

Notes:

- General:**
1. All dimensions and levels are in millimetres unless noted otherwise.
 2. All levels relate to ordnance datum unless noted otherwise.
 3. Do not scale from this drawing. Use figured dimensions only.
 4. If in doubt, Ask. Please report any discrepancies before proceeding.
 5. This drawing to be read in conjunction with all other relevant drawings
 6. This drawing is copyrighted ©

CONSTRUCTION NOTES

TIMBER
 ALL TIMBER TO BE GRADE C24 (SC4) UNLESS STATED OTHERWISE IN THE CALCULATIONS .
 TIMBER SHOULD BE OF THE CORRECT MOISTURE CONTENT FOR ITS INTENDED USAGE. PARTICULAR CARE SHOULD BE TAKEN WHEN STORING TIMBER ON SITE READY FOR USE: PROTECT IT FROM THE ELEMENTS.
 TIMBER SHALL BE FREE FROM KNOTS AND WANE AND GENERALLY BE IN GOOD ORDER.
 TIMBER SHALL NOT BE NOTCHED OR CUT WITHOUT APPROVAL OF THE ENGINEER.
 ADOPT HERRINGBONE STRUTTING TO FLOOR AND CEILING JOISTS WHERE SPANS EXCEED 2.5M.

FOUNDATIONS
 DEPTH OF ALL FOOTINGS IS TO BE APPROVED BY THE LOCAL BUILDING INSPECTOR. MINIMUM OF 1 M DEEP ADVISE ENGINEER IF FOOTINGS ARE LOCATED WITHIN 30M OF LARGE TREES OR HEDGES. ALSO NOTIFY IF WATER IS STRUCK, TREE ROOTS ARE FOUND OR CLAY SOIL APPEARS VERY DRY AND BRITTLE.

GENERAL CONSTRUCTION NOTES
 ALL DRAINAGE WORKS TO ARCHITECTS DETAILS
 ADOPT PROPRIETARY LINTELS AS REQUIRED (SEE CALCULATION PAGES). LINTELS TO HAVE MIN OF 150MM END BEARING.
 STRUCTURAL MEMBERS TO HAVE ADEQUATE FIRE PROTECTION – SEE ARCHITECTS DETAILS.
 STRUCTURAL MEMBERS TO HAVE ADEQUATE PAINT COATINGS TO RESIST ENVIRONMENTAL CONDITIONS.
 ALL PROPRIETARY ELEMENTS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S DETAILS AND SPECIFICATIONS.

SECTIONAL UNDERPINNING SPECIFICATION NOTES

ALL EXCAVATIONS ARE TO BE CARRIED OUT BY HAND, AND NO MECHANICAL EXCAVATION WILL BE ALLOWED FOR MATERIAL BENEATH EXISTING WALL.
 SECTIONS OF UNDERPINNING ARE TO BE LIMITED TO A MAXIMUM OF 1000mm.
 A MINIMUM OF 1 DAY CURING TIME IS TO BE ALLOWED BEFORE RAM PACK OF SEMI DRY CONCRETE. A MINIMUM OF 2 DAYS CURING FOR SEMI DRY CONCRETE IS TO BE ALLOWED BEFORE AN ADJOINING UNDERPINNING SECTION IS EXCAVATED. IF REQUIRED THE SIDES AND BACK OF THE EXCAVATION ARE TO BE SHEETED AND STRUTTED TO PREVENT THE COLLAPSE OF THE EXCAVATION.
 THE CONCRETE IS TO BE PLACED AS QUICKLY AS POSSIBLE AFTER COMPLETION OF THE EXCAVATION TO EACH SECTION. CHASERS OR POCKETS ARE TO BE LEFT IN THE VERTICAL STOP ENDS OF THE LEGS TO BOND IN WITH THE CONCRETE OF THE ADJACENT LEGS.

CONSTRUCTION NOTES

THE NOTES BELOW HIGHLIGHT KEY POINTS ONLY AND THEY ARE BY NO MEANS AN EXHAUSTIVE LIST OF CONSTRUCTION NOTES. IT IS ASSUMED THAT THE CONTRACTOR IS COMPETENT AND FULLY AWARE OF CURRENT BUILDING REGULATIONS AND BRITISH STANDARDS. NOTES SHOULD BE READ WITH DRAWINGS AND CALCULATIONS.

STEELWORK
 ALL STEELWORK TO BE A MINIMUM OF GRADE S275 (G43).
 STEELWORK BEAMS SHOULD HAVE A MINIMUM END BEARING ONTO MASONRY OF 150MM. BEARINGS SHOULD BE ONTO SOLID MASONRY WITH PADSTONES AS NOTED IN THE DESIGN. BEARINGS SHOULD BE ONTO WHOLE BRICKS OR BLOCKS, WITH NO CUT MASONRY LOCALLY AROUND THE BEARING.
 WHERE BEAMS ARE TO BE BOLTED TOGETHER, ADOPT MINIMUM BOLT STRENGTH OF GRADE 8.8; CONNECTIONS SHOULD HAVE 4NO M16 BOLTS AS A MINIMUM. ENDPLATES SHOULD BE 12MM THICK WITH 6MM FPFW AS A MIN. (OR GREATER IF STATED IN CALCULATIONS) .
 STEELWORK BEAMS SUPPORTING EXISTING WALLS SHOULD BE PACKED TIGHT TO THE UNDERSIDE OF EX. WALLS. ADOPT SLATE PACKS OR NON-SHRINKABLE GROUT AS REQUIRED .
 ANY HOLES, NOTCHES OR ALTERATIONS TO BEAMS SHOULD BE CLEARED BY THE ENGINEER FIRST.

CONCRETE
 PADSTONES SHOULD BE OF STRENGTH C30 CONCRETE THAT IS THOROUGHLY COMPACTED.
 FOR PADSTONES OVER 328MM LENGTH, INTRODUCE 2NO M12 REINFORCEMENT BARS INTO THE BOTTOM. CONCRETE FOR FOUNDATIONS SHOULD BE OF GRADE C25 OR BETTER. UNLESS OTHERWISE PROVEN, ASSUME THAT THE CONCRETE IS REQUIRED TO BE SULPHATE RESISTING.

MASONRY
 EXISTING WALLS ARE ASSUMED TO HAVE THE FOLLOWING COMP STRENGTHS:
 COMMON BRICKWORK =5.6N/MM2 , BLOCKWORK=2.8N/MM2. WALLS SHOULD BE IN GOOD ORDER WITH NO CRACKS OR MOVEMENT LATERALLY OR VERTICALLY. ADVISE ENGINEER IF ANY EXISTING WALLS ARE SUSPECT.
 NEW WALL CONSTRUCTION SHOULD BE IN ACCORDANCE WITH THE BUILDING REGULATIONS IN TERMS OF DPC LAYOUTS, CAVITY WALL THICKNESS, INSULATIONS. ARCHITECTURAL DETAILS SHOULD ADDRESSED IN THESE AREAS. WALLS SHOULD BE TIED TOGETHER ACROSS THE CAVITY WITH PROPRIETARY WALLS TIES SUITABLE FOR THE WALL CONSTRUCTION AND THICKNESS. DOUBLE UP WALL TIES AROUND DOORS AND WINDOWS. ADOPT TIES AT 900MM C/C/S HORIZONTALLY AND 450MM C/C S VERTICALLY AS A MINIMUM. ADOPT A CLASS 2 OR 3 MORTAR TO SUIT CONDITIONS ON SITE ADOPT SIMPSON STRONG TIE C2K CROCODILE WALL TIES (OR SIMILAR APPROVED) AT EXISTING/NEW WALL JUNCTIONS

- CDM REGULATIONS 2007**
1. THE CLIENT IS HEREBY MADE AWARE OF HIS RESPONSIBILITIES UNDER CDM 2007.
 2. AS DESIGNERS WE ARE OBLIGED TO INFORM THE CLIENT OF THE RISKS THAT MAY BE ENCOUNTERED IN THE CONSTRUCTION OF THESE WORKS. ALL DESIGN WORK HAS BEEN CARRIED OUT WITH FULL CONSIDERATION OF HEALTH & SAFETY ASPECTS.
 3. WHERE POSSIBLE RISKS HAVE BEEN ELIMINATED FROM THE DESIGN. HOWEVER, DUE TO THE VERY NATURE OF THIS TYPE OF WORK IT IS NOT POSSIBLE TO REMOVE ALL RISKS AT DESIGN.
 4. THE CLIENT IS REMINDED OF HIS RESPONSIBILITY TO TAKE REASONABLE CONSIDERATION IN ENSURING THAT ONLY COMPETENT CONTRACTORS WHO HAVE A VALID SAFETY POLICY ARE EMPLOYED.
 5. THE CONTRACTOR MUST PROVIDE AT TENDER STAGE SATISFACTORY RESPONSES ON HOW THEY INTEND TO DEAL WITH ALL RISKS ASSOCIATED WITH THIS TYPE OF WORK. THE LIST BELOW INDICATES THE PARTICULAR RISKS COMMON TO THIS TYPE OF WORK. (NOTE: LIST IS NOT EXHAUSTIVE)


- A). FALL FROM HEIGHT
- B). ERECTORS BEING HIT OR KNOCKED OFF SCAFFOLD WHEN LIFTING BEAMS/PPC UNITS/ANY LOAD
- C). FALL OF MATERIALS TO PERSONNEL WORKING BELOW LEVELS
- D). COLLAPSE OF BEAM/FLOOR PRIOR TO FINAL FIXING
- E). LIFTING OF HEAVY MATERIALS & PLANT
- F). SAFE STORAGE OF MATERIALS & PLANT
- G). HAZARDOUS OPERATIONS (CUTTING, WELDING & PAINTING)
- H). NOISE & VIBRATIONS
- I). TRAFFIC CONTROL FOR DELIVERY & OFFLOADING OPERATIONS
- J). EXCESSIVE DEPTHS OF EXCAVATIONS FOR FOUNDATIONS, DRAINAGE & SERVICES
- K). UNPROTECTED OPENINGS

NOTE THAT THE ABOVE LIST IS NOT EXHAUSTIVE BUT HIGHLIGHTS OPERATIONS THAT PRESENT RISKS TO CONTRACTORS AND THE GENERAL PUBLIC

DAVIES STREET, BRYNNMAMR

STANDARD NOTES STRUCTURAL MODIFICATIONS

1309-000

Item:	Revision:	Date:	Scale:	Drawn:	Checked:
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