

DEMOLITION SEPCIFICATION

**MARKET MULTI STOREY CAR PARK,
NORTHMINSTER,
PETERBOROUGH PE1 1AY**

**TENDER SPECIFICATIONS
SEPTEMBER 2019**

Note: All references made in these specifications relating to Structural Engineer mean Principal Designer and all references relating to Contractor or Main Contractor mean Principal Contractor in order to comply with current CDM Regulations.

Preamble

- 1.1 Peterborough City Council (“The Client/Employer”) intends to demolish the Car Park buildings on the site known as Market multi-storey, Northminster, Peterborough, PE1 1AY
- 1.1.1 This specification relates to the demolition of the buildings shown on drawing no. JP 23-24-102712-DR-S-010,020,030 and 040
Please note that the existing Electric sub-station are to be retained as shown on the drawing. Buildings to be demolished include: six deck (7 Level) storey concrete structure constructed during late 1970. The construction said to be a ‘Lift Slab’ technique whereby the slab are cast on the ground and jacked up to column heads at every level
- 1.3 The scope of demolition is to exclude removal of ground floor slabs and hard surfacing.
- 1.4 The scope of demolition is to include the capping of all redundant services uncovered during the demolition works.
- 1.5 The buildings are known to contain asbestos (refer to R & D Asbestos Survey Report).
- 1.6 The buildings may contain flour dust residue.
- 1.7 This specification must be read in conjunction with the following information:
 - HBS demolition drawing no.:- JP 23-24-102712-DR-S-010,020,030 and 040 Demolition G.A;
 - Risk Assessment by HBS (and also by others in respect of other disciplines);
 - Preliminaries from Hamson Barron Smith
 - Remove and cart away all masonry wall or non-load-bearing wall

C20 Demolition

To be read with Preliminaries/ General Conditions

GENERAL REQUIREMENTS

105 DEMOLITION CONTRACTOR TENDER SUBMISSION

- Scope: As part of the tender process for the demolition work, examine available information and undertake a site inspection. Arrangements for access to the site shall be made through the contract administrator.
- Tender submission technical content:
 - Details of the method and sequence of demolition proposed with due consideration for the issues outlined in the specification.
 - Details of the proposed method of disposal for the demolished materials including a statement of those that shall be recycled and re-used.
 - Provisional programme showing the starting date stated by the employer and the anticipated duration of demolition operations carried out in the proposed sequence.

110A DESK STUDY/ SURVEY

- Scope: Before starting deconstruction/ demolition work, examine available information, and carry out a survey of:
 - the structure or structures to be deconstructed/ demolished,
 - the site on which the structure or structures stand, and the surrounding area.
- Report and method statements: Submit, describing:
 - Form, condition and details of the structure or structures, the site, and the surrounding area.

Extent: Buildings and areas as indicated on drawing No JP 23-24-102712-DR-S-010,020,030 and 040

- Type, location and condition of features of historical, archaeological, geological or ecological importance.
- Type, location and condition of adjoining or surrounding premises that might be adversely affected by removal of the structure or structures, or by noise, vibration and/ or dust generated during deconstruction/ demolition.
- Identity and location of services above and below ground, including those required for the Contractor's use and arrangements for their disconnection and removal.
- Form and location of flammable, toxic or hazardous materials, including lead-based paint and proposed methods for their removal and disposal.
- Form and location of materials identified for reuse or recycling, and proposed methods for removal and temporary storage - it is proposed that the demolition works should aim to optimise the percentage of demolished material designated as re-used or recycled for other uses outside of this project.
- Proposed programme of work, including sequence and methods of deconstruction/ demolition.
- Details of specific pre-weakening required.
- Arrangements for protection of personnel and the public, including exclusion of unauthorized persons.
- Arrangements for control of site transport and traffic.
- Special requirements: Sufficient details to allow the preparation of the construction phase health and safety file. .
- Format of report: The report should be made as either a paper or electronic submission, including drawings as required illustrating the contractor's proposals. .
- Arrangements for protection of personnel and the public, including exclusion of unauthorized persons.

- Arrangements for control of site transport and traffic.
- Special requirements: Sufficient details to allow the preparation of the construction phase health and safety file. .
- Format of report: The report should be either made as a paper or electronic submission, including drawings as required to illustrate the contractor's proposals.

120 EXTENT OF DECONSTRUCTION/ DEMOLITION

- General: Subject to retention requirements specified elsewhere, deconstruct/ demolish structures down to upper level of ground floor slab.

130 GROUNDWORKS

- Existing foundations to remain. The existing ground floor slabs to be punctured through up to formation of Hardcore and filled the voids with 6F5-crushed concrete. The break out area to be 1000mm square 10000mm centres in both direction. Lift pits to be filled in with lean mix concrete.
- Contaminated material: Remove, and carry out remediation required by the Enforcing Authority.

140 BENCH MARKS

- Unrecorded benchmarks and other survey information: Give notice when found. Do not remove marks or destroy the fabric on which they are found.

150 FEATURES TO BE RETAINED

- General: Keep in place and protect the following: Radiators to be removed and set aside.

SERVICES AFFECTED BY DECONSTRUCTION/ DEMOLITION

210 SERVICES REGULATIONS

- Work carried out to or affecting new and/ or existing services: Carry out in accordance with the byelaws and/ or regulations of the relevant Statutory Authority.

220 LOCATION OF SERVICES

- Services affected by deconstruction/ demolition work: Locate and mark positions.
- Mains services marking: Arrange with the appropriate authorities for services to be located and marked.
- Marking standard: In accordance with National Joint Utilities Group 'Guidelines on the positioning and colour coding of underground utilities' apparatus'.

230 SERVICES DISCONNECTION ARRANGED BY CONTRACTOR

- General: Arrange with the appropriate authorities for disconnection of services and removal of fittings and equipment owned by those authorities prior to starting deconstruction/ demolition.

240 DISCONNECTION OF DRAINS

- General: Locate, disconnect and seal disused foul and surface water drains.
- Sealing: Permanent, and within the site.

250 LIVE FOUL AND SURFACE WATER DRAINS

- Drains and associated manholes, inspection chambers, gullies, vent pipes and fittings:
 - Protect; maintain normal flow during deconstruction/ demolition.
 - Make good any damage arising from deconstruction/ demolition work.
 - Leave clean and in working order at completion of deconstruction/ demolition work.
- Other requirements: None.

260 SERVICE BYPASS CONNECTIONS

- General: Provide as necessary to maintain continuity of services to occupied areas of the site on which the deconstruction/ demolition is taking place and to adjoining sites/ properties.

- Minimum notice to adjoining owners and all affected occupiers: 72 hours, if shutdown is necessary during changeover.

270 SERVICES TO BE RETAINED

- Damage to services: Give notice, and notify relevant service authorities and/ or owner/ occupier regarding damage arising from deconstruction/ demolition.
- Repairs to services: Complete as directed, and to the satisfaction of the service authority or owner.

DECONSTRUCTION/ DEMOLITION WORK

310 WORKMANSHIP

- Standard: Demolish structures in accordance with BS 6187.
- Operatives:
 - Appropriately skilled and experienced for the type of work.
 - Holding, or in training to obtain, relevant CITB Certificates of Competence.
- Site staff responsible for supervision and control of work: Experienced in the assessment of risks involved and methods of deconstruction/ demolition to be used.

320 GAS OR VAPOUR RISKS

- Precautions: Prevent fire and/ or explosion caused by gas and/ or vapour from tanks, pipes, etc.

330 DUST CONTROL

- General: Reduce airborne dust by periodically spraying deconstruction/ demolition works with an appropriate wetting agent. Keep public roadways and footpaths clear of mud and debris.
- Lead dust: Submit method statement for control, containment and clean-up regimes.

335 FLOUR DUST CONTROL

- Residual flour dust may be present in some buildings to be demolished. Submit method statement for working in these areas to prevent possible explosions.

340 HEALTH HAZARDS

- Precautions: Protect site operatives and general public from hazards associated with vibration, dangerous fumes and dust arising during the course of the Works.

350 ADJOINING PROPERTY

- Temporary support and protection: Provide. Maintain and alter, as necessary, as work proceeds. Do not leave unnecessary or unstable projections.
- Defects: Report immediately on discovery.
- Damage: Minimize. Repair promptly to ensure safety, stability, weather protection and security.
- Support to foundations: Do not disturb.

360 STRUCTURES TO BE RETAINED

- Extent: Original existing electric sub-station as shown on drawing no. JP 23-24-102712-DR-S-010
- Parts, which are to be kept in place: Protect.
- Interface between retained structures and deconstruction/ demolition to be jointly inspected by the demolition contractor, HBS engineer and Project Manager to agree the demolition method and any temporary works that may be required to ensure stability of the retained building.
- Interface between retained structures and deconstruction/ demolition: Cut away and strip out with care to minimize making good.
- Retained structures to be secured on completion to prevent unauthorized access.

370 PARTLY DEMOLISHED STRUCTURES

- General: Leave in a stable condition, with adequate temporary support at each stage to prevent risk of uncontrolled collapse. Make secure outside working hours.

- Temporary works: Prevent overloading due to debris.
 - Access: Prevent access by unauthorized persons.
- 380 DANGEROUS OPENINGS
- General: Provide guarding at all times, including outside of working hours. Illuminate during hours of darkness.
 - Access: Prevent access by unauthorized persons.
- 390 ASBESTOS-CONTAINING MATERIALS – KNOWN OCCURRENCES
- General: Materials containing asbestos are known to be present in: Refer to refurbishment and Demolition Asbestos Survey.
 - Removal: By contractor licensed by the Health and Safety Executive, and prior to other works starting in these locations.
- 391 ASBESTOS-CONTAINING MATERIALS – UNKNOWN OCCURRENCES
- Discovery: Give notice immediately of suspected asbestos-containing materials when discovered during deconstruction/ demolition work. Avoid disturbing such materials.
 - Removal: Submit statutory risk assessments and details of proposed methods for safe removal.
- 410 UNFORESEEN HAZARDS
- Discovery: Give notice immediately when hazards such as unrecorded voids, tanks, chemicals, are discovered during deconstruction/ demolition.
 - Removal: Submit details of proposed methods for filling, removal, etc.
- 435 FILLING OF TRENCHES, PITS, ETC
- All trenches, pits, etc. are to be backfilled to surround ground floor slab level using compacted clean sand.
 - Location of trenches, pits, etc. are to be surveyed and noted on drawings on completion.
- 442A SITE SURFACE AT COMPLETION
- Leave existing oversite concrete slabs.
- 450 SITE CONDITION AT COMPLETION
- Debris: Clear away and leave the site in a tidy condition.
 - Other requirements: None.
- MATERIALS ARISING**
- 510 CONTRACTOR'S PROPERTY
- Components and materials arising from the deconstruction/ demolition work: Property of the Contractor except where otherwise provided.
 - Action: Remove from site as work proceeds where not to be reused or recycled for site use.
- 511 EMPLOYER'S PROPERTY
- Components and materials to remain the property of the Employer: As advised by the CA.
 - Protection: Maintain until these items are removed by the Employer or reused in the works, or until the end of the Contract.
 - Special requirements: None.
- 520 RECYCLED MATERIALS
- Materials arising from deconstruction/ demolition work: Can be recycled or reused elsewhere in the project, subject to compliance with the appropriate specification and in accordance with any site waste management plan.
 - Evidence of compliance: Submit full details and supporting documentation.
 - Verification: Allow adequate time in programme for verification of compliance.