

WORKING DRAWING CRITERIA

CONTRACTOR'S WORKING DRAWINGS

The Contractor shall be responsible for the correct setting out of the works and shall provide fully detailed and co-ordinated working drawings.

The working drawings shall be based on the design drawings and shall take into account all drawings applicable to other disciplines, trades and service, site constraints and all modifications, which may have or will take place to the buildings or installations. These drawings shall be correctly related to the selected plant and equipment.

The Contractor shall be responsible for providing all working drawings in adequate time to ensure that there is no delay in the programme for construction of the building and external works. The Contractor shall be responsible for any error, discrepancy or omission in any drawing prepared by him or on his behalf, whether or not such drawing has been passed 'No Comment'.

The Contractor shall be responsible for co-ordinating his working drawings with all other information, structure, interior details, etc., along with the Architect's and Structural Engineer's drawings. The drawings shall be fully dimensioned ready for installation.

The Contractor shall update his working drawings in accordance with the revisions to the Architect's and Structural Engineer's drawings and instructions covering variations in the works.

Working drawings shall be fully dimensioned ready for installation, indicating the positions on plan relative to walls, grid lines etc. of the locations of all conduit, trunking, cable trays, conduit outlet boxes, cable routes, pipework, ductwork, control equipment, isolators, plant, equipment, supports, detectors, luminaires, etc. All drawings shall be prepared using Autocad software with each drawing being produced in "DWG" format on a CAD draughting system. Double line ductwork drawings shall be provided. Invert levels shall be shown along with setting out dimensions from building grid lines.

All working drawings shall be submitted to the CBSE, Architect, Structural Engineer and EA for comment prior to commencement of the installation. The Contractor shall allow a minimum period of 10 working days for any comments to be issued. Sufficient time shall also be allowed to accommodate the comments made by the CBSE, Architect, Structural Engineer or EA. Work shall not be commenced on site until the appropriate drawing has been returned stamped 'No Comment' by the CBSE, Architect, Structural Engineer and EA. Any work commenced, or materials ordered, prior to receipt by the Contractor or Contractor's drawings marked 'No Comment' will be at the Contractor's own risk. Should any work installed, or materials orders, require alteration, amendment or re-ordering to suit any comments made shall render the Contractor solely responsible for accepting any costs incurred.

An approved and fully up to date copy of all working drawings and specification shall be kept on site by the Contractor and made available for the EA's and CBSE's inspection at all reasonable times.

MECHANICAL SERVICES

Working drawings shall comprise, but not be limited to the following:

- Co-ordinated floor layouts and sections
- Co-ordinated plant area layouts and sections
- Co-ordinated plantroom layouts and sections (including public health services)
- Wiring layouts (power and controls)
- Schematic diagrams of mechanical services and controls
- Control panel wiring diagrams (including field wiring and package plant)
- Details of co-ordinated services
- Riser shafts and co-ordinated layouts
- Ductwork fabrication drawings, control panel fabrication drawings, etc.
- Manufacturers' drawings of all plant and equipment
- Details of all-purpose made brackets, hangers, guides, anchors, etc.
- Details of access panels required for maintenance purposes

ELECTRICAL SERVICES

Working drawings shall comprise, but not be limited to the following:

- Manufacturers' drawings of all plant and equipment
- All main LV distribution routes
- Coordinated reflected ceiling plans showing lighting layout
- Coordinated small power layouts
- Earthing schematic
- Riser details
- Manufacturers' drawings of all plant and equipment

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PUBLIC HEALTH SERVICES

Working drawings shall comprise, but not be limited to the following:

- Full set of co-ordinated floor plans
- Details of sanitary plumbing and water services layout in all relevant areas,
- Co-ordinated service duct layouts
- Details of access panels required for maintenance purposes
- Water services and sanitary plumbing schematic layouts

BUILDERSWORK DRAWINGS

The Contractor shall be responsible for preparing detailed builderswork drawings.

The builderswork drawings shall be based on the working drawings and shall take into account all drawings applicable to other disciplines, trades and services and all modifications which may have or will take place to the buildings or installations. These drawings shall be correctly related to the selected plant and equipment.

The Contractor shall be responsible for providing all builderswork drawings in adequate time to ensure that there is no delay in the programme for construction of the building and external works. The Contractor shall be liable for any costs associated with delays, incorrect works, etc. caused by his failure to issue approved builderswork drawings in sufficient time.

The Contractor shall be responsible for any error, discrepancy or omission in any drawing prepared by him or on his behalf, whether or not such drawing has been passed 'No comment'.

The Contractor shall update the builderswork drawings in accordance with the revisions to the Architects and Structural Engineer's drawings and instructions covering variations in the works.

All builderswork drawings shall be prepared on a CAD draughting system using Autocad software with all drawings being produced in "DWG" format.