PHASING LEGEND

- PHASE 1 : COURTHOUSE,KEEPERS HOUSE AND EXTERNAL WORKS
- PHASE 2 (OPTIONAL WORKS) : NORTH WING, SOUTH WING AND CONNECTING BRIDGES

SPECIFICATION FOR CONCRETE

1. ALL CONCRETE TO BE C32/40 (TO I.S. EN 206-1:2002) UNLESS NOTED OTHERWISE.
   MIN. CEMENT CONTENT = 320kg/m³
   MAX. WATER CEMENT RATIO = 0.55
2. ALL CONCRETE (EXCEPT UNDERFLOOR HEATING SCREED AND STRUCTURAL SCREED) TO HAVE 50% OF CEMENT REPLACED WITH GGBS (GROUND GRANULATED BLAST FURNACE SLAG). MIX DESIGN TO BE ADJUSTED ACCORDINGLY AND ISSUED TO O'CSC FOR APPROVAL.
3. ALL CONCRETE SLABS TO HAVE POWERFLOAT FINISH UNLESS NOTED OTHERWISE.
4. ALL CONCRETE TO HAVE TYPE B FINISH TO BS 8110.
5. ALL EDGES OF CONCRETE VERTICAL ELEMENTS, CONCRETE BEAMS AND CONCRETE UPSTANDS TO HAVE A 15mmx15mm CHAMFER.

WALL LEGEND

- 215 SOLID BLOCKWORK RISING WALL
- 215 LOAD BEARING BLOCKWORK WALL
- 215 RISING BLOCKWORK WALL WITH 100 WIDE NON-LOAD BEARING WALL
- 440 SOLID BLOCKWORK RISING WALL UNDER 215 LOAD BEARING INNER LEAF AND 100 OUTER LEAF
- BLOCKWORK INFILL OF EXISTING WALL -DIMENSIONS TO MATCH EXISTING

SPECIFICATION FOR ABOVE GROUND MASONRY:

1. ALL LOAD BEARING MASONRY TO BE 10N GROUP I CATEGORY 2 EN 771-3 TESTED TO MINIMUM EN 772-1 7.3.2/7.3.4
2. ALL MASONRY ABOVE DPC TO BE LAID IN A M4 MORTAR (MORTAR DESIGNATION (III)) IN ACCORDANCE WITH THE IRISH NATIONAL ANNEX OF IS EN 1996.
3. STAINLESS STEEL VERTICAL TWIST TYPE WALL TIES COMPLYING WITH IS EN 1996 TO BE PROVIDED AT FOLLOWING SPACINGS :
   - 450mm HORIZONTALLY
   - 450mm VERTICALLY

   IN ADDITION, WALL TIES SHOULD BE PROVIDED AT 225mm SPACING VERTICALLY WITHIN 150mm OF EDGE OF OPES, WINDOWS, DOOR REVEALS AND JOINTS IN MASONRY.
4. ALL WALL TIES/ ANCHORS/ DOWELS ETC. SHALL HAVE A MINIMUM OF 50mm EMBEDMENT INTO EACH MORTAR BED JOINT OR MASONRY LEAF.
5. LOCATION OF ALL EXPANSION JOINTS TO BE AGREED BETWEEN ENGINEER, ARCHITECT AND CONTRACTOR PRIOR TO WORK COMMENCING ON SITE.
6. CONTRACTOR TO NOTE THAT TEMPORARY PROPPING OF BLOCKWORK, TO CONTRACTORS DESIGN AND DETAILS, IS LIKELY TO BE REQUIRED DUE TO HEIGHT OF WALLS

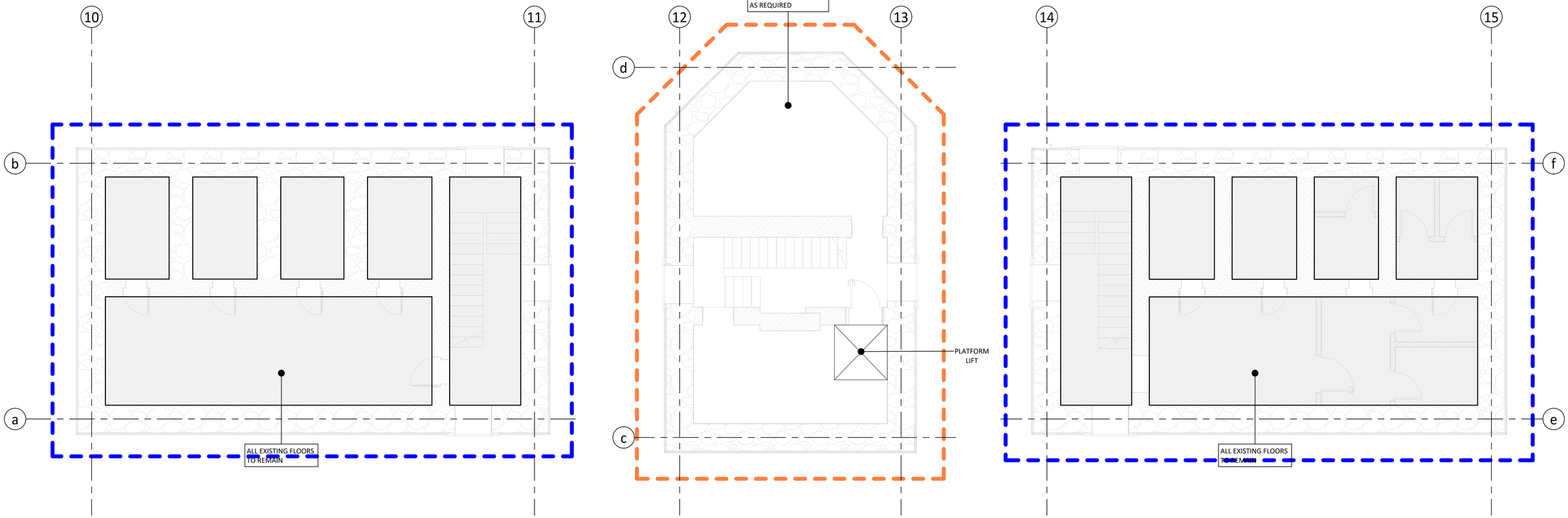
NOTES ON UNDERFLOOR HEATING SCREED

1. REFER TO M&E ENGINEERS DRAWING FOR LOCATIONS OF UNDER FLOOR HEATING (UFH).
2. WHERE UFH IS NOT PRESENT THE LEVEL OF THE STRUCTURAL SLAB IS RAISED TO MATCH FINISHED FLOOR LEVEL U.N.O.
3. LOCATION OF JOINT IN UFH SCREED TO BE PROPOSED BY CONTRACTOR FOR APPROVAL BY DESIGN TEAM AT CONSTRUCTION STAGE SUBJECT TO THE FOLLOWING:
   a. MAXIMUM INDUCED JOINT SPACING = 4.5m (100mm dp)
   b. MAXIMUM PANEL ASPECT RATIO 1:1.5
   c. ISOLATION JOINT PROVIDED AROUND ALL PENETRATIONS/COLUMN AND TO PERIMETER WALL AS PER THE STRUCTURAL SLAB
   d. PROVIDE FORMED MOVEMENT JOINT AT EACH DOOR WAY AND BUILDING MOVEMENT JOINT.
4. CONCRETE TO BE C30/37. CONTRACTOR TO PROVIDE MIX DESIGN FOR APPROVAL.
5. UFH SCREED TO HAVE THE FOLLOWING SURFACE REGULARITY,
   a. + OR - 10mm DEPARTURE FROM DATUM AT ANY POINT.
   b. 5mm MAXIMUM DEPARTURE FROM A 2.0m STRAIGHT EDGE.
   c. 2mm MAXIMUM DIFFERENCE IN LEVEL ACROSS A JOINT,
6. UFH SCREED TO HAVE A POWER FLOATED FINISH.
7. REFER TO FLOOR FINISH SUPPLIERS SPECIFICATIONS FOR MOISTURE CONDITIONS REQUIREMENT.
8. ALL OTHER ASPECT OF CONSTRUCTION, CURING AND INITIAL HEATING UP SHOULD CONFORM TO THE FOLLOWING BRITISH STANDARDS:
   - BS 8000-9: 2003
   - BS 8204: 2003
   - BS EN 1264-4:2001

SPECIFICATION FOR FILLING UNDER FLOOR SLAB:

(TO BE READ IN CONJUNCTION WITH OCSC " GROUND FLOOR SLAB SPECIFICATION ")

1. ENTIRE BUILDING FOOTPRINT TO BE CLEARED OF TOPSOIL, MADE GROUND & FILL AND EXCAVATED DOWN TO VIRGIN GROUND AS A SUITABLE BEARING STRATUM FOR GRANULAR FILL.
2. GRANULAR FILL TO COMPLY WITH SR21:2004 AND AI 2007 AND IN PARTICULAR SECTION 3.4 AND ANNEX E.
3. ENSURE THAT NO OUT OF BALANCE FORCES OCCUR ON THE MASONRY WALLS TO CAUSE UNDUE DISTRESS IN THE MASONRY. A BALANCED FILL APPROACH SHALL BE ADOPTED.
4. IN ORDER TO ASSURE THAT THE HARDCORE IS ADEQUATELY COMPACTED THE CONTRACTOR SHALL ENGAGE A SPECIALIST GEOTECHNICAL COMPANY TO CARRY OUT AND REPORT ON THE FOLLOWING PLATE BEARING TESTS:
   (i) 305mm DIAMETER PLATE BEARING TEST TO SUB-FLOOR AREA (1 PER 50m²/ OF FLOOR AREA), TO BE CARRIED OUT AFTER COMPACTING 2 No. LAYERS
   (ii) 305mm DIAMETER PLATE BEARING TEST TO SUB-FLOOR AREA (1 PER 50m²/ OF FLOOR AREA), TO BE CARRIED OUT AFTER COMPACTING TO FORMATION LEVEL FOR THE GROUND FLOOR SLAB.
   (iii) TESTS TO BE CARRIED OUT AS PER (I) AND (II) ABOVE AT LOCATIONS TO BE AGREED ON SITE WITH THE ENGINEER.
   (iv) EACH TEST SHALL BE CARRIED OUT ON AN INITIAL & RE-LOAD BASIS. THE MINIMUM ACCEPTABLE MODULUS OF REACTION AFTER COMPACTION AT EACH TEST SHALL BE AS FOLLOWS:
      - INITIAL = 75mN/m/m²
      - RE-LOAD = 150mN/m/m
5. THE ENGINEER SHALL BE VERBALLY INFORMED OF THE TEST RESULTS ON THE SAME DAY BEFORE ANY FURTHER COMPACTION OF SUBSEQUENT LAYERS TAKES PLACE. THE GEOTECHNICAL SPECIALISTS SHALL FORWARD A REPORT TO THE ENGINEERS FOR RECORD PURPOSES.
6. IF ABOVE COMPACTION RATES ARE NOT ACHIEVED THE CONTRACTOR SHALL PROPOSE AND AGREE ALTERNATIVE WORKING PRACTICES WITH THE ENGINEER.



- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DESIGN TEAM DRAWINGS AND SPECIFICATIONS.
- FOR SETTING OUT REFER TO ARCHITECT'S DRAWINGS. DO NOT SCALE THIS DRAWING. USE FIGURED DIMENSIONS ONLY.
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Rev No.	Date	Revision Note	Drn by	Chkd by
P01	02/08/24	SUITABLE FOR REVIEW/COMMENT	BP/MMcF	IC
P02	15/08/24	SUITABLE FOR REVIEW/COMMENT	BP	AC
P03	15/01/25	REVISED AS CLOUDED	NP	IC
P04	04/02/26	REVISED AS CLOUDED	HS	IC
P05	27/03/26	REVISED AS CLOUDED	BP	IC
P06	03/11/26	PHASING INDICATED - SUITABLE FOR STAGE APPROVAL - TENDER	BP	IC

Comhairle Contae Thiobraid Árann
Tipperary County Council

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Project: TIPPERARY COURTHOUSE & BRIDEWELL

Title: GROUND FLOOR PLAN - BRIDEWELL

Code	Originator	Zone	Level	Type	Role	Number	Status	Revision
O708	OCSC	00	00	DR	S	1011	S4	P06

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