00 BRIEF SPECIFICATION NOTES

1.01 This drawing is to be read with all other structural drawings architect's drawings and specifications. This drawing should be regarded as a contract document.

1.02 These notes are intended as a summary of some key structural requirements however reference should also be made to the drawings and to the NBS specifications.

1.04 Where works are not constructed in conformance with the specification or drawings the contractor must provide any testing required to demonstrate conformity or provide proposals for remedial works to be agreed by engineer. Remedial works to be carried out to engineer's satisfaction. 1.03 Where dimensions or any other information is found to conflict between engineer's or other consultant's drawings, this is to be notified to the engineer as soon as discovered.

STRUCTURAL PRINCIPLES

2.03 It us assumed that a suitably experienced temporary works designer will be engaged throughout the construction phase of this project.

3.01 No below ground investigation has been carried out for this site.

3.03 All foundations shall be central about the wall centreline unless noted otherwise.

3.07 Any localised 'soft spots' encountered at bearing depth to be excavated and replaced with concrete mix as main foundation.

3.08 All proposed new ground floor slabs are assumed to be ground bearing and formed in reinforced concrete over a damproof membrane over sand blinding over a protection membrane over the existing construction.

4.01 See Hydrock Consultants drawings for details of proposed ground drainage system.

4.02 Existing drains: Before starting work confirm invert levels, diameters and positions of existing drains and inspection chambers against information shown on the drawings. Check drains and access chambers shown on drawings are in working order. Inform engineer of any discrepancies, Adequately protect existing drains and maintain normal operation during construction.

Foundations (mass concrete) : C Sound bearing Nabs Internal : C28/55.
Blinding
Ground bearing slabs (External) : PAV 2 : GEN3 : RC28/35

5.05 Dimensional / construction tolerances to be in accordance with the National Structural Concrete Specification. 5.04 Lap lengths for fabric reinforcement to be 400mm. For all other reinforcement laps to be min 40 \times bar dia. 5.03 Main reinforcing bars to be high yield (fy = 500 N/mm2) deformed type 2 bars to BS4449.
Fabric reinforcement to be high yield (fy = 500 N/mm2) to BS4483.

2.01 The existing building is of traditional construction and was constructed in several stages over its life. The original walls are constructed of load bearing stonework masonry, with additions and alterations constructed in brick and blockwork. The ground floor is generally of solid construction consisting of stone flags or concrete, however the Northern end of the building is suspended. The upper floors are generally suspended timeer floors consisting of joists and timber floor boards. The area of suspended floor above the cells is constructed from spanning grantle planks.

2.05 The creation of new openings through the existing stonework walls is to be completed using specialist wire saw cutting techniques. A method statement for these works must be submitted to the Architect and Engineer for agreement prior to commencement of these works. The method must include measures taken to prevent damage to the surrounding areas due to any cutting lubricant used, and dust.

FOUNDATIONS AND GROUNDWORKS

Provide adequate temporary works to support all excavations or short term batters at 45 degrees. Inform engineer where horizontal ance to adjacent existing structures is less than the required depth of

3.04 deep All foundations shall be a minimum of 450mm wide $\times\,300\text{mm}$ unless noted otherwise.

3.05 All foundations shall have a common top level u.n.o. Steps in tops of foundations (where applicable) and construction joints, are to be in accordance with N.H.B.C and Building Regulations requirements.

3.06 All excavations shall be free from water, loose material, rubbish etc, The formation level shall not be exposed until the day of the concrete pour.

BELOW GROUND DRAINAGE

STRUCTURAL CONCRETE

5.00 5.01 Aggressi classifica applicab to BS85(The Design Sulfate (DS) classification and the sive Chemical Environment for Concrete (ACEC) sive Chemical Environment for Concrete (ACEC) and are assumed as DS-1 and AC-1s respectively and are ble to the entire site. Designated concrete mixes conforming

5.02 Ready mixed concrete to be supplied from BRMCA accredited plant

The works to be carried out as noted upon these drawings is of a trail nature and must only be carried out by a suitably experienced stent contractor. Should there be any doubt as to have to proceed advice be sought from the structural engineer or temporary works designer as

6.03 All plate and open steel to be grade \$355 to BS EN 10025: 1993 unless stated otherwise.
6.04 All hollow sections to be grade \$355 BS EN 10025: 1993 unless stated otherwise.
6.05 All polits to be Grade 8.8 to BS3592:1967, minimum 16mm diameter unless noted otherwise. Bolts to be sherardized or spun galvanized.

All connections to have minimum 4No. bolts.

6.02 All steelwork has been designed in accordance with BS EN 1993 Eurocode 3: Design of steel structures.

Unless otherwise noted structural steelwork is to be cated and erected in accordance with the latest edition of the nal Structural Steelwork Specification (NSSS).

HOT ROLLED STRUCTURAL STEELWORK

2.04 Structural works include the creation of new openings within existing masonry walls (including random rubble), strengthening of existing floors, rear extensions for staff areas and a new lift access.

6.10

6.09 All butt welds to be ultrasonic tested in accordance with the requirements of the NSSS.

6.08 6.07

Welds to be min 6mm FPFW unless noted otherwise.

Plates to be min 10mm thick, unless noted otherwise

O All Steelwork to have corrosion paint protection as follows:

External - Bast clean to Sa 2.5

External (-140 hot dip palvarizing internal (hidden) - Bast clean to Sa 2.5

Internal (hidden) - Bast clean to Sa 2.5

- 125µ zinc phosphate epoxy primer C400V3 or similar

- 100µ zinc phosphate epoxy primer C400V3 or similar

- 50µ acrylic urethan egloss finish C137V2 or similar.

Note - Corrosion protection to be compatible with intumescent paint where applicable. 6.11 Additional requirements for architecturally exposed structural steelwork:

Remove all weld splutter and grind welds flush to the satisfaction of the engineer and architect.

6.12 Shop drawings shall be submitted to the Engineer for technical review prior to fabrication. The purpose of the review is to theck that details have been developed in accordance with the design intentions as shown in the working drawings.

6.13 All galvanizing to be in accordance with the recommendations of the Galvanizers Association. Hot Dip galvanizing to steel sections to be a minimum 85µ DFT

Refer to Architect's details for steelwork requiring escent protection.

6.15 All seelwork which will emain inaccessible within the external wall cavity, to be coated with 2 coats of bituminous paint. 6.16 All steelwork dimensions are to be site measured prior to fabrication to suit site dimensions

All timber grades to be Grade C16 UNO.

All new timber floors are to be provided with lateral restraint supports where those supports are by steelwork, intermediate

7.03 Where solid joists span over 2.5m additional strutting should also be installed as follows:

Decking to be fixed with 3.35mm $\not D$ ringed shank nails. Nail spacing to be 150mm C/C around edge of board and at 300mm C/C where the board crosses a joist. P03

Fasteners to be 10 mm from edge of board, joists and noggins U.N.O.

Timber decking to have a 10mm expansion gap between deck and perimeter wall.

MASONRY

Min compressive strength of masonry to walls as

Blockwork Mortar designation above DPC Mortar designation below DPC 15N/mm² Durability Class F2, S2 7.3N/mm² (ii) M6 (ii) M6

 $8.02\,$ Maximum dry weight of any block unit must not be greate than 20 Kg.

3.03 Temporary stability of walls & structure in new building during construction to be considered by contractor. Contractor responsible for providing all temporary support requirements.

8.04 Lintels to have minimum 150mm bearing (or as otherwise specified on drawings) on full bed of mortar on full block. Lintels to be propped as required by manufacturer's recommendations.

8.05 For head restraint and movement joints refer to Hydrock drawings. All fixings into masonry to comply with manufacturers guidelines.

3.06 All cavity walls to be tied with type 2 ties in accordance with DD140: part 2 (except for cavities greater than 100mm where type I ties should be used).

It is to have a minimum 50mm embedment into mortar bed.

It is specified otherwise by the Architect, test to be staggered and spaced at 450mm vertically and 900mm horizontally (at unbounded edges, floors and openings, space at 225mm horizontally and vertically). Ties to be stainless steel.

Damp proof course to be selected and installed to the endations of BS5628-3 cl 21.4 & 21.5 and approved by the

8.09 Replacement stonework for the new door reveals is to match the visual appearance and quality of the existing stonework used for the surrounding wall. This is to be to the satisfaction of the Architect, Engineer, Conservationist and Client.

9.00 SUBCONTRACTOR'S PROPRIETARY PRODUCT DESIGNED ITEMS

Design for the following items are to be forwarded by the t sub-contractor to design team:



Flood barriers
 Honor barriers within drainage system
 Steelwork, fabrication drawings and connection details

 $9.02\,$ Design calculations to be submitted for technical review prior to commencement of fabrication drawings.

10.00 LOADINGS

The following characteristic actions have been used as a general basis for the design in accordance with BS EN 1991-1-1:2002

Permanent Variable

<u>Permanent</u>	Variable		
ROOF (new)	Imposed	Snow	Wind
Finishes 10.25 kN/m² Finishes 10.25 kN/m² Finishes 10.25 kN/m²	0.60 kN/m²		

CDM RESIDUAL HAZARD INFORMATION

(IN ADDITION ASSOCIATED WITH DRAW TO THE HAZARDS / RISKS NORMALLY HTHE TYPES OF WORK DETAILED ON THIS VING, NOTE THE FOLLOWING)

1. SUPPORTING EXISTING STRUCTURE

THE WORKS REQUIRE THE TEMPORARY SUPPORT OF FLOORS AND LOAD BEARING WALLS DURING THE CONSTRUCTION PHASE. THESE WORKS MUST BE DESIGNED BY A SUITABLY EXPERIENCED PERSON AND BE INSTALLED IN STRICT ACCORDANCE WITH THE DESIGN

2. OPENINGS WITHIN THICK STONE WALLS

ALL DMENSIONS ARE TO BE CHECKED ON STIE BEFORE THE COMMENCEMENT OF WORKS, AND DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT & ENGINEER FOR VERHICATION, FIGURED DIMENSIONS ONLY ARE TO BE TAKEN FROM THIS DRAWNING. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEER AND SERVICE ENGINEERS' DRAWINGS AND SPECIFICATIONS. THIS DRAWING IS COPYRIGHT.

3. OPENINGS THROUGH CHIMNEYS

THE INVESTIGATION
PRESENT WITHIN TO
GENERALLY FOUND TO
MAY NOT BE THE CA
PROCEED WITH CAUT
STABLE THAN EXPECT
THE STRUCTURAL ENG I HE EXISTING WALLS, WHILE IT WAS D'HHE TRIBBLE WAS STABLE, THIS CASE WHEN LARGE HOLES, ARE MADE. THON, IF A WALL IS FOUND TO BE LESS TED, STOP WORKS, SEEK ADVICE FROM GINEER, GROUTING MAY BE REQUIRED DR TO PROCEEDING.

THE EXISTING CHIMIN THAT VARY IN POSIT AFFECT THE ABILITY C BRIDGE OPE THIS SHOULD BE CC WHEN PREPARING T INMNEYS ARE LIKELY TO CONTAIN FLUES POSITION AT EACH LEVEL. THESE MAY ITY OF THE MASSONEY TO CANTILEVER / COPENINGS AND THEREFORE E CONSIDERED BY THE CONTRACTOR NG THEIR METHOD STATEMENTS FOR THESE WORKS.

FOR SPECIFICATION NOTES, SEE DRAWING TGH-HYD-XX-ZZ-DR-S-1000. FOR SECTIONS, SEE DRAWINGS TGH-HYD-XX-ZZ-DR-S-1300 - 1303. ALL WORK TO COMPLY WITH THE RELEVANT BRITISH STANDARDS, CODES OF PRACTICE AND BUILDING REGULATIONS.

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RAFTERS.	220x90mm GLULAM BEAM @ 1.8m C/C OR 225x75mm C24 TIMBER	DOUBLE JOISTS.	NEW DEOCEMACING SEEEFED WALE.	NEW BLOCKWOOK STEEDED WALL	WALL PLATE (FACE FIXED AND HANGERS).	NEW STEEL BEAM.	PADSTONE.	SPAN OF EXISTING JOISTS BELOW. SPAN OF NEW 150x50mm C24 JOISTS @ MAX 400mm C/C. SPAN OF PROPOSED 75x50mm C24 PURLINS @ MAX 600mm C/C CONTINUOUS ACROSS SUPPORTS. SPAN OF NEW 100x50mm C24 JOISTS @ MAX 400mm C/C. SPAN OF NEW 100x50mm C24 JOISTS DOUBLE UP EXISTING JOISTS @ 400mm C/C. POSITION OF TEMPORARY PROPPING.	SPAN OF NEW 200x50mm C24 JOISTS @ MAX 400mm C/C.
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3US.	28/03/19			
	28/03/19 A.FITZHUGH			

203x133x30 UB WP

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STANDARD CONCRETE LINTEL ON OUTSIDE OF GROUP.

STEEL ANGLE LINTEL WITH PISTOL CUT STONE ON OUTSIDE OF GROUP.

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KEY:

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rock	DATE	
	CHECKED BY	
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OUTLINE SPECIFICATION NOTES

SUITABLE FOR TENDER NTS D2

TGH-HYD-XX-ZZ-DR-S-1000 PO3