

**Semi Mature Tree**  
Refer to co-ordinated Soft plan for species and specification. All plant material to comply with BS 3936 Part 1:1992, be obtained from a nursery certified by the HFA and transported to site in accordance with the HFA Plant Handling Guide, 1996.

**Rain bound gravel/soil to catch aperture**  
Product: Green-Tech Resin bound aggregate by Surest or similar approved. Installed in accordance with manufacturers' / engineers specification.  
**Recessed tree grille (Inlet with paving to match adjacent surface)**  
Product: GT Max-Pave tree grille (1.5 x 1.5m) by Green-Tech or similar approved.

**Tree grille foundation and fixing**  
To engineers' / manufacturers specification  
**Aeration / Surface mitigation system**  
Product: Morna Relief Piazza cast aluminium vent by Green-Tech Ltd or similar approved.  
60mm Ø relief perforated tubing loop.

**Expandable plastic collar around tree stem**  
Notes: Collar to be checked during routine maintenance visits to ensure 10 - 15mm air gap around tree and prevent damage or girdling to the trees stem.  
Resin bound gravel surround to be broken away around collar to allow expansion as required to maintain the air gap.  
**Root Director**  
Product to be confirmed  
**Paving**  
Refer to dwg. 12569B-045 for specification.  
Sub base & bedding to engineers specification.

**Base course & sub base**  
To engineers specification

**Geogrid**  
Mitograd G35/35 supplied by DeepRoot.  
Coverlap 300mm minimum at top of Cells.  
150mm minimum below backfill at base.

**Geotextile membrane**  
Polyfelt 1565 geotextile supplied by DeepRoot on compacted subgrade.

**Modular suspended pavement system**  
Silo cell 2 modular system by DeepRoot or similar approved. Installed in accordance with manufacturers specification.  
1200x cells per tree = 35m<sup>2</sup> overable soil volume per tree.

**Rootball anchoring system**  
Product: Pripilus tree anchoring system by Green-Tech Ltd. or similar approved. Installation as per manufacturers specification. Ensure that no damage is caused to the rootball when tightening guys.

**Drainage Layer**  
200mm depth of clean 40-60mm dia. washed gravel to base of free pit. Wrap drainage layer with approved geotextile prior to backfilling. Connect to storm drain for positive drainage if required (to engineers details).

**Subgrade**  
To Engineers specification

**Tree Pit**  
Sloping Ground - Maintain horizontal base and vertical sides with no less than minimum depth throughout.  
Pit bottom - Bleak up to a min depth of 250mm  
Pit sides - Scarify  
**Backfill Material**  
Trees to be backfilled to full dimensions of tree planting trench with approved topsoil to deep root specification.  
Firm backfilling material around rootball in 200mm layers, ensuring that all air pockets are eliminated. Installed in 200mm max. lifts (2 lifts per cell) and consolidated in accordance with tree cell manufacturers specification.  
**Base Layer**  
Type 1 aggregate sub base (unbound mixture) as per UK Specification for Highway Works series 800 - Clause 801 and 803 to comply with BS EN 13285 to modular suspended tree cell compacted to 95%. Connect to storm drain for positive drainage if required (to engineers details)  
**Subterranean Mitigation system**  
Product: Morna Plant System by Green-Tech Ltd or similar approved.  
Installation as per manufacturers specification.

01 TYPICAL SECTION THROUGH TREE PLANTING TRENCH 1:20

02 TYPICAL TREE PLANTING TRENCH ARRANGEMENT 1:100

Project No	South Shields Interchange	Client	Muse Developments / Nexus / STC
Location	Keppel Street / Fowler Street South Shields	Status	FOR PLANNING
Scale	As Shown	Drawn by	AS
Drawn by	JA	Checked by	AS
Date	05/15	Scale	A1

202/2015  
Drawing No: V12569B D01A  
Drawing Title: Tree Planting In Hard-Detail Footpath Trees  
Location: South Shields Interchange



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