

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