

MSP Bruntwood

GREENHEYS Landscape

Materials Matrix

Landscape Specification

P02 Issue

Revision	Comment	Prepared by	Checked by	Date
P02	Amendments to some product information	// AV //	JF	// 04.04.23
P01	First Issue	// AV //	JF	// 24.02.23

Report Number: GRE-BDP-01-XX-SP-L-0001

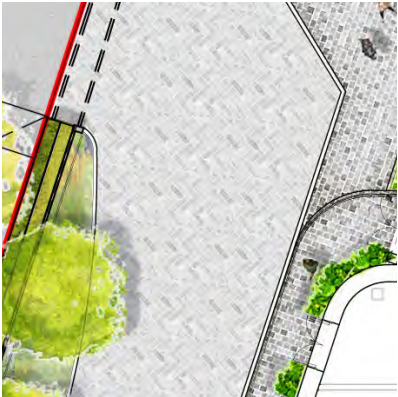
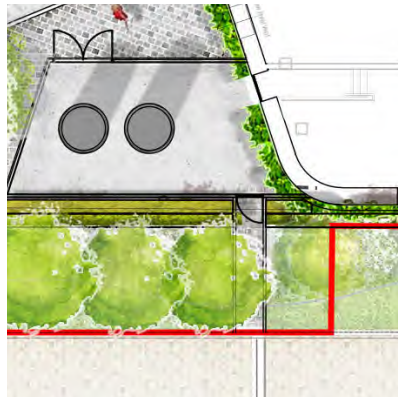
Project - Greenheys Development

Stage 3 - Planning Submission: External works Materials Matrix/ Specification

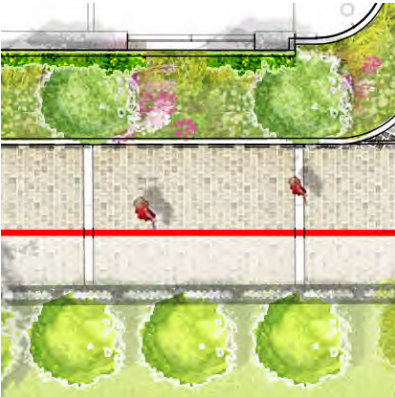
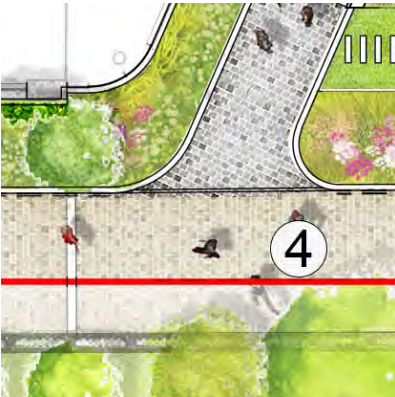
HARD LANDSCAPE MATERIAL

ITEMS		MASTERPLAN LOCATION	PRODUCT REFERENCE
KELLEN PAVING, WARM TONES - MAIN SPINE WALKWAY - occasional vehicle access 			Supplier: Hardscape or similar approved Product: Kellen Liscio/ Breccia Colour: Light colour blend: 15% Liscio Bianco 28% Breccia Bianco 28% Breccia Rosso 28% Breccia Alpi Sizes: 150 x 300mm x 80mm Thickness of stone to be verified by manufacturer and engineer. To be laid on a flexible sand bed. Close butted 2mm joint. Kiln dried silica sand brushed into joints. Installation in accordance with Hardscape instructions.
KELLEN PAVING, GREY BLEND - CIRCULATION ROUTES - occasional vehicle access 			Supplier: Hardscape or similar approved Product: Kellen Breccia - To be laid as permeable paved system with 'drain joint' Colour: Mid grey blend: 40% Tagenta B, 30% Tagenta E, 30% Alpi Size: 150 x 300mm x 1000mm Thickness of stone to be verified by manufacturer and engineer. To be laid on a permeable sand bed, with Hardscape 'drain joint' between long paving joints, to Engineer's specification and Manufacturer's installation instructions.
KELLEN MAGMA NATURAL GRANITE - MAIN ENTRANCE PIAZZA PAVING - occasional vehicle  warm tones example of pattern similar to proposed			Supplier: Hardscape or similar to be approved Product: Magma granite natural stone Colour: Warm buff colour Size: 150 x 600mm x 120mm Thickness of stone to be verified by supplier. Rigid construction over concrete base. Mortar bed and joints.. Installation in accordance with Hardscape instructions. Bespoke pattern in accordance with BDP detail drawing.

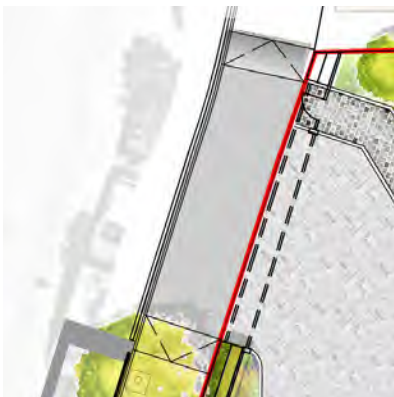
HARD LANDSCAPE MATERIAL

ITEMS	MASTERPLAN LOCATION	PRODUCT REFERENCE
SERVICE YARD CONCRETE BLOCK PAVING - regular vehicle access 		Supplier: Tobermore or similar approved Product: City Pave VS5 (Concrete block paving) Colour: Mid Grey Size: 150 x 300 x 100mm Herringbone pattern Thickness of stone to be verified by manufacturer and engineer. To be laid on a rigid concrete bed with mortar joints. Expansion joints/ movement joints to engineers details.
CONCRETE TO NITROGEN TANK STORE 		Product : In situ concrete for nitrogen tank store, to engineers details.
GRANITE STEPPING STONES 		Product: Granite stepping stones Colour: White 'Mist' Supplier: Hardscape or similar approved Size: 300 x 900 x 120mm planks. Depth of stone to be determined by supplier. Laid on compacted sub base and mortar bed

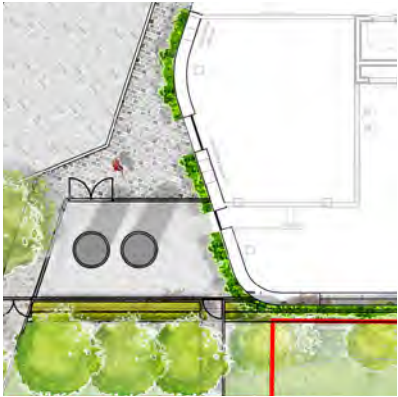
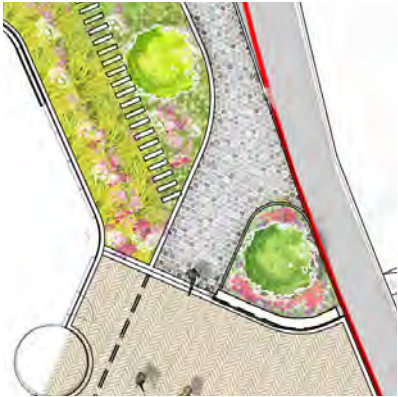
HARD LANDSCAPE MATERIAL

ITEMS	MASTERPLAN LOCATION	PRODUCT REFERENCE
FEATURE BANDING_MAIN WALKWAY (REF: 'FB') 		Supplier: Hardscape or similar approved Product: Granite 'Bush Hammered' Colour: White mist Size: 300 x 600 x 120mmmm Flame textured Laid on compacted sub base & mortar bed
MAGMA NATURAL STONE GRANITE PAVING -FIRST FLOOR TERRACE 		Supplier: Hardscape or similar approved Product: Magma natural stone granite paving Colour: Warm Buff colour Size: 400 x 600 x 80mm Depth of stone to be verified by supplier Laid on Pedestals
LINEAR DRAINS TO PEDESTRIAN AREAS (REF: 'LD')  		Product : Slot drains and channel drains within public realm Size(s) to engineer's details Supplier: Engineer's specification

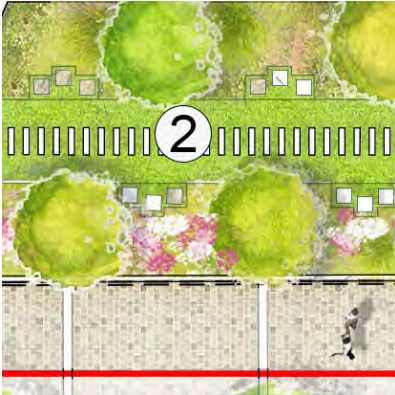
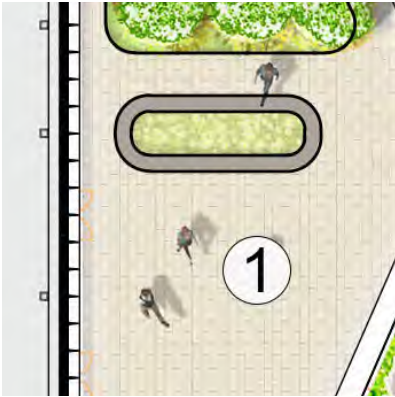
HARD LANDSCAPE MATERIAL

ITEMS	MASTERPLAN LOCATION	PRODUCT REFERENCE
UPSTAND PRE-CAST CONCRETE KERB 125mm (REF: K1) 		Supplier: Marshalls to BS EN 1340 or similar approved Product: Pre-cast Concrete Kerb British Standard Half battered Kerb laid as 125mm upstand Size: 125 x 150 x 915mm Full cement mortar bedding with close butted 2mm joint. Concrete hauncing to engineers details. Special units: Radius kerbs to be used to obtain smooth curves on radii of 15m or less. Corner units to be used, mitre joints not permitted.
DROP KERB (REF: DK) 		Supplier: Marshalls to BS EN 1340 or similar approved Product: Pre-cast Concrete Drop Kerb British Standard Size: 125 x 150 x 915mm Full cement mortar bedding with close butted 2mm joint. Concrete hauncing to engineers details. Special units: Radius kerbs to be used to obtain smooth curves on radii of 15m or less. Corner units to be used, mitre joints not permitted.
FLUSH PRE-CAST CONCRETE KERBS 125mm WIDE (REF: K2) 		Supplier: Marshalls to BS EN 1340 or similar approved Product: Pre-cast Concrete Kerb British Standard Bullnosed Kerb laid as flushed Size: 125 x 150 x 915mm Full cement mortar bedding with close butted 2mm joint. Concrete hauncing to engineers details. Special units: Radius kerbs to be used to obtain smooth curves on radii of 15m or less. Corner units to be used, mitre joints not permitted.

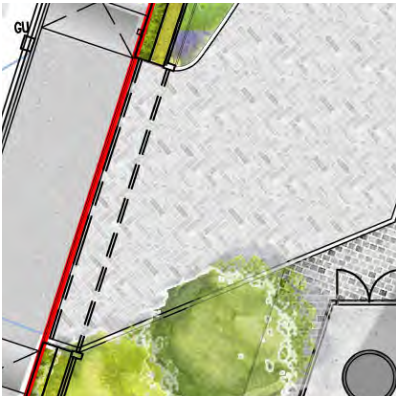
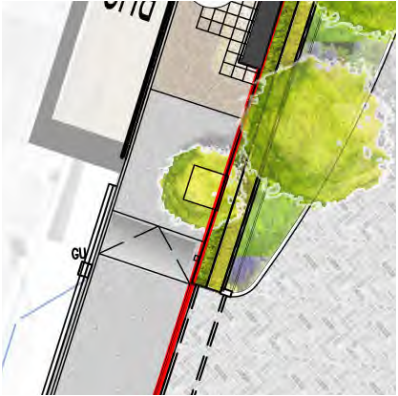
HARD LANDSCAPE MATERIAL

ITEMS	MASTERPLAN LOCATION	PRODUCT REFERENCE
CONCRETE PIN KERB EDGING 50mm WIDE (REF: K3) 		Supplier: Marshalls or similar approved Product: Concrete 50mm edge Size: 50 x 150mm x 900mm Full cement mortar bedding with close butted joint. Concrete haunching to engineers details. Special units: Radius kerbs to be used to obtain smooth curves on radii of 15m or less. Corner units to be used, mitre joints not permitted.
WHITE GRANITE FLUSH CHANNEL 100mm WIDE (REF: K4) 		Supplier: Hardscape or similar approved Product: Granite flush channel Colour: White 'Mist' (bush hammered) Size: 100 x 600 x 150mm Full cement mortar bedding with close butted joint. Concrete haunching to engineers details. Special units: Radius kerbs to be used to obtain smooth curves on radii of 15m or less.
FLUSH STONE KERBS 200mm WIDE (REF: K5) 		Supplier: Hardscape or similar approved Product: Granite flush kerb Colour: Silver grey 'Classic' (flamed) Size: 200 x 900mm Supplier: Hardscape or similar approved Thickness of stone to be determined by engineer. Special units: Radius kerbs to be used to obtain smooth curves on radii of 15m or less.

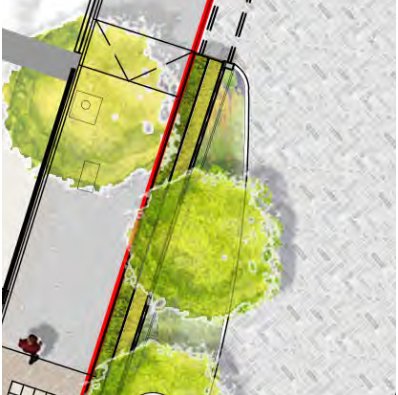
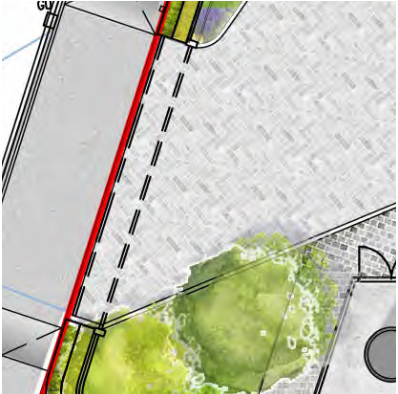
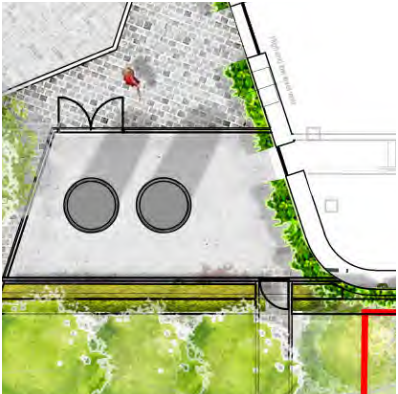
SITE/STREET FURNITURE/EQUIPMENT

ITEMS	MASTERPLAN LOCATION	PRODUCT REFERENCE
MAGMA GRANITE SEAT CUBES (REF: S1) 		Supplier: Hardscape or similar approved Product: Granite Stone Seat Cube with recessed base/shadow gap Colour: Magma granite Nominal size: 500 mm Cube Base to Engineer's details
FEATURE SEAT WALL TO MAIN PIAZZA (REF: S2) 		Supplier: Hardscape or similar approved Product : Granite 'Magma' feature seat wall To include: Anti-skate deterrents and feature lighting Bespoke skateboard deterrent: To Hardscape's recommendation, using spiggot fixing detail to minimise risk of being removed. Size: Custom Designed Integrated lighting to Engineers Details Note: Stone to be cut from a continuous seam, to ensure marbling pattern within stone continues along the full length of the bench
RAISED PLANTERS WITH TIMBER TOP (REF: S3) - TERRACE 		Supplier: Kinley or similar approved Product: Bespoke metal / timber benches Height: 450mm with raised central area for tree planting to 850mm Hardwood timber top, Iroko or similar approved. Integrated lighting Final colour to be agreed

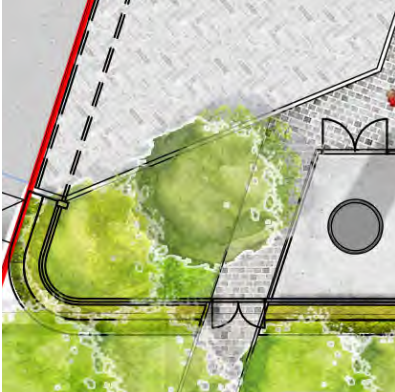
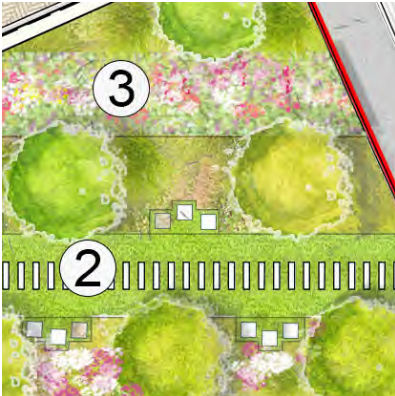
SITE/STREET FURNITURE/EQUIPMENT

ITEMS	MASTERPLAN LOCATION	PRODUCT REFERENCE
LIGHTING COLUMNS AND BOLLARDS 		Product: Lighting bollards and columns (to match bollard lighting at Bright and BASE Buildings) Colour: Dark Grey. RAL TBC. RAL: TBC Refer to Lighting Design Proposals Supplier: To engineers specification
UPLIGHTING AND SEAT WALL LIGHTING 		Products: Refer to Silcock Leedham Lighting Design Refer to Lighting Design Strategy for luminaire types, equipment and achieved lux levels Supplier: to engineers specification
TREE IN PERMEABLE RESIN BOUND GRAVEL AND PIN KERB (REF: TG) 		Product: Permeable resin bound gravel, by Sureset or similar approved Tree surround: In accordance with Local Authority / Highways specification Size: 1200 x 1200mm

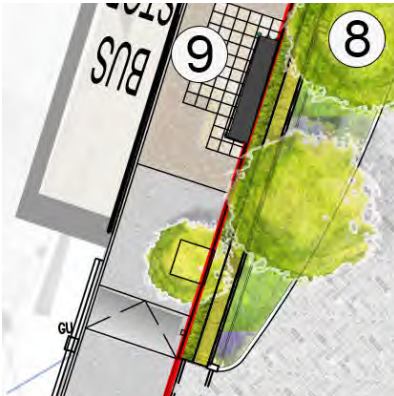
SITE/STREET FURNITURE/EQUIPMENT

ITEMS	MASTERPLAN LOCATION	PRODUCT REFERENCE
2.4m VERTICAL BAR RAILING FENCE AND GATE (REF: 'F') 		Product : Rimini Vertical Railing fence Height: 2400mm Colour: Black Supplier: Lang and Fulton or similar approved
2.4m SLIDING GATE (REF: 'SG') 		Product : Sliding bespoke cantilever gate to match fence Height:2400mm Colour: Black Supplier: Proctercontracts or similar approved
2.4m VERTICAL LOUVER BAR RAILING TO LIQUID NITROGEN STORE 		Product : Italia 80 Vertical Louvered bar railing Height: 2400mm Colour: Green Supplier: Lang and Fulton or similar approved

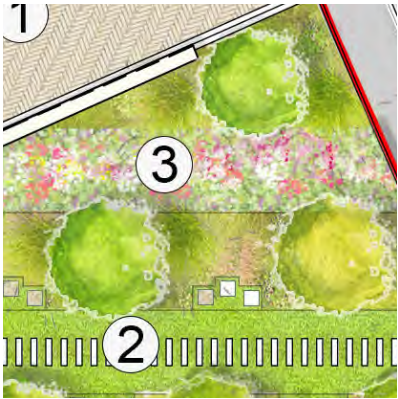
SOFT LANDSCAPE

ITEMS	MASTERPLAN LOCATION	PRODUCT REFERENCE
MATURE TREES - IN SOFT LANDSCAPE 		30-35cm Girth mature trees planted Tree pit: Refer to Tree pit Typical Details drawing for further information: GRE-BDP-ZZ-XX-DR-L-00-601 Tree Mulch (soft landscaping): ‘Mini Pine Mulch’ size 3 -18mm Supplier: Melcourt, www.melcourt.co.uk, 01666 502711) Backfill: Well mixed 45% appropriate pH topsoil, 45% soil conditioner, 10% river sand, 5kg/m³ slow release fertilisation, 2 year formulation and ameliorant
SEMI-MATURE TREES 		16-18cm / 20-25cm semi-mature trees Tree Pit: Refer to Tree pit Typical Details drawing for further information: GRE-BDP-ZZ-XX-DR-L-00-601 Tree Mulch (soft landscaping): ‘Mini Pine Mulch’ size 3 -18mm, s Supplier: Melcourt, www.melcourt.co.uk, 01666 502711 Backfill: Well mixed 45% appropriate pH topsoil, 45% soil conditioner, 10% river sand, 5kg/m³ slow release fertilisation, 2 year formulation and ameliorant Relocated trees: existing trees to be lifted carefully and re-planted where specified, to be the same as planting specification for new trees (see drawings referenced).

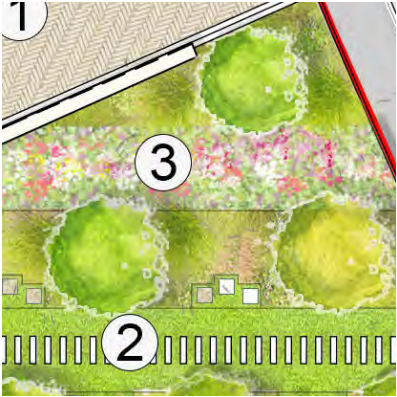
SOFT LANDSCAPE MATERIAL

ITEMS	MASTERPLAN LOCATION	PRODUCT REFERENCE
MULTI-STEM TREES TO ROOF TERRACES 		Tall 3-5 breaks multi-stemmed trees Tree Pit: 1m x 1m x 900mm depth Refer to Tree pit Typical Details drawing for further information: GRE-BDP-ZZ-XX-DR-L-00-601 Tree Mulch (soft landscaping): ‘Mini Pine Mulch’ size 3 -18mm Supplier: Melcourt, www.melcourt.co.uk, 01666 502711 Backfill: Well mixed 45% Lightweight topsoil, 45% soil conditioner, 10% river sand, 5kg/m³ slow release fertilisation, 2 year formulation and ameliorant
HEDGE PLANTING 		Double height hedge at boundary's to be maintained as following: Lower hedge - 0.9m to 1.0m tall Tall hedge for screening -1.4m to 1.5m tall Supplier: Instahedge.com, or similar approved. Backfill: 600mm deep, well mixed 45% appropriate pH topsoil, 45% soil conditioner, 10% river sand, 5kg/m³ slow release fertilisation, 2 year formulation and ameliorant. Mulch (soft landscaping): 50mm deep. ‘Mini Pine Mulch’ size 3 -18mm, see (9-) L701 for specific details Supplier: Melcourt, www.melcourt.co.uk, 01666 502711

SOFT LANDSCAPE

ITEMS	MASTERPLAN LOCATION	PRODUCT REFERENCE
ORNAMENTAL SHRUBS 		Ornamental shrubs to be planted in densities of 5- 7No./m2 at 30% of planting areas. Backfill: 450mm deep, well mixed 45% appropriate pH topsoil, 45% soil conditioner, 10% river sand, 5kg/m^3 slow release fertilisation, 2 year formulation and ameliorant. Mulch (soft landscaping): 50mm deep. ‘Mini Pine Mulch’ size 3 -18mm, Supplier: Melcourt, www.melcourt.co.uk, 01666 502711
ORNAMENTAL HERBACEOUS AND GRASS PLANTING 		Mix of low maintenance perennial meadow style planting featuring long grasses, herbaceous plants and ferns dependent on aspect Backfill: 450mm deep, well mixed 45% appropriate pH topsoil, 45% soil conditioner, 10% river sand, 5kg/m^3 slow release fertilisation, 2 year formulation and ameliorant Mulch: (soft landscaping): ‘Mini Pine Mulch’ size 3 -18mm Supplier: Melcourt, www.melcourt.co.uk, 01666 502711

SOFT LANDSCAPE

ITEMS	MASTERPLAN LOCATION	PRODUCT REFERENCE
BULBS 		Large / medium sized bulbs to be planted, species to include but not limited to Narcissus, Iris, Hyacinthoides etc. Planting and specification to be determined at time of planting and whether supplied as bulbs or potted plants.

ADDITIONAL NOTES

• All trees and plants shall be obtained from one of the sources identified in the categories listed below, or alternatives submitted for approval by Landscape Architect.

• Trees

To BS 4043, sizes and other criteria as scheduled

Supplier(s):

- Deepdale Nurseries Ltd, Tel: 01767 262636
- Specimen Trees, Tel: 01925 755204
- Barcham Trees, Tel: 01353 720748
- Hillier Nurseries Ltd, Tel: 01794 368733
- Wykeham Johnsons Trees, Tel: 01423 330 234
- Wyvale Nurseries, Tel: 01432 352255

Client to confirm number of years for tree replacement, following Practical Completion.

NOTE:

All topsoil to be clean imported topsoil to BS3882.

Minimum soil depths:

Trees: 1m

Hedges / Specimen shrubs: 600mm

Shrubs and planting: 450mm

Grass: 150mm topsoil above clean graded 150mm subsoil.

NOTE:

Root barrier to be incorporated into side of tree pits where planted within 3m of service or foundation.

Product: 'Re-Root 2000'

Supplier: Green Blue Urban or similar approved.

• Shrubs and herbaceous plants

To BS 4043, sizes and other criteria as scheduled

Supplier(s):

- Specimen Trees, Tel: 01925 755204
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- Johnsons of Whixley, Tel: 01423 330234
- Notcutts Nurseries Ltd, Tel: 01394 383344
- Hillier Nurseries Ltd, Tel: 01794 368733

• Bulbs:

To: BS 3936-9, sizes and other criteria as scheduled

- J Parker Dutch Bulbs, Tel: 0161 848 1100 or similar approved

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