

Manchester Metropolitan University - Public Realm, Phase 1A

Planning Condition 9 - Landscape Details



All Saints Park - Illustrative visual

Landscape Masterplan

General Arrangement



CONDITION 9

The following documents outlines information for Phase 1A of the MMU campus landscaping proposals. The below information is outlined:

- Hardworks details
- Softworks details
- Tree planting strategy
- Biodiversity enhancements
- Street furniture details
- Cycle parking locations
- Lighting

REFER TO BELOW DRAWINGS IN CONJUNCTION WITH THIS DOCUMENT:

1958-PLA-01A-XX-DR-L-1000-HARDWORKS

1958-PLA-01A-XX-DR-L-1001-KERBS & EDGINGS

1958-PLA-01A-XX-DR-L-2000-SOFTWORKS

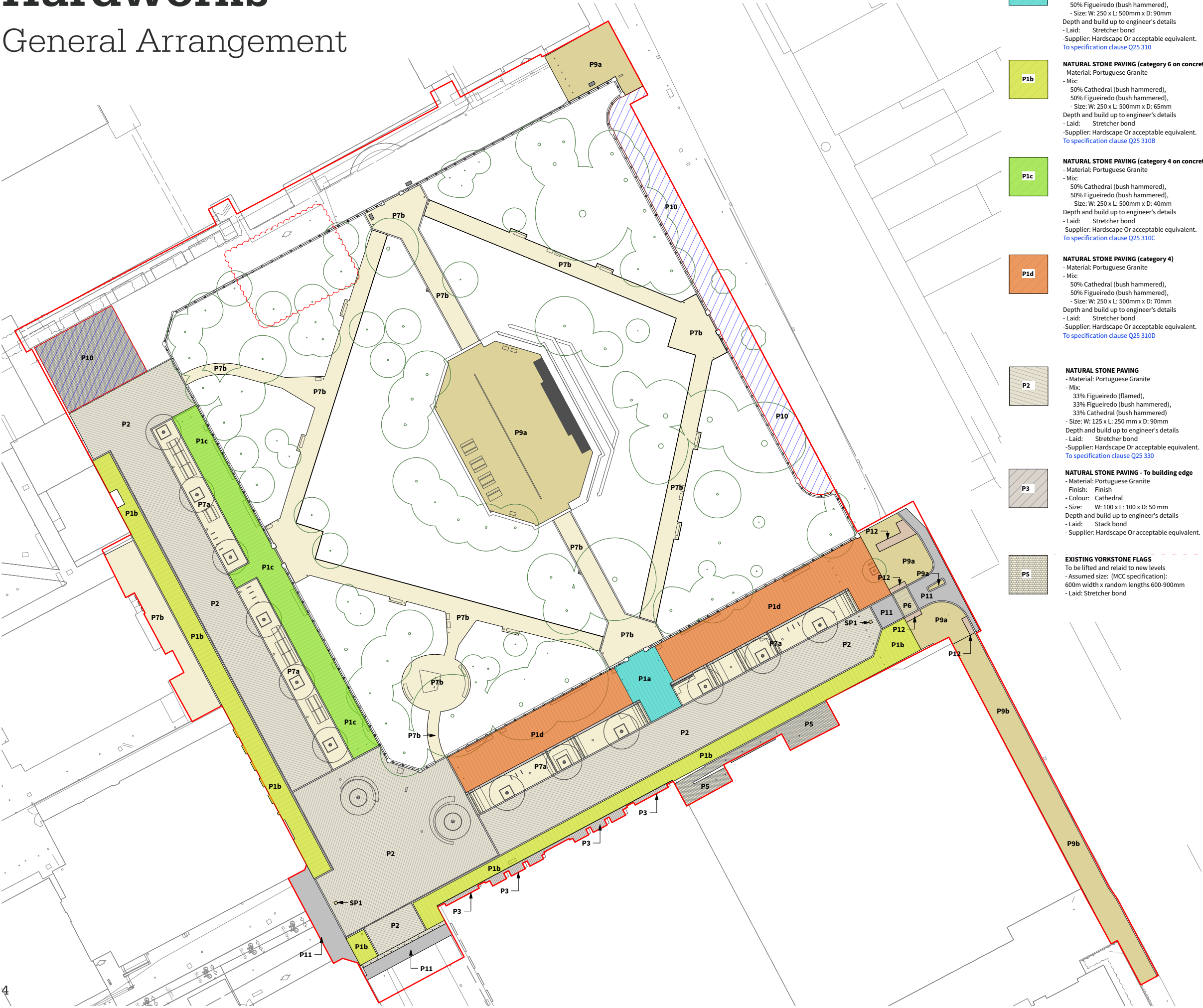
1958-PLA-01A-XX-DR-L-4000-FURNITURE AND LIGHTING

Hardworks

REFER TO DRAWING 1958-PLA-01A-XX-DR-L-1000-HARDWORKS

Hardworks

General Arrangement



NATURAL STONE PAVING (category 5)
- Material: Portuguese Granite
- Mix:
 50% Cathedral (bush hammered),
 50% Figueiredo (bush hammered),
 - Size: W: 250 x L: 500mm x D: 90mm
Depth and build up to engineer's details
- Laid: Stretcher bond
- Supplier: Hardscape Or acceptable equivalent.
[To specification clause Q25 310](#)



NATURAL STONE PAVING (category 6 on concrete)
- Material: Portuguese Granite
- Mix:
 50% Cathedral (bush hammered),
 50% Figueiredo (bush hammered),
 - Size: W: 250 x L: 500mm x D: 65mm
Depth and build up to engineer's details
- Laid: Stretcher bond
- Supplier: Hardscape Or acceptable equivalent.
[To specification clause Q25 310B](#)



NATURAL STONE PAVING (category 4 on concrete)
- Material: Portuguese Granite
- Mix:
 50% Cathedral (bush hammered),
 50% Figueiredo (bush hammered),
 - Size: W: 250 x L: 500mm x D: 40mm
Depth and build up to engineer's details
- Laid: Stretcher bond
- Supplier: Hardscape Or acceptable equivalent.
[To specification clause Q25 310C](#)



NATURAL STONE PAVING (category 4)
- Material: Portuguese Granite
- Mix:
 50% Cathedral (bush hammered),
 50% Figueiredo (bush hammered),
 - Size: W: 250 x L: 500mm x D: 70mm
Depth and build up to engineer's details
- Laid: Stretcher bond
- Supplier: Hardscape Or acceptable equivalent.
[To specification clause Q25 310D](#)



NATURAL STONE PAVING
- Material: Portuguese Granite
- Mix:
 33% Figueiredo (flamed),
 33% Figueiredo (bush hammered),
 33% Cathedral (bush hammered)
- Size: W: 125 x L: 250 mm x D: 90mm
Depth and build up to engineer's details
- Laid: Stretcher bond
- Supplier: Hardscape Or acceptable equivalent.
[To specification clause Q25 330](#)



NATURAL STONE PAVING - To building edge
- Material: Portuguese Granite
- Finish: Finish
- Colour: Cathedral
- Size: W: 100 x L: 100 x D: 50 mm
Depth and build up to engineer's details
- Laid: Stack bond
- Supplier: Hardscape Or acceptable equivalent.



EXISTING YORKSTONE FLAGS
To be lifted and relaid to new levels
- Assumed size: (MCC specification):
600m width x random lengths 600-900mm
- Laid: Stretcher bond



YORKSTONE FLAGS - to pedestrian crossing
MCC specification
Size: 300mm width x random lengths 300-450mm
x 75mm depth
- Laid: Stretcher bond
Depth and build up to engineer's details
Refer to S278 drawings for further details
[To specification clause Q25 330B](#)



PERMEABLE RESIN BOUND GRAVEL
Pedestrian access only (tree pits)
- Product: Natural aggregate paving
- Colour: Norwegian pearl
- Size: Refer to engineer's details for depth
- Supplier: SureSet Or acceptable equivalent.
[To specification clause Q23 225](#)



PERMEABLE RESIN BOUND GRAVEL
Vehicular access (paths around park)
- Product: Natural aggregate paving
- Colour: Norwegian pearl
- Size: Refer to engineer's details for depth
- Supplier: SureSet Or acceptable equivalent.
[To specification clause Q23 225A](#)



RELOCATED YORKSTONE FLAGS
Existing yorkstone flags to pavements lifted and
relaid in new location.
- Assumed size: (MCC specification):
600mm width x random lengths 600-900mm
- Laid: Stretcher bond
Depth and build up to engineer's details



PROPOSED YORKSTONE FLAGS
Proposed yorkstone flags to Oxford Road Pavement
- Assumed size: (MCC specification):
600mm width x random lengths 600-900mm
- Laid: Stretcher bond
[Refer to S278 information](#)



EXISTING SURFACE RETAINED



HRA SURFACING
To interface areas - refer to engineer's details.



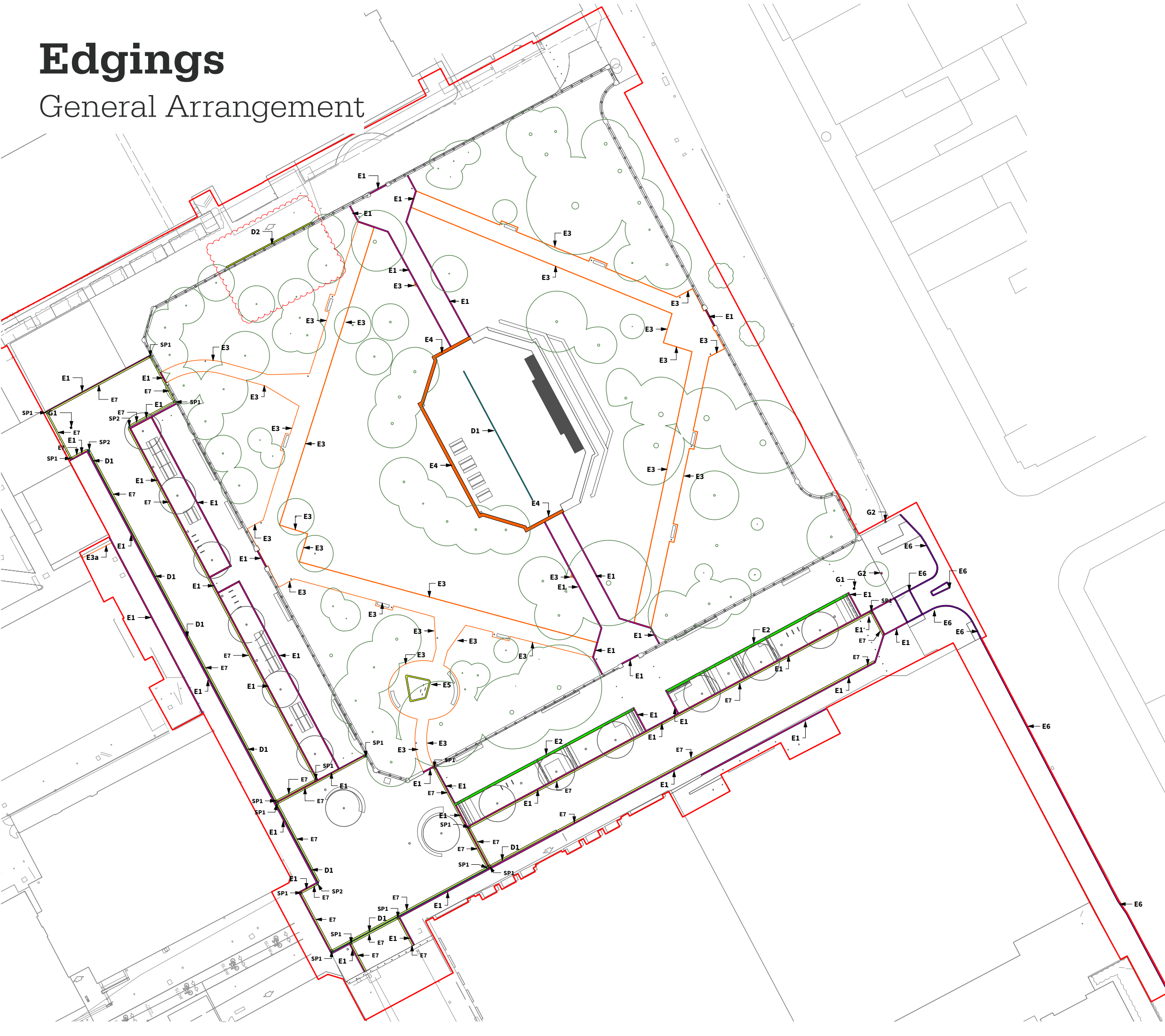
TACTILE PAVING
To MCC's specification
Size: 400x400mm
Colour: red
[Refer to S278 information](#)



SPECIAL SHARDED CYCLE UNIT
Pavement Signs Specials
Material: Portuguese granite
Colour: Silva Preta venato
Finish: Bush hammered,
signs to be waterjet cut out
Dimensions: 500mm x 510mm x 80mm
to specification clause Q25/322J
Depth and build up to engineer's details
Refer to drawing 1958-PLA-01A-XX-DR-L-5007
[To specification clause Q25 310A](#)

Edgings

General Arrangement



EDGING



NATURAL STONE CHANNEL
- Material: Portuguese Granite
- Colour: Figueiredo (bush hammered),
- Size: W: 200 x L: 1000mm x D: 200mm
- Laid: Flush
Depth TBC by engineer
-Supplier: Hardscape Or acceptable equivalent.
Refer to drawing: 1958-PLA-01A-XX-DR-L-5000
[To specification clause Q10 120](#)



NATURAL STONE KERB EDGE
- Material: Portuguese Granite
- Colour: Silva Preta venato (bush hammered)
- Size: W: 300 x L: 1000 mm x D: 250mm
Depth TBC by engineer
- Laid: 125mm upstand
-Supplier: Hardscape Or acceptable equivalent.
Refer to drawing: 1958-PLA-01A-XX-DR-L-5001
[To specification clause Q10 120A](#)



GRANITE PIN KERB EDGING
To outer park paths and Grosvenor building interface
- Colour: Figueiredo (bush hammered),
- Size: W: 50 x L: 1000mm x D: 150mm
- Laid: Flush
Depth TBC by engineer
-Supplier: Hardscape Or acceptable equivalent.
Refer to drawing: 1958-PLA-01A-XX-DR-L-5004 and 5008 for radii requirements



NATURAL STONE INTERPRETIVE CHANNEL
To central space in All Saints Park
- Material: Portuguese Granite
- Colour: Silva Preta venato (bush hammered)
- Size: W: 500mm x L: 1000mm x D: 200mm
- Laid: Flush
- To include allowance for Etched and Sand-Blasted 'proud' design.
Refer to 1958-PLA-01A-XX-DR-L-5009
-Supplier: Hardscape Or acceptable equivalent.
Refer to drawing: 1958-PLA-01A-XX-DR-L-5009
[To specification clause Q10 120B](#)



NATURAL STONE RAISED PLANTER EDGE
- Material: Portuguese Granite
- Colour: Silva Preta venato (bush hammered)
- Size: W: 200 x L: 1000 mm x D: 250mm
Depth to be confirmed by engineer
- Laid: 100mm upstand
Refer to 1958-PLA-01A-XX-DR-L-5010
- Supplier: Hardscape Or acceptable equivalent.
Refer to drawing: 1958-PLA-01A-XX-DR-L-5010
[To specification clause Q10 120C](#)



MCC CONSERVATION KERB
- MCC specification. Refer to S278 drawings.
[To specification clause Q10 112](#)



BISHOPS HAT INTERFACE
To edge interface of 45 degree paving
- Colour: Figueiredo (bush hammered),
- Size: W: 372 x L: 236mm x D: 90mm (with triangular shape)
-Supplier: Hardscape Or acceptable equivalent.
Refer to drawing: 1958-PLA-01A-XX-DR-L-5000



BISHOPS HAT SPECIAL 1 - Internal corner
To edge interface of 45 degree paving
- Colour: Figueiredo (bush hammered),
- Size: W: 500 x L: 500mm x D: 90mm
10 no square pavers to be ordered to allow corners to be cut to size on site
- Laid: Flush
-Supplier: Hardscape Or acceptable equivalent.



BISHOPS HAT - External corner
To be cut on site from bishops hat paver



DRAINAGE CHANNEL
- Product: ACO Freestyle
- Material: Cast ductile iron grating
- Type: 'Nest' design, heel safe
- Finish: ATec corrosion resistant coating
- Size: W: 135mm
- Supplier: ACO or acceptable equivalent.
Refer to drawing: 1958-PLA-01A-XX-DR-L-5003
[To specification clause Q10 180](#)



DRAINAGE CHANNEL 2
To edge of semi circle infill area
Product: ACO multi drain
Supplier: ACO or acceptable equivalent. Sump to be placed in location of existing gully. New ACO to extend from each side.



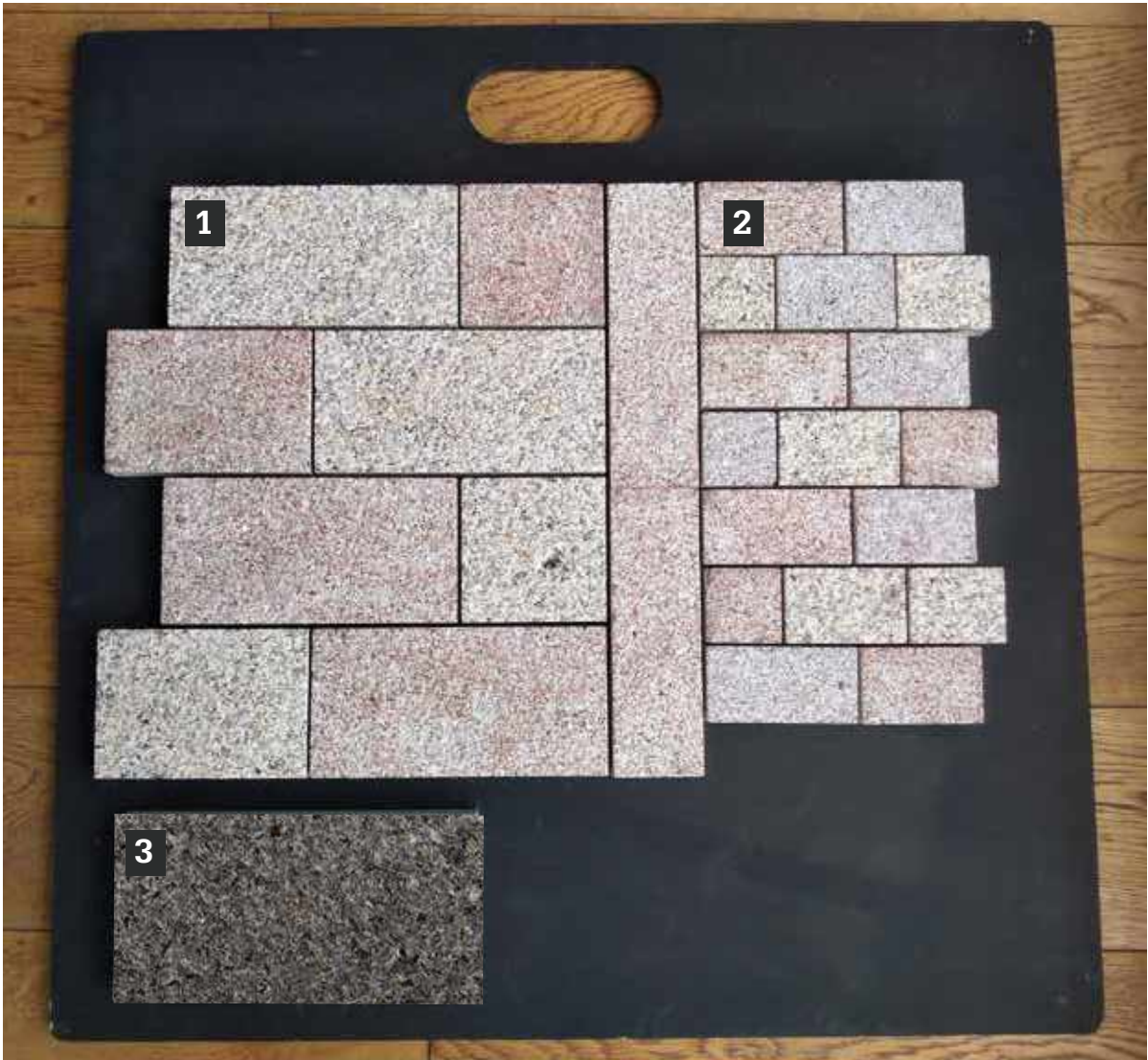
GULLY
To non adopted areas
- To engineer's specification. Load class D400, heel safe design.
- Material: Cast iron



GULLY
To adopted areas
To MCC specification. Refer to S278 drawings.

Hardworks

SAMPLE PANEL (SCALE 1:3)



1 MIX 1

2 MIX 2

3 Kerbs and edgings with an upstand
PORTUGUESE GRANITE

Colour: Silva Preta Venato
Finish: Bush Hammered

LAYING SWATCH



MIX TWO

Circulation areas



33% Figueiredo, flamed



33% Figueiredo,
bush hammered



33% Cathedral,
bush hammered

MIX ONE

Pedestrian dwell spaces



50% Figueiredo, flamed



50% Cathedral, bush hammered

Softworks

REFER TO DRAWING 1958-PLA-01A-XX-DR-L-2000-SOFTWORKS

Softworks

General Arrangement



SOFTWORKS



TREE - EXISTING RETAINED
- Subject to arboricultural management & maintenance works.
Refer to drawing:
1958-PLA-01A-XX-DR-L-0008



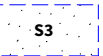
TREES - PROPOSED, SEMI MATURE
Refer to softworks schedule



PROPOSED AMENITY TURF
To areas of removed shrub planting.
Supplier: Turfgrass Growers Association (TGA) member, to TGA quality standards or acceptable equivalent.
Seed mixture: 15-30% of fine leaved rye grass and 15% smooth stalked meadowgrass.
Supplier: Professional Lawns
Product ref: Olympic Pro Turf



PROPOSED GRASS SEEDING
Existing areas made good where required due to construction works.
Supplier: Emorsgate Seeds
Product: EG22 - Strong lawn grass mixture



PROPOSED WILDFLOWER TURF
Product: WFT-Native-Enriched
Supplier: Wildflower Turf or acceptable equivalent
Bespoke species mix to be developed with MMU. Requires 12 week minimum lead in.



PROPOSED PLANTING
Density 14 per m2

TP

TREE CODE
Refer to softworks schedule

Qty	Symbol	Botanical Name	Common Name	Girth (cm)	Height (cm)	Root Type	Habit
2	Pp	Prunus padus 'Albertii'	Bird Cherry	40-45	600-700	RB	Semi mature, 2m clear stem, underground guyed 5-6x transplanted
12	Ac	Acer campestre 'Streetwise'	Field Maple	40-45	600-700	RB	Semi mature, 2m clear stem, underground guyed 5-6x transplanted
1	Cm	Crataegus monogyna	Common hawthorn		400-450	RB	Multi-stem specimen, 4x transplanted, minimum 3 strong stems, umbrella pruned

Softworks

Tree replacement Strategy



Acer campestre 'Streetwise'



Prunus padus 'Albertii'

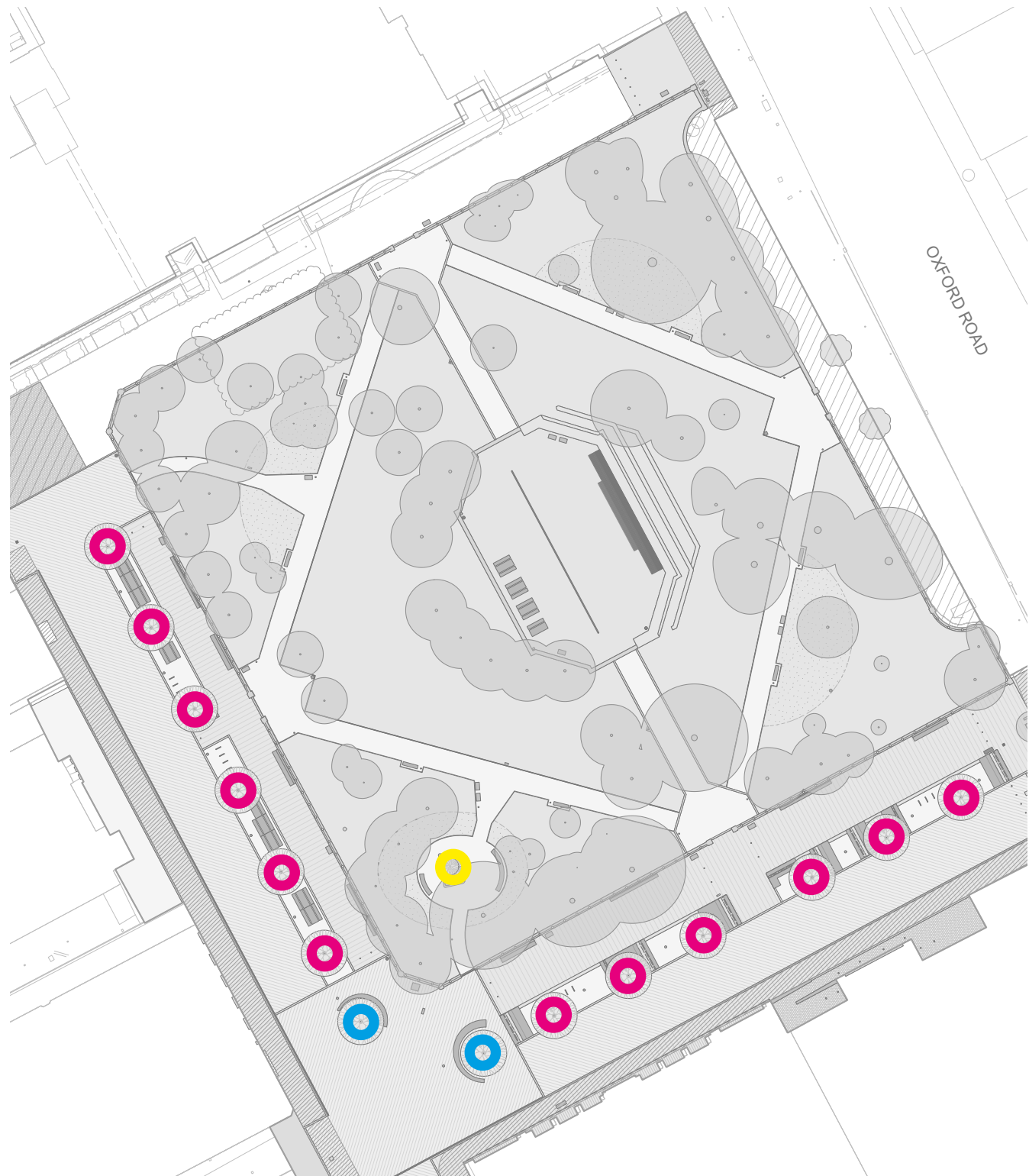


Crataegus monogyna



PROPOSED TREES

A total of 2 trees will be removed as part of this development. It is proposed that 15 semi mature trees will be planted in the new proposals. The species of these have been determined in discussion with the MMU biodiversity team to maximise the ecological value from native tree planting whilst finding cultivars that accommodate the city centre environment.



Qty	Symbol	Botanical Name	Common Name	Girth (cm)	Height (cm)	Root Type	Habit
2	Pp	Prunus padus 'Albertii'	Bird Cherry	40-45	600-700	RB	Semi mature, 2m clear stem, underground guyed 5-6x transplanted
12	Ac	Acer campestre 'Streetwise'	Field Maple	40-45	600-700	RB	Semi mature, 2m clear stem, underground guyed 5-6x transplanted
1	Cm	Crataegus monogyna	Common hawthorn		400-450	RB	Multi-stem specimen, 4x transplanted, minimum 3 strong stems, umbrella pruned

Softworks

Ongoing Tree Maintenance

MAINTENANCE OPERATION

- **Identification:** Before starting work agree which trees are to be removed or pruned
- **Protection:** Avoid damage to neighbouring trees, plants and buildings
- **Standards:** To BS 3998 and Health & Safety Executive (HSE) ‘Forestry and arboriculture safety leaflets’
- **Removing branches:** Cut as shown in Arboricultural Association Leaflet No 8 ‘Mature tree maintenance’. Cut vertical branches similarly, with no more slope on the cut surface than is necessary to shed rainwater
- **Appearance:** Leave trees with a well balanced natural appearance
- **Chain saw work:** Operatives must hold a Certificate of Competence
- **Tree work:** To be carried out by an approved member of the Arboricultural Association

ADDITIONAL WORK

- Defective, diseased, unsafe or weak parts of trees additional to those scheduled for attention: Give notice if detected.

PREVENTION OF WOUND BLEEDING

- **Standard:** To BS 3998, clause 8.

PREVENTION OF DISEASE TRANSMISSION

- **Standard:** To BS 3998, clause 9 and Appendix B.

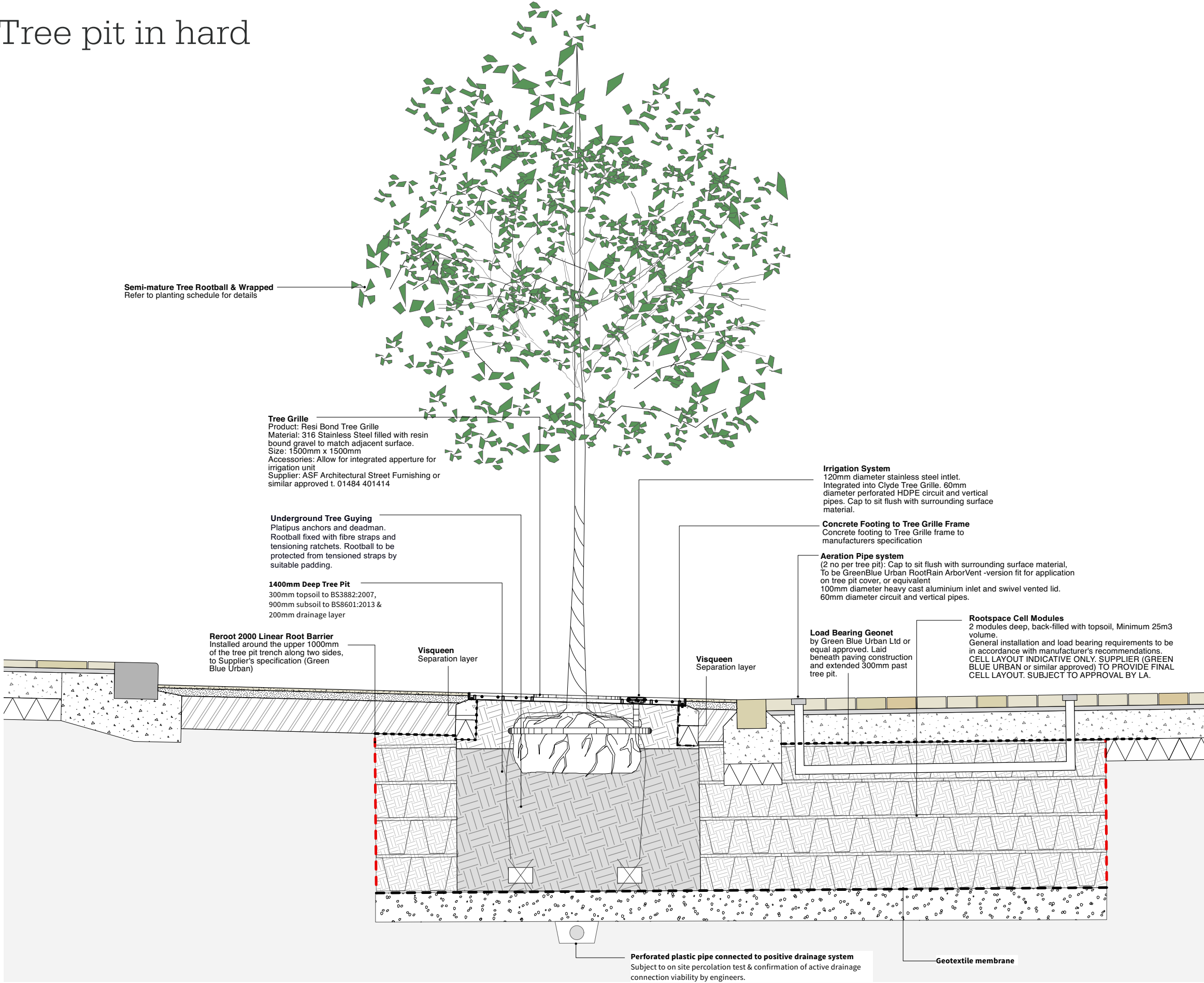
WATER RESTRICTIONS

- **General:** If water supply is, or is likely to be, restricted by emergency legislation, submit proposals for an alternative suitable source of water. Obtain instructions before proceeding.

Maintenance Operation Number	Prescription	Year (s)	Season	Frequency (per year)
	TREE PLANTING			
	Maintenance during defects liability period of 5 years after planting whichever is the greater	1 – 5	As required	2 March - September
	To establish new planting, maintain a 1m diameter weed free area around all trees within grass. Trees within self bound gravel should be maintained totally free of weeds.	1 – 5	Spring - Autumn	1
	UNDERGROUND TREE GUY WIRES			
	Inspection / maintenance times: Quarterly and after strong winds Operations: Replace or re-secure loose or missing guy wires Adjust to suit stem growth and to provide correct and uniform tension	1 – 5	Throughout year	2
	Apply granular fertiliser according to manufacturer’s recommendations	1 – 5	Spring - Autumn	Bi-annual
	Ensure trees remain firmly bedded after disturbance and re-firm as necessary	1 – 5	As required	1
	Control all pests and diseases as necessary	1 – 5	As required	To be determined
	Prune in accordance with good horticultural practice, thin, trim and shape as appropriate. Eg. Removing branches: Do not damage or tear the stem. Wounds: Keep as small as possible and cut cleanly back to sound wood. Cutting: Make cuts above and sloping away from an outward facing healthy, angled so that water will not collect on cut area. Larger branches: Prune neither flush nor leaving a stub, but using the branch bark ridge or branch collar as a pruning guide. Tools: Use clean sharp secateurs, handsaws or other approved tools. Disease of infection: Give notice if detected. Growth retardants, fungicide or pruning sealant: Do not use unless instructed			
	Prune all trees annually as needed to maintain a minimum 2.2m clear stem and desired form.	1 – 5	Autumn - early Winter	1 As required
	Watering – Regular checks using a moisture probe testing during the first two years after planting on a monthly cycle during the summer months of May-September	1 – 2	Monthly	24
	Water as necessary to ensure healthy growth	3	As required	As required
	Replace dead or damaged trees to original specification. Remove within 1 month or as soon as possible and replace within the next available planting season	1 - 5	Autumn	1
	Top up mulching to original specification annually	1 - 5	Spring	1
	Autumn LEAF REMOVAL			
	Collect accumulations of drifted leaves from the vicinity and from paved lawn area	1 - 5	Autumn/Winter	As required
	Arisings: Remove			

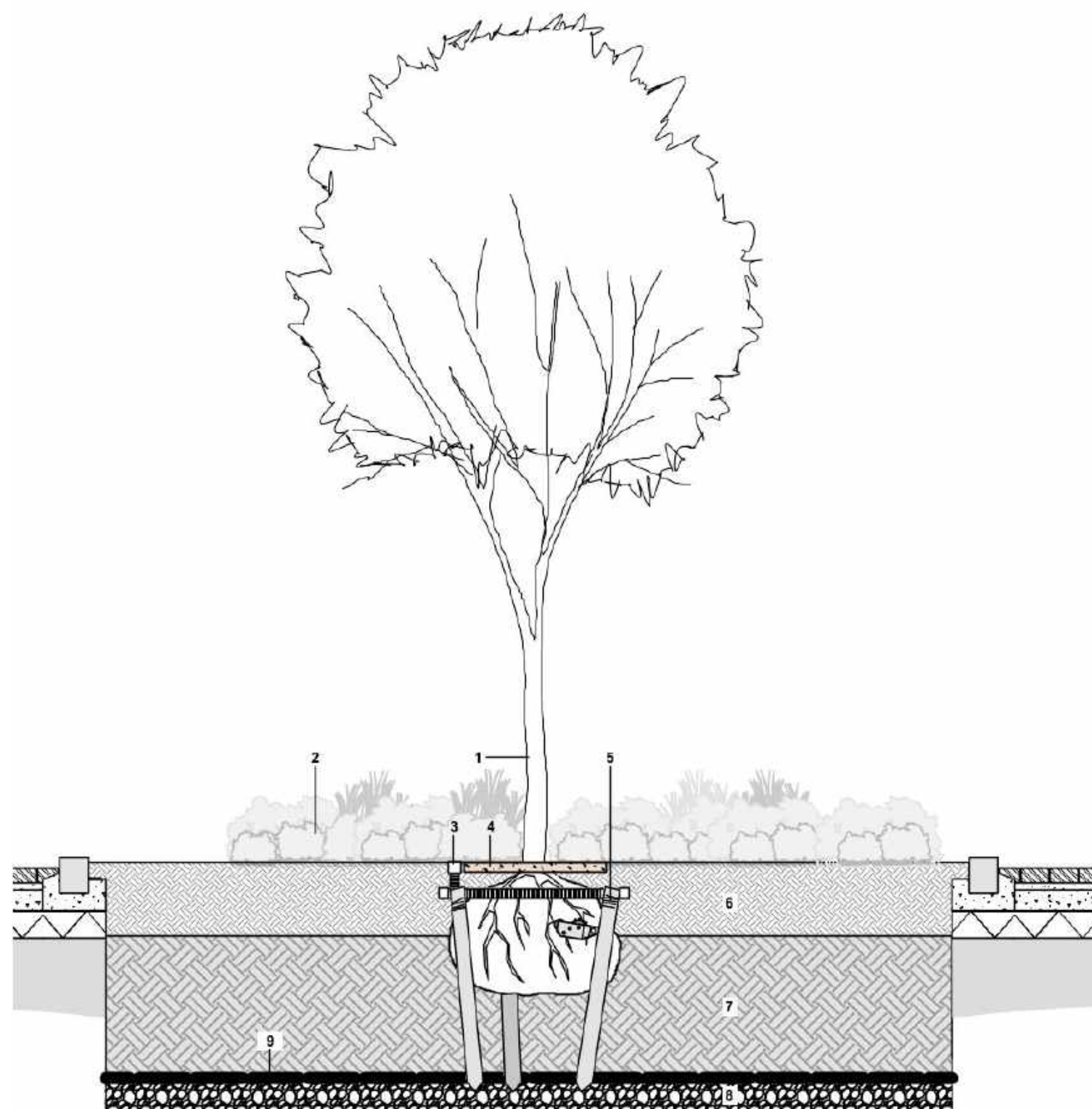
Softworks

Typical Tree pit in hard



Softworks

Typical Tree pit in soft



1. Semi-Mature Tree Rootball & Wrapped
Refer to Softworks Plan 1958-PLA-01A-XX-DR-L-2000

2. Ornamental Shrub and Herbaceous Planting
Refer to Softworks Plan 1958-PLA-01A-XX-DR-L-2000

3. Irrigation / Aeration System
RootRain Urban
Large capacity irrigation system with 80mm fixed non-removable grid inlet. Length: 5m
60mm diameter circuit and vertical pipes.

4. 75mm Bark Mulch Layer
Bark mulch to base of trees. 800mm diameter circle from base in all directions.

5. Triple staked tree anchoring
75mm diam. treated softwood stakes driven firmly into base of tree pit by min. 300mm, rootball fixed with fibre straps and tensioning ratchets. Rootball to be protected from tensioned straps by suitable padding

6. Imported Topsoil
Top half of tree pit filled with imported topsoil to 300mm minimum depth. To BS3882:2015

7. Imported Subsoil
Bottom half of tree pit filled with imported subsoil to 600mm depth. To BS8601:2013

8. Drainage Layer
200mm clean stone.
Base of tree pit trench loosened and shaped as shown to aid root penetration and pit drainage

9. ReRoot 2000 Linear Root Barrier
Installed around sides of the tree pit trench as indicated on drawing
Depth: 1500mm
Supplier to advise on thickness requirement & specification (Green Blue Urban)

10. Geotextile
Terram 2000 Membrane to base of tree pit, above drainage layer.

Softworks

Biodiversity enhancements - wildflowers

WILDFLOWER TURF

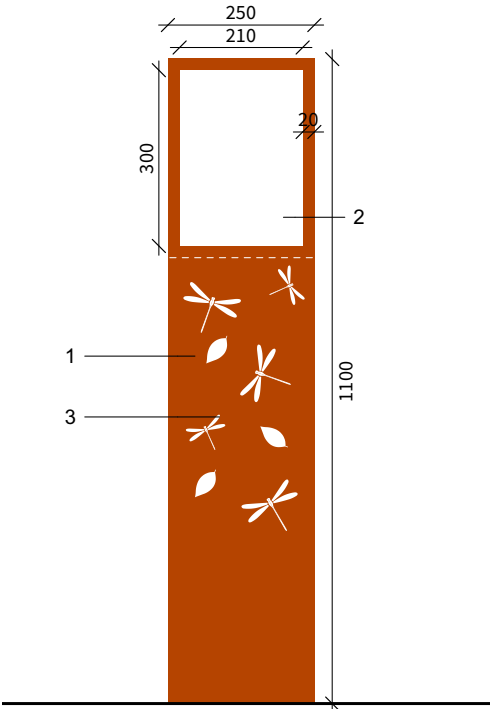
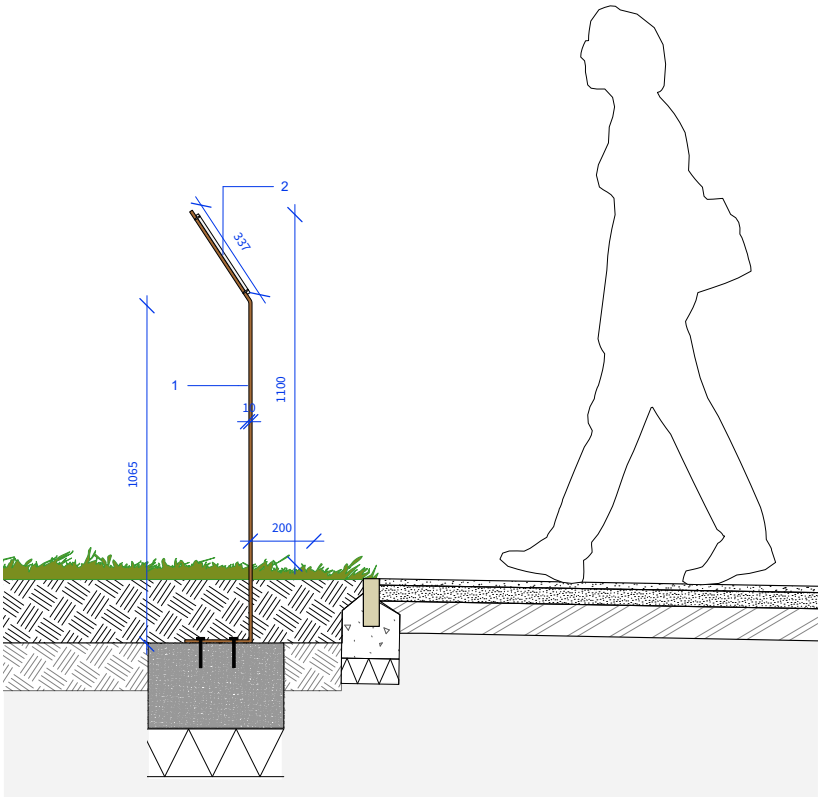
Large areas of wildflower turf planting are proposed within All Saints Park to improve the biodiversity of species and provide a much needed source of food for bees, butterflies and other pollinators. Information posts will be provided as an educational resource to explain the benefits of the planting and outline key species to look out for.

PROPOSED SPECIES MIX:

Flora:			
Autumn Hawkbit (<i>Scorzoneroides autumnalis</i>) (P)	Betony (<i>Stachys officinalis</i>) (P)	Birdsfoot Trefoil (<i>Lotus corniculatus</i>) (P)	Bladder Campion (<i>Silene vulgaris</i>) (P)
Cats Ear (<i>Hypochoeris radicata</i>) (P)	Common Knapweed (<i>Centaurea nigra</i>) (P)	Common Toadflax (<i>Linaria vulgaris</i>) (P)	Common Vetch (<i>Vicia sativa</i> ssp. <i>segetalis</i>) (A)
Cowslip (<i>Primula veris</i>) (A)	Field Scabious (<i>Knautia arvensis</i>) (P)	Kidney Vetch (<i>Anthyllis vulneraria</i>) (P)	Lady's Bedstraw (<i>Galium verum</i>) (P)
Meadow Buttercup (<i>Ranunculus acris</i>) (P)	Meadow Cranesbill (<i>Geranium pratense</i>) (P)	Meadowsweet (<i>Filipendula ulmaria</i>) (P)	Musk Mallow (<i>Malva moschata</i>) (P)
Ox Eye Daisy (<i>Leucanthemum vulgare</i>) (P)	Perforate St Johns Wort (<i>Hypericum perforatum</i>) (P)	Ragged Robin (<i>Lychnis flos-cuculi</i>) (P)	Red Campion (<i>Silene dioica</i>) (P)
Rough Hawkbit (<i>Leontodon hispidus</i>) (P)	Salad Burnet (<i>Sanguisorba minor</i>) (P)	Self-heal (<i>Prunella vulgaris</i>) (P)	Strawberry Clover (<i>Trifolium fragiferum</i>) (P)
Tufted Vetch (<i>Vicia cracca</i>) (P)	Viper's Bugloss (<i>Echium vulgare</i>) (BI)	White Campion (<i>Silene latifolia</i>) (SLP)	Wild Carrot (<i>Daucus carota</i>) (P)
Wild Marjoram (<i>Origanum vulgare</i>) (P)	Yarrow (<i>Achillea millefolium</i>) (P)	Yellow Rattle (<i>Rhinanthus minor</i>) (A)	
Naturalised flowers:			
Alpine Forget-me-not (<i>Myosotis alpestris</i>) (P)	Alpine Rock Cress (<i>Arabis alpine</i>) (P)	Baby's breath (<i>Gypsophila elegans</i>) (A)	Black Medic (<i>Medicago lupulina</i>) (P)
Blue flax (<i>Linum perenne</i>) (P)	Borage (<i>Borago officinalis</i>) (A)	Common Columbine (<i>Aquilegia vulgaris</i>) (P)	Common Corncockle (<i>Agrostemma githago</i>) (A)
Common Poppy (<i>Papaver rhoeas</i>) (A)	Cornflower (<i>Centaurea cyanus</i>) (A)	Crimson Clover (<i>Trifolium incarnatum</i>) (A)	Everlasting Flower 'Orange' (<i>Xerochrysum bracteatum</i>) (A)
Feathered Pink (<i>Dianthus plumarius</i>) (P)	Fenugreek (<i>Trigonella foenum-graecum</i>) (A)	Garden Candytuft (<i>Iberis umbellata</i>) (A)	Honesty (<i>Lunaria annua</i>) (A)
Horned Pansy (<i>Viola cornuta</i>) (P)	Kidney Vetch (<i>Anthyllis vulneraria</i>) (P)	Nodding Catchfly Campion (<i>Silene pendula</i>) (A)	Red Flax (<i>Linum annum</i>) (A)
Sainfoin (<i>Onobrychis vicifolia</i>) (P)	Siberian wallflower (<i>Cheiranthus allionii</i>) (BI/SLP)	Sweet William (<i>Dianthus barbatus</i>) (BI)	White Melilot (<i>Melilotus albus</i>) (BI)



PROPOSED WILDFLOWER TURF
Product: WFT-Native-Enriched
Supplier: Wildflower Turf or acceptable equivalent
Bespoke species mix to be developed with MMU. Requires 12 week minimum lead in.



Softworks

Biodiversity enhancements - Bat and bird boxes



PROPOSED BAT AND BIRD BOXES:



Nest Box 1B
 Material: SCHWEGLER Wood-Concrete Nest Box. Hanger: steel, galvanised.
 External Dimensions: W 17 x H 26 x D 18 cm.
 Internal Diameter: 12 cm.
 Weight: approx. 3.6 kg.
 Includes: Nest box, hanger and aluminium nail.



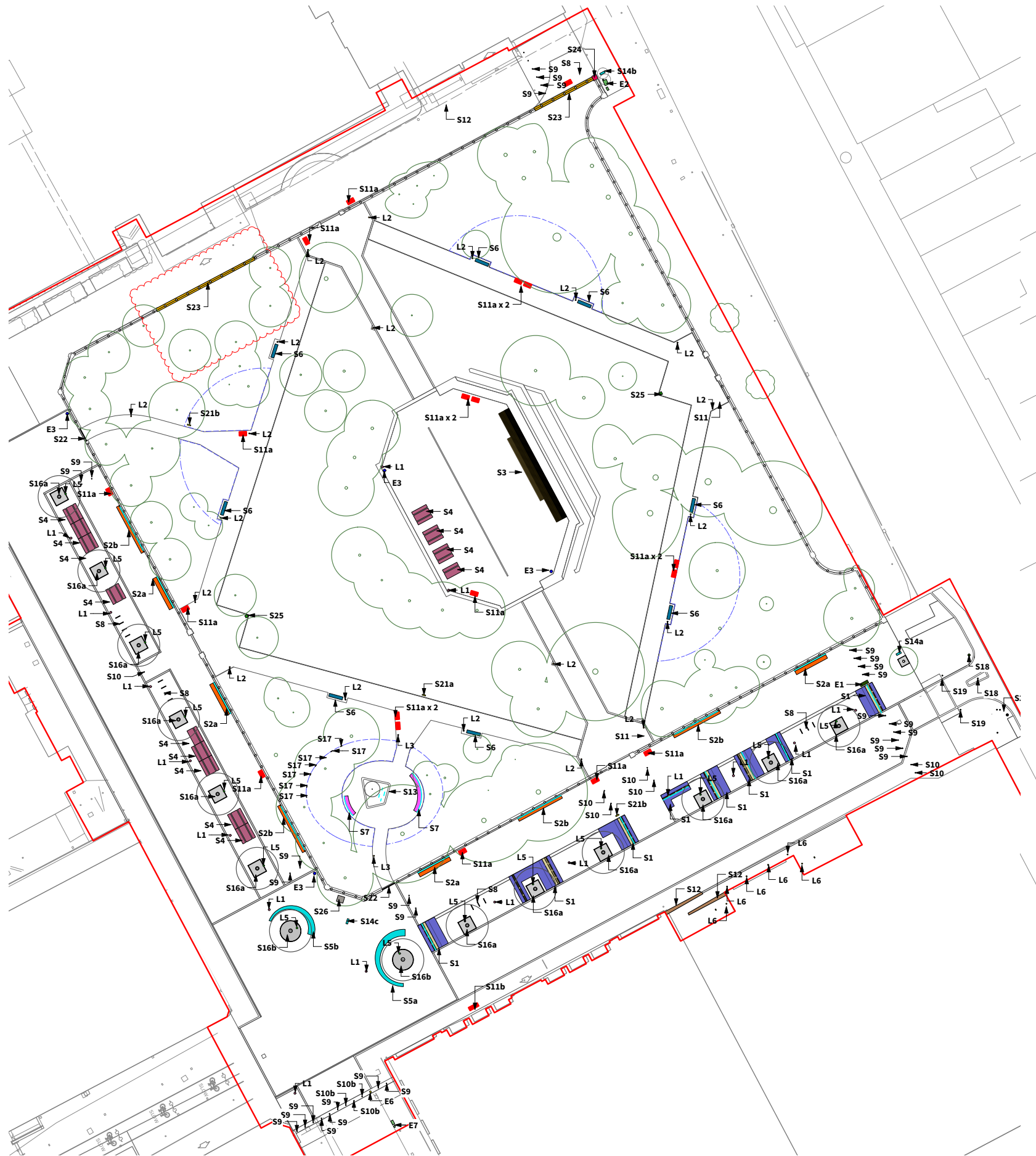
Bat Box 2F
 Material: SCHWEGLER Wood-Concrete Nest Box. Hanger: steel, galvanised.
 Fixing: To be installed in a tree minimum height 3 to 4 metres.
 External Dimensions: 16 cm.
 Height: 33 cm.
 Weight: approx. 3.8 kg.
 Includes: Nest box, hanger and aluminium nail.

Street Furniture

REFER TO DRAWING 1958-PLA-01A-XX-DR-L-4000-FURNITURE AND LIGHTING

Furniture GA

The following pages provide details of the furniture elements outlined below:

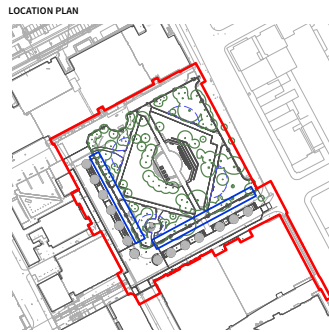


- | | | | | | |
|---|---|---|-------------|---|-------------|
|  | TREE SURROUND BENCHES
- To Cavendish Street
- Material: FSC certified 'Cumaru' hardwood timber galvanized steel frame, powder coated, Colour - Futura Mars 2525 Sable YX355F.
- Supplied: Woodscape or acceptable equivalent |  | S10 |  | S10 |
|  | WALL EDGE BENCH - HIGH BACK
- To outside edge of All Saints Park Wall
- Material: FSC certified 'Cumaru' hardwood slats on a hot dipped galvanized steel frame, powder coated, Colour - Futura Mars 2525 Sable YX355F.
Refer to drawing: 1958-PLA-01A-XX-DR-L-7003
To specification clause Q50 220 |  | S10b |  | S10b |
|  | WALL EDGE BENCH - LOW BACK
- To outside edge of All Saints Park Wall
- Material: FSC certified 'Cumaru' hardwood slats on a hot dipped galvanized steel frame, powder coated, Colour - Futura Mars 2525 Sable YX355F.
Refer to drawing: 1958-PLA-01A-XX-DR-L-7003
To specification clause Q50 220A |  | S11a |  | S11a |
|  | PLATFORM BENCH
- To centre of All Saints Park
- Material: FSC certified 'Cumaru' hardwood slats on a hot dipped galvanized steel frame, powder coated, Colour - Futura Mars 2525 Sable YX355F.
Supplier: Woodscape or similar approved
Refer to drawings: 1958-PLA-01A-XX-DR-L-7004
To specification clause Q50 226 |  | S11b |  | S11b |
|  | WORK BENCHES AND TABLES
- To Lower Ormond Street
- Material: FSC certified 'Cumaru' hardwood slats on a hot dipped galvanized steel frame, powder coated, Colour - Futura Mars 2525 Sable YX355F.
Overall dimension of bench:
Table - 2500mm(L) x 1080mm(W) x 755mm (H)
Benches - 2500mm(L) x 440mm(W) x 480mm (H)
Method of fixing: [Surface pinned into concrete foundation].
Refer to drawings: 1958-PLA-01A-XX-DR-L-7005
To specification clause Q50 230 |  | S12 |  | S12 |
|  | FEATURE CIRCULAR BENCH
- Material: FSC certified 'Cumaru' hardwood slats on a hot dipped galvanized steel frame and legs, powder coated.
Colour - Futura Mars 2525 Sable YX355F.
Accessories:
L shaped backrest.
Finish: Natural
Folded stainless steel armrest (allow for 2 no.)
Hot dip galvanised and powder coated bench footing.
Tampor proof and counter sunk fixings to match frame
Refer to drawings: 1958-PLA-01A-XX-DR-L-7007
To specification clause Q50 225A |  | S13 |  | S13 |
|  | PARK BENCH
Material - FSC certified 'Cumaru' hardwood slats on a hot dipped galvanized steel frame and legs, powder coated.
Folded powder coated steel armrest (allow for 3 no.)
Hot dip galvanised and powder coated bench footing.
Colour - Futura Mars 2525 Sable YX355F.
Tampor proof and counter sunk fixings to match frame.
Overall dimension of bench: Varies - refer to furniture plan
Method of fixing: [Surface pinned into concrete foundation].
Refer to drawings: 1958-PLA-01A-XX-DR-L-7006
To specification clause Q50 225 |  | S14a |  | S14a |
|  | MEMORIAL GARDEN BENCHES
- Material: FSC certified 'Cumaru' hardwood slats on a hot dipped galvanized steel frame, powder coated, Colour - Futura Mars 2525 Sable YX355F.
Accessories:
L shaped backrest.
Folded stainless steel armrest (allow for 2 no.)
Hot dip galvanised and powder coated bench footing. RAL colour TBC. Tampor proof and counter sunk fixings to match frame.
Refer to drawings: 1958-PLA-01A-XX-DR-L-7006
To specification clause Q50 225B |  | S14b |  | S14b |
|  | CYCLE STANDS
- Product reference: Sheffield Cycle Stand
- Material: Stainless Steel
- Finish: Stainless Steel, Grade 316 Satin
- Size: 750mmH x 750mmW
- Fixing: Root Fixed in concrete below ground to Engineer's specification
To specification clause Q50 220 |  | S14c |  | S14c |
|  | FIXED BOLLARD
- Product: 114 1000 Static Bollard
- Finish: Brushed stainless steel
- Size: 114mm diameter, 1000mm above ground
- Supplier: ATG access or equal and approved.
Root fixed to engineer's details
To specification clause Q50 190 |  | S14d |  | S14d |
| | |  | S16a |  | S16a |
| | |  | S16b |  | S16b |
| | |  | S17 |  | S17 |
| | |  | S18 |  | S18 |
| | |  | S19 |  | S19 |
| | |  | S20 |  | S20 |
| | | | |  | S21 |
| | | | |  | S22 |
| | | | |  | S23 |
| | | | |  | S24 |
| | | | |  | S25 |
| | | | |  | S26 |
| | | | |  | S27 |
| | | | |  | E1 |
| | | | |  | E2 |
| | | | |  | E3 |
| | | | |  | E6 |
| | | | |  | E7 |

DESIGN INTENT ONLY
Foundations to engineers specification.
subject to approval of manufacturers
drawings, all measurements to be
checked on site prior to ordering and
fabrication.

THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE
REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN AUTHORITY
FROM THE OWNER.

- NOTES:
1. Do not scale from this drawing.
 2. Always work to noted dimensions.
 3. All dimensions are in millimetres unless otherwise stated.
 4. All setting out, levels and dimensions to be agreed on site.
 5. The dimensions of all materials must be checked on site before being laid out.
 6. This drawing must be read with the relevant specification clauses and detail drawings.
 7. Order of construction and setting out to be agreed on site.



For location of benches refer to drawing:
1958-PLA-01A-XX-DR-L-4000

- KEY
- Refer to specification clause Q50 Q20 and 220A.
- 1. Central timber slats**
Dimensions - 40mm (D) x 100mm (W) x 2500mm (L)
Material: FSC hardwood cumaru certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved
 - 2. Bespoke solid timber pieces to top of backrests**
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
Removable element to access integrated lighting on steel frame
beneath. Subject to manufacturers details.
Supplier: Woodscape or similar and approved
 - 3. Bespoke timber end pieces to seat**
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved
- All timber to be finished with clear Osmo UV Protection Oil
- 4. Steel frame - hot dipped galvanised powder coated steel frame**
Dimensions - Subject to manufacturers details.
Mechanically fixed to concrete foundations underneath surfacing.
Fixings to engineer's specification.
Colour: Mars 2525 Sable Product Code: YX355F
Frame to allow for perforations filled with translucent perspex sheet to diffuse internal lighting
- 5. Solid end panel - powder coated steel with laser cut outs**
10mm depth, dimensions as per drawings
Dimensions - Subject to manufacturers details. Laser cut design subject to further detailed design. Panel to have inner perspex sheet behind steel to diffuse light.
Colour: Mars 2525 Sable Product Code: YX355F
All fixings: Tamper proof and counter sunk fixings to match frame.
Removable for cleaning purposes beneath bench.
- 6. Armrests**
Folded hot dip galvanised powder coated steel with FSC hardwood certified timber top.
Mechanically fixed to steel frame.
Colour: Mars 2525 Sable Product Code: YX355F
Steel support to be inlaid into timber top.
- 7. Accessories**
Allowance for stainless steel anti-skate find to front face of bench.
- Type S2a - 3 no.
Type S2b - 6 no.

Benches mechanically fixed to concrete slab under paving to
engineers details

Revision	Date	Description	Drawn	Apprvd.
----------	------	-------------	-------	---------

Planit I.E. Limited
E: info@planit-ie.com W: planit-ie.com
MANCHESTER
2 Back Grafton St., Altrincham, WA14 1DY
T: 0161 928 9281
LONDON
Unit 6 Waterside, 44-48 Wharf Road, London, N1 7UX
T: 0207 253 5678
LIVERPOOL
Tempest 5.3, 12 Tithebarn Street, Liverpool, L2 2DT
T: 0151 363 1230

Client Manchester Metropolitan University

Project MMU Landscape Masterplan,
Manchester

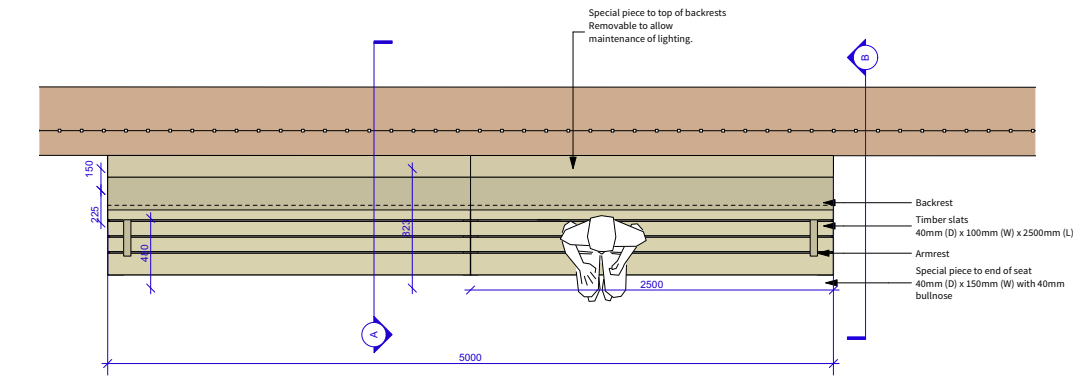
Drg Title Seating Details - Wall Edge Bench
Phase 1A

Created on 03.03.20 Created by SR Approved by SAB

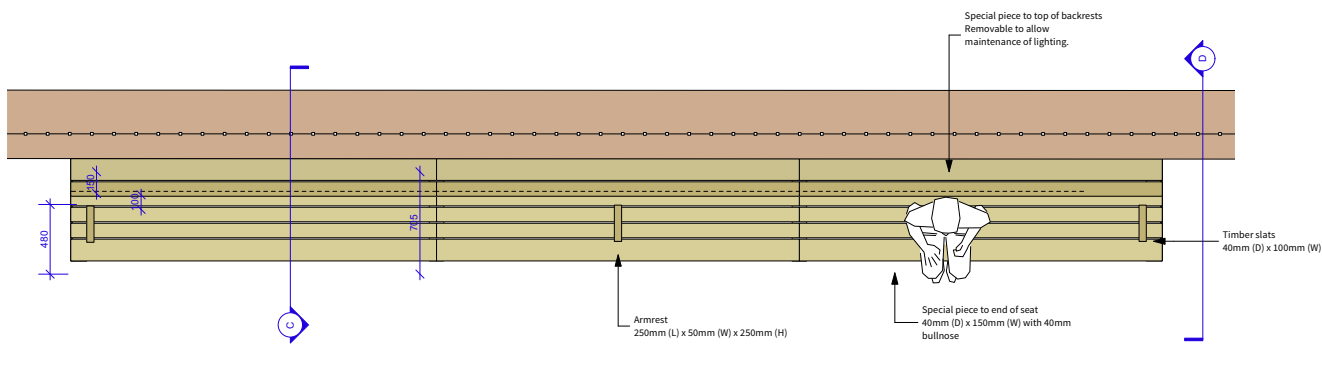
Scale As Shown Size A1 Workstage Stage 4

Drg No. 1958-PLA-01A-XX-DR-L-7003 Suitability S4 Revision P0417

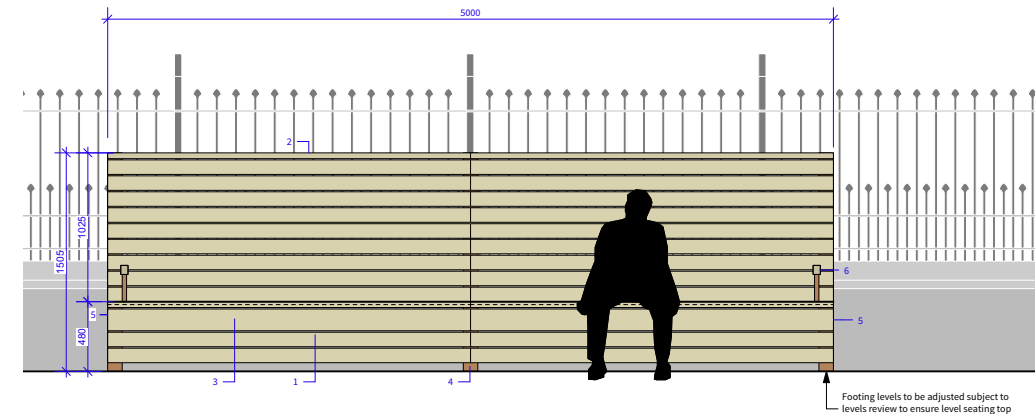
© Planit I.E. Limited



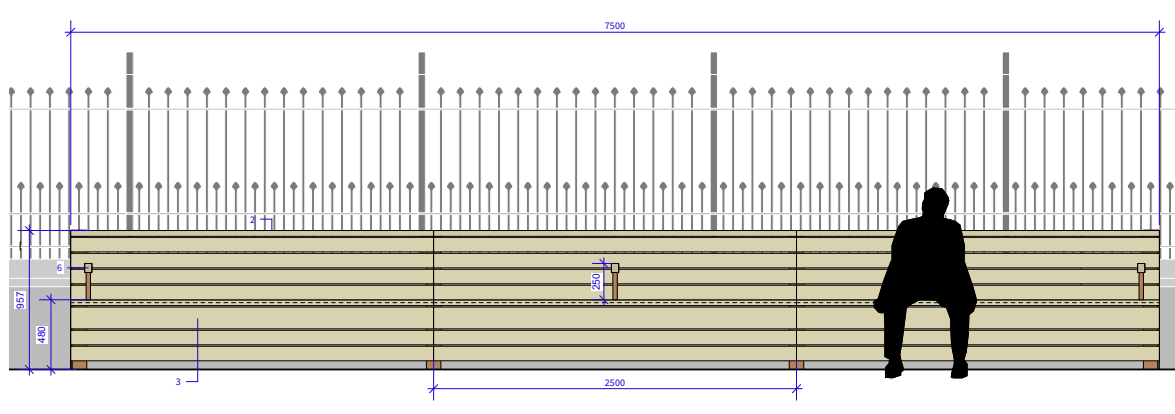
01 Wall Bench Type S2a - Plan View
1:50



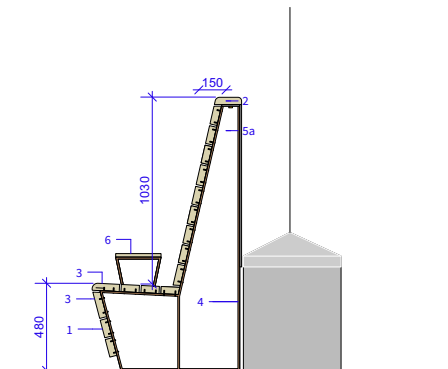
03 Wall Bench Type S2b - Plan View
1:50



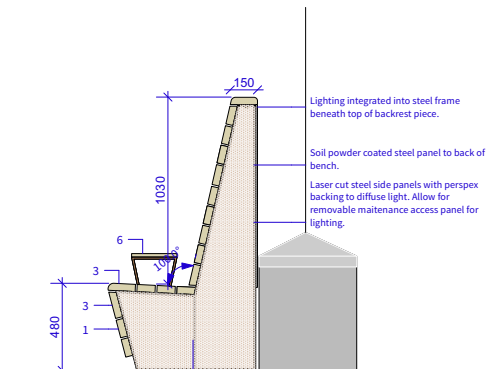
02 Wall Bench Type S2a - Front Elevation
1:50



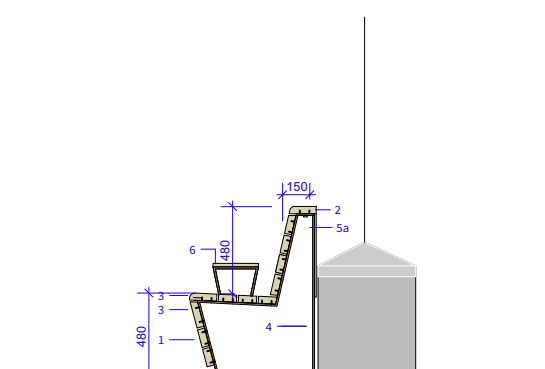
04 Wall Bench Type S2b - Front Elevation
1:50



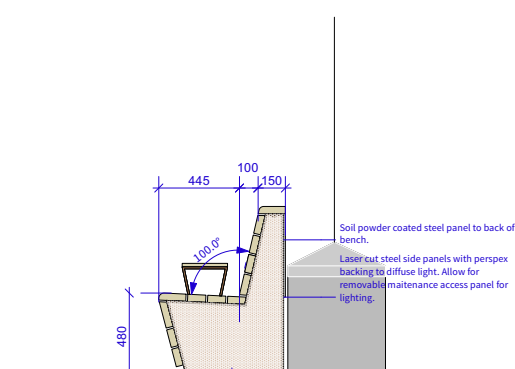
05 Type S2a - Section A-A
1:50



06 Type S2a End Profile B-B
1:50



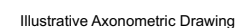
07 Type S2b - Section C-C
1:50

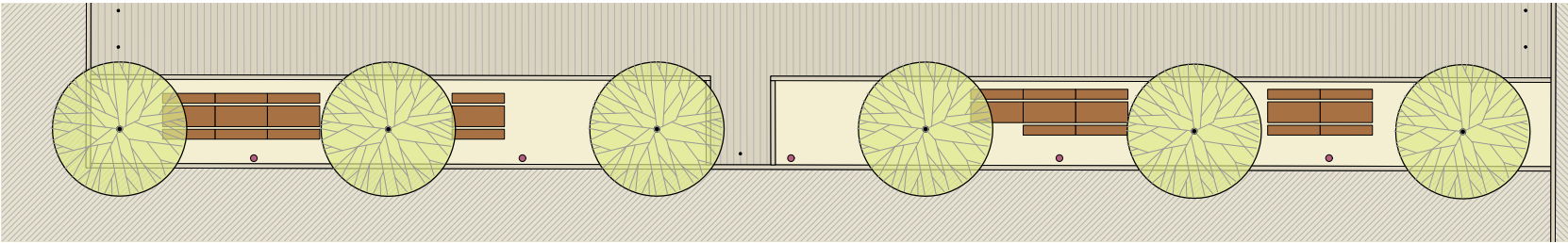


08 Type S2b - End Profile D-D
1:50

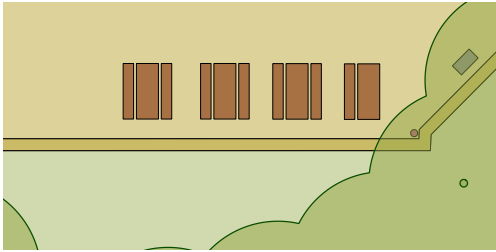


© Planet IE Limited





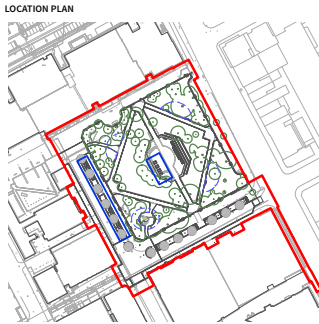
04 Work benches - Lower Ormond Street
Scale: 1:150



05 Work benches - All Saints Park
Scale: 1:150

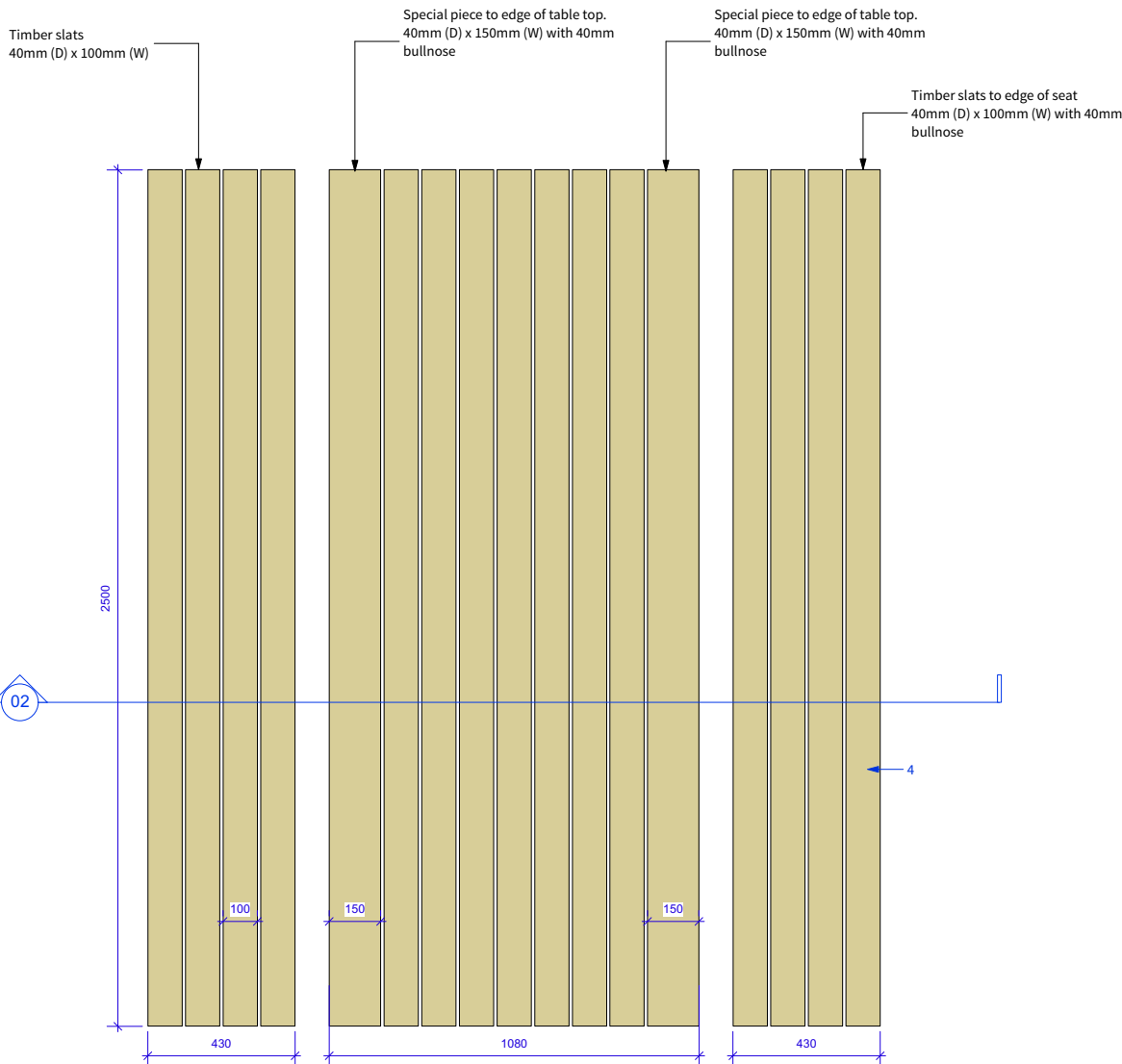
THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN AUTHORITY FROM THE OWNER.

- NOTES:
1. Do not scale from this drawing.
 2. Always work to noted dimensions.
 3. All dimensions are in millimetres unless otherwise stated.
 4. All setting out, levels and dimensions to be agreed on site.
 5. The dimensions of all materials must be checked on site before being laid out.
 6. This drawing must be read with the relevant specification clauses and detail drawings.
 7. Order of construction and setting out to be agreed on site.

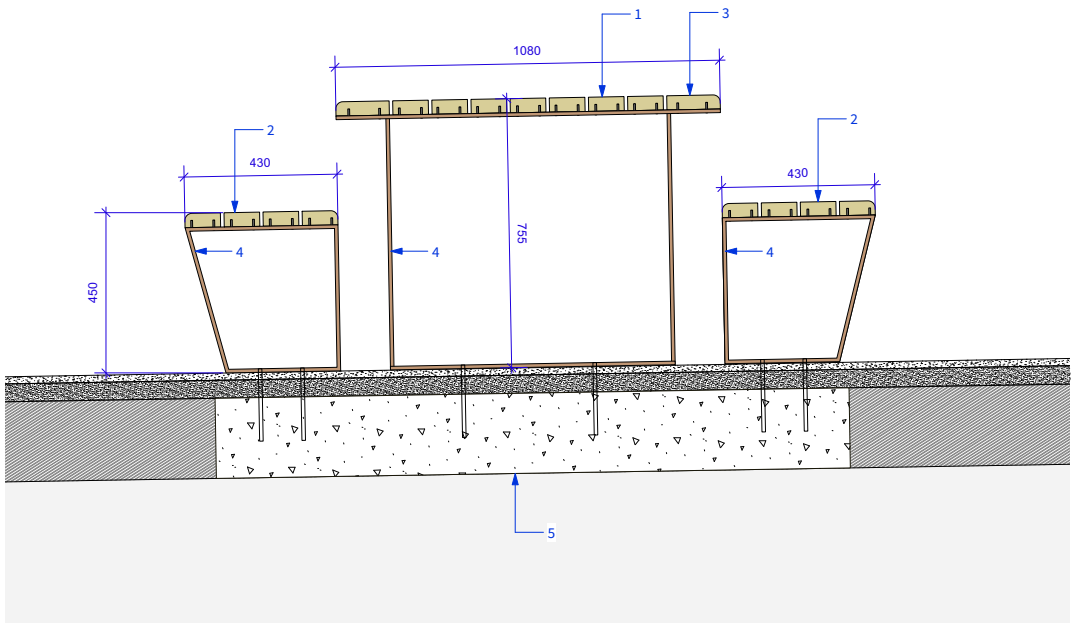


For location of benches refer to drawing:
1958-PLA-01A-XX-DR-L-4000

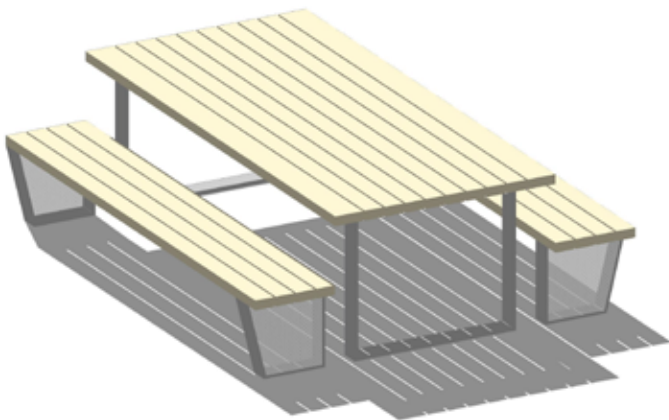
- KEY
Refer to specification clause Q50 230
- 1. Central timber slats**
Dimensions - 40mm (D) x 100 mm (W) x 2500mm (L)
Material: FSC hardwood cumaru certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved
- 2. Timber slats to edge of seat**
Dimensions - 40mm (D) x 100 mm (W) with 40mm bullnose x 2500mm (L)
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved
- 3. Timber end pieces to table top**
Dimensions - 40mm (D) x 150 mm (W) with 40mm bullnose x 2500mm (L)
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved
- All timber to be finished with clear Osmo UV Protection Oil
- 4. Steel frame - hot dipped galvanised steel frame, powder coated**
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers details.
Colour: Futura Mars 2525 Sable [YX355F]
Mechanically fixed to concrete foundations. Fixings to engineer's specification.
- Mechanically fixed to concrete foundations under surfacing to engineers specification**



01 Work Bench - Plan
Scale: 1:10



02 Work bench - section
Scale: 1:10



03 Work Bench - Axonometric
NTS

Revision	Date	Description	Drawn	Apprvd.
----------	------	-------------	-------	---------

Planit I.E. Limited
E: info@planit-ie.com W: planit-ie.com
MANCHESTER
2 Back Grafton St., Altrincham, WA14 1DY
T: 0161 928 9281
LONDON
Unit 6 Waterside, 44-48 Wharf Road, London, N1 7UX
T: 0207 253 5678
LIVERPOOL
Tempest 5.3, 12 Tithebarn Street, Liverpool, L2 2DT
T: 0151 363 1230

Client Manchester Metropolitan University

Project MMU Landscape Masterplan, Manchester

Drg Title Seating Details - Work Bench Phase 1A

Created on 03.03.20 Created by SR Approved by SAB

Scale VARIES Size A1 Workstage Stage 4

Drg No. 1958-PLA-01A-XX-DR-L-7005 Suitability S4 Revision P04

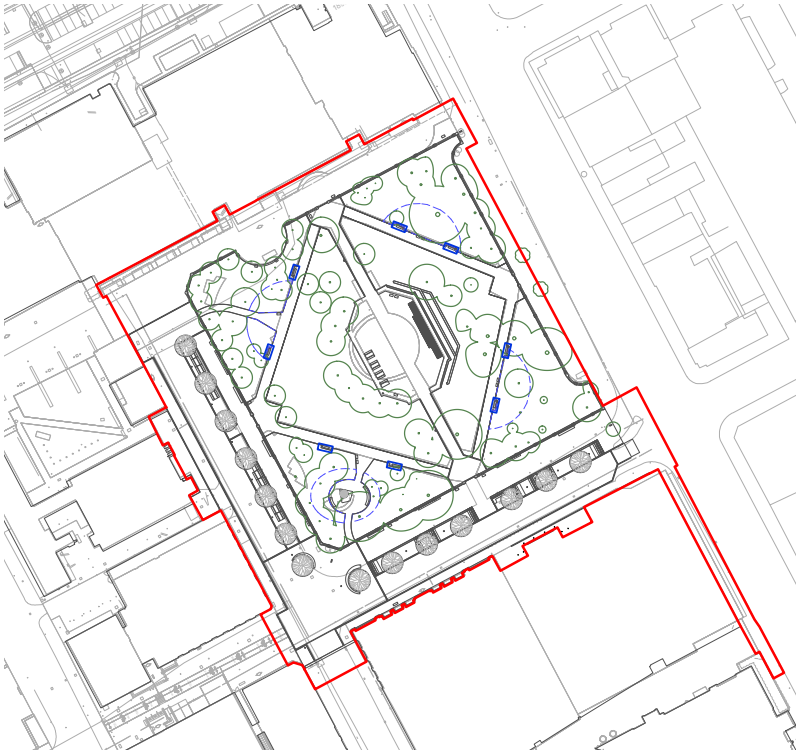
DESIGN INTENT ONLY
Foundations to engineers specification.
subject to approval of manufacturers drawings, all
measurements to be checked on site prior to ordering
and fabrication.

THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE
REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN AUTHORITY
FROM THE OWNER.

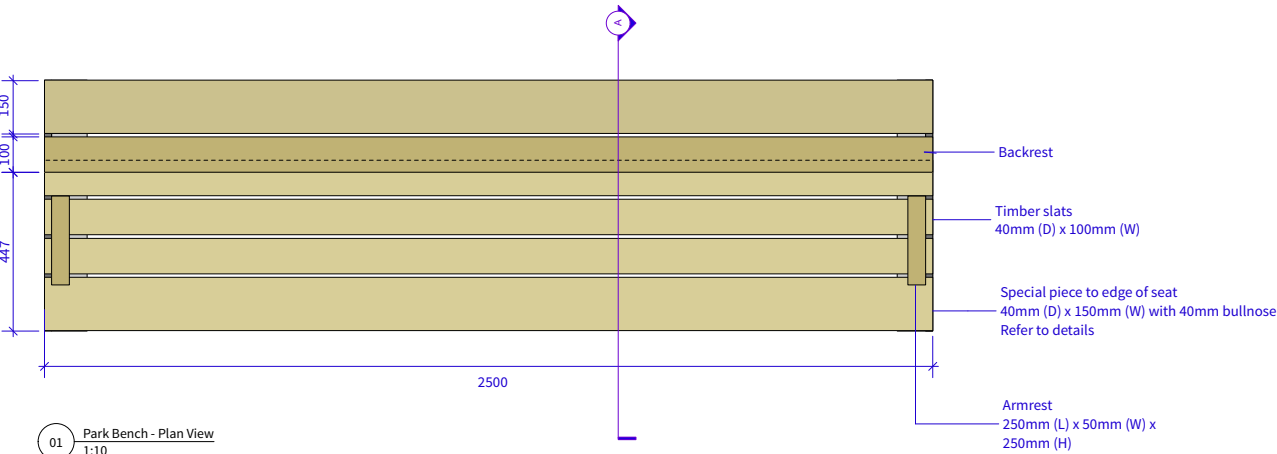
- NOTES:
1. Do not scale from this drawing.
 2. Always work to noted dimensions.
 3. All dimensions are in millimetres unless otherwise stated.
 4. All setting out, levels and dimensions to be agreed on site.
 5. The dimensions of all materials must be checked on site before being laid out.
 6. This drawing must be read with the relevant specification clauses and detail drawings.
 7. Order of construction and setting out to be agreed on site.

For location of benches refer to drawing:
1958-PLA-01A-XX-DR-L-4000

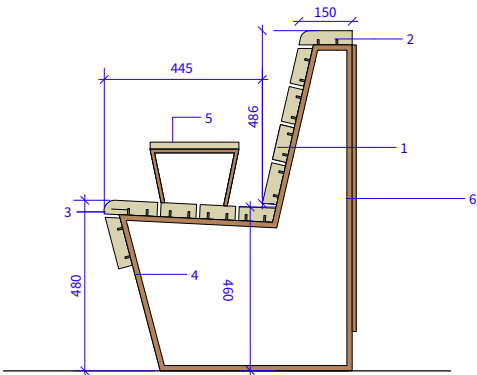
- KEY
Refer to specification clause Q50 225
- 1. Central timber slats**
Dimensions - 40mm (D) x 100 mm (W) x 2500mm (L)
Material: FSC hardwood certified Cumaru timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved
- 2. Bespoke timber end pieces to top of backrests**
Sizes vary - refer to drawing
Material: FSC hardwood certified Cumaru timber
Supplier: Woodscape or similar and approved
- 3. Bespoke timber end pieces to seat**
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved
- All timber to be finished with clear Osmo UV Protection Oil
- 4. Steel frame - hot dipped galvanised powder coated steel frame**
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers details.
Mechanically fixed to concrete foundations. Fixings to engineer's specification.
- 5. Armrests**
Folded hot dip galvanised powder coated steel with FSC hardwood certified timber top. Mechanically fixed to steel frame.
Steel support to be inlaid into timber top.
- 6. Steel end and back panels**
Allowance for powder coated steel end and back panel to bench with a bespoke perforated pattern subject to detailed design.
- 7. Accessories**
Allowance for stainless steel anti-skate find to front face of bench.
1 no. per bench
- All metal work to be powder coated in -
Colour: Mars 2525 Sable Product Code: YX355F
- Concrete pad foundations to engineers specification



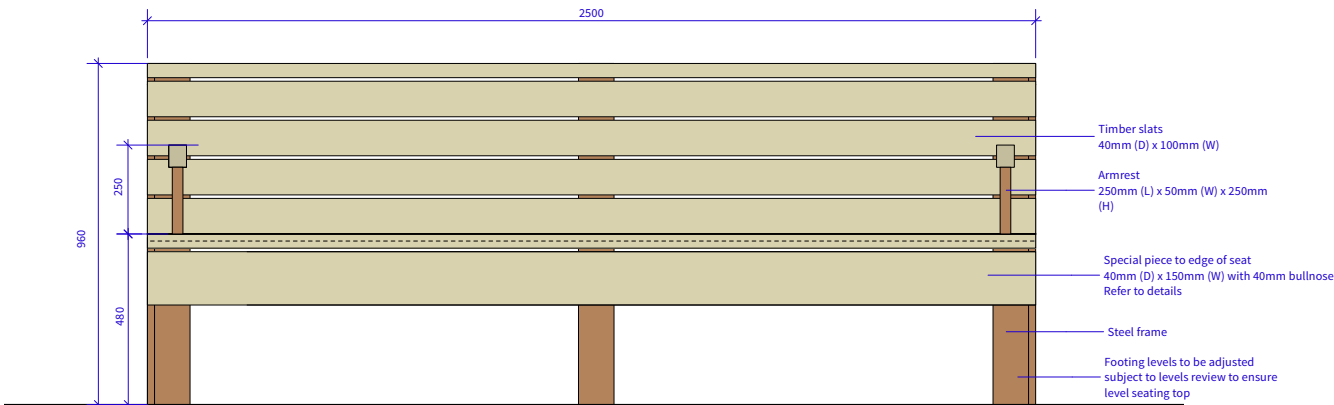
LOCATION PLAN (scale 1:1000)



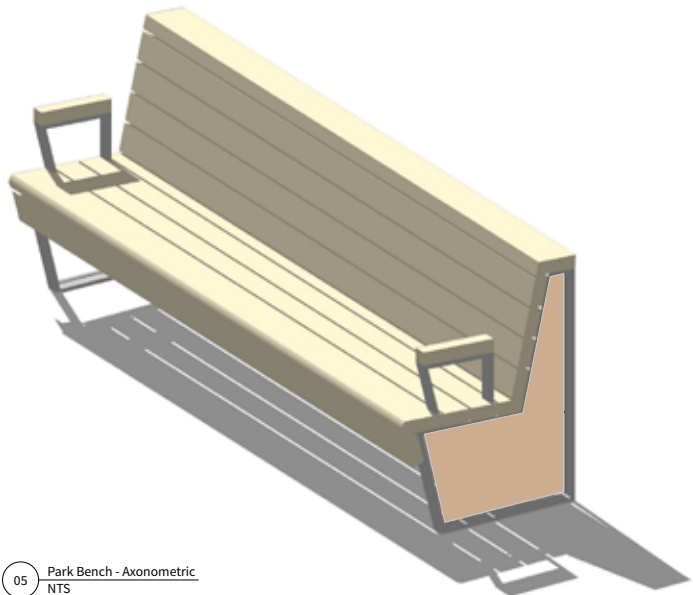
01 Park Bench - Plan View
1:10



02 Park Bench - Section A
1:10



03 Park Bench - Elevation
1:10



05 Park Bench - Axonometric
NTS

Revision	Date	Description	Drawn	Apprvd.
----------	------	-------------	-------	---------

Planit I.E. Limited
E: info@planit-ie.com W: planit-ie.com
MANCHESTER
2 Back Grafton St., Altrincham, WA14 1DY
T: 0161 928 9281
LONDON
Unit 6 Waterside, 44-48 Wharf Road, London, N1 7UX
T: 0207 253 5678
LIVERPOOL
Tempest 5.3, 12 Tithebarn Street, Liverpool, L2 2DT
T: 0151 363 1230

Client Manchester Metropolitan University

Project MMU Landscape Masterplan,
Manchester

Drg Title Seating Details - Park Bench
Phase 1A

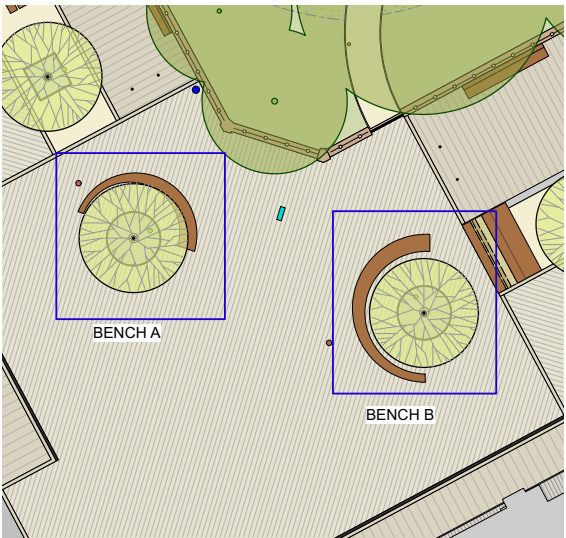
Created on 03.03.20 Created by SR Approved by SAB

Scale As Shown Size A1 Workstage Stage 4

Drg No. 1958-PLA-01A-XX-DR-L-7006 Suitability S4 Revision P04

DESIGN INTENT ONLY

Foundations to engineers specification.
subject to approval of manufacturers drawings, all
measurements to be checked on site prior to ordering
and fabrication.

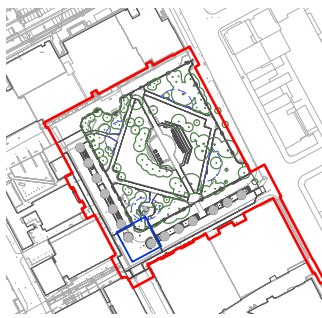


LOCATION PLAN (scale 1:200)

THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE
REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN AUTHORITY
FROM THE OWNER.

- NOTES:
1. Do not scale from this drawing.
 2. Always work to noted dimensions.
 3. All dimensions are in millimetres unless otherwise stated.
 4. All setting out, levels and dimensions to be agreed on site.
 5. The dimensions of all materials must be checked on site before being laid out.
 6. This drawing must be read with the relevant specification clauses and detail drawings.
 7. Order of construction and setting out to be agreed on site.

LOCATION PLAN



For location of benches refer to drawing:
1958-PLA-01A-XX-DR-L-4000

KEY

Refer to specification clause Q50 225A

- 1. Timber slats**
Dimensions - 40mm (D) x 100 mm (W) x 450-760mm (L)
Material: FSC hardwood cumaru certified timber
on powder coated stainless steel frame.
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved
- 2. Timber slats to backrest**
Dimensions - 40mm (D) x 100 mm (W) x 440mm (L)
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved
- 3. Steel frame - hot dipped galvanised steel frame**
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers
details. Mechanically fixed to concrete foundations. Fixings to
engineer's specification.
- 4. Armrests**
Powder coated steel with FSC hardwood
certified timber top. Mechanically fixed to steel frame.
Steel support to be inlaid into timber top.
- 5. Mechanically fixed to concrete paving slab to engineer's
details.**

All timber to be finished with clear Osmo UV Protection Oil

3. Steel frame - hot dipped galvanised steel frame
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers
details. Mechanically fixed to concrete foundations. Fixings to
engineer's specification.

4. Armrests
Powder coated steel with FSC hardwood
certified timber top. Mechanically fixed to steel frame.
Steel support to be inlaid into timber top.

**5. Mechanically fixed to concrete paving slab to engineer's
details.**

All metal work to be powder coated in -
Colour: Mars 2525 Sable Product Code: YX355F

Revision	Date	Description	Drawn	Appr'd.
S4-P04	27-01-23	PCSA	SR	SAB

Planit I.E. Limited
E: info@planit-ie.com W: planit-ie.com
MANCHESTER
2 Back Grafton St., Altrincham, WA14 1DY
T: 0161 928 9281
LONDON
Unit 6 Waterside, 44-48 Wharf Road, London, N1 7UX
T: 0207 253 5678
LIVERPOOL
Tempest 5.3, 12 Tithebarn Street, Liverpool, L2 2DT
T: 0151 363 1230

Client Manchester Metropolitan University

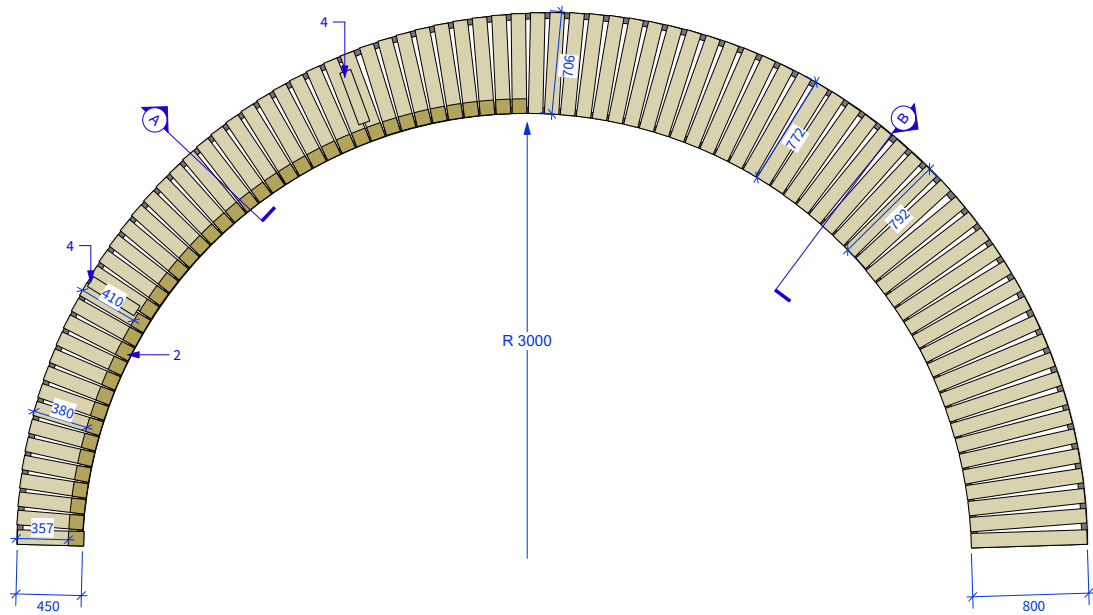
Project MMU Landscape Masterplan,
Manchester

Drg Title Seating Details - Feature Circular Bench
Phase 1A

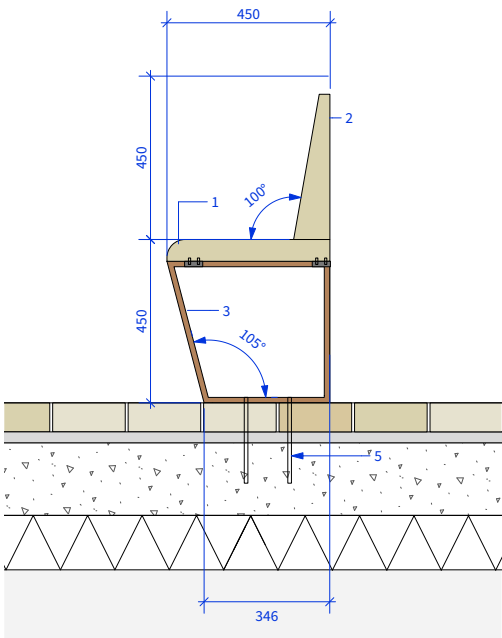
Created on 03.03.20 Created by SR Approved by SAB

Scale As Shown Size A1 Workstage Stage 4

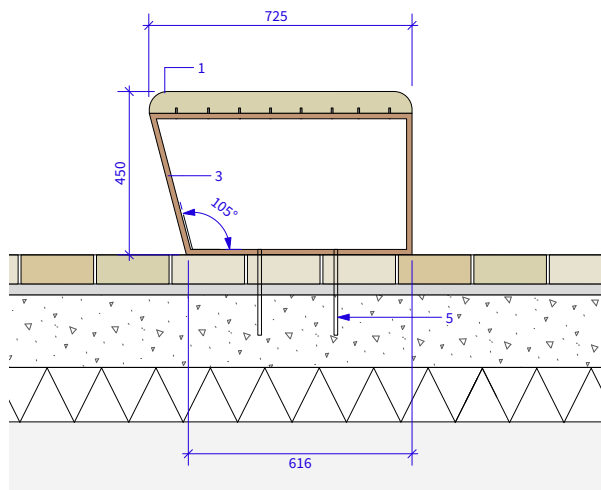
Drg No. 1958-PLA-01A-XX-DR-L-7007 Suitability S4 Revision P04



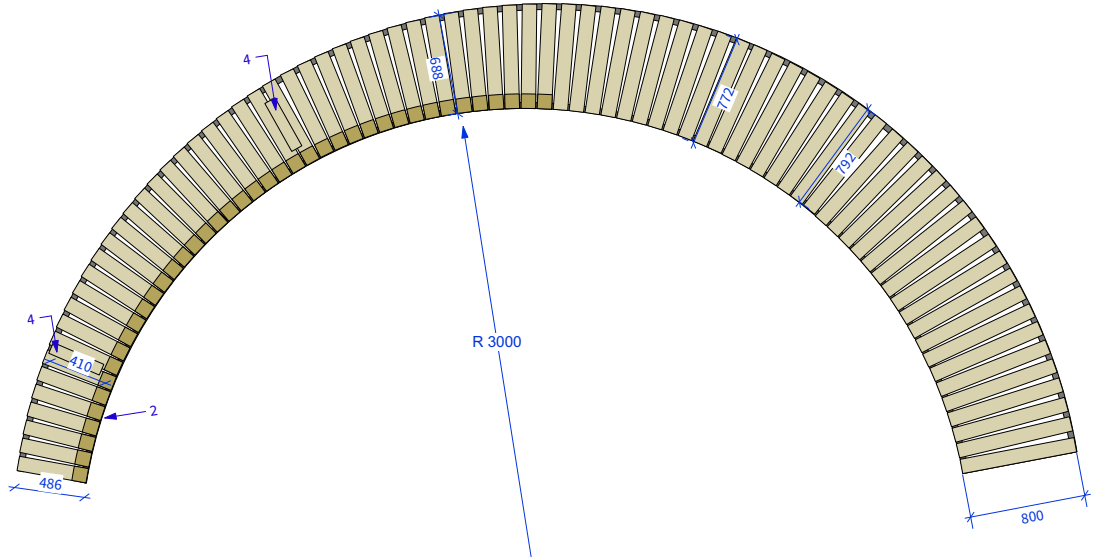
01 Corner bench B - Plan
1:25



02 Corner bench - Section A
1:10



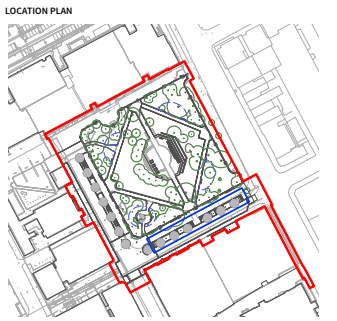
03 Corner bench - Section B
1:10



4 Corner bench A - Plan
1:25

DESIGN INTENT ONLY
Foundations to engineers specification.
subject to approval of manufacturers
drawings, all measurements to be
checked on site prior to ordering and
fabrication.

- NOTES:
1. Do not scale from this drawing.
 2. Always work to noted dimensions.
 3. All dimensions are in millimetres unless otherwise stated.
 4. All setting out, levels and dimensions to be agreed on site.
 5. The dimensions of all materials must be checked on site before being laid out.
 6. This drawing must be read with the relevant specification clauses and detail drawings.
 7. Order of construction and setting out to be agreed on site.



For location of benches refer to drawing:
1958-PLA-01A-XX-DR-L-4000

- KEY
Refer to specification clause Q50 220B
- 1. Central timber slats**
Dimensions - 40mm (D) x 100 mm (W) x 2500mm (L)
Material: FSC hardwood cumaru certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved
 - 2. Bespoke solid timber end piece to top of backrests**
Sizes vary - refer to drawing
Material: FSC hardwood cumaru certified timber
Removable element to access integrated lighting on steel frame beneath.
Supplier: Woodscape or similar and approved
 - 3. Bespoke timber end pieces to seat**
Sizes vary - refer to drawing
Material: FSC hardwood cumaru certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved
- All timber to be finished with clear Osmo UV Protection Oil
- 4. Steel frame - hot dipped galvanised steel frame**
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers details. Mechanically fixed to concrete foundations or channel tops.
Fixings to engineer's specification.
Colour: Mars 2525 Sable Product Code: YX355F
Legs to account for gradient and kerb upland across bench width.
Steel frame to accommodate perspex panels to allow for diffusion of light through slats.
- 5. Solid end panel - powder coated steel with laser cut outs and perspex backing to diffuse light.**
10mm depth, dimensions as per drawings
Laser cut design subject to further detailed design
Colour: Mars 2525 Sable Product Code: YX355F
All fixings: Tamper proof and counter sunk fixings to match frame.
Removable maintenance access panel to be integrated.
- 6. Armrests**
Folded G316 stainless steel with FSC cumaru hardwood
Mechanically fixed to steel frame.
Powder coated steel support to be inlaid into timber top.
Colour: Mars 2525 Sable Product Code: YX355F
- 7. Steel flashing to front elevations.**
Mechanically fixed to steel frame to take up gap caused by gradient across bench.
Finish: Hot dip galvanised and powder coated steel flashing
Colour: Mars 2525 Sable Product Code: YX355F

- 8. Concrete foundations to engineers specification**
- 9. Accessories**
Allowance for stainless steel anti-skate fin to front face of bench.
6no. total.

Revision	Date	Description	Drawn	Appr'd.
----------	------	-------------	-------	---------

Planit I.E. Limited
E: info@planit-ie.com W: planit-ie.com
MANCHESTER
2 Back Grafton St, Altrincham, WA14 1DY
T: 0161 928 9281
LONDON
Unit 6 Waterside, 44-48 Wharf Road, London, N1 7UX
T: 0207 253 5678
LIVERPOOL
Tempest 5.3, 12 Tithebarn Street, Liverpool, L2 2DT
T: 0151 363 1230

Client Manchester Metropolitan University

Project MMU Landscape Masterplan,
Manchester

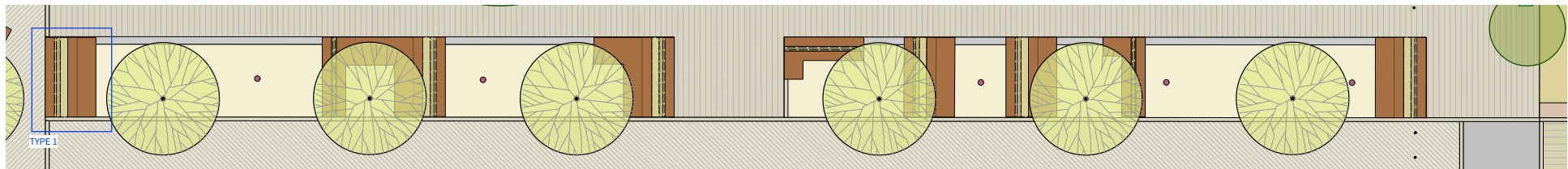
Drg Title Seating Details - Tree Surround - Bench 1
Phase 1A

Created on 03.03.20 Created by SR Approved by SAB

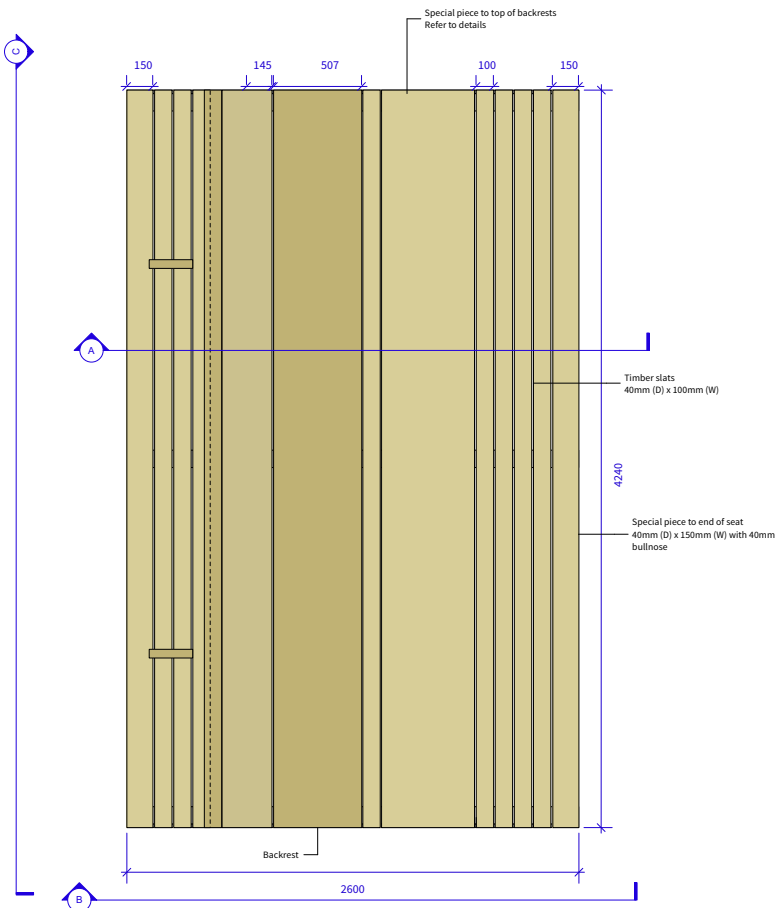
Scale As Shown Size A1 Workstage Stage 4

Drg No. 1958-PLA-01A-XX-DR-L-7014 Suitability S4 Revision P04

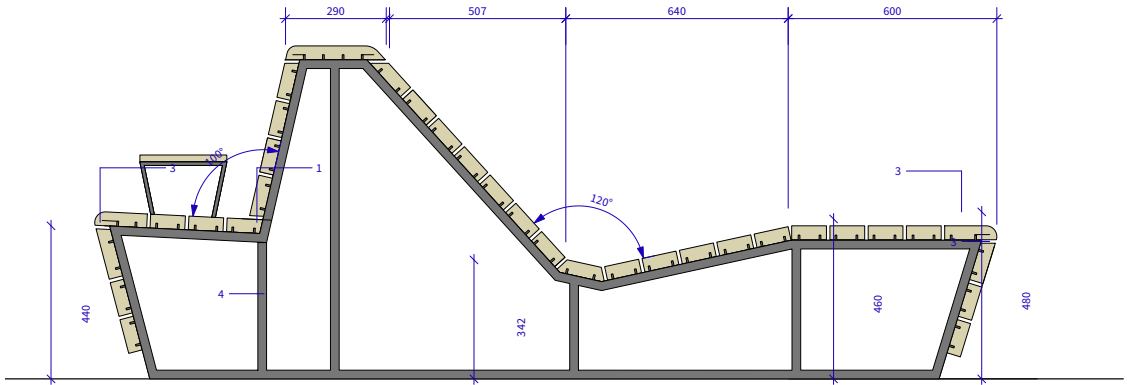
© Planit I.E. Limited



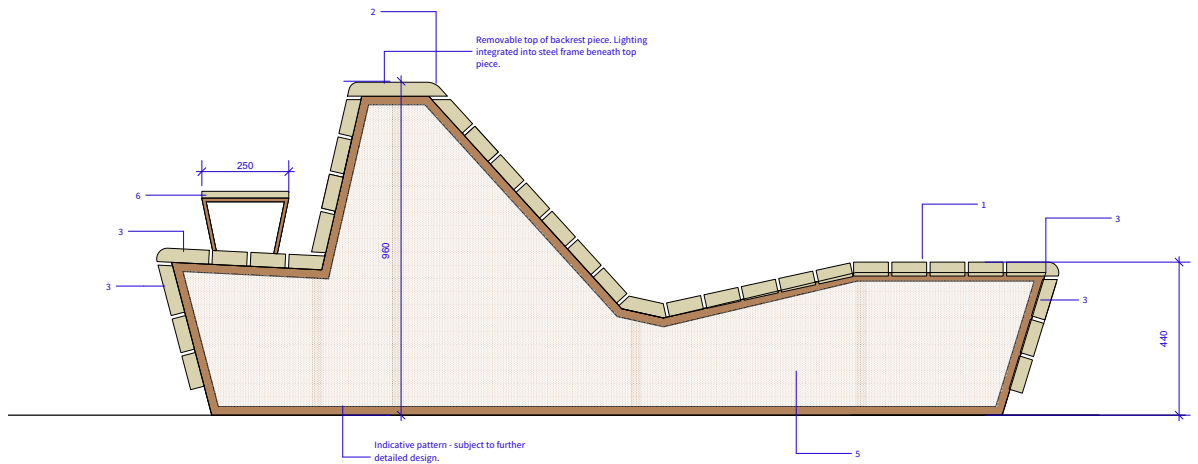
Location plan (scale 1:150)



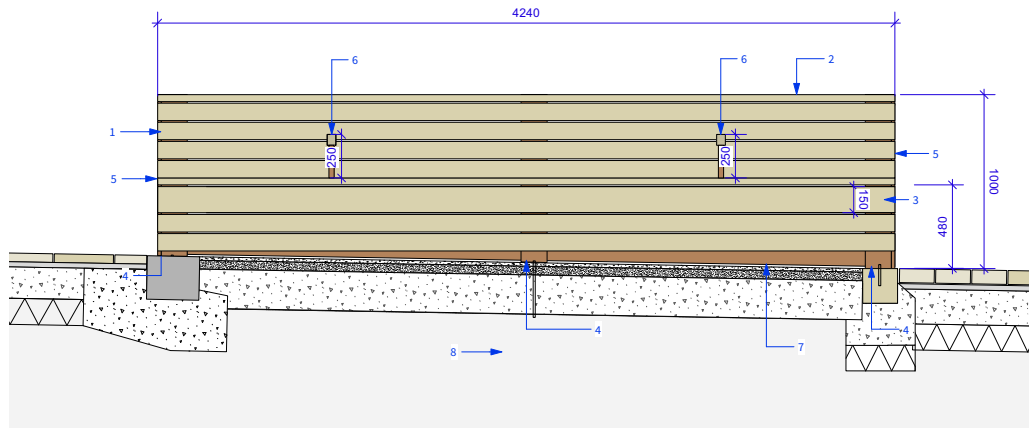
01 Tree Surround Type 1 - Plan View
1:20



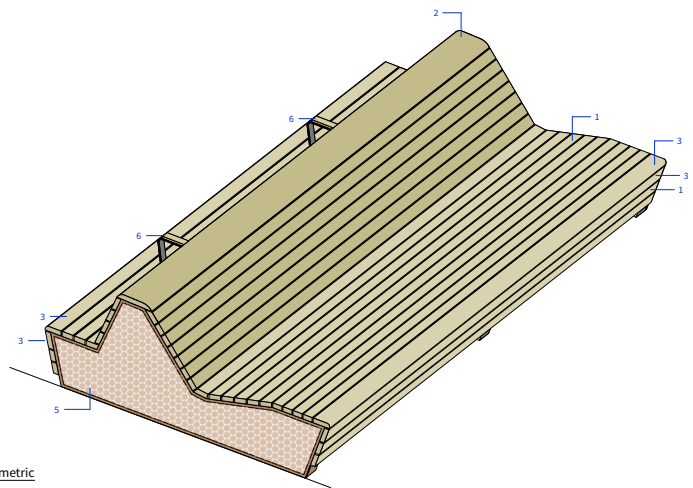
02 Tree Surround Type 1 - Section A - Through Width
1:10



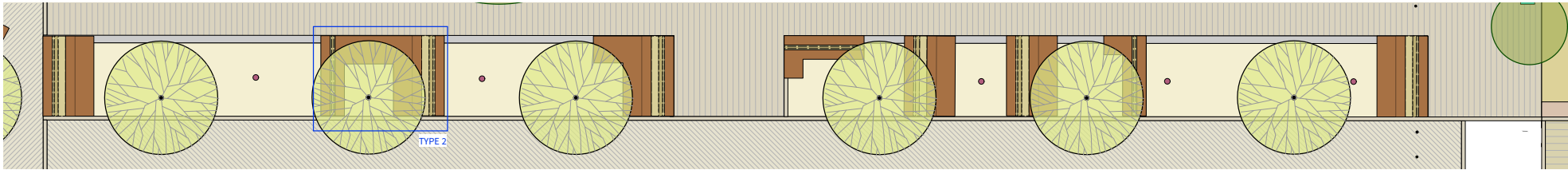
03 Tree Surround Type 1 - Elevation B - End Profile
1:10



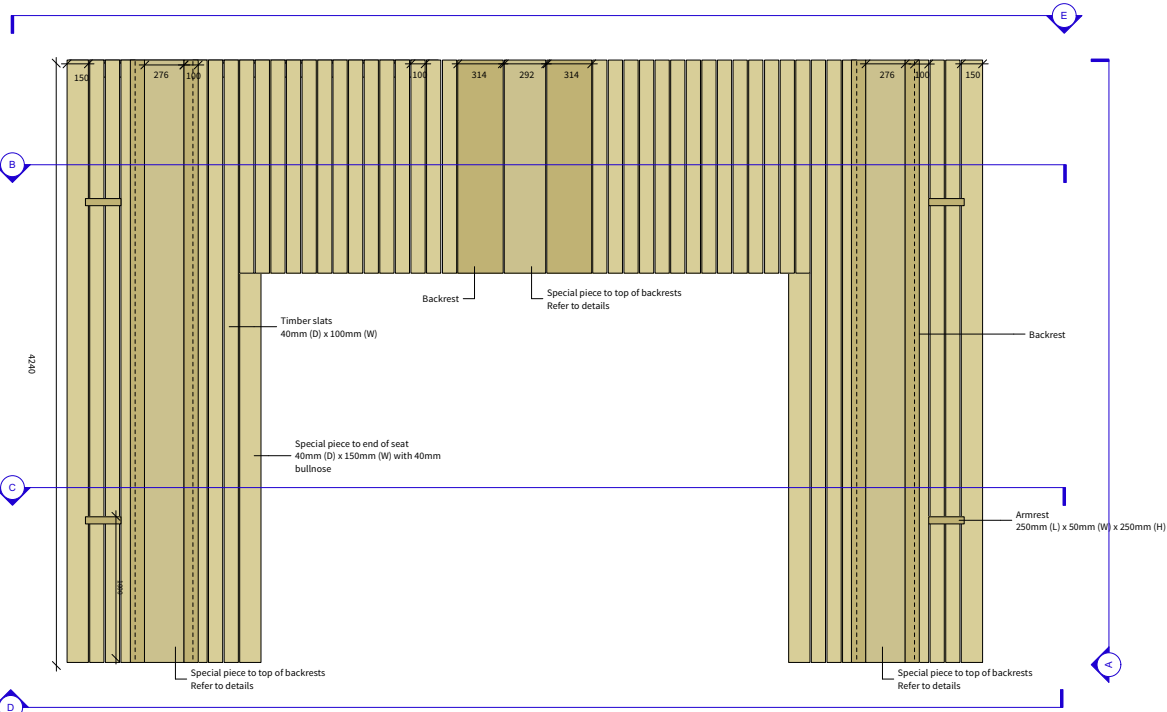
04 Tree Surround Type 1 - Elevation C - Front Profile
1:20



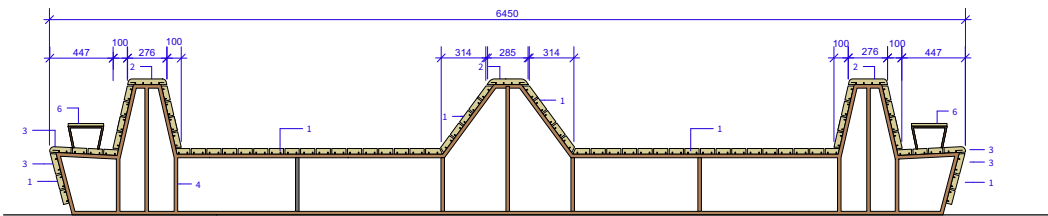
05 Tree Surround Type 1 - Axonometric
NTS



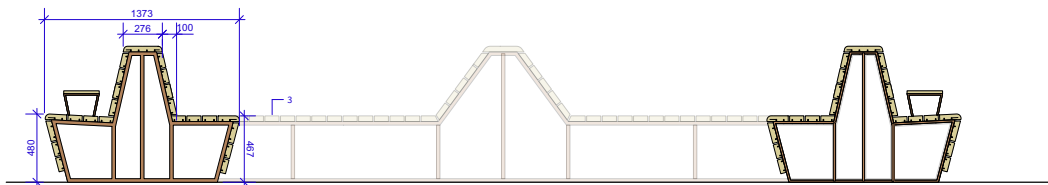
DESIGN INTENT ONLY
Foundations to engineers specification.
subject to approval of manufacturers
drawings, all measurements to be
checked on site prior to ordering and
fabrication.



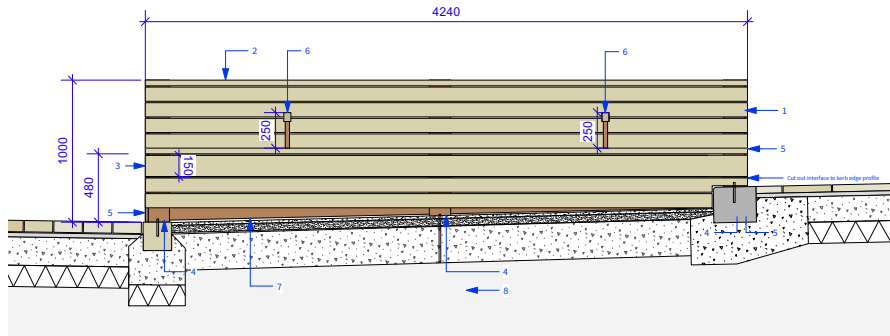
8 Tree Surround Type 4 - Plan View
1:25



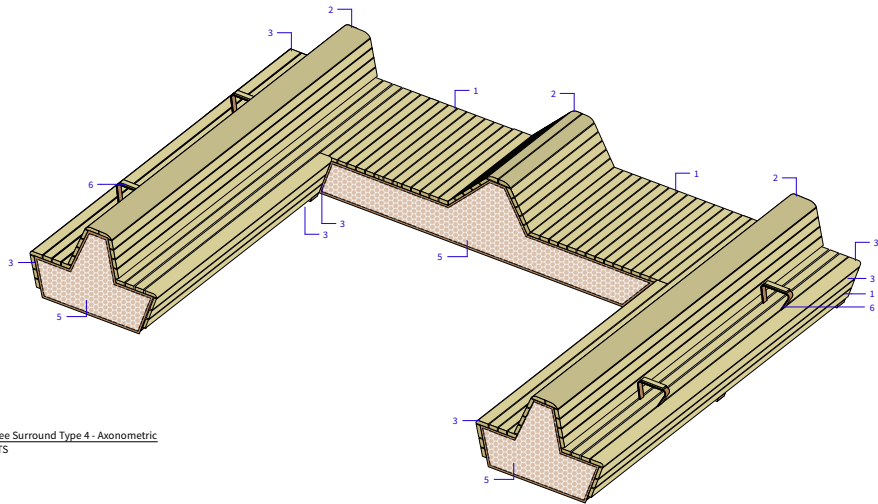
11 Tree Surround Type 4 - Section B
1:25



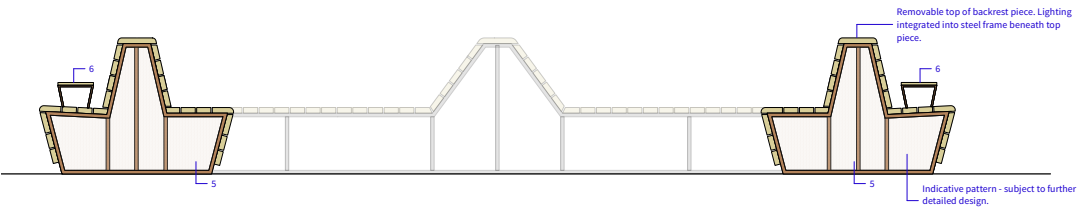
13 Tree Surround Type 4 - Section C
1:25



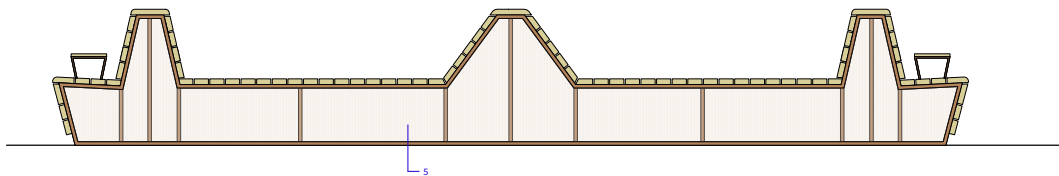
9 Tree Surround Type 4 - Elevation A - Front Profile
1:25



10 Tree Surround Type 4 - Axonometric
NTS



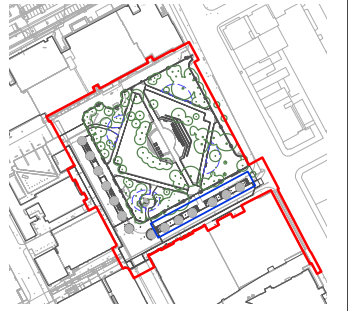
12 Tree Surround Type 4 - Elevation D
1:25



14 Tree Surround Type 4 - Elevation E
1:25

THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN AUTHORITY FROM THE OWNER.

- NOTES:**
1. Do not scale from this drawing.
 2. Always work to noted dimensions.
 3. All dimensions are in millimetres unless otherwise stated.
 4. All setting out, levels and dimensions to be agreed on site.
 5. The dimensions of all materials must be checked on site before being laid out.
 6. This drawing must be read with the relevant specification clauses and detail drawings.
 7. Order of construction and setting out to be agreed on site.



For location of benches refer to drawing:
1958-PLA-01A-XX-DR-L-4000

- KEY**
Refer to specification clause Q50 220C
- 1. Central timber slats**
Dimensions - 40mm (D) x 100 mm (W) x 2500mm (L)
Material: FSC hardwood cumaru certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved
 - 2. Bespoke solid timber end piece to top of backrests**
Sizes vary - refer to drawing
Material: FSC cumaru hardwood certified timber
Removable element to access integrated lighting on steel frame beneath. Subject to manufacturers details.
Supplier: Woodscape or similar and approved
 - 3. Bespoke timber end pieces to seat**
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved
 - 4. Steel frame - hot dipped galvanised steel frame**
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers details. Mechanically fixed to concrete foundations or channel tops.
Finish: to engineer's specification.
Colour: Mars 2525 Sable Product Code: YX355F
Legs to account for gradient and kerb upstand across bench width.
Steel frame to accommodate perspex panels to allow for diffusion of light through slats.
 - 5. Solid end panel - powder coated steel with laser cut outs and perspex backing to diffuse light.**
10mm depth, dimensions as per drawings
Laser cut design subject to further detailed design
Colour: Mars 2525 Sable Product Code: YX355F
All fixings: Tamper proof and counter sunk fixings to match frame.
Removable maintenance access panel to be integrated.
 - 6. Armrests**
Folded G316 stainless steel with FSC cumaru hardwood
Mechanically fixed to steel frame.
Powder coated steel support to to be inlaid into timber top.
Colour: Mars 2525 Sable Product Code: YX355F
 - 7. Steel flashing to front elevations.**
Mechanically fixed to steel frame to take up gap caused by gradient across bench.
Finish: Hot dip galvanised and powder coated steel flashing
Colour: Mars 2525 Sable Product Code: YX355F
 - 8. Concrete foundations to engineers specification**
 - 9. Accessories**
Allowance for stainless steel anti-skate fin to front face of bench.
12no. total

S4-P04	27-01-23	PCSA	SR	SAB
Revision	Date	Description	Drawn	Apprvd.

Planit I.E. Limited
E: info@planit-ie.com W: planit-ie.com
MANCHESTER
2 Back Grafton St, Altrincham, WA14 1DY
T: 0161 928 9281
LONDON
Unit 6 Waterside, 44-48 Wharf Road, London, N1 7UX
T: 0207 253 9678
LIVERPOOL
Tempest 3.3, 12 Tithebarn Street, Liverpool, L2 2DT
T: 0151 363 1230

Client Manchester Metropolitan University

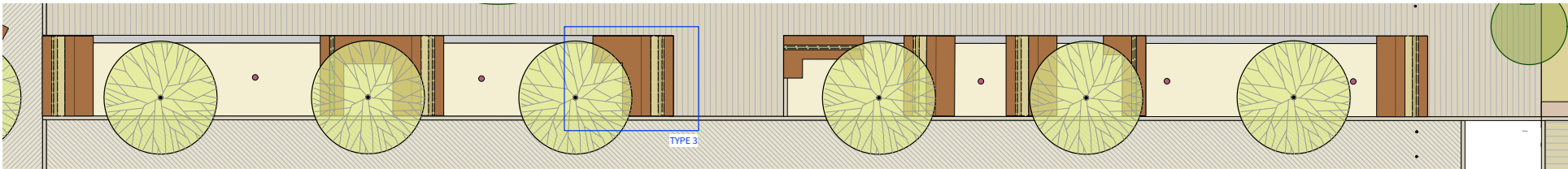
Project MMU Landscape Masterplan, Manchester

Drg Title Seating Details - Tree Surround - Bench 2 Phase 1A

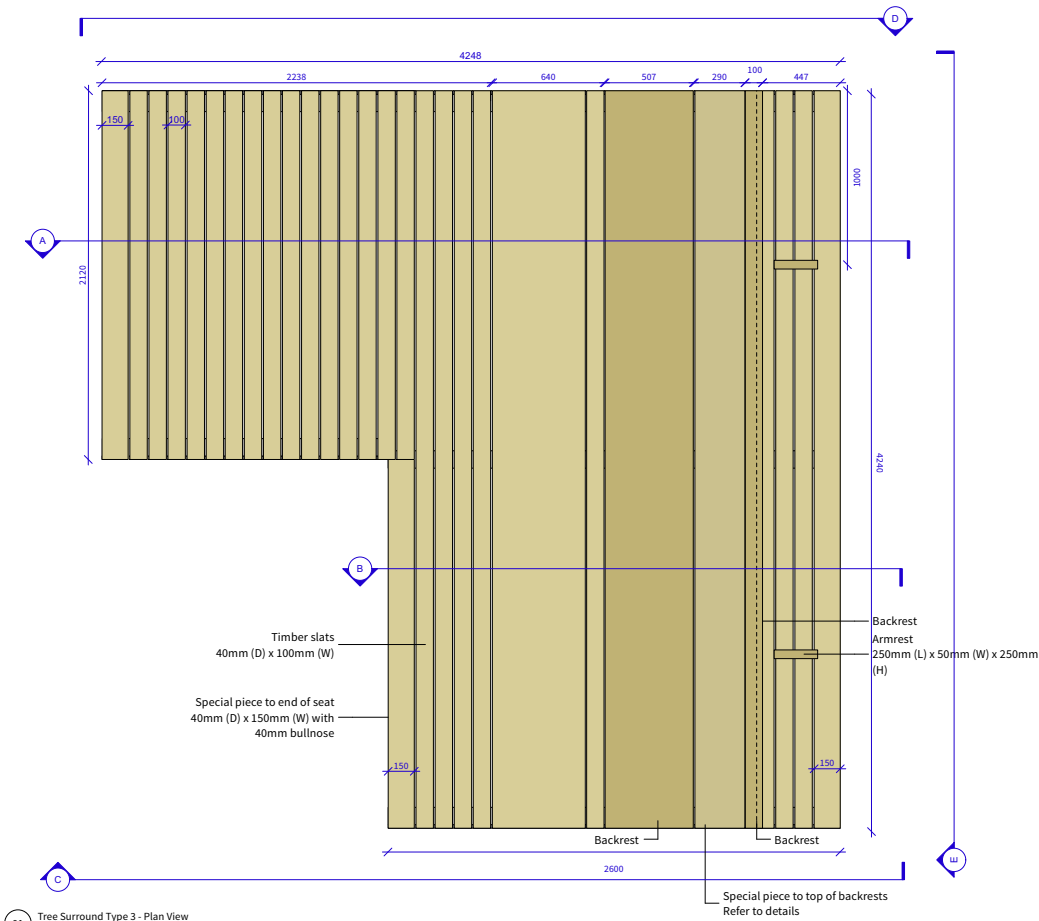
Created on 13.08.20 **Created by** SR **Approved by** SAB

Scale As Shown **Size** A1 **Workstage** Stage 4

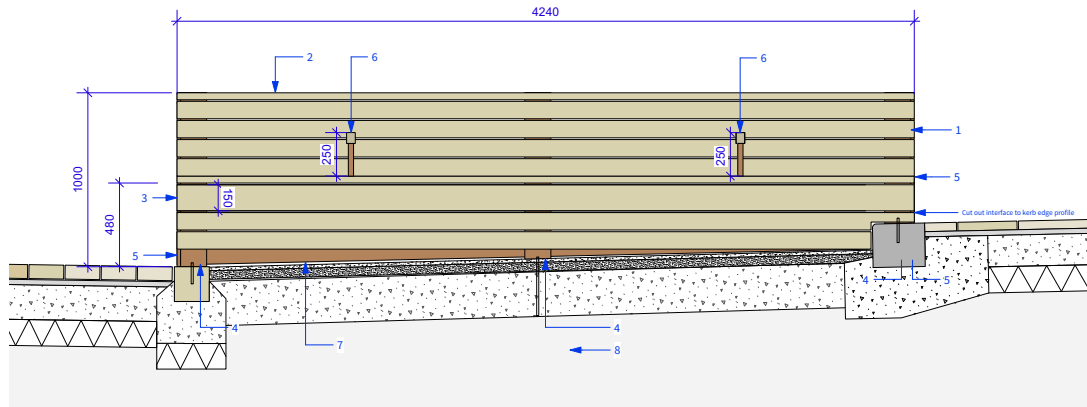
Drg No. 1958-PLA-01A-XX-DR-L-7015 **Suitability** S4 **Revision** P04



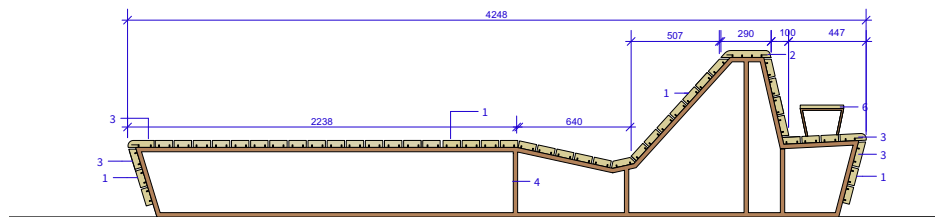
Location plan (scale 1:150)



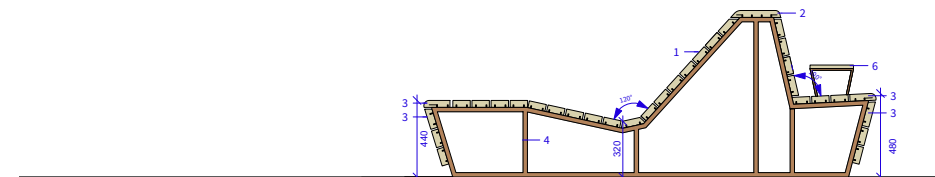
01 Tree Surround Type 3 - Plan View
1:20



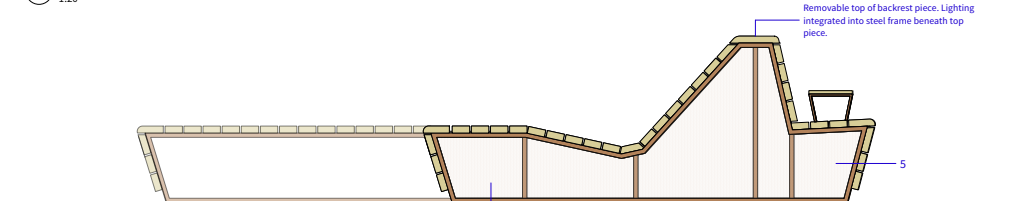
06 Tree Surround Type 3 - Elevation E
1:20



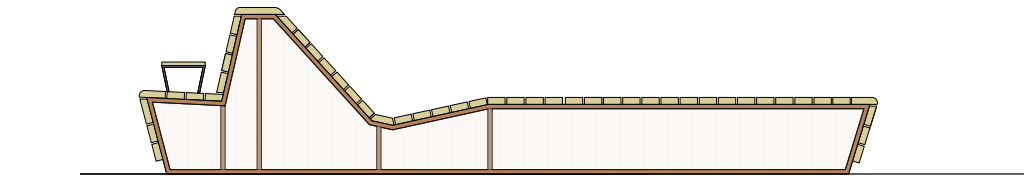
02 Tree Surround Type 3 - Section A - Through Width
1:20



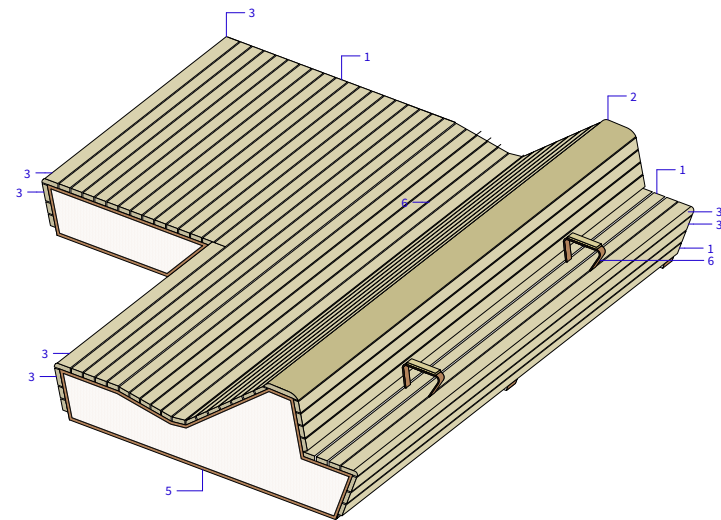
03 Tree Surround Type 3 - Elevation B
1:20



04 Tree Surround Type 3 - Elevation C
1:20



05 Tree Surround Type 3 - Elevation D
1:20

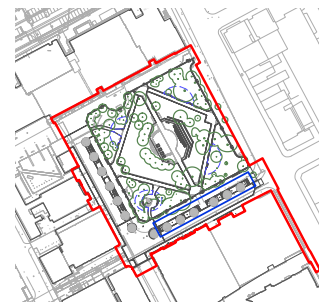


07 Tree Surround Type 3 - Axonometric
NTS

DESIGN INTENT ONLY
Foundations to engineers specification.
subject to approval of manufacturers drawings, all measurements to be checked on site prior to ordering and fabrication.

THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN AUTHORITY FROM THE OWNER.

NOTES:
1. Do not scale from this drawing.
2. Always work to noted dimensions.
3. All dimensions are in millimetres unless otherwise stated.
4. All setting out, levels and dimensions to be agreed on site.
5. The dimensions of all materials must be checked on site before being laid out.
6. This drawing must be read with the relevant specification clauses and detail drawings.
7. Order of construction and setting out to be agreed on site.



For location of benches refer to drawing: 1958-PLA-01A-XX-DR-L-4000

EY
Refer to specification clause Q50 220D

1. Central timber slats
Dimensions - 40mm (D) x 100 mm (W) x 2500mm (L)
Material: FSC hardwood cumaru certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved

2. Bespoke solid timber end piece to top of backrests
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
Removable element to access integrated lighting on steel frame beneath. Subject to manufacturers details.
Supplier: Woodscape or similar and approved

3. Bespoke timber end pieces to seat
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved
All timber to be finished with clear Osmo UV Protection Oil

4. Steel frame - hot dipped galvanised steel frame
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers details. Mechanically fixed to concrete foundations or channel tops. Fixings to engineer's specification.
Colour: Mars 2525 Sable Product Code: YX355F
Legs to account for gradient and kerb upstand across bench width. Steel frame to accommodate perspex panels to allow for diffusion of light through slats.

5. Solid end panel - powder coated steel with laser cut outs and perspex backing to diffuse light.
10mm depth, dimensions as per drawings
Laser cut design subject to further detailed design
Colour: Mars 2525 Sable Product Code: YX355F
All fixings: Tamper proof and counter sunk fixings to match frame. Removable maintenance access panel to be integrated.

6. Armrests
Folded G316 stainless steel with FSC hardwood
Mechanically fixed to steel frame.
Powder coated steel support to be inlaid into timber top.
Colour: Mars 2525 Sable Product Code: YX355F

7. Steel flashing to front elevations.
Mechanically fixed to steel frame to take up gap caused by gradient across bench.
Finish: Hot dip galvanised and powder coated steel flashing
Colour: Mars 2525 Sable Product Code: YX355F

8. Concrete foundations to engineers specification

9. Accessories
Allowance for stainless steel anti-skate fin to front face of bench.
6no. total

S4-P04	27-01-23	PCSA	SR	SAB
Revision	Date	Description	Drawn	Apprvd.

Planit I.E. Limited
E: info@planit-ie.com W: planit-ie.com
MANCHESTER
2 Back Grafton St., Altrincham, WA14 1DY
T: 0161 928 9281
LONDON
Unit 6 Waterside, 44-48 Wharf Road, London, N1 7UX
T: 0207 253 5678
LIVERPOOL
Temple 5.3, 12 Tithebarn Street, Liverpool, L2 2DT
T: 0151 363 1230

Client Manchester Metropolitan University

Project MMU Landscape Masterplan,
Manchester

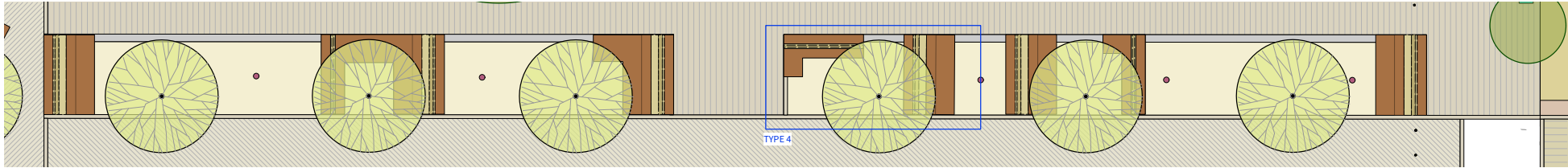
Drg Title Seating Details - Tree Surround - Bench 3
Phase 1A

Created on 03.03.20 Created by SR Approved by SAB

Scale As Shown Size A1 Workstage Stage 4

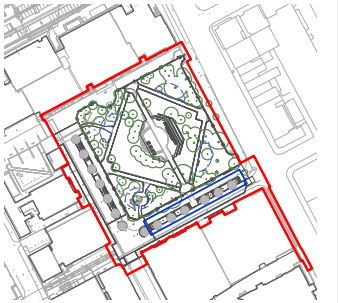
Drg No. 1958-PLA-01A-XX-DR-L-7016 Suitability S4 Revision P04

© Planit I.E. Limited



DESIGN INTENT ONLY
Foundations to engineers specification.
subject to approval of manufacturers
drawings, all measurements to be
checked on site prior to ordering and
fabrication.

- NOTES:**
1. Do not scale from this drawing.
 2. Always work to noted dimensions.
 3. All dimensions are in millimetres unless otherwise stated.
 4. All setting out, levels and dimensions to be agreed on site.
 5. The dimensions of all materials must be checked on site before being laid out.
 6. This drawing must be read with the relevant specification clauses and detail drawings.
 7. Order of construction and setting out to be agreed on site.



For location of benches refer to drawing:
1958-PLA-01A-XX-DR-L-4000

- KEY**
Refer to specification clause Q50 220E
- 1. Central timber slats**
Dimensions - 40mm (D) x 100 mm (W) x 2500mm (L)
Material: FSC hardwood cumaru certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved
 - 2. Bespoke solid timber end piece to top of backrests**
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
Removable element to access integrated lighting on steel frame beneath. Subject to manufacturers details.
Supplier: Woodscape or similar and approved
 - 3. Bespoke timber end pieces to seat**
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved
 - 4. Steel frame - hot dipped galvanised steel frame**
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers details. Mechanically fixed to concrete foundations or channel slabs.
Fixings to engineer's specification.
Colour: Mars 2525 Sable Product Code: YX355F
Legs to account for gradient and kerb upstand across bench width.
Steel frame to accommodate perspex panels to allow for diffusion of light through slats.
 - 5. Solid end panel - powder coated steel with laser cut outs and perspex backing to diffuse light.**
10mm depth, dimensions as per drawings
Laser cut design subject to further detailed design
Colour: Mars 2525 Sable Product Code: YX355F
All fixings: Tamper proof and counter sunk fixings to match frame.
Removable maintenance access panel to be integrated.
 - 6. Armrests**
Folded G316 stainless steel with FSC hardwood
Mechanically fixed to steel frame.
Powder coated steel support to be inlaid into timber top.
Colour: Mars 2525 Sable Product Code: YX355F
 - 7. Steel flashing to front elevations.**
Mechanically fixed to steel frame to take up gap caused by gradient across bench.
Finish: Hot dip galvanised and powder coated steel flashing
Colour: Mars 2525 Sable Product Code: YX355F
 - 8. Concrete foundations to engineers specification**
 - 9. Accessories**
Allowance for stainless steel anti-skate fin to front face of bench.
10no. Total

S4-P04	27-01-23	PCSA	SR	SAB
Revision	Date	Description	Drawn	Apprv.

Planit I.E. Limited
E: info@planit-ie.com W: planit-ie.com
MANCHESTER
2 Back Grafton St., Altrincham, WA14 1DY
T: 0161 928 9281
LONDON
Unit 6 Waterside, 44-48 Wharf Road, London, N1 7UX
T: 0207 253 5678
LIVERPOOL
Tempest 3.3, 12 Tithebarn Street, Liverpool, L2 2DT
T: 0151 363 1230

Client Manchester Metropolitan University

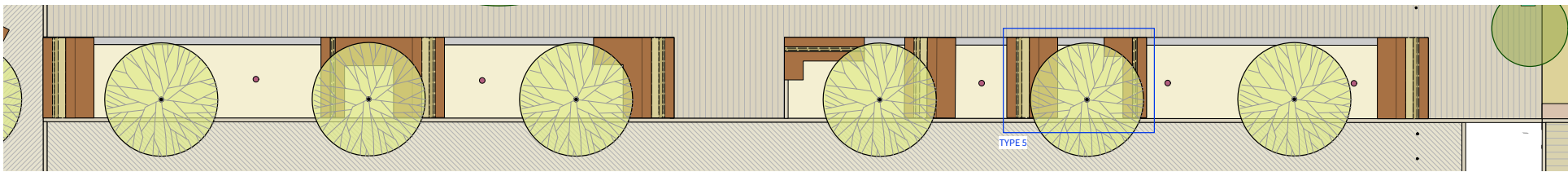
Project MMU Landscape Masterplan, Manchester

Drg Title Seating Details - Tree Surround - Bench 4 Phase 1A

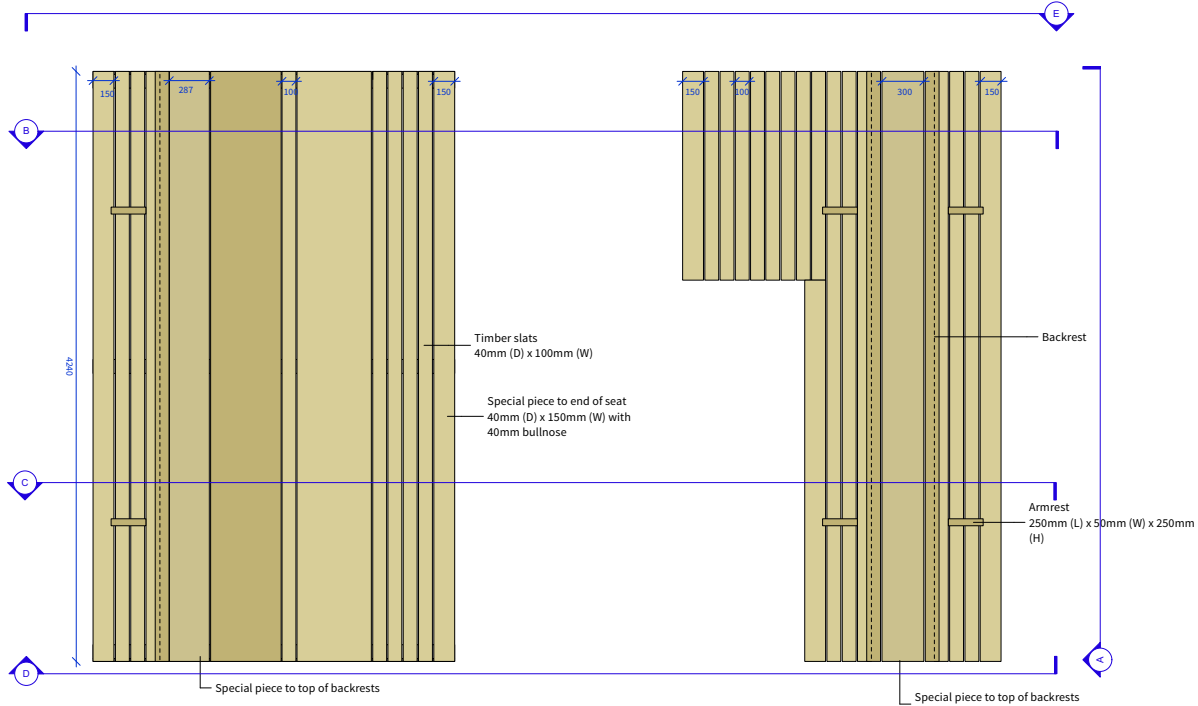
Created on 03.03.20 **Created by** SR **Approved by** SAB

Scale As Shown **Size** A1 **Workstage** Stage 4

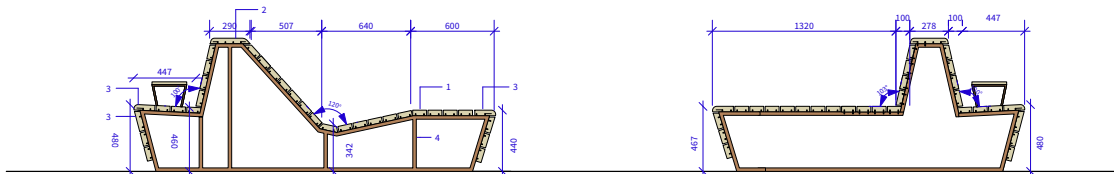
Drg No. 1958-PLA-01A-XX-DR-L-7017 **Suitability** S4 **Revision** P04



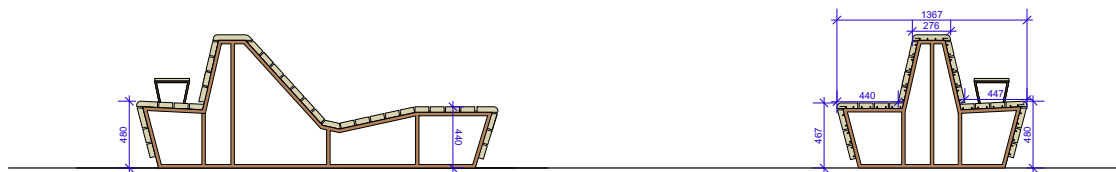
Location plan (scale 1:150)



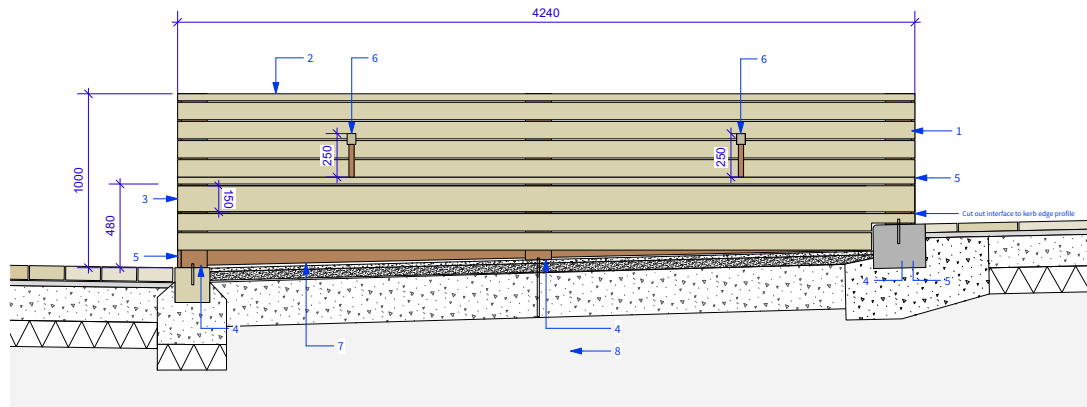
01 Tree Surround Type 5 - Plan View
1:25



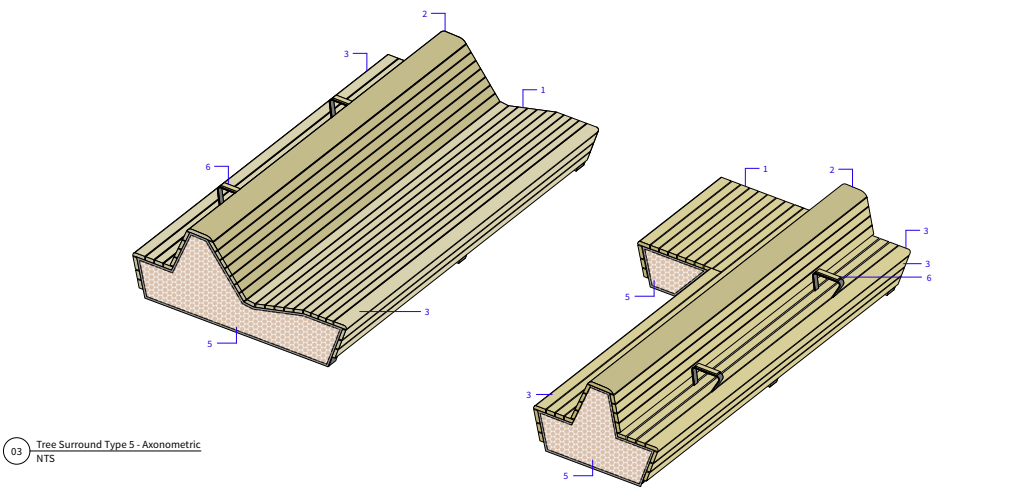
04 Tree Surround Type 5 - Section B
1:25



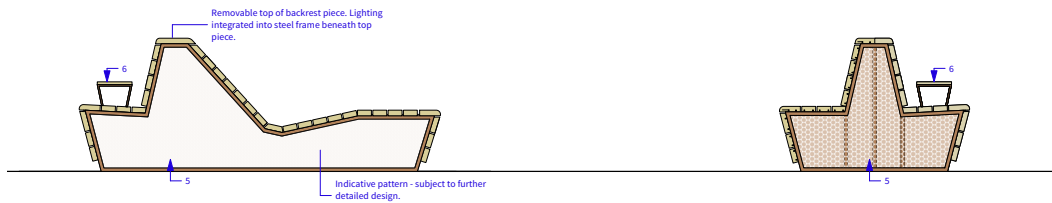
05 Tree Surround Type 5 - Section C
1:25



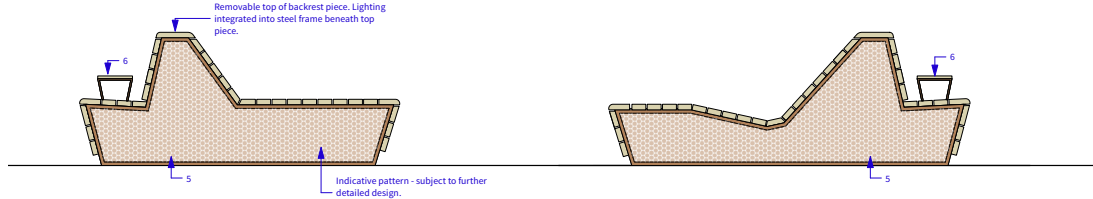
02 Tree Surround Type 5 - Elevation A - Front Profile
1:20



03 Tree Surround Type 5 - Axonometric
NTS



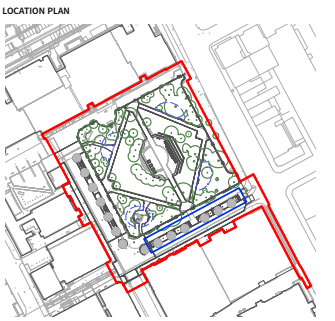
06 Tree Surround Type 5 - Elevation D
1:25



07 Tree Surround Type 5 - Elevation E
1:25

DESIGN INTENT ONLY
Foundations to engineers specification.
subject to approval of manufacturers
drawings, all measurements to be
checked on site prior to ordering and
fabrication.

NOTES:
1. Do not scale from this drawing.
2. Always work to noted dimensions.
3. All dimensions are in millimetres unless otherwise stated.
4. All setting out, levels and dimensions to be agreed on site.
5. The dimensions of all materials must be checked on site before being laid out.
6. This drawing must be read with the relevant specification clauses and detail drawings.
7. Order of construction and setting out to be agreed on site.



**For location of benches refer to drawing:
1958-PLA-01A-XX-DR-L-4000**

KEY
Refer to specification clause Q50 220F

1. Central timber slats
Dimensions - 40mm (D) x 100 mm (W) x 2500mm (L)
Material: FSC hardwood cumaru certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved

2. Bespoke solid timber end piece to top of backrests
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
Removable element to access integrated lighting on steel frame beneath. Subject to manufacturers details.
Supplier: Woodscape or similar and approved

3. Bespoke timber end pieces to seat
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved

All timber to be finished with clear Osmo UV Protection Oil

4. Steel frame - hot dipped galvanised steel frame
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers details. Mechanically fixed to concrete foundations or channel tops.
Fixings to engineer's specification
Colour: Mars 2525 Sable Product Code: YX355F
Legs to account for gradient and kerb upstand across bench width.
Steel frame to accommodate perspex panels to allow for diffusion of light through slats.

5. Solid end panel - powder coated steel with laser cut outs and perspex backing to diffuse light.
10mm depth, dimensions as per drawings
Laser cut design subject to further detailed design
Colour: Mars 2525 Sable Product Code: YX355F
All fixings: Tamper proof and counter sunk fixings to match frame.
Removable maintenance access panel to be integrated.

6. Armrests
Folded G316 stainless steel with FSC hardwood
Mechanically fixed to steel frame.
Powder coated steel support to be inlaid into timber top.
Colour: Mars 2525 Sable Product Code: YX355F

7. Steel flashing to front elevations.
Mechanically fixed to steel frame to take up gap caused by gradient across bench.
Finish - Hot dip galvanised and powder coated steel flashing
Colour: Mars 2525 Sable Product Code: YX355F

8. Concrete foundations to engineers specification

9. Accessories
Allowance for stainless steel anti-skate fin to front face of bench. 12 no. total.

S4-P04 27-01-23 PCSA SR SAB

Revision	Date	Description	Drawn	Apprvd.

Planit I.E. Limited
E: info@planit-ie.com W: planit-ie.com
MANCHESTER
2 Back Grafton St., Altrincham, WA14 1DY
T: 0161 928 9281
LONDON
Unit 6 Waterside, 44-48 Wharf Road, London, N1 7UX
T: 0207 253 5678
LIVERPOOL
Tempest 5.3, 12 Tithebarn Street, Liverpool, L2 2DT
T: 0151 363 1230

Client Manchester Metropolitan University

Project MMU Landscape Masterplan,
Manchester

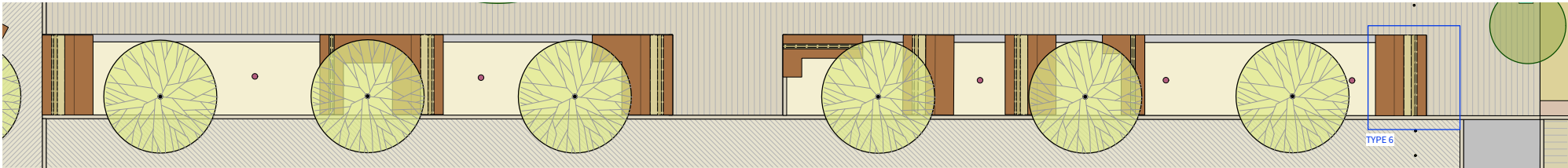
Drg Title Seating Details - Tree Surround - Bench 5
Phase 1A

Created on	Created by	Approved by
03.03.20	SR	SAB

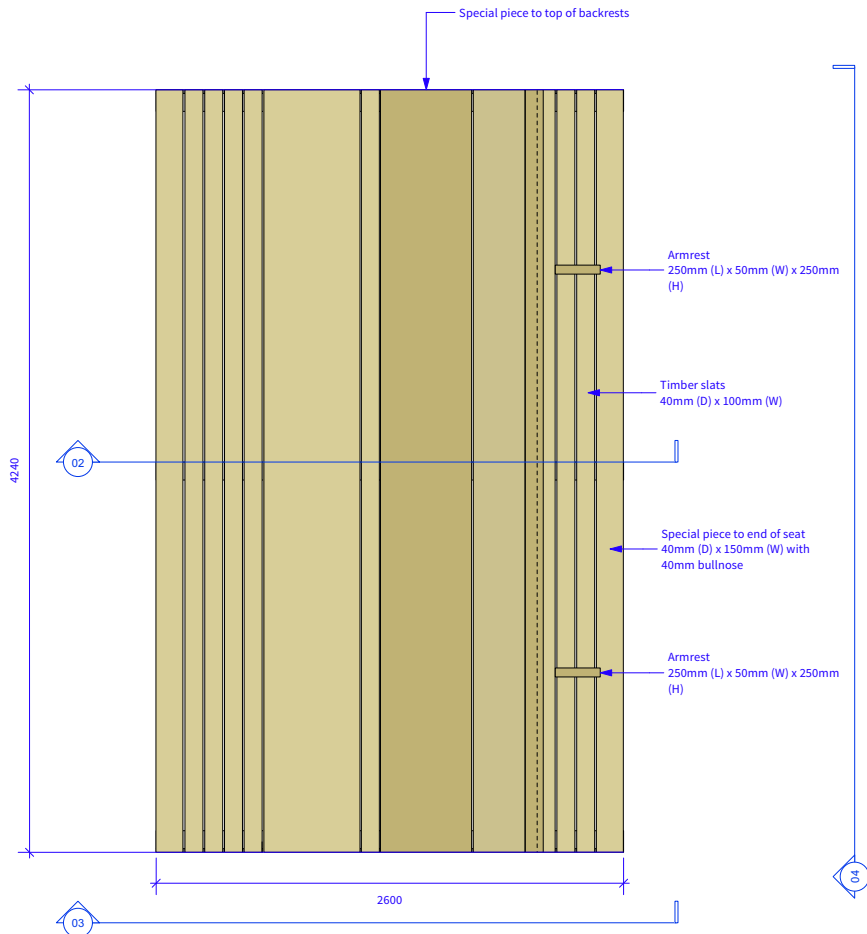
Scale	Size	Workstage
As Shown	A1	Stage 4

Drg No.	Suitability	Revision
1958-PLA-01A-XX-DR-L-7018	S4	P04

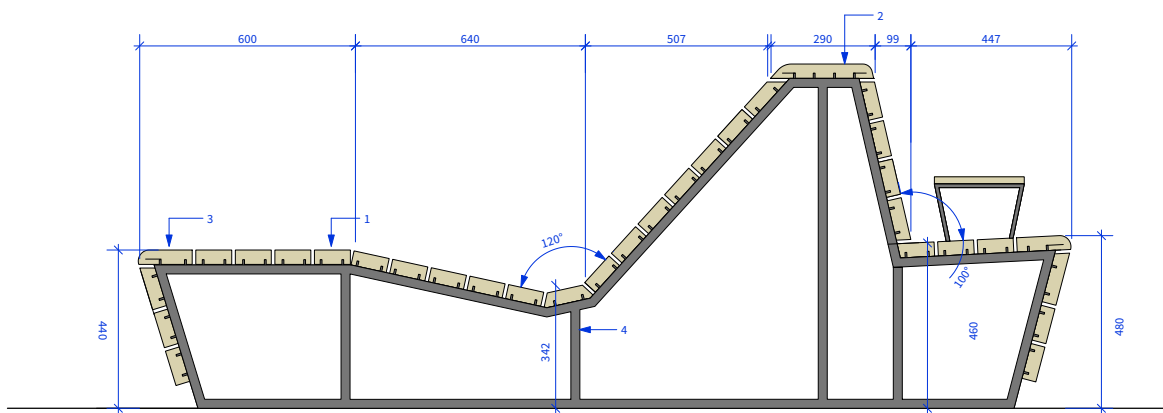
© Planit I.E. Limited



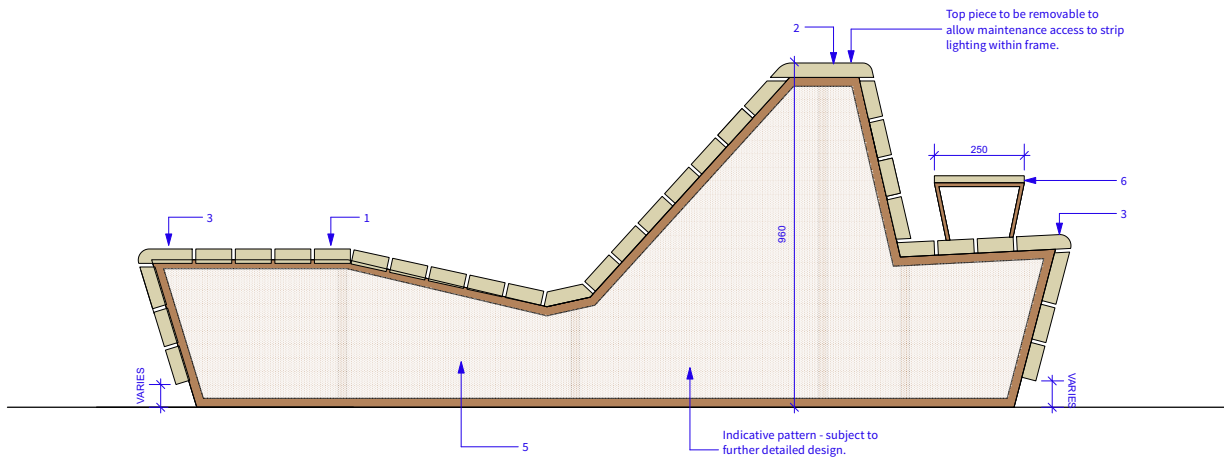
Location plan (scale 1:150)



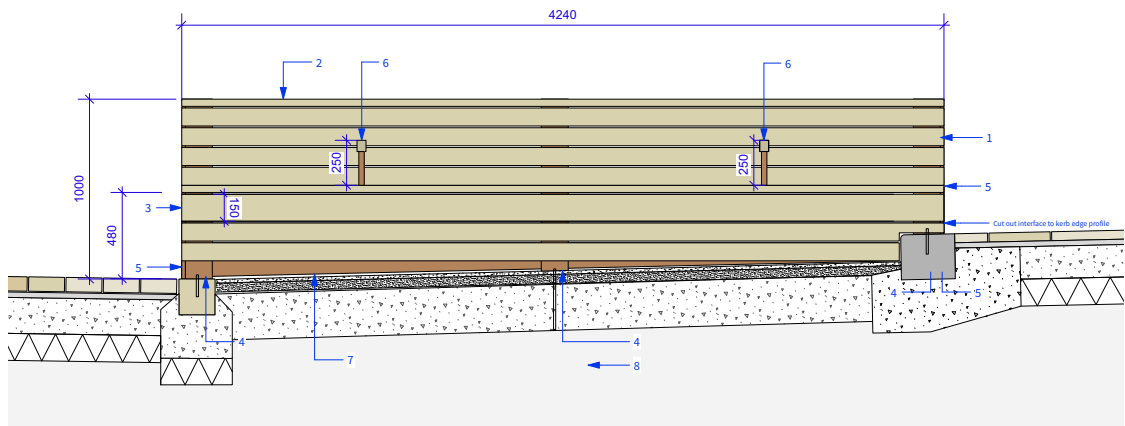
01 Tree Surround Type 6 - Plan View
1:20



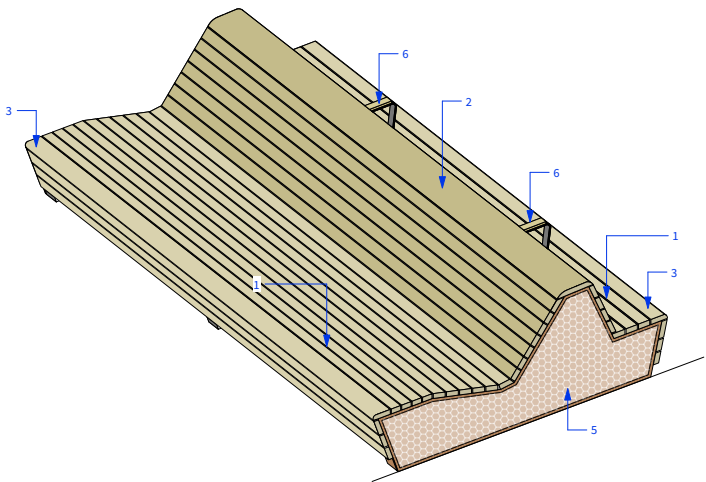
02 Tree Surround Type 6 - Section A - Through Width
1:10



03 Tree Surround Type 6 - Elevation B - End Profile
1:10



04 Tree Surround Type 6 - Elevation C - Front Profile
1:20

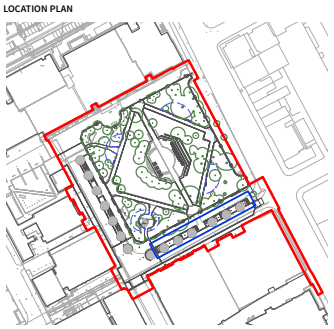


05 Tree Surround Type 6 - Axonometric
NTS

DESIGN INTENT ONLY
Foundations to engineers specification.
subject to approval of manufacturers
drawings, all measurements to be
checked on site prior to ordering and
fabrication.

THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE
REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN AUTHORITY
FROM THE OWNER.

- NOTES:**
1. Do not scale from this drawing.
 2. Always work to noted dimensions.
 3. All dimensions are in millimetres unless otherwise stated.
 4. All setting out, levels and dimensions to be agreed on site.
 5. The dimensions of all materials must be checked on site before being laid out.
 6. This drawing must be read with the relevant specification clauses and detail drawings.
 7. Order of construction and setting out to be agreed on site.



For location of benches refer to drawing:
1958-PLA-01A-XX-DR-L-4000

KEY
Refer to specification clause Q50 220G

- 1. Central timber slats**
Dimensions - 40mm (D) x 100 mm (W) x 2500mm (L)
Material: FSC hardwood cumaru certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved
- 2. Bespoke solid timber end piece to top of backrests**
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
Removable element to access integrated lighting on steel frame
beneath. Subject to manufacturers details.
Supplier: Woodscape or similar and approved
- 3. Bespoke timber end pieces to seat**
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved

All timber to be finished with clear Osmo UV Protection Oil
- 4. Steel frame - hot dipped galvanised steel frame**
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers
details. Mechanically fixed to concrete foundations or channel tops.
Fixings to engineer's specification.
Colour: Mars 2525 Sable Product Code: YX355F
Legs to account for gradient and kerb upland across bench width.
Steel frame to accommodate perspex panels to allow for diffusion of
light through slats.
- 5. Solid end panel - powder coated steel with laser cut outs and
perspex backing to diffuse light.**
10mm depth, dimensions as per drawings
Laser cut design subject to further detailed design
Colour: Mars 2525 Sable Product Code: YX355F
All fixings: Tamper proof and counter sunk fixings to match frame.
Removable maintenance access panel to be integrated.
- 6. Armrests**
Folded GS16 stainless steel with FSC hardwood
Mechanically fixed to steel frame
Powder coated steel support to be inlaid into timber top.
Colour: Mars 2525 Sable Product Code: YX355F
- 7. Steel flashing to front elevations.**
Mechanically fixed to steel frame to take up gap caused by gradient
across bench.
Finish - Hot dip galvanised and powder coated steel flashing
Colour: Mars 2525 Sable Product Code: YX355F
- 8. Concrete foundations to engineers specification**
- 9. Accessories**
Allowance for stainless steel anti-skate fin to front face of bench.
6 no. total

S4-P04 27-01-23 PCSA SR SAB

Revision	Date	Description	Drawn	Apprvd.
----------	------	-------------	-------	---------

Planit I.E. Limited
E: info@planit-ie.com W: planit-ie.com
MANCHESTER
2 Back Grafton St, Altrincham, WA14 1DY
T: 0161 928 9281
LONDON
Unit 6 Waterside, 44-48 Wharf Road, London, N1 7UX
T: 0207 253 5678
LIVERPOOL
Tempest 5.3, 12 Tithebarn Street, Liverpool, L2 2DT
T: 0151 363 1230

Client Manchester Metropolitan University

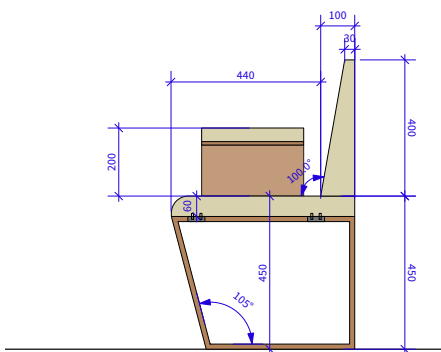
Project MMU Landscape Masterplan,
Manchester

Drg Title Seating Details - Tree Surround - Bench 6
Phase 1A

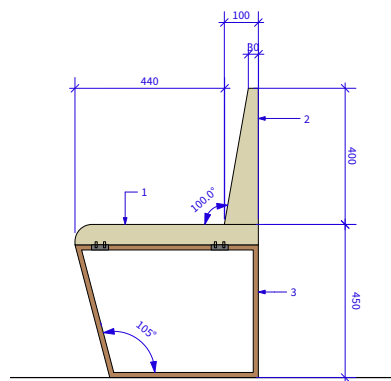
Created on	Created by	Approved by
03.03.20	SR	SAB

Scale	Size	Workstage
As Shown	A1	Stage 4

Drg No.	Suitability	Revision
1958-PLA-01A-XX-DR-L-7019	S4	P04



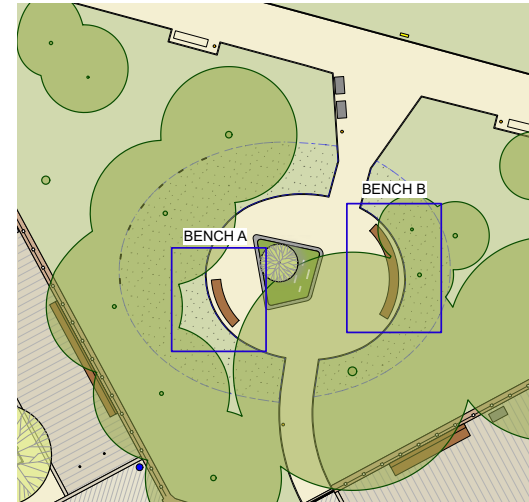
01 Typical Section A-A'
1:10



02 Typical Section B-B'
1:10

DESIGN INTENT ONLY

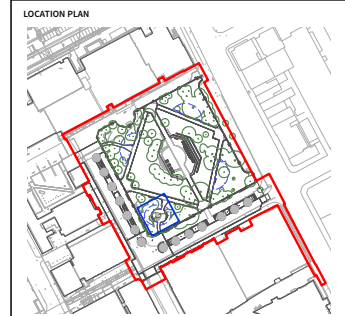
Foundations to engineers specification.
subject to approval of manufacturers drawings, all
measurements to be checked on site prior to ordering
and fabrication.



LOCATION PLAN (scale 1:200)

THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE
REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN AUTHORITY
FROM THE OWNER.

- NOTES:**
1. Do not scale from this drawing.
 2. Always work to noted dimensions.
 3. All dimensions are in millimetres unless otherwise stated.
 4. All setting out, levels and dimensions to be agreed on site.
 5. The dimensions of all materials must be checked on site before being laid out.
 6. This drawing must be read with the relevant specification clauses and detail drawings.
 7. Order of construction and setting out to be agreed on site.



For location of benches refer to drawing:
1958-PLA-01A-XX-DR-L-4000

KEY
Refer to specification clause Q50 225B

1. Timber slats to seat
Dimensions - 40mm (D) x 100 mm (W)
Material: FSC hardwood certified timber - cumaru
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved

2. Timber slats to backrest
Sizes vary - refer to drawing
Material: FSC hardwood certified timber
All fixings: Tamper proof and counter sunk fixings to match frame.
Supplier: Woodscape or similar and approved

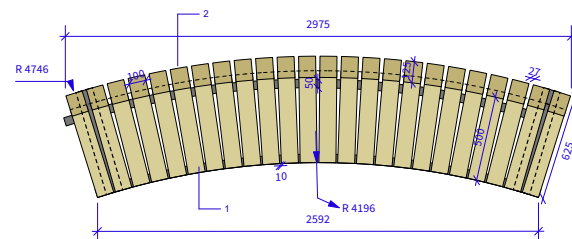
All timber to be finished with clear Osmo UV Protection Oil

3. Steel frame - hot dipped galvanised powder coated steel frame
Dimensions - 10mm (D) x 100mm (W) Subject to manufacturers details.
Mechanically fixed to concrete foundations. Fixings to engineer's specification.

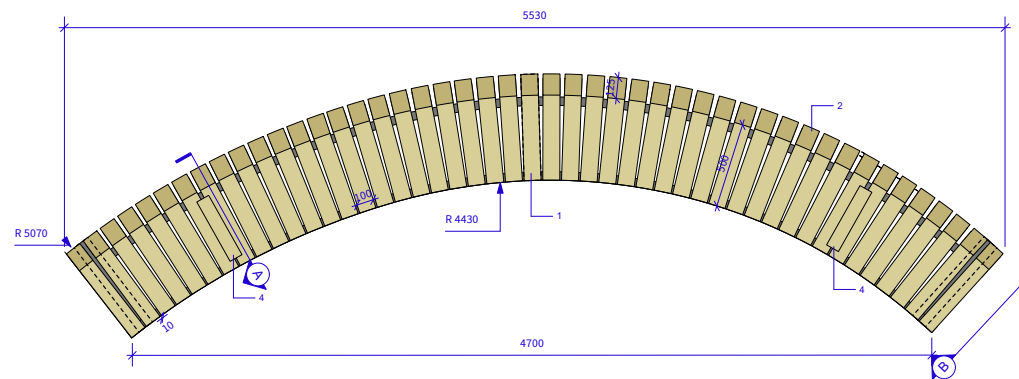
4. Armrests
Folded powder coated steel with FSC hardwood certified timber top. Mechanically fixed to steel frame. Steel support to be inlaid into timber top.

5. Resin Bound Gravel
Refer to drawing 1958-PLA-01A-XX-DR-L-1000

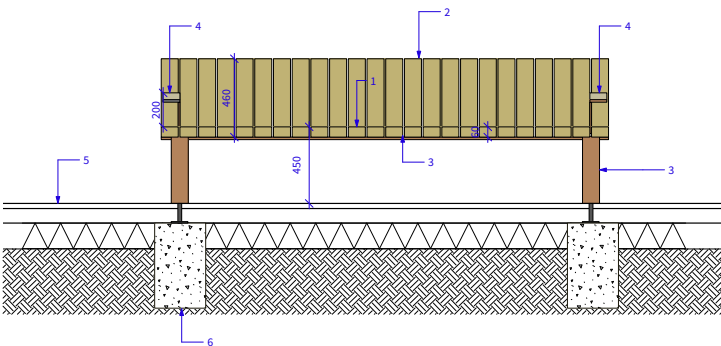
6. Concrete pad foundations to engineers specification
All metal work to be powder coated in -
Colour: Mars 2525 Sable Product Code: YX355F



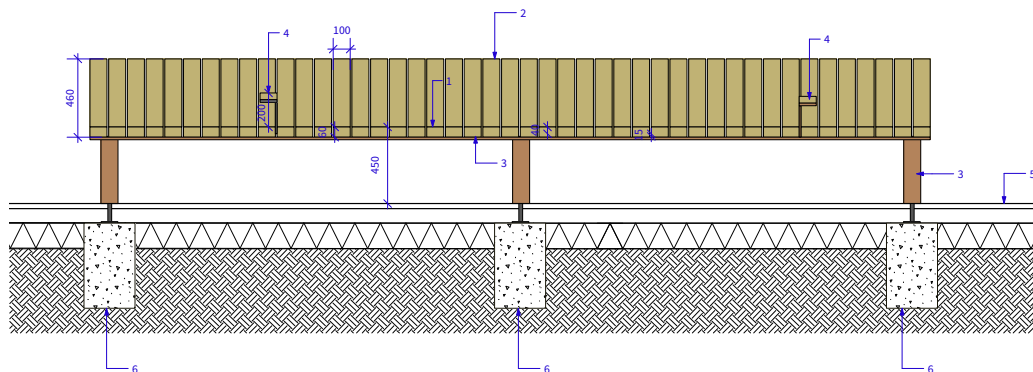
03 Memorial Bench A - Plan View
1:20



04 Memorial Bench B - Plan View
1:20



05 Memorial Bench A - unfolded elevation
1:20



06 Memorial Bench B - unfolded elevation
1:20

Revision	Date	Description	Drawn	Apprvd.
----------	------	-------------	-------	---------

Planit I.E. Limited
E: info@planit-ie.com W: planit-ie.com
MANCHESTER
2 Back Grafton St, Altrincham, WA14 1DY
T: 0161 928 9281
LONDON
Unit 6 Waterside, 44-48 Wharf Road, London, N1 7UX
T: 0207 253 5678
LIVERPOOL
Tempest 5.3, 12 Tithebarn Street, Liverpool, L2 2DT
T: 0151 363 1230

Client Manchester Metropolitan University

Project MMU Landscape Masterplan,
Manchester

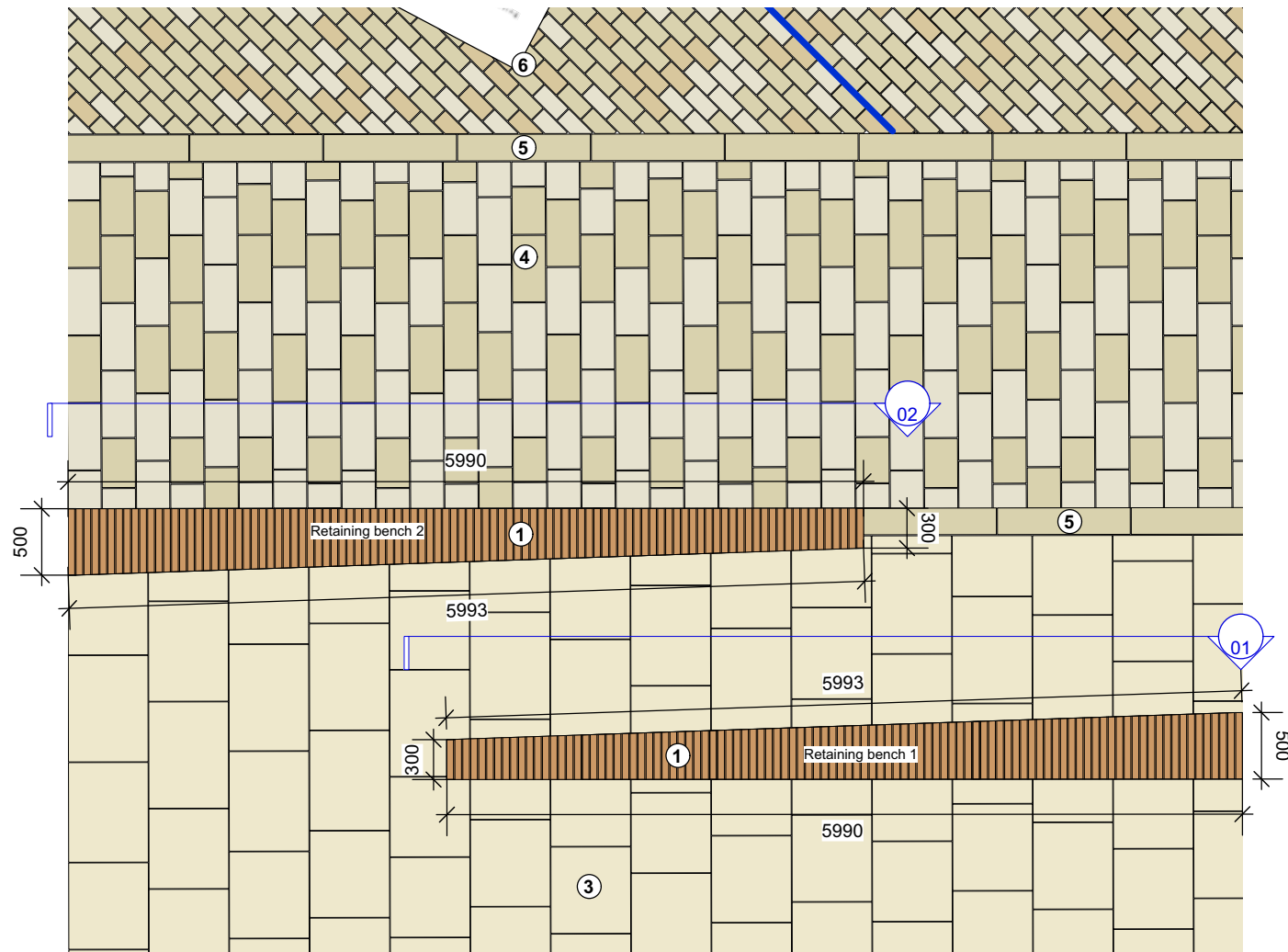
Drg Title Seating Detail - Memorial Garden Bench
Phase 1A

Created on 03.03.20 Created by SR Approved by SAB

Scale As Shown Size A1 Workstage Stage 4

Drg No. 1958-PLA-01A-XX-DR-L-7020 Suitability S4 Revision P04

© Planit I.E. Limited



KEY

1. Timber seating top:
50mm x 100mm x 300-500mm FSC
hardwood slats fixed on a stainless steel
flatbar frame. Outer edges to have 15mm
bullnose. Slats cut to follow profile of stone
plinth.

2. Solid granite plinth
Size: 540mm (H) x 1000mm (L) x
300-500mm (W) modules
Colour: Cathedral
Finish: Bush hammered.
To specification clause Q50 226A

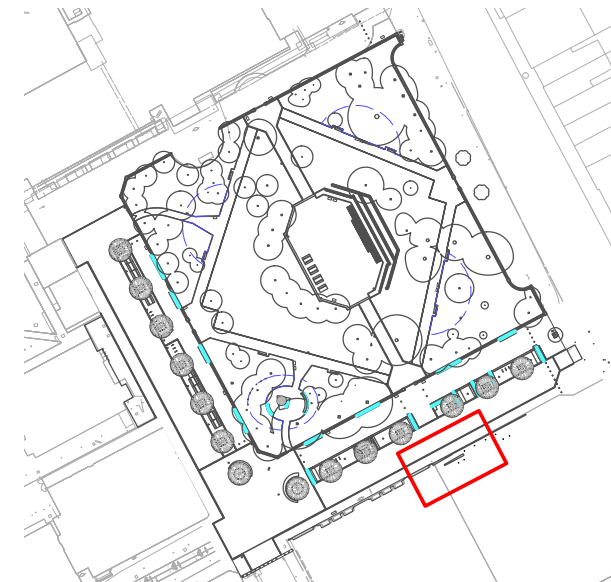
3. Natural stone paving **P5**
To specification clause Q25 690A

4. Natural stone paving **P1b**
To specification clause Q25 310A

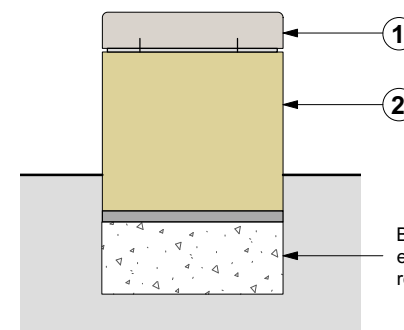
5. Natural stone edging **E1**
To specification clause Q10 120

6. Natural stone paving **P2**
To specification clause Q25 330

Refer to drawings:
1958-PLA-01A-XX-DR-L-1000 Hardworks
1958-PLA-01A-XX-DR-L4000 Furniture and
Lighting

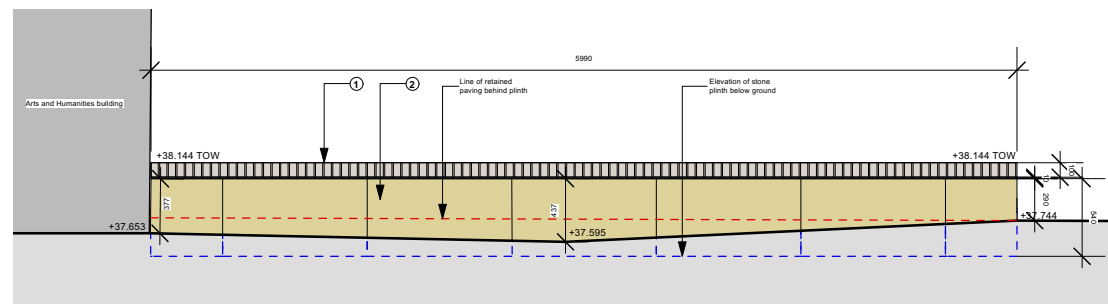


Location Plan (scale 1:2000)

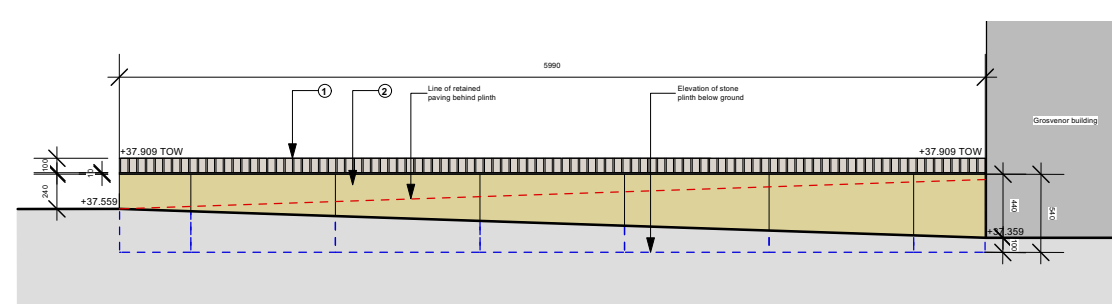


Build up and bedding to
engineer's specification,
refer to note 1.2

03 Retaining Bench - Typical Elevation
Scale: 1:20



01 Retaining Bench 1 - Elevation
Scale: 1:50



02 Retaining Bench 2 - Elevation
Scale: 1:50

THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE
REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN
AUTHORITY FROM THE OWNER.

- Do not scale from this drawing.
- Always work to noted dimensions.
- All dimensions are in millimetres unless otherwise stated.
- All setting out, levels and dimensions to be agreed on site.
- The dimensions of all materials must be checked on site before being laid out.
- This drawing must be read with the relevant specification clauses and detail drawings.
- Order of construction and setting out to be agreed on site.

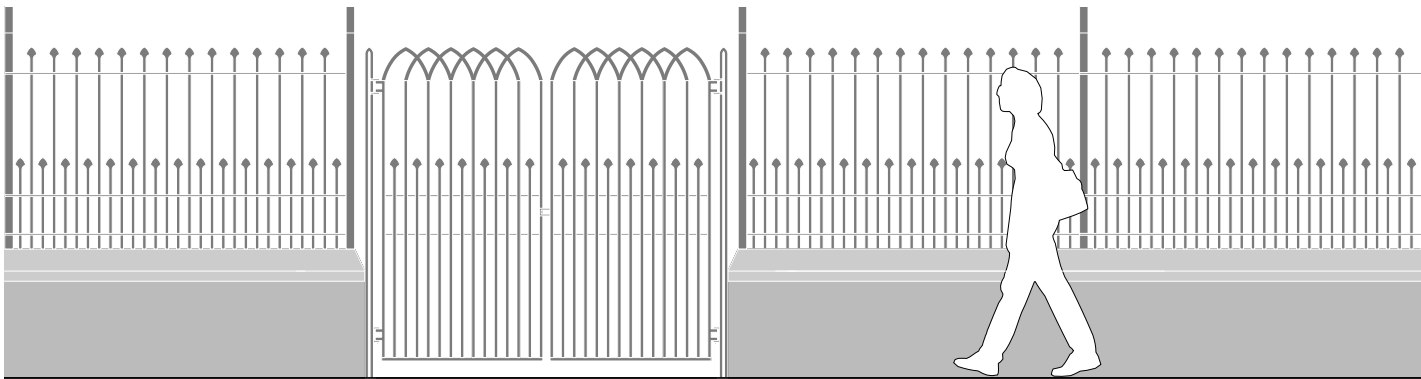
NOTES:

1.1 To be read in conjunction with drawings
2458-PLA-01A-XX-DR-L-1000-Hardworks
2458-PLA-01A-XX-DR-L-1001-Kerbs and
Edgings

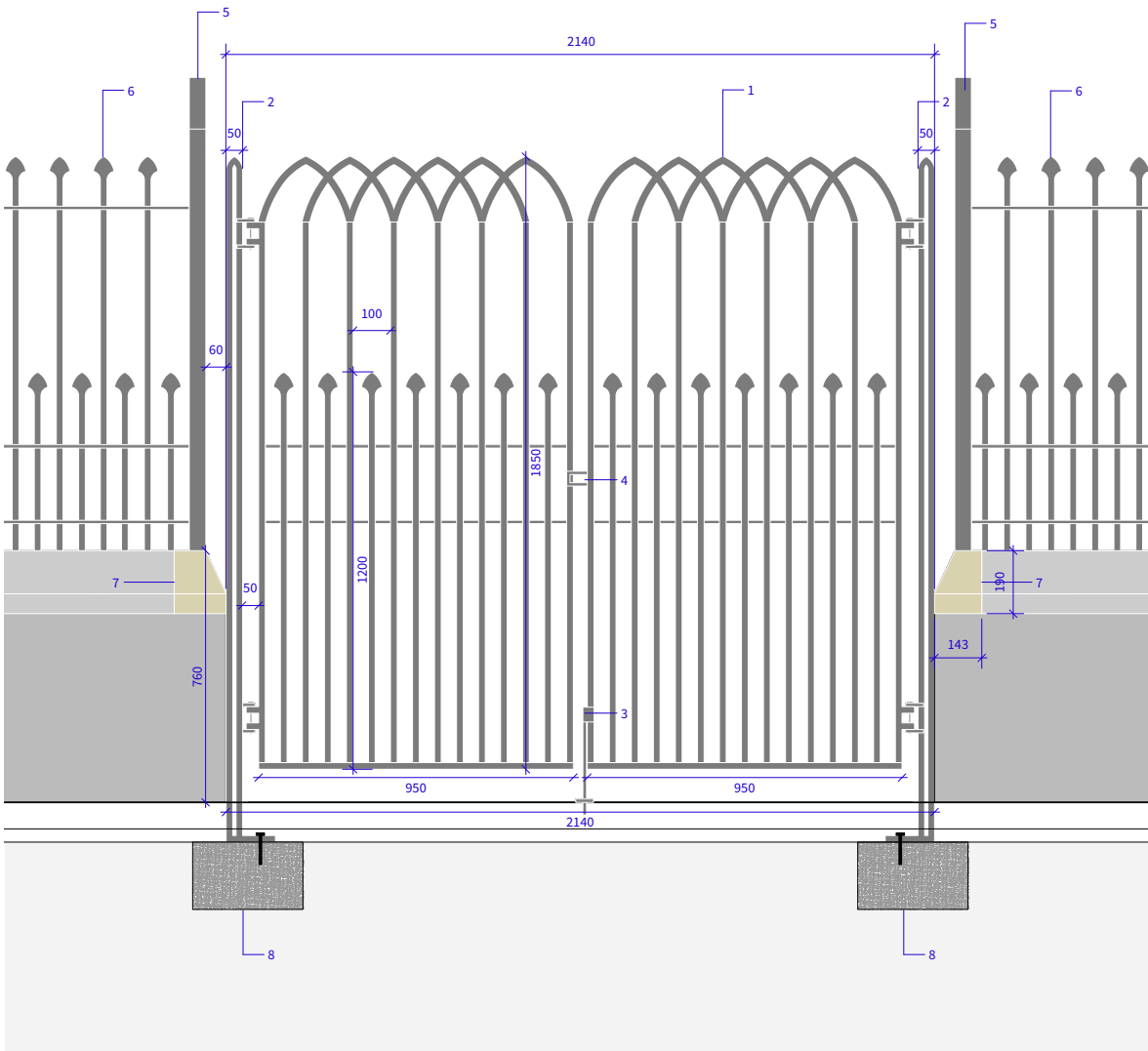
1.2 Refer to Curtin's drawings
75050-CUR-00-XX-DR-D-75001 for engineer's
information on paving build ups where
indicated.

1.3 Submit shop drawings for L.A. approval
before manufacture.

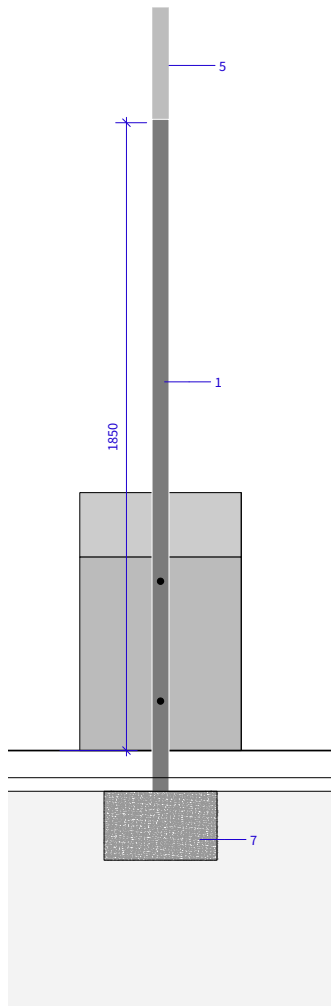
S4-P04	27-01-23	PCSA	SAB	LH
Revision	Date	Description	Drawn	Apprvd.
Planit I.E. Limited E: info@planit-ie.com W: planit-ie.com MANCHESTER 2 Back Grafton St., Altrincham, WA14 1DY T: 0161 928 9281 LONDON Unit 6 Waterside, 44-48 Wharf Road, London, N1 7UX T: 0207 253 5678 LIVERPOOL Tempest 5.3, 12 Tithebarn Street, Liverpool, L2 2DT T: 0151 363 1230				
Client	Manchester Metropolitan University			
Project	MMU Landscape Masterplan, Manchester			
Drg Title	Detail - Arts and Humanities benches			
Created on	28.08.20	Created by	SAB	Approved by
				LH
Scale	VARIES	Size	A3	Workstage
				Stage 4
Drg No.	1958-PLA-01A-XX-DR-L-7022	Suitability	S4	Revision
				P04



01 New park gates - Elevation 01
1:20

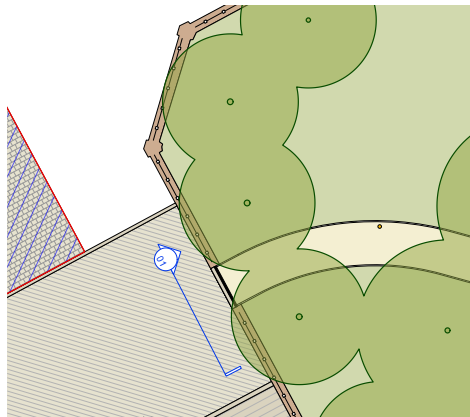


02 New Park Gates - Detailed elevation
1:10



03 New Park Gates - Section
1:10

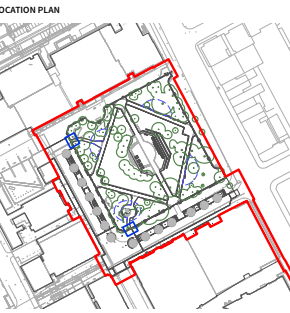
DESIGN INTENT ONLY
Foundations to engineers specification.
subject to approval of manufacturers
drawings, all measurements to be
checked on site prior to ordering and
fabrication.



New park entrances - location plans (scale 1:150)

THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE
REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN AUTHORITY
FROM THE OWNER.

- NOTES:**
1. Do not scale from this drawing.
 2. Always work to noted dimensions.
 3. All dimensions are in millimetres unless otherwise stated.
 4. All setting out, levels and dimensions to be agreed on site.
 5. The dimensions of all materials must be checked on site before being laid out.
 6. This drawing must be read with the relevant specification clauses and detail drawings.
 7. Order of construction and setting out to be agreed on site.



**For location of benches refer to drawing:
1958-PLA-01A-XX-DR-L-4000**

- KEY**
Refer to specification clause Q40 580
- 1. Bespoke Entrance Gate**
Dimensions - 50mm (W) x 1850mm (H) x 20mm (D)
Material: Iron
Cut out detail as per drawing.
All fixings: Tamper proof and counter sunk fixings.
Subject to further detailed design.
 - 2. Fixed Posts to Entrance Gates**
Dimensions - 950mm (W) x 1850mm (H) x 20mm (D)
Material: Wrought Iron
Finish: Galvanised and powder coated to match existing railings.
Fixed to concrete pad foundations to engineer's details.
All fixings: Tamper proof and counter sunk
 - 3. Drop bolt**
 - 4. Locking mechanism**
Subject to client confirmation
 - 5. New end piece to railing cut out. To match existing railing detail.**
 - 6. Existing Railings**
 - 7. New sandstone capping piece to end of wall cut out.**
 - 8. Concrete foundations to engineers specification**

Revision	Date	Description	Drawn	Appr'd.
----------	------	-------------	-------	---------

Planit I.E. Limited
E: info@planit-ie.com W: planit-ie.com
MANCHESTER
2 Back Grafton St., Altrincham, WA14 1DY
T: 0161 928 9281
LONDON
Unit 6 Waterside, 44-48 Wharf Road, London, N1 7LX
T: 0207 253 5678
LIVERPOOL
Tempest 5.3, 12 Tithebarn Street, Liverpool, L2 2DT
T: 0151 363 1230

Client Manchester Metropolitan University

Project MMU Landscape Masterplan,
Manchester

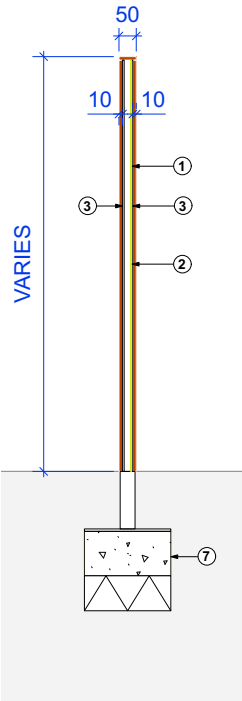
Drg Title Furniture Detail - All Saints Entrance Gate
Phase 1A

Created on 01.09.20 **Created by** SR **Approved by** SAB

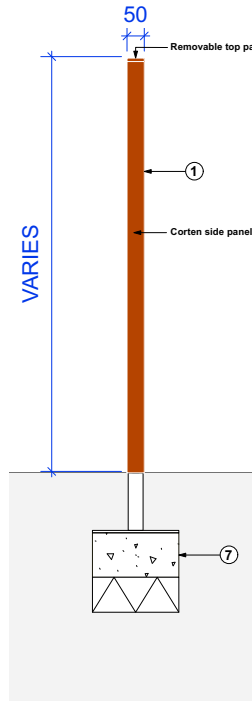
Scale As Shown **Size** A1 **Workstage** Stage 4

Drg No. 1958-PLA-01A-XX-DR-L-7023 **Suitability** S4 **Revision** P05

© Planit I.E. Limited



02 Memorial garden feature - section 02
Scale: 1:10



03 Memorial garden feature - elevation 03
Scale: 1:10

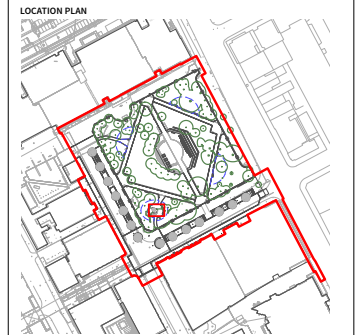
- KEY**
Refer to specification clause Q50 340
- Memorial Sculpture elements**
Material: Corten Steel, 10mm thick
Mechanically fixed to concrete foundation.
Allowance for perforated pattern and inner perspex sheet to diffuse light-laser cut on both sides of steel sheet. Shown indicatively only.
Size: Varies
All fixings to be countersunk and tamperproof.
Refer to drawing for dimensions.
Subject to further detailed design following review & comments by fabricator.
 - Integrated strip lighting.**
To lighting engineer's specification.
 - Light diffusing sheet**
Polycarbonate sheet to lighting engineer's specification.
 - Natural Stone Raised Edge**
 - Resin Bound Gravel**
Colour: Norwegian Pearl
Refer to 1958-PLA-01A-XX-DR-L-1000 for more information
 - Ornamental Shrub and Herbaceous Planting**
Refer to 1958-PLA-01A-XX-DR-L-2001 for more information
 - Concrete foundations and fixings to engineers specification.**

Memorial garden - illustrative visual



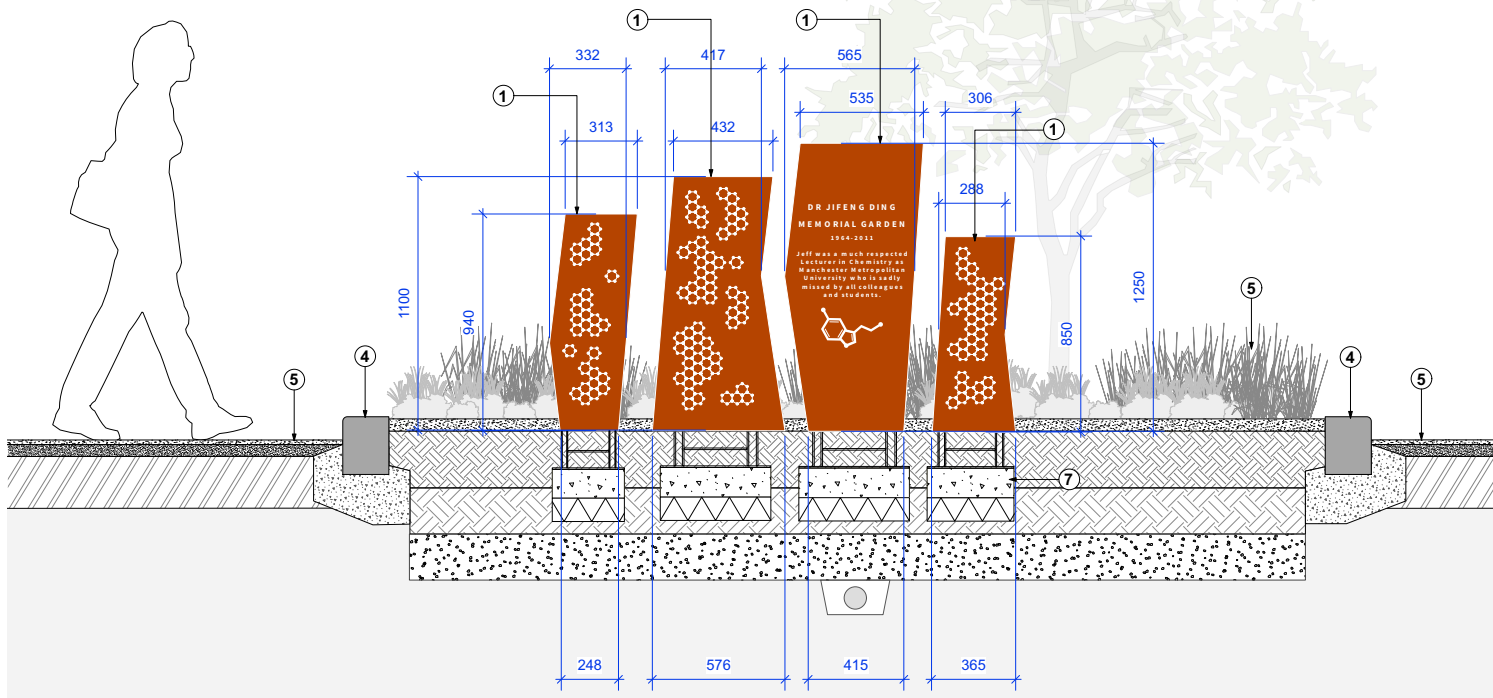
THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN AUTHORITY FROM THE OWNER.

- NOTES:**
- Do not scale from this drawing.
 - Always work to noted dimensions.
 - All dimensions are in millimetres unless otherwise stated.
 - All setting out, levels and dimensions to be agreed on site.
 - The dimensions of all materials must be checked on site before being laid out.
 - This drawing must be read with the relevant specification clauses and detail drawings.
 - Order of construction and setting out to be agreed on site.

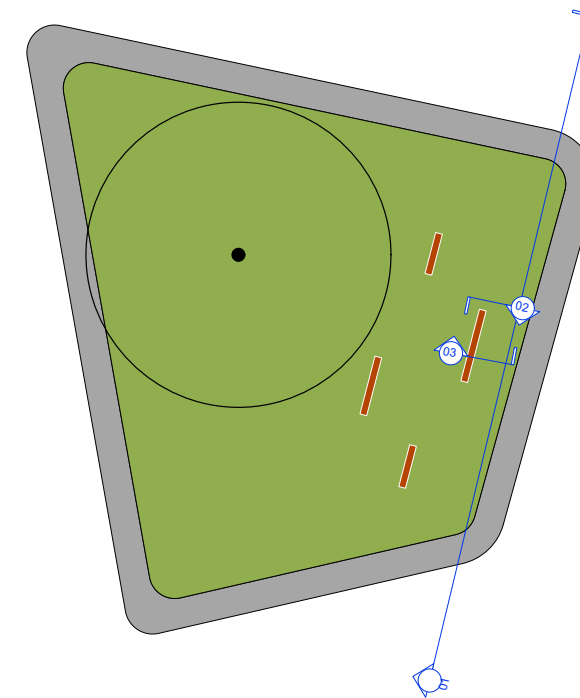


- NOTES:**
- To be read in conjunction with drawings 2458-PLA-01A-XX-DR-L-1000-Hardworks 2458-PLA-01A-XX-DR-L-1001-Kerbs and Edgings
 - Refer to Curtin's drawings for engineer's information on paving build ups where indicated.
 - Submit shop drawings for L.A. approval before manufacture.

DESIGN INTENT ONLY
Foundations to engineers specification.
subject to approval of manufacturers drawings, all measurements to be checked on site prior to ordering and fabrication.



01 Memorial garden feature - section 01
Scale: 1:10



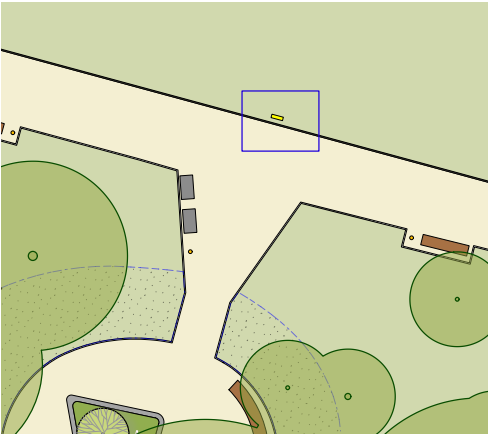
04 Memorial garden feature - Plan
Scale: 1:25

54/004	27-01-23	PCSA	SR	SAB
Revision	Date	Description	Drawn	Apprvd.
Planit I.E. Limited E: info@planit-ie.com W: planit-ie.com MANCHESTER 2 Back Grafton St., Altrincham, WA14 1DY T: 0161 928 9281 LONDON Unit 6 Waterside, 44-48 Wharf Road, London, N1 7UX T: 0207 253 5678 LIVERPOOL Tempest 5.3, 12 Tithebarn Street, Liverpool, L2 2DT T: 0151 363 1230				
Client	Manchester Metropolitan University			
Project	MMU Landscape Masterplan, Manchester			
Drg Title	Memorial Garden Feature Phase 1A			
Created on	11.09.20	Created by	SR	Approved by
Scale	VARIES	Size	A1	Workstage
				Stage 4
Drg No.	1958-PLA-01A-XX-DR-L-7021	Suitability	S4	Revision
				P04

© Planit I.E. Limited



Illustrative image - historic view finder

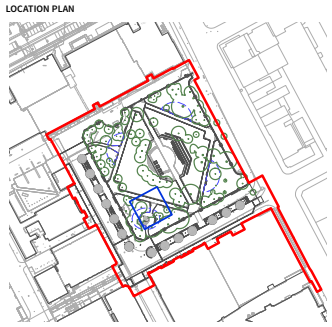


Location plan (scale 1:150)

THIS DRAWING IS COPYRIGHT PROTECTED AND MAY NOT BE REPRODUCED IN WHOLE OR PART WITHOUT WRITTEN AUTHORITY FROM THE OWNERS.

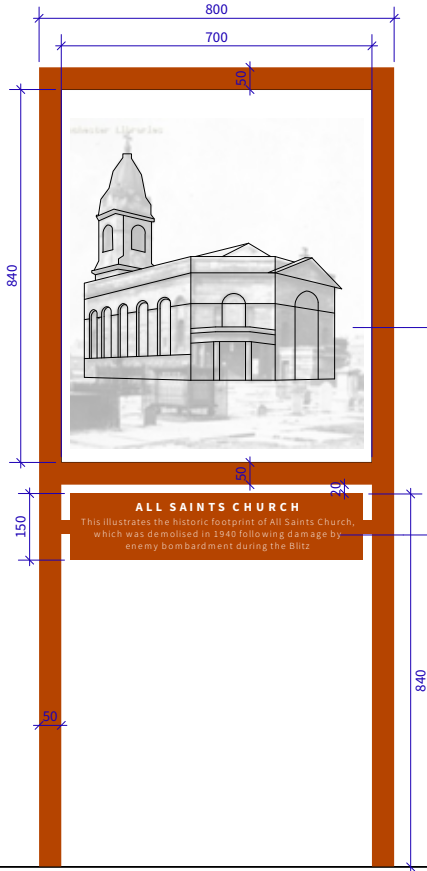
NOTES:

1. Do not scale from this drawing.
2. Always work to noted dimensions.
3. All dimensions are in millimetres unless otherwise stated.
4. All setting out, levels and dimensions to be agreed on site.
5. The dimensions of all materials must be checked on site before being laid out.
6. This drawing must be read with the relevant specification clauses and detail drawings.
7. Order of construction and setting out to be agreed on site.



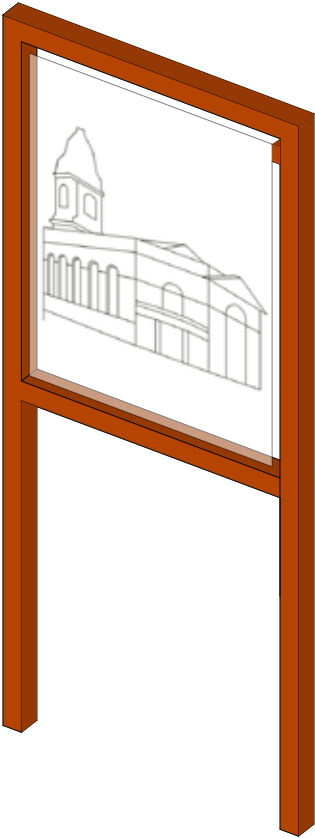
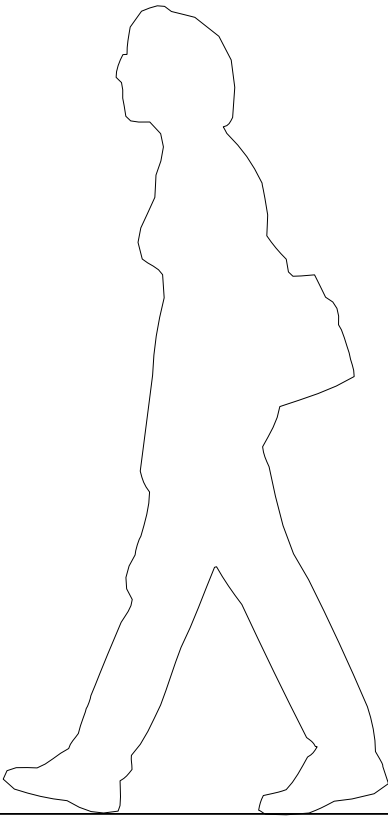
For location of viewfinder refer to drawing: 1958-PLA-01A-XX-DR-L-4000
Refer to specification clause Q50 340B

- 1. Box steel Signpost Frame**
Material: Hot dip galvanised powder coated steel
Colour: Mars 2525 Sable Product Code: YX355F
All fixings: Tamper proof and counter sunk fixings to match frame.
- 2. Printed Acrylic Interpretation Panel**
Subject to further detailed design. Etched image of All Saints Church.
Perspex or similar and approved.
Fixings to allow for replacement of sign.
- 3. Text Infill Panel**
Material: Hot dip galvanised steel. 20mm thick.
Finish: Powder Coated
Colour: Mars 2525 Sable Product Code: YX355F
Etched text at 0.2mm depth - to have white paint infill.
All fixings to be tamperproof.
- Fixed to concrete pad foundations to engineers specification**



Illustrated image of All Saints Church.
View shown is indicative - final illustration and orientation to be agreed on site to ensure correct alignment of view.

Perforated text feature - final text subject to review.



01 All Saints Church Viewfinder
1:8

02 All Saints Church Viewfinder - Axo
NTS

DESIGN INTENT ONLY
Foundations to engineers specification.
subject to approval of manufacturers drawings, all measurements to be checked on site prior to ordering and fabrication.

S4-P04	27-01-23	PCSA	SR	SAB
Revision	Date	Description	Drawn	Apprvd.

Planit I.E. Limited
E: info@planit-ie.com W: planit-ie.com
MANCHESTER
2 Back Grafton St., Altrincham, WA14 1DY
T: 0161 928 9281
LONDON
Unit 6 Waterside, 44-48 Wharf Road, London, N1 7UX
T: 0207 253 9678
LIVERPOOL
Tempest 5.3, 12 Tithebarn Street, Liverpool, L2 2DT
T: 0151 363 1230

Client Manchester Metropolitan University

Project MMU Landscape Masterplan, Manchester

Drg Title Furniture Detail - Viewfinder Sign Phase 1A

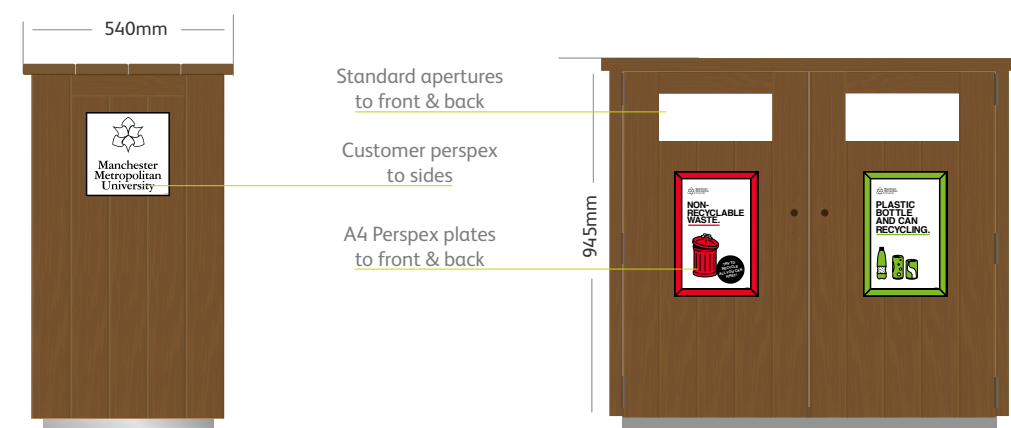
Created on	Created by	Approved by
01.09.20	SR	SAB

Scale	Size	Workstage
As Shown	A1	Stage 4

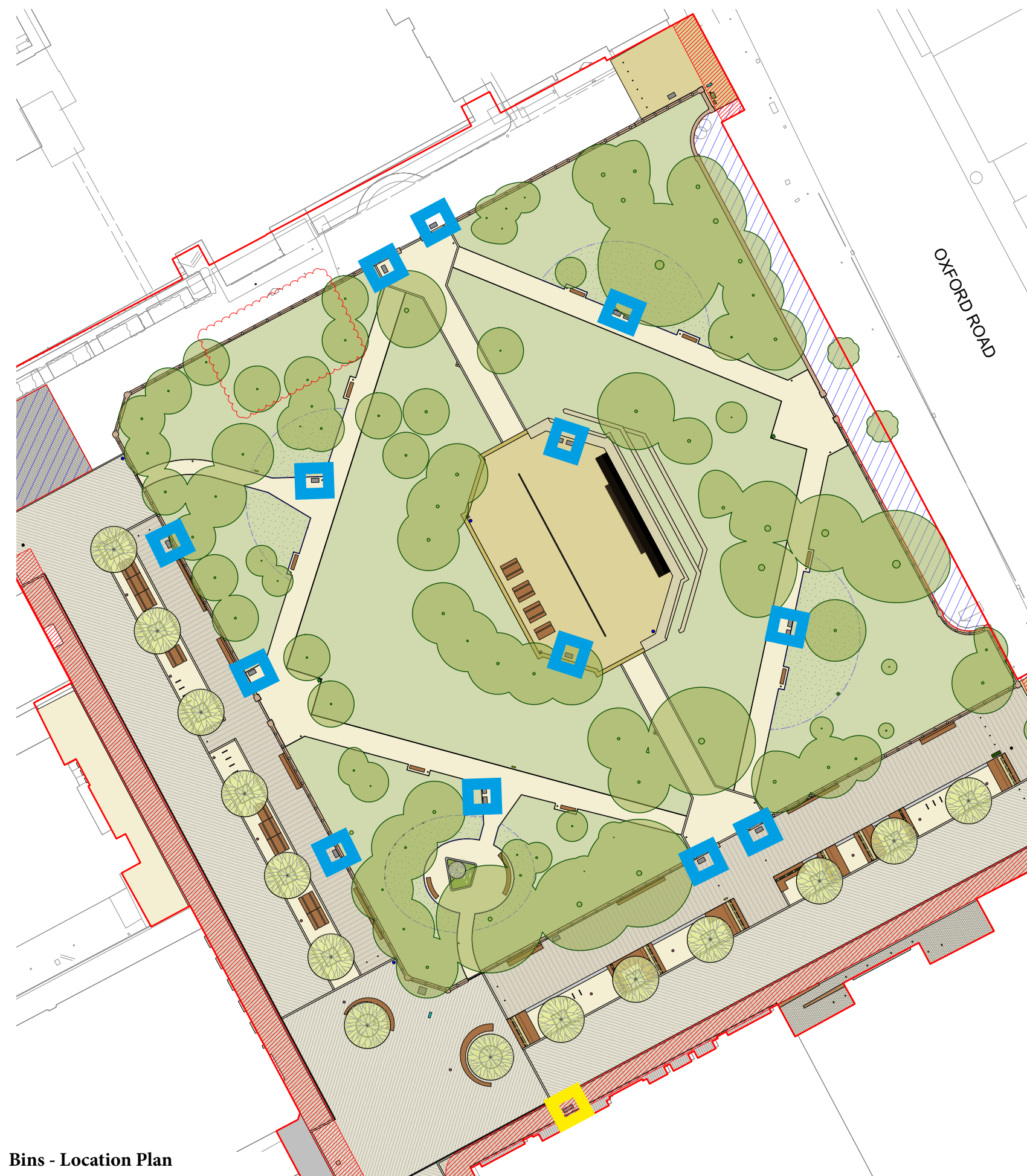
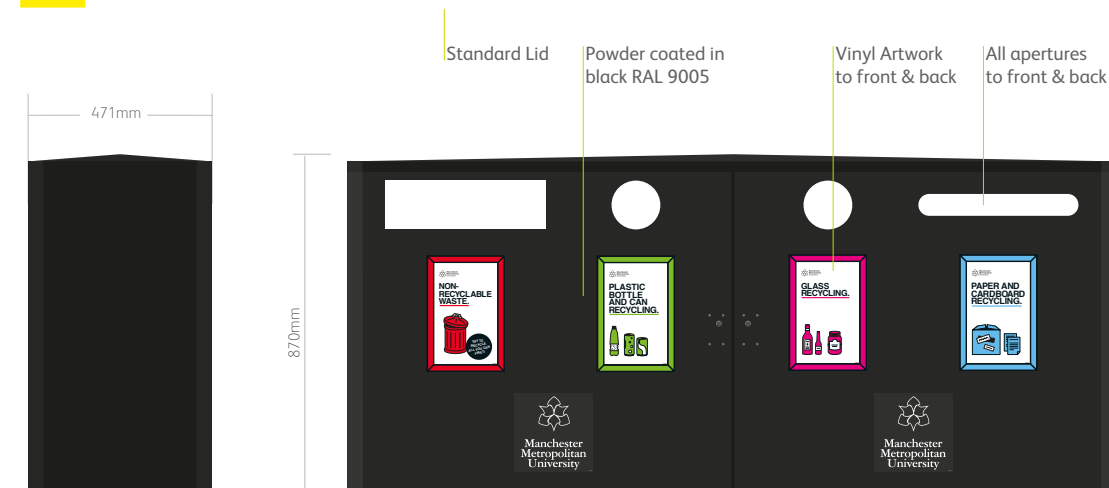
Drg No.	Suitability	Revision
1958-PLA-01A-XX-DR-L-7026	S4	P04

Bins

BIN TYPE 1 - Wooden clad

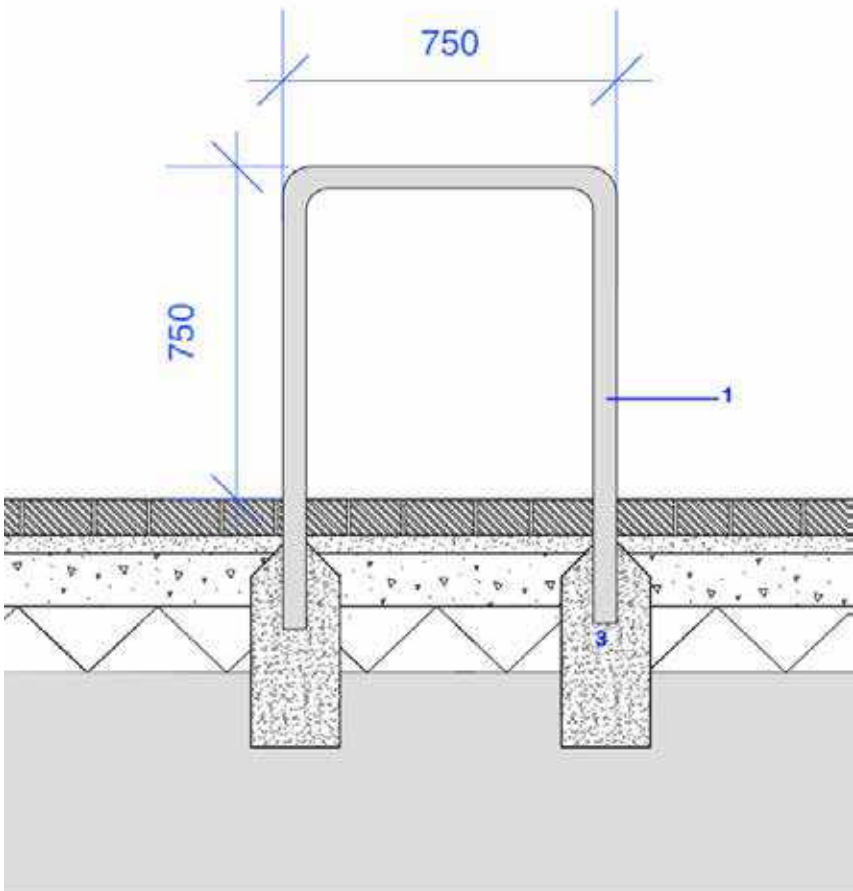


BIN TYPE 2 - Powder coated steel



Bins - Location Plan

Cycle Parking



Sheffield Cycle Stand
 Manufacturer: Marshalls or equal and approved
 Product reference: Sheffield Cycle Stand
 Material: Stainless Steel
 Finish: Stainless Steel, Grade 316 Satin Finish
 Size: 750mmH x 750mmW
 Fixing: Root Fixed in concrete below ground to Engineer's specification



Cycle Spaces - Location Plan

Lighting

LIGHTING GENERAL ARRANGEMENT

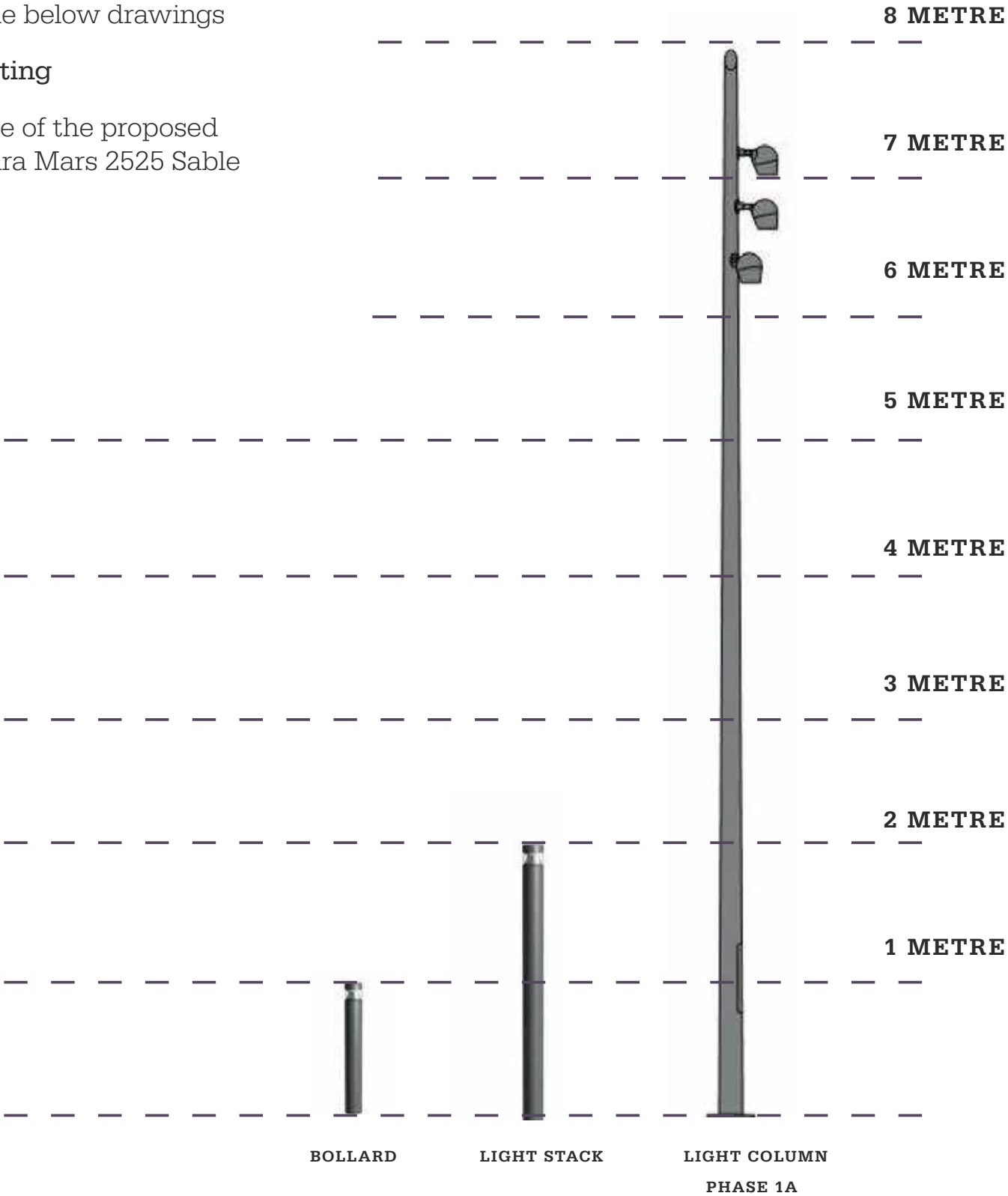
Locations of lighting elements can be found on the below drawings

1958-PLA-01A-XX-DR-L-4000-Furniture and Lighting

The adjacent images show the aesthetic and scale of the proposed products. These will be powder coated in a ' Futura Mars 2525 Sable YX355F' finish shown in the below swatch.



COLOUR SWATCH



PRECEDENT IMAGES - SELUX LIGHTING

