

Greig & Stephenson Architects Limited

Kirklees Council

Huddersfield Market Regeneration Project

NBS - Huddersfield Market

HMH-GSA-TM-XX-T-A-1700 – P03

28-04-2026

Temporary Market

Regeneration of Huddersfield Market and surrounding
public realm

Contents

A9 General requirements	1
B05 Whole project fire safety	5
B91 Buildings in the landscape	6
Q40 Fencing	13
Q50 Site/ street furniture/ equipment	14
V90 Electrical systems	16

Rev	Date	Comments	WTN	CHK
P01	10/04/26	S4 – For Tender	NM	CL
P02	22/04/26	Following Clauses Amended: A9 105 - omitted 604 B91 215 220 240 365A 410A 410B 411 603 625 630 Q10 340 V90 250	NM	CL
P03	28/04/2026	Following clauses amended following agreement of change to include conc. strip foundation. B91 – 215 B91 – 220 B91 – 365A	NM	CL

A9 General requirements

General requirements

102 General requirements

1. Requirement: Comply with obligations relating to the project as a whole, detailed in the following clauses.

103 The work and its location

1. Description
 - 1.1. Scope: Market Building: New temporary market canopy structure

Mechanical, Electrical and Plumbing (MEP).
Provision of lighting and power and plumbing associated with Temporary Market building and cabins including new incoming services.
 - 1.2. Access: Pedestrian routes to be maintained to Tesco Car Park and Link Building (19 Brook Street) Fire Escape.

The market opening hours are generally from 9.00 to 16:00. The general market days are Mondays and Thursdays, and the second hand market runs on Tuesdays and Saturdays from 9.00am to 16.00pm. Wednesdays and Fridays are non-market days. The site is generally highly populated during market days and less so on non-market days. The general market is also open to the public on Bank Holidays from 9.00 to 16.00. The market also hosts seasonal and cultural events therefore it is important to coordinate the dates of the ground investigation and confirm safety measures with the client prior to undertaking.
 - 1.3. Relevant factors affecting the work: See: HMM-GSA-XX-XX-T-A-0001-Huddersfield Market Operational Requirements for further information regarding the operational activities and constraints of the main market hall.

Execution

602 Design and construction hazards and risks

1. Description: Refer to CDM Pre-Construction Information HMM-GSA-XX-XX-T-A-1021 Pre Construction Information for details including Designer's Risk Assessment and Site Constraints and Logistics plan.

The contractor is to review the PCI and respond accordingly in compliance with their role and duties as Principal Contractor under the Construction (Design and Management) Regulations 2015.
2. Below Ground Features: Risk to health and safety from concealed below ground services and utilities . Note HV cables are present inside within the red line boundary of the proposed temp market structure.
3. Public safety : The market is situated within the public realm which is busy with pedestrians, particularly during market days with a designated pedestrian route required to be maintained from the adjacent Tesco Car park and 19 Brook street fire escape.
4. Traffic : The surrounding carriageways of Brook Street, Lord Street and Byram Street are open to vehicle traffic.

603 Construction phase health and safety plan

1. Content: The contractor is required to produce a written plan setting out how health and safety issues will be addressed during the work, and to respond to any hazards and risks identified by the client and the designers.

Indicate any specific requirements.

The plan should be proportionate to the type and complexity of the work being undertaken, and should address some or all of the following:

- A description of the project, such as key dates and details of key members of the project team.
 - The health and safety aims for the project.
 - Site rules.
 - Arrangements to ensure cooperation between project team members and coordination of their work, e.g. regular site meetings.
 - Arrangements for involving workers.
 - Site induction.
 - Welfare facilities.
 - Fire and emergency procedures.
2. **Submit:** Not later than one week before the contract start date.

604 Existing services Services where work is planned or arises

1. Pre-commencement notifications to service providers
 - 1.1. Responsibility for notifications
 - 1.1.1. Electricity: Contractor.
 - 1.1.2. Gas: Contractor.
 - 1.1.3. Sewerage: Employer.
 - 1.1.4. Telecommunications (telephones, broadband, satellite TV, etc.): Contractor.
 - 1.1.5. Water: Contractor.
 - 1.2. Timing: Ensure that sufficient time is allowed so as not to delay progress.
2. Identification of services: Before starting work Contractor to verify positions of existing services.

606 Defects in existing work

1. **Reporting:** If discovered, immediately give notice. Do not cover or proceed with affected work until a response has been received.

607 Programme

1. **Scope:** Prepare a summary showing the sequence and timing of the principal parts of the work.
2. **Specific requirements:** none
3. **Submittal date:** With the Tender

608 General quality

1. Sizes
 - 1.1. General dimensions: Nominal.
 - 1.2. Cross section dimensions of timber: Finished dimensions.
2. Accuracy and fit
 - 2.1. Tolerances and dimensions: If likely to be critical to execution or difficult to achieve, either submit proposals as early as possible, or arrange for inspection of relevant aspects of partially finished work.
 - 2.2. General tolerances (maximum): To BS 5606 'Accuracy and tolerance in design and construction – guide'.
3. Execution generally
 - 3.1. Fixing: Fix, apply, install or lay components securely, accurately, plumb, neatly and in alignment.

- 3.2. Colour batching: Do not use different colour batches where they can be seen together.
- 3.3. Dimensions: Check on-site dimensions.
- 3.4. Finished work: Not defective, e.g. not damaged, disfigured, dirty, faulty or out of tolerance.
- 3.5. Ducts, chases and holes: Form during construction rather than cut. Where cutting/ drilling is necessary, submit proposals before beginning operation.
4. Work before completion: Make good all damage resulting from the work. Unless otherwise instructed, remove temporary markings, coverings and protective wrappings.
5. Cleaning: Clean the work thoroughly inside and out, including all accessible ducts and voids. Remove all splashes, deposits, efflorescence, rubbish and surplus materials.

609 Standards of products and execution

1. Products: Where, and to the extent that, products or work are not fully documented, they are to be:
 - Of a kind and standard appropriate to the nature and character of that part of the works where they will be used.
 - Suitable for the purposes stated in, or reasonably to be inferred from, the contract documents.
2. Execution
 - 2.1. Operatives: Appropriately skilled and experienced for the type and quality of work.
 - 2.2. Registration: With [Construction Skills Certification Scheme \(CSCS\)](#).
3. Submittals: Submit evidence of standards, suitability, skills and qualifications when requested.

610 Sourcing of products and materials

1. Generally
 - 1.1. Supply: Obtain materials and products of each type from the same source or manufacturer.
 - 1.2. Certification: Where relevant, submit evidence that materials and products have been sourced in a responsible and sustainable way.
 - 1.3. Quality: Consistent kind, size, quality and overall appearance.
 - 1.4. Product tolerances: Where critical, measure a sufficient quantity to determine compliance.
2. Manufacturers' recommendations
 - 2.1. General: Unless otherwise specified, use those supplied or recommended by main product manufacturer. Keep copies on site.
 - 2.2. Changes to recommendations or instructions since close of tender: Submit details. Do not proceed without written agreement.
 - 2.3. Ancillary products and accessories: Unless otherwise specified, use those supplied or recommended by main product manufacturer.
 - 2.4. Agrément-certified or other independently certified products: Comply with limitations, recommendations and requirements of relevant valid certificates.
 - 2.5. Conflict with other requirements: In the event of conflict with other specified requirements, seek advice/ instruction.
3. Substitution
 - 3.1. Products and execution: Only with approval with Architect
 - 3.1.1. Argument for substitution: If an alternative to that specified is proposed, submit reasons for proposal.
 - 3.1.2. Samples: Submit samples of proposed alternative.
 - 3.1.3. Documentation: Submit relevant documentation, including manufacturer and product reference, cost, availability, relevant standards, and copy of warranty/ guarantee.
 - 3.1.4. Approvals: Obtain approval before ordering alternative products or proceeding with work.

615 Certificates and warranties

1. **Submittals:** Provide evidence of all insurance cover, bonds, performance guarantees, scheme memberships, statutory and other notifications for which the contractor is responsible.
2. **Timing:** No later than one week before the contract start date.

620 Completion requirements

1. **Scope**
 - 1.1. **General:** No later than one week before the contract start date.
 - 1.2. **Building fabric:** Provide design criteria, maintenance details, product details, and environmental and trafficking conditions.
 - 1.3. **Building services:** Provide description and operation of systems, diagrammatic drawings, record drawings, identification of services, product details, equipment settings, maintenance schedules, consumable items, spares and emergency procedures.
 - 1.4. **Health and safety:** Produce a 'Health and Safety File' in accordance with the [Construction \(Design and Management\) Regulations](#) (as amended).
 - 1.5. **Documentation:** Guarantees, warranties, maintenance agreements, test certificates and reports.
Operation and maintenance manual.

Ω End of Section

B05

Whole project fire safety

Clauses

120 Fire safety strategy

1. Objective: Life safety
2. Building Regulations compliance approach: Refer to Black Cat Fire Strategy HMH-GSA-XX-XX-T-A-1023

Ω End of Section

B91

Buildings in the landscape

Clauses

Read in conjunction with Preliminaries and general conditions

System outline

105 Proprietary small buildings/ structures

1. Description: Temporary Market Building and associated WC cabins and Market Office
2. Building type: Public Market
3. Services requirements: Power supply and lighting, as [section V90](#)
B91 365 A
B91 410 A
B91 410 B
B91 411

System performance

215 Contractor's design

1. Design responsibility: Select type and design and detail Temporary Market Building as Clause 365 A
 - 1.1. Including: Market Building: Fabric and structure, fixings between elements, anchorage to supporting structure and functionality.

Mechanical, Electrical and Plumbing (MEP) Design: All MEP associated with Temporary Market building including new incoming services.

Supplied by Customer:
Surface and Foul water drainage
Cabin foundations
Strip foundation to 3 sides perimeter of temporary market building
2. Structural performance requirement
 - 2.1. Design: Complete the design in accordance with the designated code of practice to satisfy specified performance criteria.
 - 2.2. Wind Loading: The temporary building shall be designed to resist wind actions in accordance with BS EN 1991-1-3 & 4 (Eurocode 1) and the UK National Annex.

Where the structure falls within the scope of temporary demountable structures (e.g. tents or marquees), design and verification shall also demonstrate compliance with DIN EN 13782.

Full structural calculations for wind loading, including assumptions, exposure category, and applied load cases, shall be submitted for review.

Full structural calculations for snow loading, including ground snow load, shape coefficients, and applied load cases, shall be submitted for review.
3. Fire performance requirement
 - 3.1. Generally: As [section B05](#).
 - 3.2. Modifications: None
4. Functional requirements: Satisfy specified criteria for Durability of fabric as Clause B91 220.

5. **Additional requirements:** Location, size and acceptable loading on anchorages to be checked for suitability with design and detailing of supporting structure
6. **Design and production information:** Detail drawings showing anchorages to supporting structure, structural calculations or main structure and wind and snow loadings.

Detail drawing of any conc.ballast block locations and proximity to internal market stalls.

Method statements and quality plan for manufacture, transportation and installation

7. **Timing of submissions:** Before Placement of Fabrication Order. Allow for 5 days notice for client decisions on any Contractor Proposals.
8. **Verification:**
 - 8.1. **Submittals::** as B91 216.6
 - 8.2. **Timing::** Before Placement of Fabrication Order

220 Durability

1. **Description:** Of Temporary Market Building
2. **Minimum life span**
 - 2.1. **Fabric**
 - 2.1.1. **Element:** PVC coverings
 - 2.1.2. **Duration:** Minimum to match the contract period
 - 2.2. **Finishes:** All
 - 2.2.1. **Item:** Steel Sheeting wall Panels
 - 2.2.2. **Duration:** minimum to match the contract period
3. **Verification:**
 - 3.1. **Submittals::** Product Data Sheet
 - 3.2. **Timing::** Prior to fabrication order

230 Impact resistance of non-loadbearing vertical surfaces

1. **Height of zones:** 4m from floor level
2. **Hard and soft body impact loads:** In accordance with BS8200
 - 2.1. **Location and category:** Up to 2m high , Category A
3. **Other requirements:** None
4. **Verification:**
 - 4.1. **Submittals::** Product data sheet
 - 4.2. **Timing::** Prior to fabrication order

240 Water penetration

1. **Requirement:** Under normal site exposure conditions, moisture must not penetrate on to internal surfaces from the roof or walls.

Existing site levels and falls will prevent a fully watertight canopy at the base.

Adhered flashing to be provided and installed to mitigate water penetration at this junction to ensure.

Occasional wetting during unexpected and severe weather conditions is acceptable due to site constraints.

During normal rain or expected weather internal surfaces adjacent to perimeter wall panelling to have no flowing water across ground within the covered area.

It is accepted that water penetration cannot be controlled by the building alone at thresholds to roller shutters and other openings.

Products

365 A Street Temporary Market Building Adjacent to Tesco Car Park, Brook Street

1. **Description:** Temporary structure (Market Building) and associated MEP services to provide shelters for traders during the main market hall refurbishment works.

Generally:

Aluminium structural frame with single skin solid steel sheet external wall panels with 'Thermo' inflated PVC roof. Rainwater goods including downpipes. Building to be installed onto existing hardstanding and levels utilising ground anchors where possible and freestanding ballast blocks where not.

Note: Below ground HV Cable constraints / Hazard.

The clause items should be cross-referenced to Architectural Design Intent Drawings:
HMH-GSA-TM-00-D-A-1003-Temporary Market Site Layout - P07
HMH-GSA-TM-00-D-A-1170-Temporary Market Building General Arrangement Drawings - P06
HMH-GSA-TM-XX-D-A-3200-Temporary Market Building Elevations And Sections - P07
HMH-GSA-TM-XX-D-A-3201-Temporary Market Building Elevations And Sections - P07

Civils Drawings;

HMH-SWA-ZZ-00-D-S-1122-Miscellaneous Foundations-P05
HMH-SWA-ZZ-XX-D-C-520 Temporary Market Proposed Drainage Measures - P09

MEP Drawings;

HMH-KAI-MH-00-D-M-5302-Water Mains Temp Market Yard - P04
HMH-KAI-XX-XX-D-Z-1002-Temporary External Works -P06

2. **Manufacturer:** Fews Marquees LTD (or similar Approved)
 - 2.1. **Product reference:** Clear Span Premium Structure with THERM APEX PVC ROOF on 4m leg or similar approved - Contractor Submit proposals - Refer to CDP Clause 215
3. **Size:** 15m x 30m Clear Span
Bay Length: 5m
Eave Height:4m
4. **Frame:** Aluminium
5. **Structure:** Structural design to be completed by contractor. Provide full calculations as Clause B91 215
 - 5.1. **Wind load:** Required: Provide full calculations as Clause 215. Provide with site specific Calculations.
 - 5.2. **Snow loading:** Required: Provide full calculations as Clause B91 215. Provide with site specific Calculations.
 - 5.3. **Adverse Weather Management Plan :** Required.
6. **Panels:** Trapezoidal Steel Sheet Hard Walling to perimeter
Colour RAL 7016 Grey - sample to be approved by client.
 - 6.1. **Quality :** Conforms to all relevant British Standards including;
BS EN 1090
BS EN 14782:2006
7. **Roof covering:** Thermo Insulated PVC Roof Covers, Gable Triangles All Bar Tensioned.16am single phase power supply provided as part of Contractor MEP design for power of SMP Low pressure pump.

Internal PVC White External PVC Grey

8. **All Fabric Coverings** : Materials shall achieve a minimum classification of EN 13501-1 B-s2-d0 or equivalent national classification demonstrating comparable fire performance.

Acrylic lacquer on both sides, protected against microbial and fungal attack, UV-protected
 - 8.1. **Total Weight**: 650g/m² EN ISO 2286-2
 - 8.2. **Tensile strength warp/weft**: 2500 / 2500 N/50 mm EN ISO 1421/V1
 - 8.3. **Tear strength warp/weft**: 250 / 250 N DIN 53363
9. **Accessibility**: In accordance with building regulations 2010 Approved Document M and K
10. **Doors**: Refer to drawings for locations and size. Colours to match wall panelling.
 - 10.1. **Type 1 - Single Door**: Single Non-Insulated Steel Personnel Door with Emergency Exit Bar & Vision Panel - 1.25m wide. Vision panel safety glazing to BS 6262-4:2018.
 - 10.2. **Type 2 - Double Door**: Double Non-Insulated Steel Personnel Door with Emergency Exit Bar & Vision Panel - 2.5m wide. Vision panel safety glazing to BS 6262-4:2018.
 - 10.3. **Type 3a - Roller Shutter** : Roller Shutter Door Non-Insulated Steel - 3.0m wide x 3.6m high - Manually operated
 - 10.4. **Type 3b - Roller Shutter** : Roller Shutter Door Non-Insulated Steel - 2.0m wide x 3.6m high - Manually operated
11. **Rainwater Goods**: uPVC guttering and Downpipes to side elevations (discharge at ground level) Contractor to size gutters and downpipes accordingly to suit BS EN 12056-3
12. **Services**: Submit Proposals
 - 12.1. **Electrical** : Include for distribution board, circuit protection and surge protection for all circuits
 - 12.2. **Electrical Accessories** : Lockable enclosure for the Distribution Board
 - 12.3. **Electrical Distribution** : All distribution to be within containment at high level away from public.
 - 12.4. **General Internal Lighting** : Fit High Bay Energy efficient LED lighting - BS EN 12464-1 lighting levels for retail / public areas: 300–1000 lux
 - 12.5. **Switching arrangement** : Submit Proposals.
 - 12.6. **Socket Provision**: Overhead 13a double sockets - allow for 21no. Final Positioning to be agreed with client following market trader allocation.
13. **Fire Alarm**: Provide M system in compliance with BS 5839-1.
14. **Emergency Lighting**: Emergency lighting will be installed throughout the Temporary Market Hall in accordance with BS 5266-1:2016, providing sufficient fittings to clearly and unambiguously indicate and provide illumination from within the building, and along external routes to the street in the event of mains failure.
15. **Safety Signage**: Fire exits and exit routes should be provided with appropriate exit and intermediate directional signage in accordance with BS ISO 3864-1 and BS 5499-4.
16. **Building Signage** : Contractor's choice for general directional signage required to satisfy their own site management requirements.
17. **Accessories/ special requirements**: Building to be installed with no change to existing floors or ground levels. Internal floor finish of the building s to be the existing hardstanding.
18. **Ground Flashing**: Provide L-Flash system to perimeter to mitigate water ingress.
19. **Method of fixing to ground or base**: Proprietary resin anchored bolts with baseplates to conc. strip foundation and freestanding concrete anchor block.

Contractor to verify the location of existing services and constraints and submit proposals that respond appropriately to ensure all reasonable steps and mitigation measures are in place for the

safe working of their operatives and the public.

The preference is for resin anchored bolts with baseplates to avoid free-standing foundations which could impact the ability and performance of the building users. Ballast blocks to be kept to a minimum in order to maximise the useable space within the temporary structure. Ballasts only acceptable where constraints prevent anchors.

20. Verification

20.1. **Submittals:** Product data sheets to demonstrate compliance with above.
Electrical Testing Certificate (EIC).
Structural Calculations as described.

20.2. **Timing:** Before Placement of Fabrication Order

410 A Public Toilet unit Male & Female

1. **Description:** As GA drawings and Cabins Spec
HMH-GSA-XX-XX-T-A-0005
2. **Manufacturer:** PortaKabin or similar Approved
 - 2.1. **Product reference:** Portaloo PL202 (Type I)
3. **Size:** 5924mm x3246mm
4. **Frame:** As standard
5. **Panels:** As standard. Colour Dark Grey sample to architect approval.
6. **Roof covering:** As standard
7. **Emergency Lighting:** Designed, installed, commissioned and serviced annually in accordance with BS5266-1:2016.
03 x Red Arrow Vanguard 3hr 8 watt Non-Maintained Luminaire
05 x Red Arrow Vanguard 3hr 8 watt IP65 Non-Maintained Luminaire
02 x Test key switch to lighting circuits
03 x Photo Luminescent Exit sign
Fire exit (running man) signage
Please note external emergency lights will only illuminate in the event of a power failure.
8. **Accessibility:** Provide Ramped and Stepped Access to match Architects Drawings
9. **Steps / Ramp :** See drawings - High quality modular checker safe step system which complies to Part K of the Building Regulations. The landings and tread plates are fabricated in galvanised steel and coated with a Thermoplastic anti slip treatment which includes high visibility nosings. Full height guarding to all open faces complimented with wooden handrailing.
10. **Accessories/ special requirements:** Provide vermin / trespass skirt to perimeter of all cabins to close gab between ground and underside of cabin.
11. **Plumbing:** All plumbing is surfaced mounted as standard.
2 x Urinal with cisterniser
4 x Wash hand basin and cold tap with mirror
4 x W.C.
12. **Method of fixing to ground or base:** Manufacturer's recommendation - Concrete levelling piers

410 B Public Toilet unit Wheelchair Accessible WC

1. **Description:** As GA drawings and Cabins Spec
HMH-GSA-XX-XX-T-A-0005
2. **Manufacturer:** PortaKabin or similar Approved
 - 2.1. **Product reference:** Portaloo PL101 (Type A)
3. **Size:** 2876mm x2924mm
4. **Frame:** As standard
5. **Panels:** As standard. Colour Dark Grey sample to architect approval.

6. Roof covering: As standard
7. Accessibility: Provide Ramped and Stepped Access to match Architects Drawings
8. Accessories/ special requirements: Provide vermin / trespass skirt to perimeter of all cabins to close gab between ground and underside of cabin.
9. Steps / Ramp: See drawings -
1 x S/D 1200mm Ramp System
Durable steel modular ramp system with handrails and slip resistant, reinforced fibreglass mesh landings and slopes 1200mm wide. Adjustable telescopic legs for height adjustment and ground levelling. To achieve a maximum ground to threshold height differential of 450mm.
10. Method of fixing to ground or base: Manufacturer's recommendation
11. Plumbing : Doc M Pack

411 Moduar Office Market Office and Welfare

1. Description: As GA drawings and Cabins Spec
HMH-GSA-XX-XX-T-A-0005
2. Manufacturer: Algeco or similar Approved
2.1. Product reference: 32Ft Office & Kitchen and Toilet (Premium)
3. Size: 9754mm x3048mm x 2439mmh
4. Frame: As standard
5. Panels: As standard. Colour Dark Grey sample to architect approval.
6. Roof covering: As standard
7. Accessibility: Provide Ramped and Stepped Access to match Architects Drawings
8. Accessories/ special requirements: Provide vermin / trespass skirt to perimeter of all cabins to close gab between ground and underside of cabin.
9. Steps / Ramp: See drawings -
Provide steps. telescopic legs for height adjustment and ground levelling. To achieve a maximum ground to threshold height differential of 450mm.
10. Method of fixing to ground or base: Manufacturer's recommendation
11. Heaters: Eco Type
12. Lighting : ECO+LED PIR Sensors
13. Windows: Double Glazed Units - Hinged openers.
14. Fit Out: by Employer

Materials - Not Used

Execution/ erection/ installation

600 Erection/ installation generally

1. Frameworks: Assemble and brace, including temporary members required for installation
2. Contact between dissimilar metals: Avoid and isolate
3. Fixings: Fully bolted together
4. Temporary support: Do not subject members to non-design loading

625 Electrical and data services

1. Services connection required: Power for lighting
2. Standard: In accordance with [BS 7671](#).
3. Coordinate with services trades.

630 Erection of prefabricated buildings/ structures

1. **Checking:** Five days (minimum) before proposed erection date of any items to be placed onto pre-prepared bases.
2. **Inaccuracies or defects in prepared bases or supplied buildings/ structures:** Report immediately to Employer. Obtain instructions before proceeding.

Completion

920 Verification on completion

1. **Requirement:** Manuals
2. **Method:** Check completed installation, including positioning and integrity of cavity fire barriers and fire-stopping, and provide assurance of compliance with specified performance.

930 Documentation

1. **Contents:** General product information. Installation information. Inspection and maintenance reports.
2. **Information:** Include building description, date of completion, performance characteristics, advice for cleaning and maintenance that is to be undertaken by the employer as a requirement of the hire.
3. **Format:** Digital
4. **Number of copies:** 2
5. **Timing:** At Handover

Ω End of Section

Q40 Fencing

Fencing systems

430 A Proprietary fencing Anti Climb Wire Mesh Fence to Bin Store and to manage access between cabins

1. Description: Free Standing Anti Climb Wire Mesh Panel Fencing (Heras Fence)
2. Manufacturer: Contractor's choice
 - 2.1. Product reference: Contractor's choice
3. Panel Height: 2.0m
4. Panel Width: Contractor to utilise standard panel widths where appropriate for neat and tidy appearance. Consider use of gated entry between cabins. Provide gated access to waste compound.
5. Materials: 1.2mm tubular galv steel frame
 - 5.1. Treatment: Galvanised steel with Anti-climb mesh infill 250mm x 50.8mm
 - 5.2. Finish: Galvanised to BS EN 10244-2 standard
6. Method of setting posts: Weighted Rubber freestanding footings
7. Accessories: Connectors

Gates, posts and stiles - Not Used

Accessories - Not Used

Execution

710 Installation generally

1. Set out and erect
 - 1.1. Alignment: Straight lines or smoothly flowing curves - See drawings for locations.

Completion

910 Cleaning

1. General: Leave the works in a clean, tidy condition
2. Surfaces: Clean immediately before handover

Ω End of Section

Q50 Site/ street furniture/ equipment

Gates, barriers and parking controls

190 A Precast concrete bollards

1. Manufacturer: [Townscape Products Ltd](#) or similar approved
 - 1.1. Contact details
 - 1.1.1. Address: Fulwood Road South
Sutton-in-Ashfield
Nottinghamshire
United Kingdom
NG17 2JZ
 - 1.1.2. Telephone: +44 (0)1623 513355
 - 1.1.3. Web: <https://townscapeproducts.co.uk/>
 - 1.1.4. Email: sales@townscape-products.co.uk
 - 1.2. Product reference: [Townscape PAS 68 Counter Terror Block Seat \(Artisan Precast Concrete Exposed Cleehill Dark Grey\)](#)
2. Standard: In accordance with PAS 68.
3. Duty: Heavy.
4. Steel reinforcement: Not required.
5. Dimensions
 - 5.1. Size and profile: 1490 x 990 mm.
 - 5.2. Height: 600 mm.
 - 5.3. Length below ground: 100 mm.
6. Top profile: Flat.
7. Base: Flat.
8. Finishes
 - 8.1. Cast finish: Textured.
 - 8.2. Worked finish: Exposed aggregate.
9. Accessories: Not required.
10. Colour: Cleehill dark grey.
11. Edge: 15 mm chamfered edge.
12. Shape: standard
13. Timber: Not required.
14. Speed rating: 30 mph test – single block: V/7500/N2/48/90/6.6/0.0.

Site and street furniture - Not Used

Installation

520 Setting in earth

1. Holes: As small as practicable.
2. Components being fixed: Accurately positioned and securely supported.
3. Buried depth (minimum): 100mm
4. Earth refill: Well rammed as filling proceeds.

Ω End of Section

V90 Electrical systems

General - Not Used

System performance

210 Design of low-voltage electrical installation generally

1. Design and detailing: Complete for the electrical installation.
2. Standards: In accordance with [BS 7671](#), as [amended](#), and the requirements of the electricity distributor.
3. Distribution circuits
 - 3.1. Spare capacity: Submit design and cost proposals
 - 3.2. Conductor sizes (minimum): Submit design and cost proposals
4. Spare capacity of distribution equipment: Submit design and cost proposals
5. Protective devices: Coordinate the selection and adjustment of protective device settings to achieve discrimination throughout the fault level range. Grade so that a fault on any outgoing branch circuit is cleared by the switching device installed in the faulted branch circuit without affecting the other outgoing branch circuits
6. Final circuits
 - 6.1. Spare capacity: Submit design and cost proposals
 - 6.2. Conductor sizes (minimum): Submit design and cost proposals
7. Selection of cables, conduit, trunking and ducting: Submit sizes where not stated
8. Equipment: Provide electrical supplies to equipment requiring power.

Lighting and power to market canopy structure and cabins. Power supply for trader use.
9. Proposals: Submit design and cost proposals
10. Verification: All new Power and Lighting
 - 10.1. Submittals: Design calculations
 - 10.2. Timing: To comply with programme

240 Design of general lighting system

1. Purpose: General Lighting inside market hall - see B91 365A
2. Design and detailing: Complete for the general lighting system.
3. Standard: To [BS EN 12464-1](#)

250 Design of emergency lighting system

1. Purpose: Emergency escape lighting: the objective of which is to provide '*...illumination of escape routes, signs and points of emphasis to assist occupants to evacuate the premises*'
2. Design and detailing: Complete for the emergency lighting system.
3. Standards
 - 3.1. Emergency escape lighting: In accordance with [BS 5266-1](#)
 - 3.2. Escape route, open area, high-risk task area and standby lighting: as above
4. System classification: Submit design and cost proposals
5. Method of testing: Submit design and cost proposals
6. Verification: Emergency lighting
 - 6.1. Submittals: Declaration of performance

6.2. Timing: Before commencement of installation

275 Small power system design

1. Purpose: Power sockets for trader use
2. Small power outlets: Provide to serve the building and its equipment - 1no. twin socket per 2no. traders - nominal - 21 no. twin sockets.
3. Fixed equipment: Provide supplies
4. Verification: Position of sockets and amount
 - 4.1. Submittals: Electrical plans and spec to be provided by contractor
 - 4.2. Timing: With Tender

280 Earthing and bonding design

1. Design: Complete the design of the earthing and bonding systems.
2. Earthing, main protective bonding, supplementary bonding and protective conductors: In accordance with [BS 7671](#), as [amended](#), and [BS 7430](#)
3. Requirements: Submit proposals
4. Verification: Safety protection
 - 4.1. Submittals: Declaration of performance
 - 4.2. Timing: Before commencement of installation

Products - Not Used

Execution

610 Electrical installation generally

1. Standard: In accordance with [BS 7671](#), as [amended](#)

615 Installing connection to incoming supply

1. Main switchboard/ distribution board: Connect to main incoming metering equipment.
2. Nature of connection: Liaise with the DNO to ensure the correct size, quantity and type of cable is provided for connection to their equipment.

640 Installing cables entering buildings from below ground

1. Pipe ducts: Seal at both ends
2. Proposals: Submit drawings

655 Installing steel conduit and fittings

1. Fixing: Fix securely. Fix boxes independently of conduit
2. Conduit drainage: Provide drainage outlets at lowest points
3. Location: Position vertically and horizontally in line with equipment served, and parallel with building lines. Locate where accessible.
4. Jointing
 - 4.1. Number of joints: Minimize.
 - 4.2. Lengths of conduit: Maximize.
 - 4.3. Cut ends: Remove burrs, and plug during construction works.
 - 4.4. Movement joints in structure: Manufactured expansion coupling.
 - 4.5. Threaded steel conduits: Tightly screw to ensure electrical continuity, with no thread showing.

- 4.6. Conduit connections to boxes and items of equipment, other than those with threaded entries: Earthing coupling/ male brass bush and protective conductor
- 4.7. Changes of direction: Submit proposals
5. Connections to boxes, trunking, equipment and accessories: Screwed couplings, adaptors, connectors and glands: Attach rubber bushes at open ends.
6. Mounting and support: Submit proposals
7. Earth protection: Ensure that satisfactory continuity is maintained between the separate sections of conduit, equipment and accessories

735 Installing luminaires

1. Location: Submit proposals
2. Orientation: Submit proposals
3. Supports: Adequate for weight of luminaire.

740 Installing emergency luminaires

1. Permanent electrical supplies: Derive from adjacent local lighting circuit
2. Charge indicator: Position in a conspicuous location

760 Equipment labelling

1. Electrical equipment: Install labels indicating purpose.
2. Voltage warning notices
 - 2.1. Location: Apply to equipment in a position where it can be seen prior to gaining access to live parts when the voltage within exceeds 230 V.
 - 2.2. Format: To [BS EN ISO 7010](#), functional reference number, W012, includes warnings of the voltage present.
3. Distribution boards: Card circuit chart within a reusable clear plastic cover. Fit to the inside of each unit. Include typed information identifying the outgoing circuit references, their device rating, cable type, size, circuit location and details. Label each outgoing way corresponding to the circuit chart
4. Sub-main cables: Label at both ends with circuit reference using proprietary cable marker sleeves

Completion

810 Final fix

1. Accessory faceplates, luminaires and other equipment: Fit after completion of building painting

820 Cleaning

1. Electrical equipment: Clean immediately before handover
2. Equipment not supplied but installed under the electrical works: Clean immediately before handover

830 Inspection and testing generally

1. Standard: In accordance with [BS 7671](#), as [amended](#)
2. Notice before commencing tests (minimum): 24 hours
3. Labels and signs: Fix securely before system is tested
4. Certificates: Submit
 - 4.1. Number of copies: Two

860 Inspection and testing of emergency lighting systems

1. **Standard:** In accordance with [BS 5266-1](#)
2. **Certificate of testing:** Submit
 - 2.1. **Standard:** To [BS 5266-1](#), annex I
 - 2.2. **Number of copies:** Two
3. **System log book:** To [BS 5266-1](#)

880 Documentation

1. **Timing:** Submit at practical completion
2. **Contents:** As-installed drawings showing circuits and their ratings and locations of fittings and apparatus

Manufacturers' guarantees and warranties

Recommended frequency of testing and inspection, both for electrical safety and for matters such as the corrosion and security of lighting columns and luminaire fixings

890 Maintenance

1. **Servicing and maintenance:** Provide submittals for maintenance contract with cabin and canopy supplier.
 - 1.1. **Duration:** During use

895 Verification on completion

1. **Requirement:** Check completed system and provide assurance of compliance with specified performance.
2. **Method:** Submit proposals relevant to installation including;
 - third-party certification;
 - testing; certificates
 - manufacturer's performance declarations (DoPs or similar);
 - Inspection of completed electrical installation
3. **Submittals:** Electrical safety of installation and commissioning
 - 3.1. **Format:** Drawings, schedules, technical information, calculations and manufacturer's literature.
 - 3.2. **Timing:** At completion of installation.

Ω End of Section

