

Appendix A: Arboricultural Statement

The proposed docking station is likely to be located within the Root Protection Area (RPA) of the mature tree situated within the footway to the east of the site (figure 1.1). The tree is of a mature age and is in good physiological condition.

There is no evidence of disturbance to the footway, this suggests that roots are unlikely to be found beneath the footway at the maximum excavation depth of 100mm (inset foundations). The impact on the tree from trenching operations for the docking station is considered to be minimal.

Construction mitigation is proposed, and will be undertaken in accordance with the National Joint Utilities Group (NJUG) guidance:

Prior to construction

- No remedial pruning is required to complete the works. The stem of the tree will be protected prior to commencement of any construction works;
- CAT and Genny tracing and trial holes will be undertaken prior to any construction and a safe digging techniques applied during excavation.

During construction

- During construction if any roots below 25mm in diameter are encountered, these should be retained undamaged wherever possible, and protected from desiccation by damp hessian sacking or a similar protective material. Roots below 10mm diameter should be trimmed back neatly in line with the edge of the excavation trench using secateurs;
- In the event roots over 25mm are encountered during hand digging, excavation works shall cease immediately and an arboricultural consultant called to the site for a professional judgement;
- Any mixing of cement based materials is to take place outside of the RPAs of all trees.

Assuming that the measures outlined above are adopted, it is considered that the proposed docking station would not detrimentally impact on the tree within the vicinity of the works.

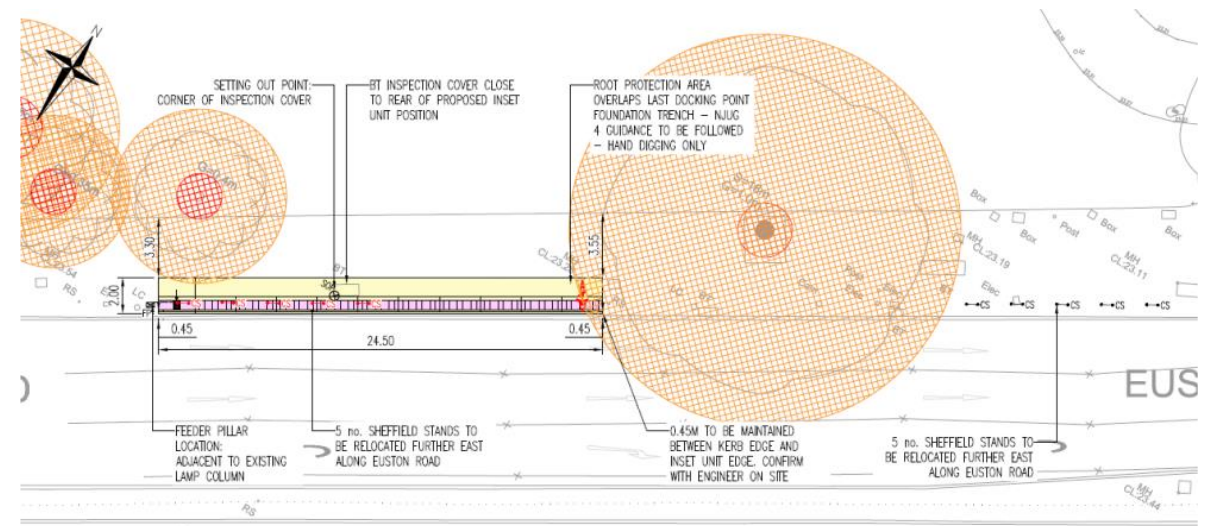


Figure 1.1: Site plan showing tree for protection and proximity of surrounding trees.



NOTES:

1. ALL DIMENSIONS IN METRES UNLESS OTHERWISE STATED.
2. DO NOT SCALE FROM THIS DRAWING FOR SET OUT PURPOSES.
3. IF SITE CONDITIONS DICTATE THAT PREFERRED FOUNDATION SOLUTION CAN NOT BE IMPLEMENTED THEN REFER TO FOUNDATION DESIGN PACK FOR ALTERNATE FOUNDATION SOLUTIONS.
4. IF STATUTORY UNDERTAKERS PLANT IS INDICATED AS PRESENT WITHIN THE FOOTPRINT (SEE RADAR DRAWING), EXCAVATION WILL TAKE PLACE USING APPROPRIATE AVOIDANCE TECHNIQUES IN ACCORDANCE WITH HSG 47.
5. FEEDER PILLAR DUCTING ALIGNMENT IS INDICATIVE ONLY, ACTUAL DUCTING ALIGNMENT TO BE DETERMINED ON SITE BY CONTRACTOR.
6. WHERE POSSIBLE ALL MATERIALS NOT BEING RE-USED ON SITE ARE TO BE REMOVED TO CONTRACTORS YARD FOR RECYCLING OR ENVIRONMENTALLY FRIENDLY DISPOSAL IN ACCORDANCE WITH ISO 14001.
6. CONSTRUCTION DRAWING TO BE READ IN CONJUNCTION WITH TDE-FW-04 - INSET LINEAR FOUNDATION FOOTWAY

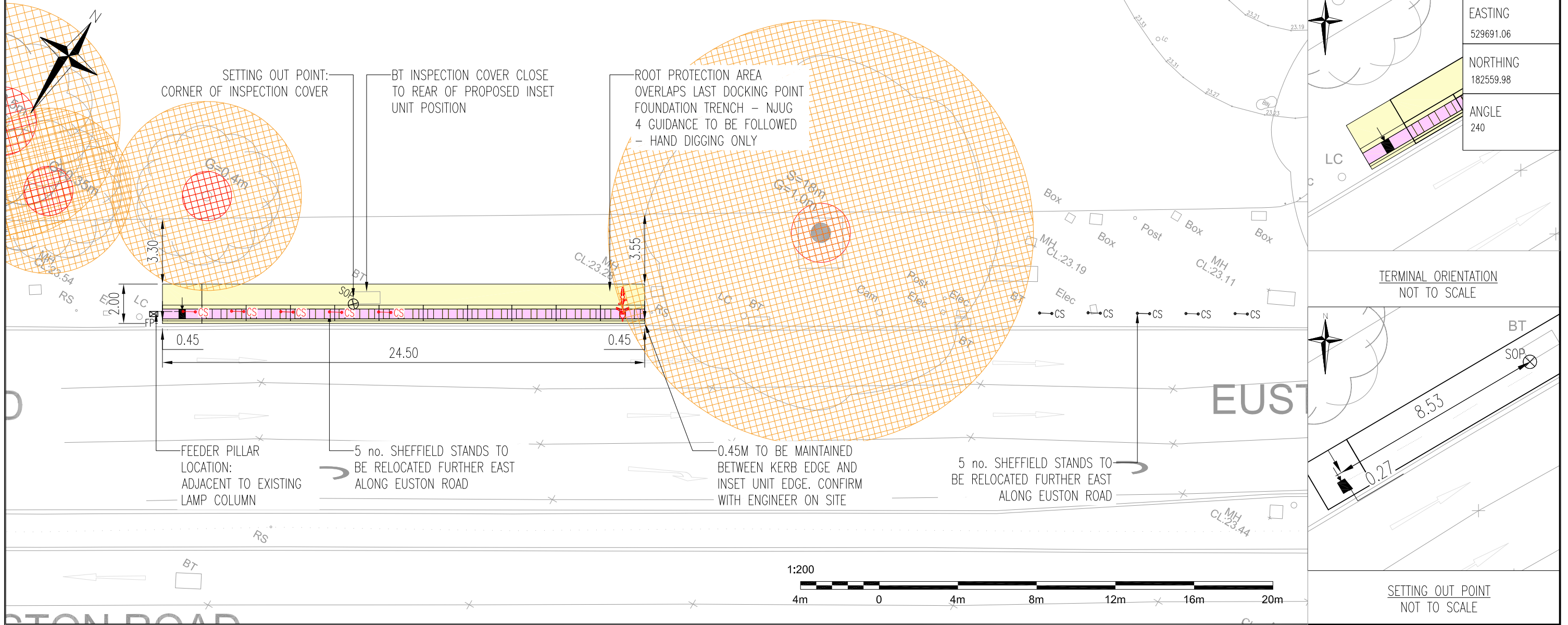
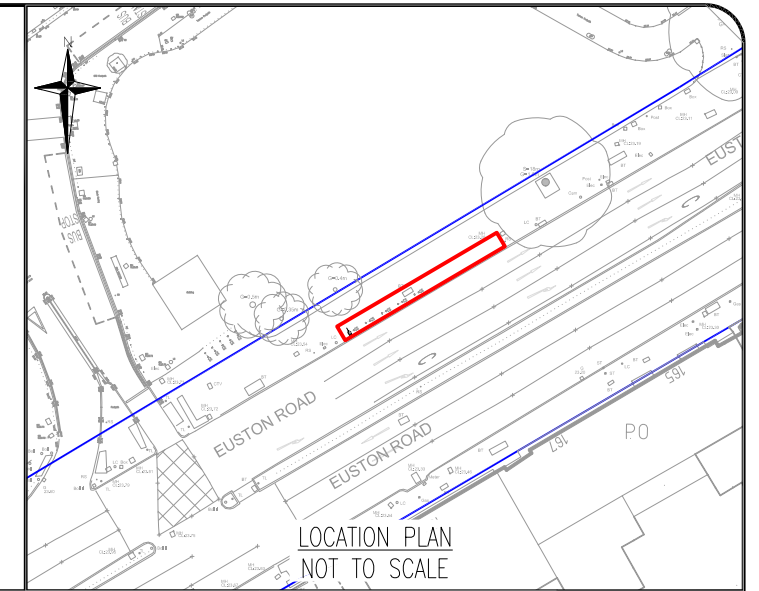
KEY:

	PROPOSED DOCKING POINTS AREA
	PROPOSED LOCATION OF TERMINAL
	EXISTING DOCKING POINTS AREA
	DUCTING
	DOCKING POINT BASEPLATE
	INSET FOUNDATION
	FEEDER PILLAR
	INDICATIVE BCH BIKE IN DOCKING POINT

	LAMP COLUMN
	ROAD MARKING
	GULLY
	TELEPHONE BOX
	POST BOX
	TACTILE PAVING
	CYCLE STAND
	STATUTORY UNDERTAKERS COVER (TEXT MAY SHOW EC, ELEC, ER, FH, GV, IC, KO, MH, SC, SV, TC, UC or WIM)

	NO DIG ZONE
	TREE AND TREE PIT
	DUCTING
	POST
	BOLLARD
	SIGN POST
	PAY & DISPLAY MACHINE
	GUARDRAILING

NOTES: ITEMS SHOWN IN GREY ARE EXISTING
 ITEMS SHOWN IN BLACK ARE PROPOSED
 ITEMS SHOWN IN RED ARE TO BE REMOVED



Sponsored Services
 230 Blackfriars Road
 London
 SE1 8NW



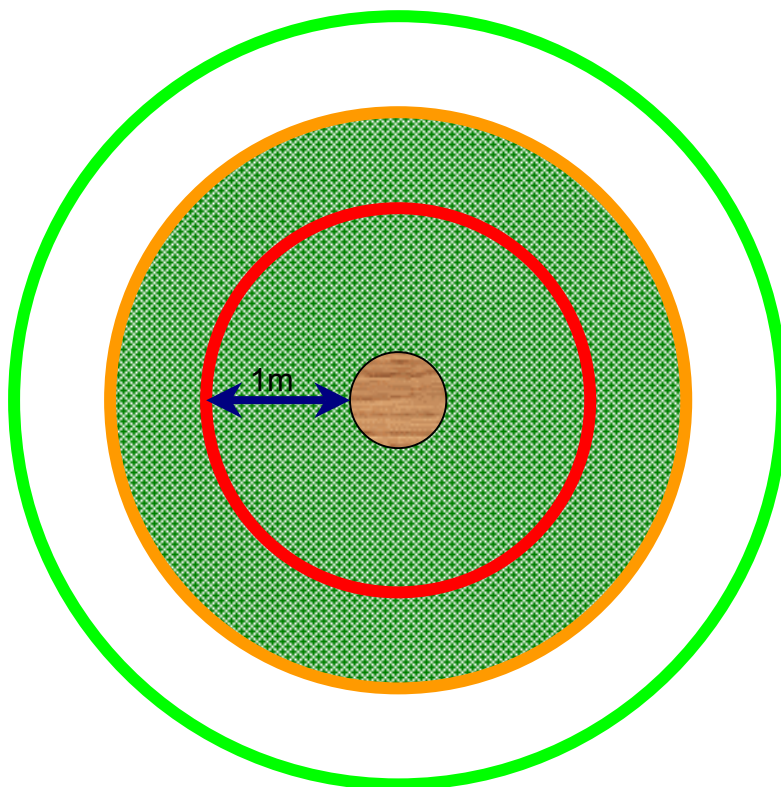
Project
 SANTANDER CYCLES

Drawing Title
 CONSTRUCTION DRAWING
 EUSTON SQUARE GARDENS
 EXPECTED NUMBER OF DOCKING POINTS - 30

Borough	CAMDEN
Site No.	CA187
Date	23/03/18
Scale	1:200 @ A3
Drn	CK
Chk	OF
App	DK
Dwg N°	02-615187-CON
Rev	
Status	FOR CONSTRUCTION

Rev	Date	Description	Drn	Chk	App

© Crown copyright and database rights 2011 Ordnance Survey 100035971

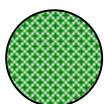


TREE PROTECTION ZONE

Key to Diagram



Trunk of Tree



Spread of canopy or branches



PROHIBITED ZONE – 1m from trunk. Excavations of any kind must not be undertaken within this zone unless full consultation with Local Authority Tree Officer is undertaken. Materials, plant and spoil must not be stored within this zone.



PRECAUTIONARY ZONE – 4 x tree circumference. Where excavations must be undertaken within this zone the use of mechanical excavation plant should be prohibited. Precautions should be undertaken to protect any exposed roots. Materials, plant and spoil should not be stored within this zone. Consult with Local Authority Tree Officer if in any doubt.



PERMITTED ZONE – outside of precautionary zone. Excavation works may be undertaken within this zone however caution must be applied and the use of mechanical plant limited. Any exposed roots should be protected.

DAMAGE TO TREES

Tree roots keep a tree healthy and upright. Most roots are found in the top 600mm of soil and often grow out further than the tree's height. The majority of these roots are very fine; even close to a tree few will be thicker than a pencil. Most street tree roots grow under the footway but may also extend under the carriageway. If roots are damaged the tree may suffer irreversible harm and eventually die.

PROTECTING ROOTS - DO'S and DON'TS

There are three designated zones around a tree each of which has its own criteria for working practices.

THE PROHIBITED ZONE

- Don't** excavate within this zone.
- Don't** use any form of mechanical plant within this zone
- Don't** store materials, plant or equipment within this zone.
- Don't** move plant or vehicles within this zone.
- Don't** lean materials against, or chain plant to, the trunk.
- Do** contact the local authority tree officer or owner of the tree if excavation within this zone is unavoidable.
- Do** protect any exposed roots uncovered within this zone with dry sacking.
- Do** backfill with a suitable inert granular and top soil material mix as soon as possible on completion of works.
- Do** notify the local authority tree officer or the tree's owner of any damage.

THE PRECAUTIONARY ZONE

- Don't** excavate with machinery. Where excavation is unavoidable within this zone excavate only by hand or use trenchless techniques.
- Don't** cut roots over 25mm in diameter, unless advice has been sought from the local authority tree officer.
- Don't** repeatedly move / use heavy mechanical plant except on hard standing.
- Don't** store spoil or building material, including chemicals and fuels, within this zone.
- Do** prune roots which have to be removed using a sharp tool (e.g. secateurs or handsaw). Make a clean cut and leave as small a wound as possible.
- Do** backfill the trench with an inert granular material and top soil mix. Compact the backfill with care around the retained roots. On non highway sites backfill only with excavated soil.
- Do** protect any exposed roots with dry sacking ensuring this is removed before backfilling.
- Do** notify the local authority tree officer or the tree's owner of any damage.

THE PERMITTED ZONE

- Don't** cut roots over 25mm in diameter, unless advice has been sought from the local authority tree officer.
- Do** use caution if it is absolutely necessary to operate mechanical plant within this zone.
- Do** prune roots which have to be removed using a sharp tool (e.g. secateurs or handsaw). Make a clean cut and leave as small a wound as possible.
- Do** protect any exposed roots with dry sacking ensuring this is removed before backfilling.
- Do** notify the local authority tree officer or the tree's owner of any damage.