General Notes

These drawings are to be read in conjunction with all other project documents. Any ambiguities \$ omissions must be reported immediately.

In order to prepare these drawings assumptions have been made regarding the prevailing ground conditions and existing structure details, all of which must be verified by the builder on site prior to the commencement of any construction work.

The builder shall be responsible for contacting all the statutory undertakers and determining the location of all existing services affecting the works.

The builder shall be responsible for the accuracy and correct setting out of all work on site.

Do not scale from these drawing. Written dimensions take precedence. Dimensions annotated * are approximate. All dimensions to be checked by the contractor on site.

For setting out refer to architects drawings.

The builder is to perform work in such a manner as to ensure the safety of all operatives and the public and to cause as little disturbance as possible.

The builder is to be responsible for the design and supply of all temporary propping, shoring and tying in of the works. If the contractor is in any way uncertain as to the extent of temporary works required, seek advice from the engineers. Any advice will not relieve the contractor from ultimate responsibility for the temporary works.

All underpinning works are to be undertaken in accordance with the to the methods and techniques outlined in BRE Digest 352: 1993 - Underpinning, and to the satisfaction of Building Control Officer and the Party Wall Surveyor.

All works to be undertaken to the satisfaction of Building Control or an approved Officer.

All workmanship shall be in accordance with the relevant parts of BS 8000.

Steelwork

All documents and standards referred to shall be the current version at the time of construction

All rolled steel sections are to be grade S355JR and all steel plate is to be grade S275JR in accordance with BSEN 10025 and BSEN 10210, unless noted otherwise

All damaged steelwork coatings are to be touched up on site upon completion of erection.

All new steelwork to be provided with the relevant fire protection in accordance with the architects' specification.

All bolts are to be grade 8.8 and on the drawing. bright zinc plated.

All welds to be continuous 6mm fillet welds unless noted otherwise.

Steelwork to be fabricated and erected in accordance with the current version of the National Steelwork Specification for Building Construction.

If fabrication subcontractor is responsible for steel to steel connection design, contact ING Design Limited for connection forces.

All fabrication details are to be forwarded to the Engineer 1 week prior to commencement of fabrication.

All steelwork to be shot blasted to Swedish Standard SA 2.5 and painted one coat high build zinc phosphate primer to a minimum DFT of 75 microns. All damaged areas to be wire brushed and touched up on site after erection.

Steelwork in cavities to have 2 coats of bitumen based paint to a minimum DFT of 150 microns applied by the main contractor on site.

Steelwork (continued)

All necessary propping, pinning and temporary bracing is to be provided as required by the contractor on site.

If precast concrete flooring is being used on site, masonry cladding shall not be commenced prior to floor screeds being completed.

Holding down bolts are to be provided to the general contractor by the fabricator for location on site. Setting out is to be checked by the general contractor and steelwork contractor.

Steelwork indicated is at or below the floor level indicated

Steelwork noted as being aalvanized shall be shot blasted to Swedish Standard SA 2.5 and hot dip galvanized to give a minim coating of 85microns. All damaaed areas to be wire brushed and touched up with 'Galvafroid' on site after erection.

Padstones

The engineers should be contacted if the masonry appears to be in poor condition or if there is insufficient bearing for any padstones.

Padstones must not be loaded for 7 days to allow for curing.

Padstones must have a minimum compressive strength of 30N/mm2.

CDM 2015 Notes

Compliance with the requirements of the the Construction (Design and Management) Regulations 2015 is a legal requirement of the project construction.

The Client has duties in relation to the construction works which are set out in the HSE document which was issued with the drawings and calculations.

SETTING OUT OF THE WORKS:

Concrete

All documents and standards referred to shall be the current version at time of construction. All site mixed concrete shall be produced in accordance with this specification. All delivered concrete shall be produced in accordance with the National Structural Concrete Specification for Building Construction.

Concrete must not be site mixed unless agreed in writing with the Structural Engineer.

All reinforcement shall be grade H500 and shall be supplied by a UK CARES certificated supplier.

The contractor shall be responsible for the correct setting out of all formwork and for the accuracy of all dimensions.

All work shall be carried out in accordance with the National Structural Concrete Specification For Building Construction (Latest Edition).

All work shall be to the satisfaction of the Building Inspector.

The minimum cover to all bars will be 40mm, unless stated otherwise on the drawings.

Anchorage and Lap lengths: HIO - 350mm HI2 - 425mm HIG - 575mm H20 - 700mm

All reinforcement shall be scheduled, cut and bent in accordance with BS8666

All concrete shall be mechanically vibrated by adequately skilled operatives.

HAZARDS:

Masonry

Foundations: Tarmac Trench Block or standard format solid concrete blocks having a minimum crushing strength of 7N/mm2. All foundation masonry to be set in Class II (M6) mortar (1 : 3, masonry cement : sand).

All exposed mansonry below DPC, including the top 3 courses below external around level shall be of Class B Engineering bricks set in Class II (MG) mortar (1 : 3, masonry cement : sand).

All facing masonry above DPC MUST comply with the Architects Specification or shall consist of bricks having a minimum crushing strength of 20N/mm2. a maximum 25% formed voids and a maximum water absorption of 12%. Bricks shall have a minimum Class M frost resistance

All internal walls and inner leaf of external walls above DPC shall be constructed using standard format solid concrete blocks having a maximum of 25% formed voids a minimum thickness of 100mm and a min crushing strength of 5.2N/mm2.

All mortar above DPC shall be Class III (M4) (1 : 4, masonry cement : sand).

All cavity wall ties shall be ANCON Type RT2 complete with insulation retaining clips.

All cavity ties shall be set out as indicated in the Building Regulations.

Strapping of walls to floor and roof structures shall be in accordance with the standard details drawings appended.

THE STRUCTURAL DESIGN HAS BEEN DEVELOPED TO REMOVE ANY UNNECESSARY HAZARDS FROM THE CONSTRUCTION PROCESS. HOWEVER, IN PARTICULAR PROPERTIES THERE IS A POSSIBILITY OF ENCOUNTERING ASBESTOS AND OTHER HAZARDOUS ELEMENTS SUCH AS GAS AND ELECTRICITY. THE BUILDER IS RESPONSIBLE FOR MAINTAINING VIGILANCE IN RESPECT OF POTENTIAL HAZARDS DURING THE CONSTRUCTION WORK.

THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH THE DESIGNERS RISK ASSESSMENT DRAWING AND ALL OTHER PROJECT DRAWINGS.

THE BUILDING CONTRACTOR IS RESPONSIBLE FOR SETTING OUT THE WORKS AND ALERTING THE CLIENT AND DESIGN TEAM TO ANY DISCREPANCIES THAT ARISE BETWEEN THE INFORMATION INDICATED ON THE DRAWINGS AND THE ACTUAL SETTING OUT ON SITE. PARTICULAR ATTENTION IS TO BE MADE IN RESPECT OF CEILING HEIGHTS AND HEADROOM.

All documents and standards referred to shall be the current version at the time of building.

Timber

All softwood timber shall be graded to CIG or C24 of BSEN 338 according to BS 5268: Part 2. As noted on the drawings.

All timber section sizes given on the drawings are Target sizes to BSEN 336 noted as: b (T1) x d (T2).

Average moisture content of all timbers delivered to site is to be 18% with no piece having a moisture content greater than 24%

All hardwood timber shall be graded to D30 of BS 5756 according to BS 5268: Part 2. Unless otherwise specified on the drawings.

All nails shall conform with BS 1202 and be treated with an anti-corrosive coating.

All screws shall conform with BS 1210 and be treated with an anti-corrosive coating.

All bolts shall be grade 4.6 bright zinc plated and installed with 50mm square washers at each end.

Toothed connectors, as table 82 BS 5268-2-2002. conforming to BSEN 912 shall be used in ALL bolted connections.

All timbers which are to be exposed to open air, in close proximity to the ground level or subject to condensation shall be treated with preservative in accordance with BS8417.

PARTY WALL ACT

The owner, should they need to do so under the requirements of the Party Wall Act 1996, has a duty to serve a Party Structure Notice on any adjoining owner if the building work involves works on or to an existing Party Wall. Please note a garden fence is a PARTY WALL. Works covered by the Party Wall Act include: Excavations within 3 meters of an existing party wall structure, or within 6 meters of an existing party wall structure where the new foundations are within a 45degree line of the adjoining foundations. A Party wall agreement is to be in place prior to start of works on site. The adjoining owner is to be notified at least 1 month prior to the start of construction work.

Unit SUI8, The Glass Works, Barnsley.

Structural Specification \$ Construction Notes.

J-23236-001 rev



Railway House, Railway Road Chorley Lancashire.PR6 0HW

Mobile: 07961 748 933 Email: ingdesignltd@hotmail.com