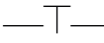
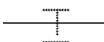
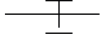


1.0 ABBREVIATIONS

AOD	ABOVE ORDNANCE DATUM
BWK	BRICKWORK
BLK	BLOCKWORK
BOS	BOTTOM OF STEEL
BOC	BOTTOM OF CONCRETE
C/C	CENTRE TO CENTRE SPACING
CL	COVER LEVEL
	CENTRELINE
CONT	CONTINUOUS
DIA	DIAMETER
DP	DEEP
DRG	DRAWING
EF	EACH FACE
EJ	EXPANSION JOINT
EL	EXISTING LEVEL
EX	EXISTING
FFL	FINISHED FLOOR LEVEL
HOR	HORIZONTAL
IL	INVERT LEVEL
LWC	LIGHTWEIGHT CONCRETE
MC	MASS CONCRETE
MJ	MOVEMENT JOINT
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
NO	NUMBER OFF
O/A	OVERALL
Ø	DIAMETER
PC	PRECAST
PT	POST TENSIONED
RC	REINFORCED CONCRETE
SIM	SIMILAR
SOP	SETTING OUT POINT
SSL	STRUCTURAL SLAB LEVEL
TBC	TO BE CONFIRMED
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL
TW	TEMPORARY WORKS
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICALLY
WD	WIDE

SYMBOLS

←→ INDICATES DIRECTION OF FLOOR OR SLAB SPAN

	CONTINUOUS COLUMN
	COLUMN UNDER
	COLUMN STARTS

2.0 STANDARDS

- 2.1 STRUCTURAL ENGINEERING DESIGN FOR NEW PERMANENT WORKS HAVE BEEN PREPARED IN ACCORDANCE WITH THE RELEVANT EUROCODES AND THE UK NATIONAL ANNEX.
- 2.2 WHERE APPLICABLE, STRUCTURAL DESIGN AND OR CHECKING OF EXISTING FABRIC MAY HAVE BEEN CARRIED OUT USING HISTORIC BRITISH STANDARDS AND OTHER HISTORIC DESIGN DATA AND REFERENCE DOCUMENTS.

3.0 CONTRACTOR DESIGNED PORTIONS

- 3.1 THE FOLLOWING CDP ITEMS ARE NOT SHOWN ON THE DRAWINGS AND ARE THE RESPONSIBILITY OF THE CONTRACTOR:
- TEMPORARY SUPPORT WORKS
 - STEEL TO STEEL CONNECTIONS
 - STRUCTURAL GLASS
 - PROPRIETARY GUTTER SUPPORTS
 - PLANT SUPPORT BASES AND FRAMES
 - SUPPORTS FOR MEP ITEMS
 - MEP SUPPORT RACKS
 - PLANT ANTI-VIBRATION MOUNTS
 - CURTAIN WALLING, SHOP FRONTS, LOUVRES AND ALL SECONDARY STEELWORK AND FIXINGS
 - MANSAFE SYSTEMS AND ATTACHMENTS
 - ACCESS GANTRIES, STEP OVERS IN AND AROUND PLANT
 - EDGE TRIMS ETC TO COMPOSITE METAL DECKING

4.0 GENERAL NOTES

- 4.1 ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ALL SPECIFICATIONS, WORKS INFORMATION AND ALL RELEVANT ARCHITECTS AND MEP ENGINEERS DRAWINGS AND SPECIFICATIONS.
- 4.2 FOR SETTING OUT INFORMATION, REFER TO THE RELEVANT ARCHITECT'S DRAWINGS WITHIN THE WORKS INFORMATION
- 4.3 STRUCTURAL LEVELS ARE IN METRES AND ARE RELATED TO ORDNANCE DATUM (O.D.).
- 4.4 ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- 4.5 DRAWINGS SHOULD NOT BE SCALED EITHER BY HAND OR FROM THE COMPUTER DIGITAL DATA, ONLY FIGURED DIMENSIONS ARE TO BE USED.
- 4.6 THE STRUCTURE IS DESIGNED FOR THE PERMANENT CONDITION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING THE CONSTRUCTION STAGE. ALL ADDITIONAL STEEL, PROPPING, TURFERS ETC SHALL BE DEEMED TO BE INCLUDED FOR BY THE CONTRACTOR AND TO BE REMOVED FROM SITE AFTER COMPLETION OF THE PERMANENT WORKS.
- 4.7 ALL PROPRIETARY AND SPECIFIED PRODUCTS SHALL BE USED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS DATA SHEETS AND RECOMMENDATIONS.
- 4.8 GENERALLY ONLY KNOWN HOLES, POCKETS, RECESSES ETC, WITH A DIMENSION GREATER THAN 150MM ARE SHOWN ON THE DRAWINGS. FOR CONFIRMATION OF THESE AND FOR DETAILS OF SMALLER HOLES, FIXINGS, INSERTS ETC REFERENCE SHALL BE MADE TO THE ARCHITECTS, MEP AND SUBCONTRACT DRAWINGS.
- 4.9 THE MAIN STRUCTURAL GRID AND LEVELS TO BE AGREED ON SITE WITH THE CA PRIOR TO COMMENCEMENT OF THE WORKS.
- 4.10 ALL DIMENSIONS ON STRUCTURAL DRAWINGS ARE RELATED TO CENTRE LINES, EXCEPT IN THE CASE OF CHANNELS AND ANGLES WHERE DIMENSIONS RELATE TO CHANNEL AND ANGLE OUTSIDE FACES.
- 4.11 THE CONTRACTOR SHALL CARRY OUT A DETAILED GEOMETRIC SURVEY PRIOR TO COMMENCEMENT OF THE WORKS AND CHECK AGAINST ANY RELEVANT SURVEY DATA. SURVEYS OF EXISTING AND OR BOUNDARY CONDITIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
- 4.12 WORKS EXECUTED ON SITE PRIOR TO THE RELEVANT APPROVALS BEING OBTAINED IS AT THE CONTRACTORS OWN RISK.
- 4.13 THE CONTRACTOR SHALL CARRY OUT ANY OPENING UP WORKS NECESSARY IN ORDER TO ESTABLISH DETAILS AT THE INTERFACE BETWEEN NEW AND EXISTING.
- 4.14 THE STRUCTURAL DESIGN HAS BEEN PREPARED TO COMPLY WITH PART A OF THE BUILDING REGULATIONS. DESIGNS TO COMPLY WITH OTHER PARTS OF THE BUILDING REGULATIONS ARE THE RESPONSIBILITY OF OTHERS.
- 4.15 THE SETTING OUT OF ALL NEW ELEMENTS IS TO BE AGREED WITH THE ARCHITECT, ENGINEER AND CONTRACTOR FOLLOWING DETAILED SITE DIMENSIONAL SURVEY BY THE CONTRACTOR GIVEN THE LIKELY VARIATIONS IN EXISTING FLOOR LEVELS, VERTICALITY OF WALLS/COLUMNS. THE NEW STRUCTURAL FRAME SETTING OUT NEEDS TO BE MUTUALLY AGREED AS THE BEST FIT.
- 4.15 THE CONTRACTOR IS TO INFORM THE CA IF ANY EXISTING BUILDING FABRIC IS OPENED UP AND FOUND TO BE IN POOR CONDITION OR AT VARIANCE FROM DETAILS SHOWN ON THE DRAWINGS.
- 4.16 THE CONTRACTOR SHALL ALLOW FOR FURTHER EXPLORATORY WORKS AS SOON AS POSSIBLE (INCLUDING TRIAL PITS AS NECESSARY) TO EXPOSE AREAS SUCH AS FOUNDATIONS ETC TO ALL RETAINED AND/OR PERIMETER STRUCTURES, PARTY WALLS ETC IN ORDER TO COMPLETE TEMPORARY WORKS DESIGN ETC AS WELL AS TO PERMIT THE DESIGN TEAM TO CONFIRM THEIR PRIOR ASSUMPTIONS AND CONSTRUCTION DETAILS.

5.0 BUILDING INFORMATION MODELLING

- 5.1 THE CONTRACTUAL DRAWINGS/INFORMATION PRODUCED BY ENGINEER UNDER OUR APPOINTMENT ARE LIMITED TO THE 2D PDF FORMAT DRAWINGS (ISSUED ELECTRONICALLY, OR AS PAPER COPIES), WITH RESPECT TO DESIGN COORDINATION AND DIMENSIONAL SETTING OUT.
- 5.2 WHERE DIGITAL MODELS/FILES ARE ISSUED, THESE ARE PROVIDED FOR INFORMATION ONLY TO ASSIST OTHER PARTIES TO DEVELOP THEIR DESIGNS/ DRAWINGS AND DOCUMENTATION ETC. THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF THE DIGITAL DATA SUPPLIED.
- 5.3 THE EXTENT OF THE 3D MODEL IS LIMITED TO THE PRIMARY STRUCTURAL ELEMENTS ONLY.

6.0 HEALTH AND SAFETY

- 6.1 ROSS AND PARTNERS ROLE ON THIS PROJECT IS THAT OF A DESIGNER AS DEFINED BY THE CDM REGULATIONS 2015.
- 6.2 IN CARRYING OUT DESIGN WORK, ENGINEERING JUDGEMENT HAS BEEN APPLIED TO ELIMINATE, OR WHERE NOT REASONABLY PRACTICABLE, TO REDUCE DESIGN HAZARDS AND RISKS ASSOCIATED WITH THE CONSTRUCTION AND FOLLOWING LIFE OF THE STRUCTURE.
- 6.3 THE CONTRACTOR'S ATTENTION IS DRAWN TO MATTERS WHICH HAVE BEEN IDENTIFIED WITHIN THE HEALTH AND SAFETY PLAN AS BEING POTENTIALLY HAZARDOUS, HOWEVER THESE ITEMS SHALL NOT BE CONSIDERED AS A COMPLETE, FINAL AND EXHAUSTIVE LIST.
- 6.4 THE MAIN HAZARDS ASSOCIATED WITH THE STRUCTURAL ASPECTS ARE AS DESCRIBED WITHIN THE DESIGN RISK ASSESSMENTS.
- 6.5 THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE AND ALL RETAINED EARTH WORKS BOTH ON AND ADJACENT TO THE SITE DURING THE COURSE OF THE WORKS AND MUST TAKE ALL NECESSARY PRECAUTIONS TO SAFEGUARD THEIR STABILITY.
- 6.6 THE CONTRACTOR'S HEALTH AND SAFETY OBLIGATIONS WILL APPLY WHEN UNDERTAKING CONSTRUCTIONAL ACTIVITIES BOTH ON AND OFF SITE. THIS WILL APPLY TO ALL SUBCONTRACTORS AND SUPPLIERS.

7.0 DEMOLITION

- 7.1 ALL DEMOLITION WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BS 6187.
- 7.2 THE OVERALL STABILITY AND STRUCTURAL INTEGRITY OF THE BUILDING IS TO BE MAINTAINED AT ALL TIMES.
- 7.3 THE CONTRACTOR IS RESPONSIBLE FOR THE ISOLATION, DISCONNECTION AND REMOVAL OF ALL LIVE SERVICE CONNECTIONS INCLUDING: WATER, ELECTRICITY, GAS, TELECOMS. THE CONTRACTOR SHALL LIAISE WITH THE RELEVANT UTILITY PROVIDER FOR THE SAFE ISOLATION AND DISCONNECTION.
- 7.4 THE CONTRACTOR SHALL EMPLOY DEMOLITION PLANT AND TECHNIQUES THAT MINIMISE NOISE, DUST AND VIBRATION TO THE MINIMUM PRACTICABLE. THE CONTRACTOR SHALL HAVE DUE REGARD TO THE NOISE AND VIBRATION LIMITS SET BY THE LOCAL AUTHORITY, THE EMPLOYER, THE PARTY WALL AWARDS.
- 7.5 ANY TEMPORARY PROPPING SHALL BE DESIGNED AND PROVIDED BY THE DEMOLITION CONTRACTOR. THIS IS TO MAINTAIN VERTICAL AND LATERAL STABILITY OF:
- THE STRUCTURE BEING DEMOLISHED
 - ANY RETAINED STRUCTURE
 - ANY ADJOINING STRUCTURE.
 -
- 7.6 THE CONTRACTOR SHALL ENSURE THAT SUITABLE SUBSTANTIAL PROTECTION IS PROVIDED ALONG THE BOUNDARY WITH NEIGHBOURING BUILDINGS AND ANY OTHER BOUNDARY AGREED WITH THE CA SUFFICIENT TO RETAIN ALL DEMOLITION DEBRIS WITHIN THE SITE. POLYTHENE SHEETING WILL NOT BE DEEMED APPROPRIATE IN THESE LOCATIONS. DETAILS OF THE PROPOSED PROTECTION SCHEME SHOULD BE SUBMITTED WITH THE TENDER. IT SHOULD BE NOTED THAT SIMILAR PROTECTION WILL BE REQUIRED THROUGHOUT THE DURATION OF THE BUILDING WORKS.
- 7.7 THE EXISTING BASEMENT RETAINING WALLS ARE ASSUMED TO BE DESIGNED AS PROPPED AT SLAB LEVEL. ALL NECESSARY PROPPING TO THESE WALLS RESULTING FROM DEMOLITION SHALL BE DESIGNED FOR HIGHWAY LOADINGS AND SURCHARGING AND THE DESIGN SHOULD BE SUBMITTED AT TENDER FOR REVIEW BEFORE THE WORKS PROCEEDS, IN ACCORDANCE WITH THE DEMOLITION SPECIFICATION.
- 7.8 THE CONTRACTOR SHALL INCLUDE FOR ALL NECESSARY NEEDLING, SHORING, STRUTTING AND TEMPORARY SUPPORT TO ALL STRUCTURES, INCLUDING PARTY WALLS AND FACADE WALLS WHICH ARE TO BE RETAINED AND LIKELY TO BE AFFECTED BY THE OPERATIONS AND SHALL OBTAIN THE CA'S WRITTEN AGREEMENT TO SUCH MEASURES BEFORE COMMENCEMENT OF THE WORKS. THEY SHALL ALSO INCLUDE FOR STRIKING AND REMOVAL OF SAME.
- 7.9 THE CONTRACTOR SHALL INCLUDE FOR ALL NECESSARY FOUNDATIONS, ANCHOR RODS, MINI PILES, FILLING, GROUND ANCHORS, SPREADER BEAMS AND OTHER WORK AS NECESSARY FOR THE TEMPORARY WORKS, TOGETHER WITH ALL THE WORK NECESSARY TO THE EXISTING FOUNDATIONS, RETAINING WALLS AND EXTERNAL WALLS.
- 7.10 THE CONTRACTOR SHALL DESIGN, SUPPLY AND ERECT ALL STRUCTURAL STEELWORK TOWERS, BRACING AND SHORING COMPLETE AS NECESSARY, TO RETAIN THE EXTERNAL WALLS AND RETAINING WALLS OF THE EXISTING BUILDING.

- 7.11 THE STEEL SUPPORT SYSTEM SHALL BE SO DESIGNED AS TO ENABLE THE SUBSEQUENT NEW FRAME WITHIN THE BUILDING TO BE ERECTED WITHOUT NECESSITATING ADJUSTMENTS TO THE PERMANENT WORKS.
- 7.12 THE CONTRACTOR MUST PROVIDE DRAWINGS AND CALCULATIONS COVERING ANY TEMPORARY SUPPORT WORK LOCATED WITHIN THE SITE ASSOCIATED WITH RETAINED PERIMETER STRUCTURE AND BASEMENT RETAINING WALLS.
- 7.13 SURVEY INFORMATION TO BE PROVIDED IN THE FORM AND AT THE DATES GIVEN IN THE DEMOLITION SPECIFICATION OR ELSEWHERE ON THE DRAWINGS OR THESE GENERAL NOTES.

8.0 TEMPORARY SUPPORT WORKS

- 8.1 THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING ERECTION (i.e: ITS TEMPORARY CONDITION).
- 8.2 THE CONTRACTOR SHALL DESIGN, INSTALL AND MAINTAIN ALL NECESSARY TEMPORARY WORKS AND SHALL ADVISE BOTH THE ARCHITECT AND ENGINEER OF HIS PROPOSALS FOR TEMPORARY SUPPORT WORKS AND SEQUENCING AT LEAST TEN DAYS PRIOR TO COMMENCEMENT OF ANY SUCH WORKS.
- 8.3 THE CONTRACTOR SHALL PROVIDE ALL NECESSARY CALCULATIONS FOR THE TEMPORARY STRUCTURE AND WHERE NECESSARY, DETAILED MEMBER CHECKS. ALL ADDITIONAL STEEL REQUIRED FOR THE TEMPORARY STABILITY OF THE STRUCTURE SHALL BE DEEMED TO BE INCLUDED BY THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE ON THE COMPLETION OF THE PERMANENT STRUCTURE.
- 8.4 THE CONTRACTOR SHALL MONITOR ALL TEMPORARY WORKS DAILY AND ALSO THE EXISTING FABRIC FOR ANY SIGNS OF MOVEMENT OR DAMAGE. ENSURE ALL PROPS ARE ADEQUATELY SEATED AND TIGHTENED AND THE SUPPORTED STRUCTURE IS ADEQUATELY WEDGED, PINNED OR PACKED.

9.0 BUILDERSWORK AND FIXINGS

- 9.1 THE CONTRACTOR IS RESPONSIBLE FOR CO-ORDINATING ALL SERVICE OPENINGS THROUGH THE STRUCTURE WITH THE MEP SUBCONTRACTOR AND TO REPORT ON ANY ADDITIONAL REQUIREMENTS.
- 9.2 NO HOLES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS ARE TO BE FORMED IN THE STRUCTURE WITHOUT APPROVAL.
- 9.3 HOLES OF MAXIMUM DIMENSION EQUAL TO OR LESS THAN 200MM X 200MM ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND APPROVED BUILDERS WORK DRAWINGS. OPENINGS, POCKETS ETC. LARGER THAN 200MM SHALL NOT BE PLACED IN THE STRUCTURE UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS, WITHOUT PRIOR APPROVAL OF THE CM.
- 9.4 THE CONTRACTOR IS RESPONSIBLE FOR CO-ORDINATING AND CHECKING ALL FIXINGS TO THE STRUCTURE.
- 9.5 FOR DETAILS OF ALL OTHER CAST-IN ELEMENTS SUCH AS DUCTS, PIPES, LIGHTING PROTECTION, AND LIFT SHAFT INSERTS, REFER TO THE SERVICES DRAWINGS WITHIN THE WORKS INFORMATION.
- 9.6 CLADDING SYSTEMS ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. FOR DETAILS REFER TO THE ARCHITECTURAL DRAWINGS WITHIN THE WORKS INFORMATION.
- 9.7 ANY REDUNDANT HOLES IN EXISTING REINFORCED CONCRETE STRUCTURE THAT ARE DISCOVERED ON SITE BUT ARE UNIDENTIFIED BY THE STRUCTURAL DRAWINGS SHOULD BE REPORTED TO THE EMPLOYER AND MAY REQUIRE INFILLING. INFILL REINFORCEMENT REQUIREMENTS WILL VARY DEPENDING ON EXISTING SURROUNDING REINFORCEMENT ARRANGEMENT.

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DRG TITLE **GENERAL NOTES Page 1**

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