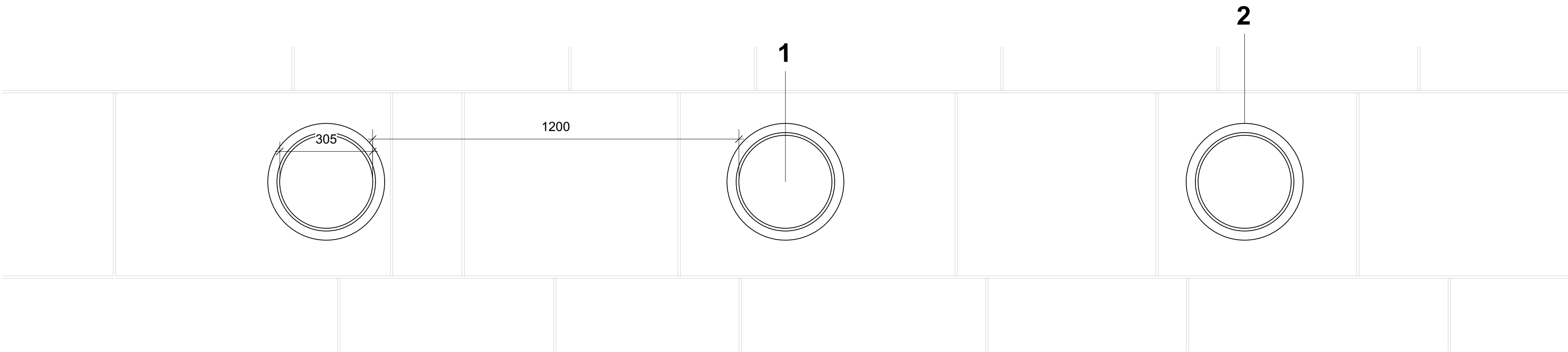
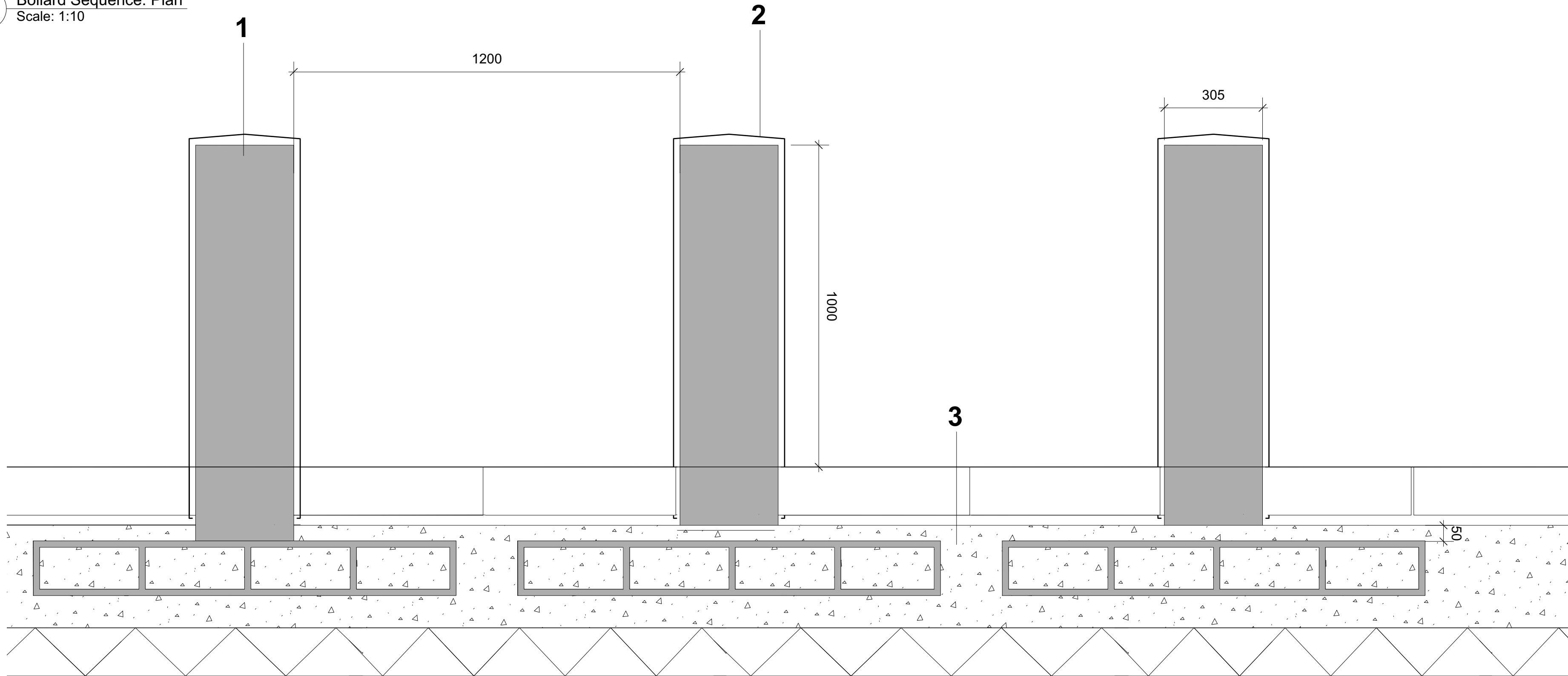
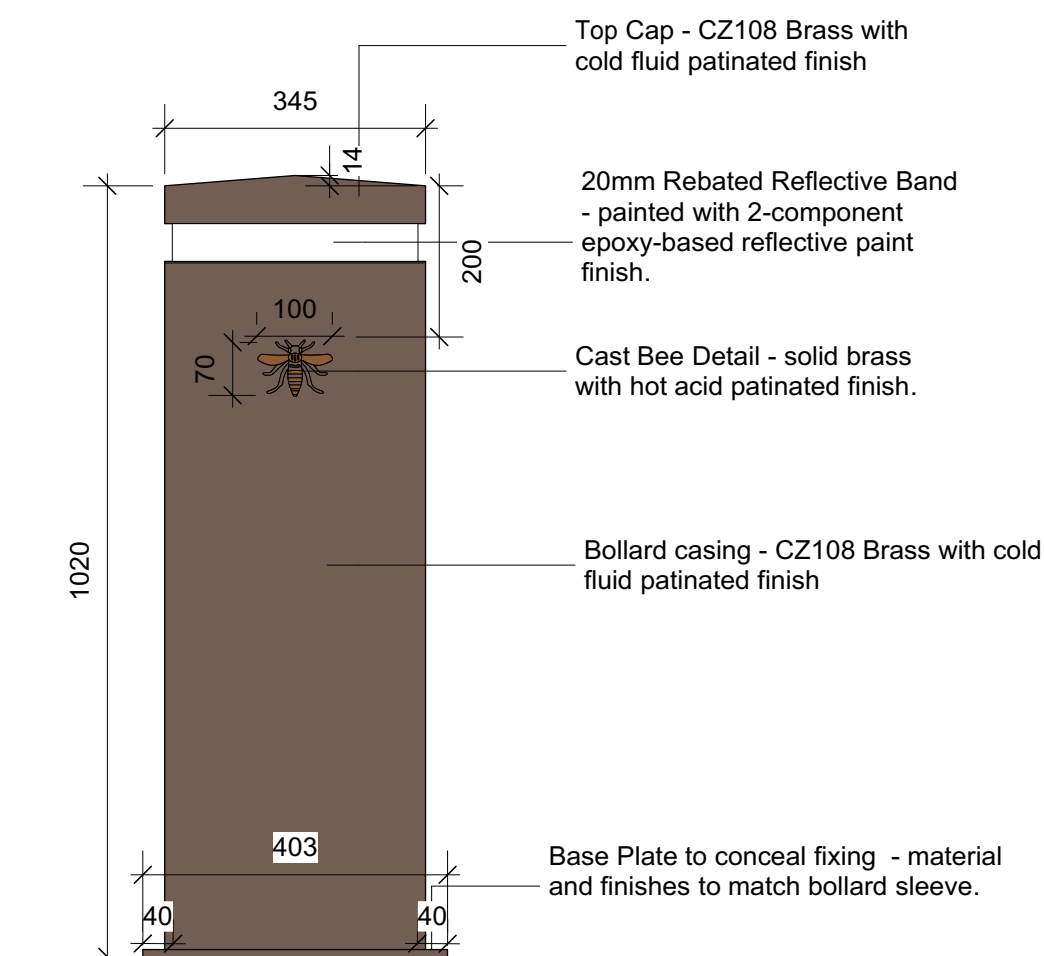




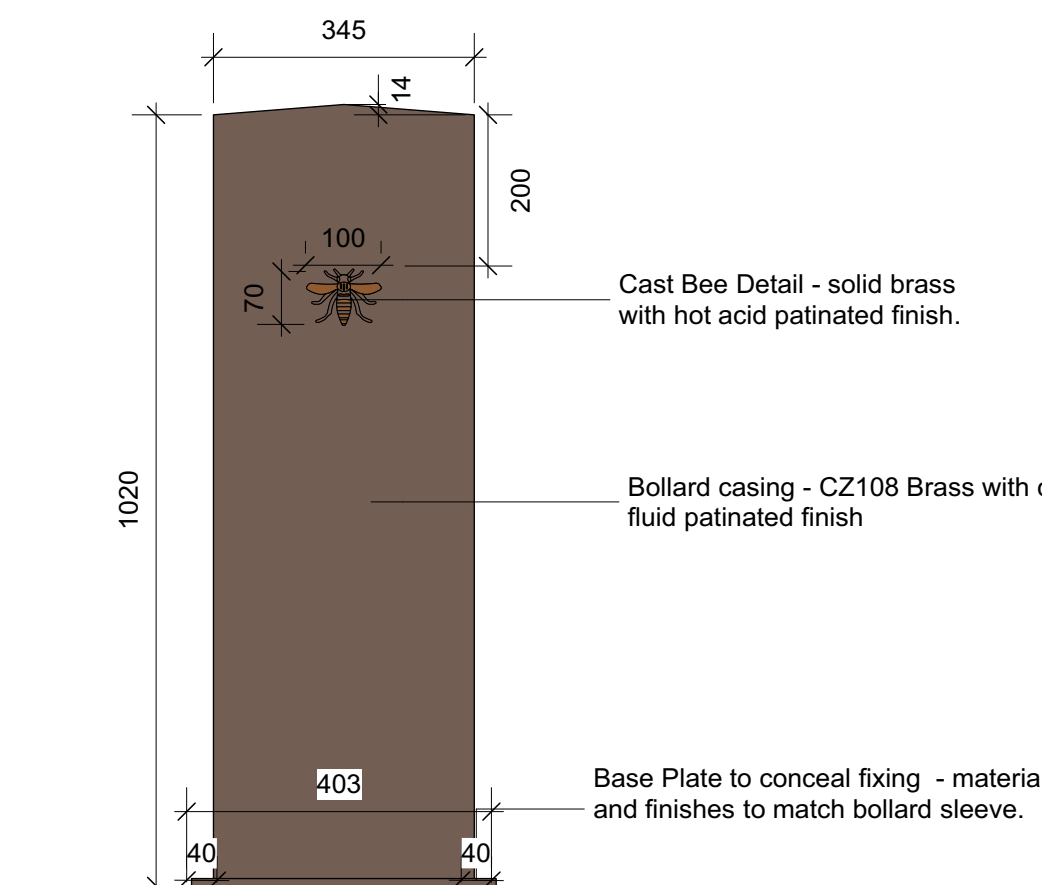
1 Bollard Sequence: Plan
Scale: 1:10



2 Bollard Sequence: Section
Scale: 1:10



3 Elevation: Bollard In Hard Landscape
Scale: 1:10



4 Elevation: Bollard In Soft Landscape
Scale: 1:10



Reference images, indicative only

KEY

1.Shallow mount HVM bollard.1000mm(H) x 305mm (W).

2. Bespoke Bollard Sleeve with Cast Bee Detail
Ref Q50/190

Supplier/Fabricator:
Heritage Project Contracts LimitedUnit 1A, Ainsdale DriveHarlescott Industrial EstateShrewsburySY1 3TL
Material: High purity cold forming CZ108 Brass (rolled sheet material)
Sizes: Dimensions as shown
Joints: continuously welded. Welds to be filed and sanded to smooth radius and seamless finish.
Finish: Cold fluid patinated to lightly abraded surface
Castings: Each sleeve to include 2no. cast bee details as shown on detail drawing.
Castings to be solid brass, with hot acid patinated finish.
Protection coat: hard wax (number of coats as recommended by fabricator to achieve a highly durable finish)
Reflective band: bollards within paved areas to have reflective band to top of sleeve as shown on detail drawings. Sleeve to be rebated and painted with 2-component epoxy-based reflective paint finish. Colour: white (tbc)
Base plate: To bollard base to conceal fixing, dimensions as shown on detail drawing. Material and finishes to match bollard sleeve.
Workmanship: All metalwork to be carefully dressed and finished to produce the design and effect desired and agreed through sample approval process.
Samples: Submit on request an executed full size sample of the bollard sleeve by the proposed fabricator including all components and finishes. Allow for development of samples and finishes in order to agree desired effect with Landscape Architect prior to executing full sized sample.
Submit manufacturer's fabrication drawings for approval prior to fabrication.
Allow for coordination of the bollard sleeve with all of the HVM bollard systems/suppliers proposed.
Allow for mechanisms to enable the bollard sleeves to be vertically/horizontally adjusted around the HVM bollard.
Allow for mechanical fixing detail, to be coordinated with HVM bollard systems/suppliers.

3. Concrete foundation
To manufacturers / engineers details - refer to ATG Access Ltd drawing REF 27490- SP1000 Auto- Example Foundation & Installation Details

REFER TO ARUP HVM SPECIFICATION: OTH-ARU-EX-ES-SPE-Y-0001

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NOTES:
1. Derived from this drawing
2. Derived from this drawing
3. All dimensions are in millimeters unless otherwise stated
4. All drawings are to be drawn in accordance with the design code
5. The dimensions of all materials must be checked on site before being put in
6. This drawing must be read with the relevant specification sheets and detail drawings
7. Details of construction and setting must be agreed on site

Revision Notes:

Revision	Date	Description	Drawn	Apprvd.
06	27/08/21	Construction Issue	SR	MS
05	06/09/19	Planning Issue	SR	MS
04	26/07/19	Stage 4	SR	MS
03	29/05/19	Stage 3+ Issue	SR	MS
02	04/12/18	Refer to revision notes	AD	MS
01	30/11/18	Stage 3 Issue	AD	MS/KR

	Planit I.E. Limited E: info@planit-ie.com W: www.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
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Client Manchester City Council

Project Our Town Hall

Drg Title Bollard Detail

Created on 30.11.18 Created by AD Approved by MS/KR

Scale 1:10 Size A1 Workstage Stage 5

Drg No. OTH-PLA-EE-ES-DWG-L-7003 Suitability D2 Revision 06

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