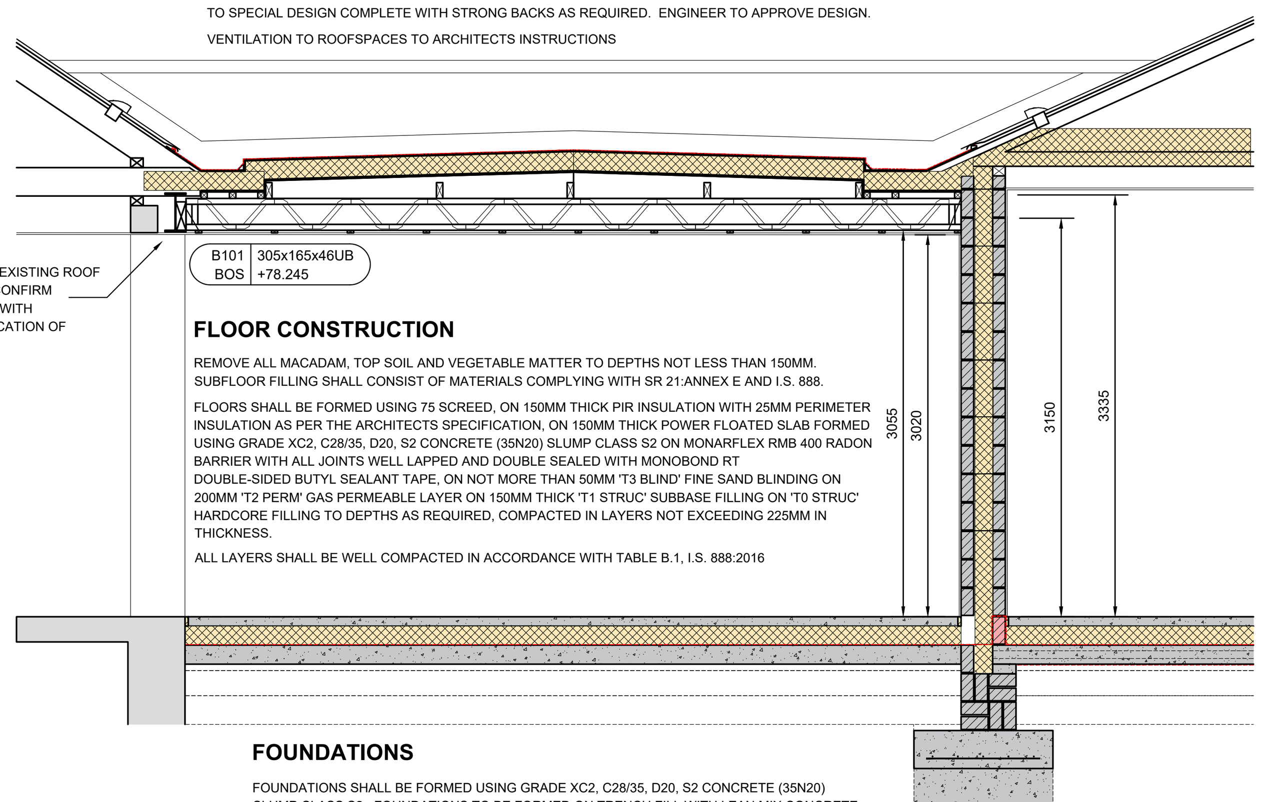
PITCHED ROOF

ROOF CLADDING AND ROOFING FELT TO ARCHITECTS INSTRUCTIONS ON PREFABRICATED ROOF TRUSSES IN ACCORDANCE WITH EN 1995-1-1:2004, A2:2014 and IS-NA + SR70:2015 TO SPECIALIST MANUFACTURER'S DESIGN FOR ENGINEERS APPROVAL. ROOFING WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH S.R.82-2017, SLATING AND TILING CODE OF PRACTICE

FLAT ROOF

ROOFING MEMBRANE ON PIR INSULATION ON VAPOUR CONTROL LAYER ALL TO ARCHITECTS SPECIFICATIONS ON 20 MARINE PLY DECK LAID TO 1:40 FALLS TO EDGE GUTTERS. EDGE GUTTERS LAID TO 1:40 FALLS TO HOPPER OUTLETS. ALL FALLS FORMED USING TILTING FILLETS AT 400 CRS ON MITEK PS10 METAL WEB JOISTS AT 400 CRS TO SPECIAL DESIGN COMPLETE WITH STRONG BACKS AS REQUIRED. ENGINEER TO APPROVE DESIGN.

VENTILATION TO ROOFSPACES TO ARCHITECTS INSTRUCTIONS



FLOOR CONSTRUCTION

REMOVE ALL MACADAM, TOP SOIL AND VEGETABLE MATTER TO DEPTHS NOT LESS THAN 150MM. SUBFLOOR FILLING SHALL CONSIST OF MATERIALS COMPLYING WITH SR 21:ANNEX E AND I.S. 888.

FLOORS SHALL BE FORMED USING 75 SCREED, ON 150MM THICK PIR INSULATION WITH 25MM PERIMETER INSULATION AS PER THE ARCHITECTS SPECIFICATION, ON 150MM THICK POWER FLOATED SLAB FORMED USING GRADE XC2, C28/35, D20, S2 CONCRETE (35N20) SLUMP CLASS S2 ON MONARFLEX RMB 400 RADON BARRIER WITH ALL JOINTS WELL LAPPED AND DOUBLE SEALED WITH MONOBOND RT DOUBLE-SIDED BUTYL SEALANT TAPE, ON NOT MORE THAN 50MM 'T3 BLIND' FINE SAND BLINDING ON 200MM 'T2 PERM' GAS PERMEABLE LAYER ON 150MM THICK 'T1 STRUC' SUBBASE FILLING ON 'T0 STRUC' HARDCORE FILLING TO DEPTHS AS REQUIRED, COMPACTED IN LAYERS NOT EXCEEDING 225MM IN THICKNESS.

ALL LAYERS SHALL BE WELL COMPACTED IN ACCORDANCE WITH TABLE B.1, I.S. 888:2016

FOUNDATIONS

FOUNDATIONS SHALL BE FORMED USING GRADE XC2, C28/35, D20, S2 CONCRETE (35N20) SLUMP CLASS S2. FOUNDATIONS TO BE FORMED ON TRENCH FILL WITH LEAN MIX CONCRETE (GRADE C16/20) BLINDING LAYER. TRENCHES TO BE CARRIED TO GOOD BEARING GROUND AS APPROVED BY THE ENGINEER. ALLOW FOR MINIMUM 0.9M TRENCH FILL BELOW STRIP FOOTINGS.

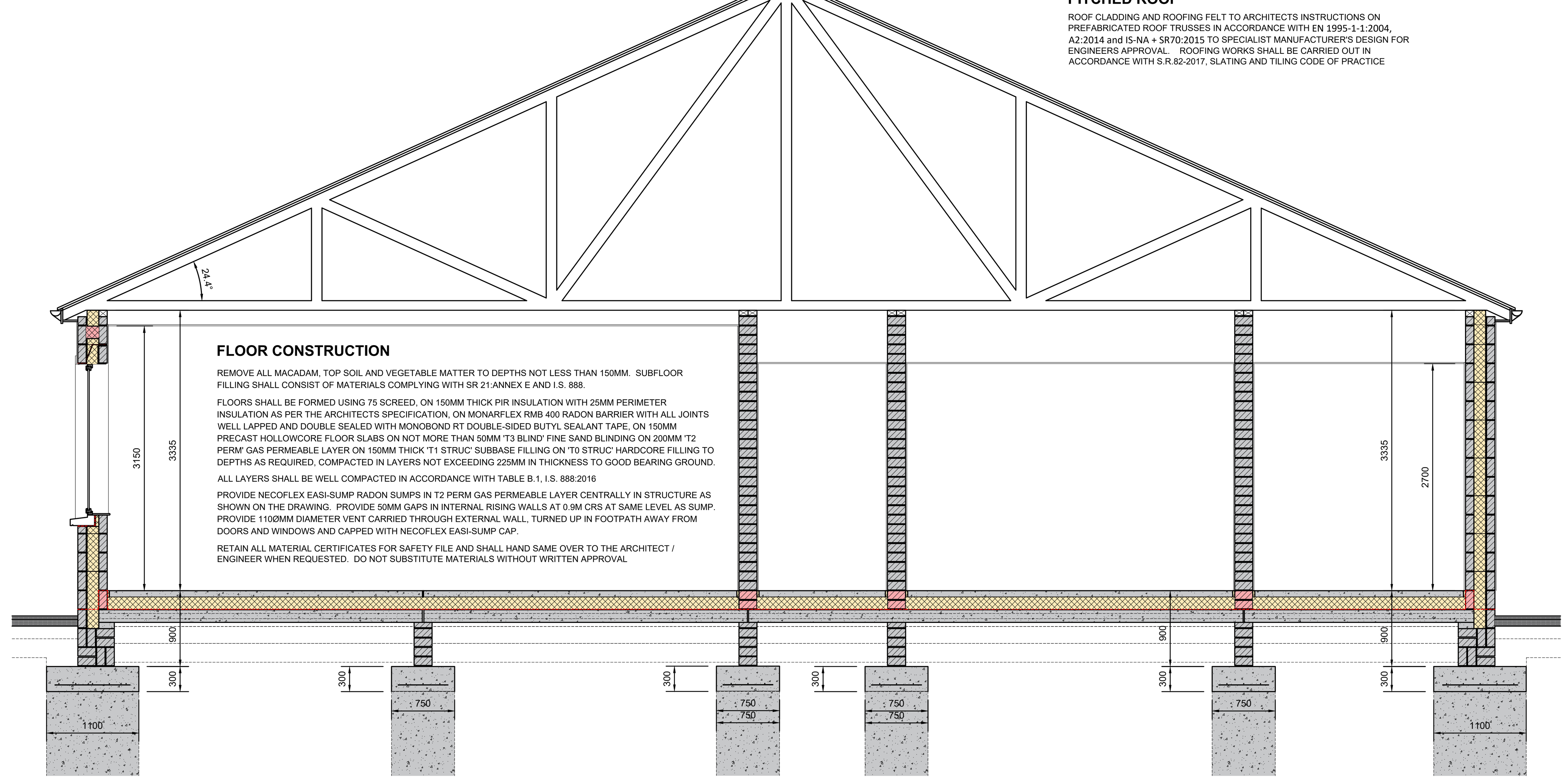
ALL FOUNDATIONS TO BE REINFORCED WITH A393 GRADE 500 MESH REINFORCEMENT SUPPORTED ON PROPRIETARY CHAIRS. MIN. 50MM COVER TO CONCRETE ON TRENCH FILL

FOUNDATION TRENCHES SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO CASTING.

CROSS SECTION A-A
SCALE 1:50

PITCHED ROOF

ROOF CLADDING AND ROOFING FELT TO ARCHITECTS INSTRUCTIONS ON PREFABRICATED ROOF TRUSSES IN ACCORDANCE WITH EN 1995-1-1:2004, A2:2014 and IS-NA + SR70:2015 TO SPECIALIST MANUFACTURER'S DESIGN FOR ENGINEERS APPROVAL. ROOFING WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH S.R.82-2017, SLATING AND TILING CODE OF PRACTICE



FLOOR CONSTRUCTION

REMOVE ALL MACADAM, TOP SOIL AND VEGETABLE MATTER TO DEPTHS NOT LESS THAN 150MM. SUBFLOOR FILLING SHALL CONSIST OF MATERIALS COMPLYING WITH SR 21:ANNEX E AND I.S. 888.

FLOORS SHALL BE FORMED USING 75 SCREED, ON 150MM THICK PIR INSULATION WITH 25MM PERIMETER INSULATION AS PER THE ARCHITECTS SPECIFICATION, ON MONARFLEX RMB 400 RADON BARRIER WITH ALL JOINTS WELL LAPPED AND DOUBLE SEALED WITH MONOBOND RT DOUBLE-SIDED BUTYL SEALANT TAPE, ON 150MM PRECAST HOLLOWCORE FLOOR SLABS ON NOT MORE THAN 50MM 'T3 BLIND' FINE SAND BLINDING ON 200MM 'T2 PERM' GAS PERMEABLE LAYER ON 150MM THICK 'T1 STRUC' SUBBASE FILLING ON 'T0 STRUC' HARDCORE FILLING TO DEPTHS AS REQUIRED, COMPACTED IN LAYERS NOT EXCEEDING 225MM IN THICKNESS TO GOOD BEARING GROUND.

ALL LAYERS SHALL BE WELL COMPACTED IN ACCORDANCE WITH TABLE B.1, I.S. 888:2016

PROVIDE NECOFLEX EASI-SUMP RADON SUMPS IN T2 PERM GAS PERMEABLE LAYER CENTRALLY IN STRUCTURE AS SHOWN ON THE DRAWING. PROVIDE 50MM GAPS IN INTERNAL RISING WALLS AT 0.9M CRS AT SAME LEVEL AS SUMP. PROVIDE 110ØMM DIAMETER VENT CARRIED THROUGH EXTERNAL WALL, TURNED UP IN FOOTPATH AWAY FROM DOORS AND WINDOWS AND CAPPED WITH NECOFLEX EASI-SUMP CAP.

RETAIN ALL MATERIAL CERTIFICATES FOR SAFETY FILE AND SHALL HAND SAME OVER TO THE ARCHITECT / ENGINEER WHEN REQUESTED. DO NOT SUBSTITUTE MATERIALS WITHOUT WRITTEN APPROVAL

MASONRY

BLOCKWORK WALLS SHALL BE CONSTRUCTED OF GROUP 1, S7.5N SOLID CONCRETE BLOCKWORK COMPLYING WITH I.S. EN 771-3:2011 AND SR 325:2013 +A2:2018 +AC:2019. WALLS SHALL BE TO THE SIZES SHOWN ON THE PLANS AND DETAILS.

PROVIDE ROADSTONE THERMAL LITEBLOCK GROUP 1, S7.5N SOLID BLOCKWORK WHERE SPECIFIED BY THE ARCHITECT. THERMAL BLOCKWORK SHALL ACHIEVE THERMAL CONDUCTIVITY (LAMBDA Λ) VALUES LESS THAN 0.33W/MK.

WALL TIES

PROVIDE 275MM LONG ANCON STAIFIX RT2 TYPE 2 WALL TIES AT 450MM HORIZONTAL CENTRES AND 450MM VERTICAL CENTRES (4.9/M^2). PROVIDE 2 TIES EVERY SECOND COURSE AT UNBONDED EDGES AND OPES AT 150MM AND 225MM FROM THE EDGE.

PROVIDE TIES AT EVERY COURSE AT MOVEMENT JOINTS. TIES SHALL BE CENTRED ON THE CAVITY, EMBEDDED IN TYPE M4(III) MORTAR ABOVE DPC LEVEL AND LAID DRIP DOWN. TIES SHALL BE MAINTAINED FREE OF MORTAR SNOTS.

WALL TIES SHALL COMPLY WITH I.S. EN 845-1:2013+A1:2016.

BED JOINT REINFORCEMENT

PROVIDE ANCON AMR-X/S/D3.0/W175 MASONRY REINFORCEMENT IN THE FIRST AND SECOND COURSE ABOVE AND BELOW ALL WINDOW AND DOOR OPENINGS. BED REINFORCEMENT SHALL EXTEND 600MM BEYOND THE OPENING.

PROVIDE AMR-X/S/D3.0/W175 MASONRY REINFORCEMENT AT 450MM VERTICAL CENTRES IN COLLAR JOINTED WALLS WHERE USED.

LINTELS & BEARING PADS

BEARING PADS WHERE SHOWN SHALL BE KILLESHAL 40N PADSTONES TO SIZES SHOWN ON THE DRAWING.

FOUNDATIONS

FOUNDATIONS SHALL BE FORMED USING GRADE XC2, C28/35, D20, S2 CONCRETE (35N20) SLUMP CLASS S2. DO NOT ADD WATER ON SITE. THE FOUNDATIONS TRENCHES SHALL NOT CONTAIN WATER WHEN CASTING CONCRETE. FOUNDATIONS TO BE FORMED ON TRENCH FILL WITH LEAN MIX CONCRETE (GRADE C16/20) BLINDING LAYER. TRENCHES TO BE CARRIED TO GOOD BEARING GROUND AS APPROVED BY THE ENGINEER. ALLOW FOR MINIMUM 0.9M TRENCH FILL BELOW STRIP FOOTINGS.

ALL FOUNDATIONS TO BE REINFORCED WITH A393 GRADE 500 MESH REINFORCEMENT SUPPORTED ON PROPRIETARY CHAIRS. MIN. 50MM COVER TO CONCRETE ON TRENCH FILL

FOUNDATION STEPS, WHERE REQUIRED ON SITE SHALL BE IN ACCORDANCE WITH DIAGRAM 12, BUILDING REGULATIONS, TGD A, 2012. STEPPING SHALL FOLLOW COURSEWORK AND NOT BE GREATER THAN TWICE THE THICKNESS OF THE FOUNDATION. LAPPING OF STEPS SHALL BE TWICE THE HEIGHT OF THE STEP. FOUNDATION TRENCHES SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO CASTING.

RISING WALLS

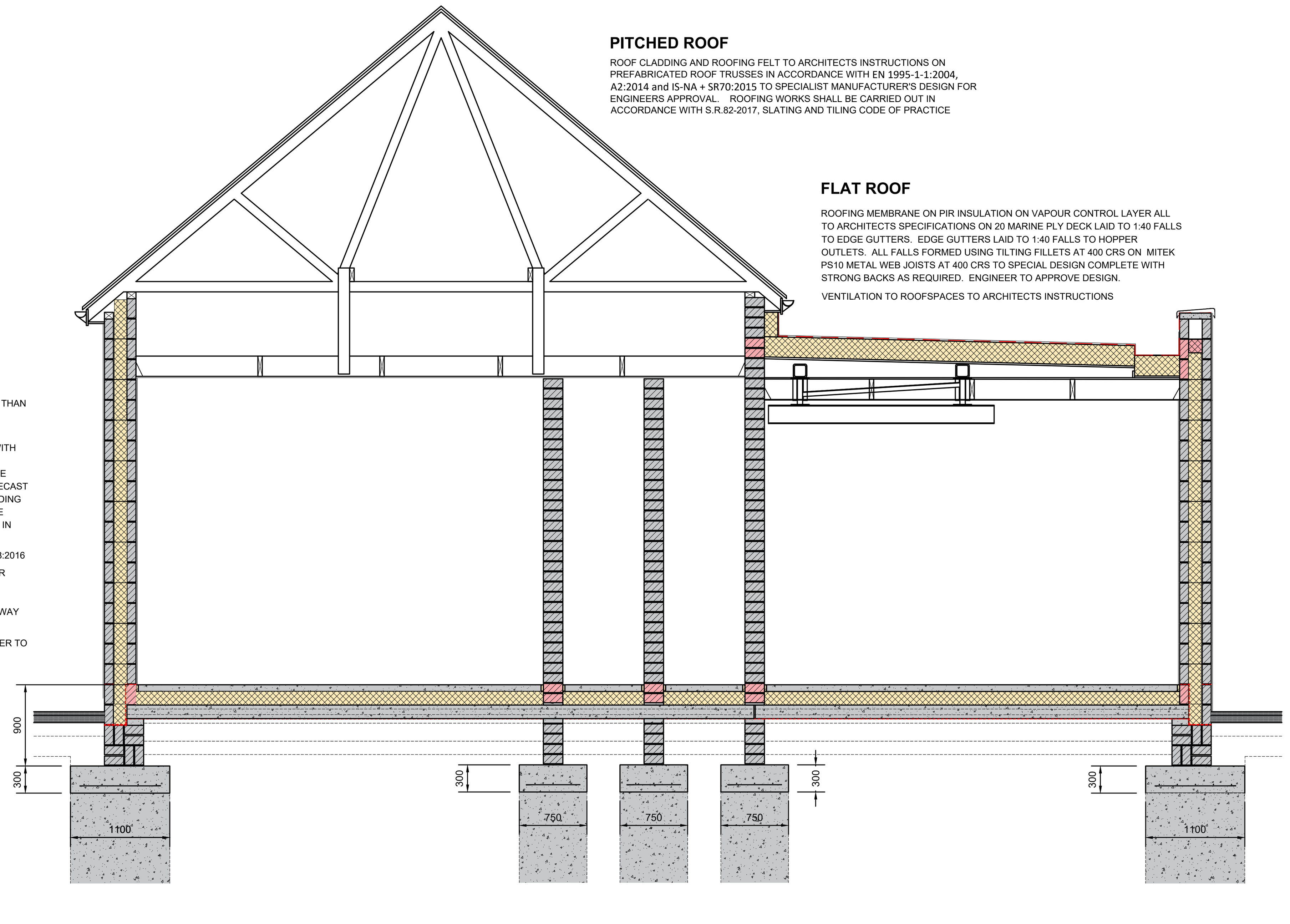
RISING WALLS SHALL BE SOLID AND CONSTRUCTED OF ROADSTONE GROUP 1, S7.5N SOLID CONCRETE BLOCKWORK COMPLYING WITH I.S. EN 771-3:2011. RISING WALLS SHALL BE AT LEAST THE SAME THICKNESS AS THE SUPPORTED WALL. ALL VOIDS AND GAPS IN RISING BLOCKWORKS SHALL BE FULLY FILLED WITH MORTAR. WHERE HOLLOWCORE SLABS ARE SUPPORTED ON RISING WALLS THE WALLS SHALL BE WIDENED TO PROVIDE MIN. 100MM BEARING FOR THE SLABS.

PROVIDE NECOFLEX EASI-LOAD RADON DAMP PROOF COURSE AT FLOOR LEVEL. PROVIDE 50MM GAPS IN INTERNAL RISING WALLS AT 0.9M CRS AT SAME LEVEL AS RADON SUMP. PROVIDE M6(II) MORTAR BELOW DPC LEVEL.

PROVIDE ROADSTONE THERMAL LITEBLOCK GROUP 1, S13N SOLID BLOCKWORK WHERE SHOWN ON THE DRAWINGS AND ASSOCIATED DETAILS AND AS SPECIFIED BY THE ARCHITECT. THERMAL BLOCKWORK SHALL ACHIEVE THERMAL CONDUCTIVITY (LAMBDA Λ) VALUES LESS THAN 0.33W/MK.

DO NOT SUBSTITUTE MATERIALS WITHOUT WRITTEN APPROVAL.

CROSS SECTION B-B
SCALE 1:50



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ROOF CLADDING AND ROOFING FELT TO ARCHITECTS INSTRUCTIONS ON PREFABRICATED ROOF TRUSSES IN ACCORDANCE WITH EN 1995-1-1:2004, A2:2014 and IS-NA + SR70:2015 TO SPECIALIST MANUFACTURER'S DESIGN FOR ENGINEERS APPROVAL. ROOFING WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH S.R.82-2017, SLATING AND TILING CODE OF PRACTICE

FLAT ROOF

ROOFING MEMBRANE ON PIR INSULATION ON VAPOUR CONTROL LAYER ALL TO ARCHITECTS SPECIFICATIONS ON 20 MARINE PLY DECK LAID TO 1:40 FALLS TO EDGE GUTTERS. EDGE GUTTERS LAID TO 1:40 FALLS TO HOPPER OUTLETS. ALL FALLS FORMED USING TILTING FILLETS AT 400 CRS ON MITEK PS10 METAL WEB JOISTS AT 400 CRS TO SPECIAL DESIGN COMPLETE WITH STRONG BACKS AS REQUIRED. ENGINEER TO APPROVE DESIGN.

VENTILATION TO ROOFSPACES TO ARCHITECTS INSTRUCTIONS

MASONRY

BLOCKWORK WALLS SHALL BE CONSTRUCTED OF GROUP 1, S7.5N SOLID CONCRETE BLOCKWORK COMPLYING WITH I.S. EN 771-3:2011 AND SR 325:2013 +A2:2018 +AC:2019. WALLS SHALL BE TO THE SIZES SHOWN ON THE PLANS AND DETAILS.

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WALL TIES

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PROVIDE TIES AT EVERY COURSE AT MOVEMENT JOINTS. TIES SHALL BE CENTRED ON THE CAVITY, EMBEDDED IN TYPE M4(III) MORTAR ABOVE DPC LEVEL AND LAID DRIP DOWN. TIES SHALL BE MAINTAINED FREE OF MORTAR SNOTS.

WALL TIES SHALL COMPLY WITH I.S. EN 845-1:2013+A1:2016.

BED JOINT REINFORCEMENT

PROVIDE ANCON AMR-X/S/D3.0/W175 MASONRY REINFORCEMENT IN THE FIRST AND SECOND COURSE ABOVE AND BELOW ALL WINDOW AND DOOR OPENINGS. BED REINFORCEMENT SHALL EXTEND 600MM BEYOND THE OPENING.

PROVIDE AMR-X/S/D3.0/W175 MASONRY REINFORCEMENT AT 450MM VERTICAL CENTRES IN COLLAR JOINTED WALLS WHERE USED.

LINTELS & BEARING PADS

BEARING PADS WHERE SHOWN SHALL BE KILLESHAL 40N PADSTONES TO SIZES SHOWN ON THE DRAWING.

STRIP FOUNDATIONS + RISING WALLS

PROVIDE RISING WALLS WITH SOLID CLASS 1 S7.5N BLOCKWORK WITH M6(ii) MORTAR TO BE USED BELOW DPC. FILL ALL VOIDS WITH C20 CONCRETE. C28/35 XC2 S2 D20 (35N20) RC CONC FOOTINGS TO DIMENSIONS SHOWN WITH A393 MESH REINFORCEMENT. 75 COVER TO STEEL. SUPPORT REINFORCEMENT ON PROPRIETARY CHAIRS.

TIE PROPOSED FOUNDATIONS TO EXISTING FOUNDATIONS WHERE REQUIRED WITH 600 LONG H16Ø DOWELS AT 300 CRS

CROSS SECTION C-C
SCALE 1:50

FOUNDATIONS

FOUNDATIONS SHALL BE FORMED USING GRADE XC2, C28/35, D20, S2 CONCRETE (35N20) SLUMP CLASS S2. DO NOT ADD WATER ON SITE. THE FOUNDATIONS TRENCHES SHALL NOT CONTAIN WATER WHEN CASTING CONCRETE. FOUNDATIONS TO BE FORMED ON TRENCH FILL WITH LEAN MIX CONCRETE (GRADE C16/20) BLINDING LAYER. TRENCHES TO BE CARRIED TO GOOD BEARING GROUND AS APPROVED BY THE ENGINEER. ALLOW FOR MINIMUM 0.9M TRENCH FILL BELOW STRIP FOOTINGS.

ALL FOUNDATIONS TO BE REINFORCED WITH A393 GRADE 500 MESH REINFORCEMENT SUPPORTED ON PROPRIETARY CHAIRS. MIN. 50MM COVER TO CONCRETE ON TRENCH FILL

FOUNDATION STEPS, WHERE REQUIRED ON SITE SHALL BE IN ACCORDANCE WITH DIAGRAM 12, BUILDING REGULATIONS, TGD A, 2012. STEPPING SHALL FOLLOW COURSEWORK AND NOT BE GREATER THAN TWICE THE THICKNESS OF THE FOUNDATION. LAPPING OF STEPS SHALL BE TWICE THE HEIGHT OF THE STEP. FOUNDATION TRENCHES SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO CASTING.

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PROVIDE NECOFLEX EASI-LOAD RADON DAMP PROOF COURSE AT FLOOR LEVEL. PROVIDE 50MM GAPS IN INTERNAL RISING WALLS AT 0.9M CRS AT SAME LEVEL AS RADON SUMP. PROVIDE M6(II) MORTAR BELOW DPC LEVEL.

PROVIDE ROADSTONE THERMAL LITEBLOCK GROUP 1, S13N SOLID BLOCKWORK WHERE SHOWN ON THE DRAWINGS AND ASSOCIATED DETAILS AND AS SPECIFIED BY THE ARCHITECT. THERMAL BLOCKWORK SHALL ACHIEVE THERMAL CONDUCTIVITY (LAMBDA Λ) VALUES LESS THAN 0.33W/MK.

DO NOT SUBSTITUTE MATERIALS WITHOUT WRITTEN APPROVAL.

GENERAL

1. TAKE GREAT CARE WHEN EXCAVATING FOR FOOTINGS TO ENSURE THE STABILITY OF EXISTING OR ADJACENT STRUCTURES.
2. THE CONTRACTOR SHALL ALLOW FOR ALL NECESSARY TEMPORARY PROPPING AND SHORING AS REQUIRED BY THE WORKS OR DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL PREPARE A METHOD STATEMENT FOR ALL DEMOLITIONS AND SHALL PREPARE CALCULATIONS FOR TEMPORARY WORKS FOR THE APPROVAL OF THE ENGINEER. TEMPORARY WORKS SHALL BE DESIGNED IN ACCORDANCE WITH *BS 5975:2019 - CODE OF PRACTICE FOR TEMPORARY WORKS PROCEDURES AND THE PERMISSIBLE STRESS DESIGN OF FALSEWORK*
4. THE CONTRACTOR SHALL RETAIN ALL MATERIAL CERTIFICATES FOR THE WORKS FOR THE INSPECTION OF THE ENGINEER.
5. THE ENGINEER MAY DIRECT TESTING OF MATERIALS OR WORKS IN ACCORDANCE WITH THE SPECIFICATION.

FOUNDATIONS

FOUNDATIONS SHALL BE FORMED USING GRADE XC2, C28/35, D20, S2 CONCRETE (35N20) SLUMP CLASS S2. DO NOT ADD WATER ON SITE. THE FOUNDATIONS TRENCHES SHALL NOT CONTAIN WATER WHEN CASTING CONCRETE. FOUNDATIONS TO BE FORMED ON TRENCH FILL WITH LEAN MIX CONCRETE (GRADE C16/20) BLINDING LAYER. TRENCHES TO BE CARRIED TO GOOD BEARING GROUND AS APPROVED BY THE ENGINEER. ALLOW FOR MINIMUM 0.9M TRENCH FILL BELOW STRIP FOOTINGS.

ALL FOUNDATIONS TO BE REINFORCED WITH A393 GRADE 500 MESH REINFORCEMENT SUPPORTED ON PROPRIETARY CHAIRS. MIN. 50MM COVER TO CONCRETE ON TRENCH FILL

FOUNDATION STEPS, WHERE REQUIRED ON SITE SHALL BE IN ACCORDANCE WITH DIAGRAM 12, BUILDING REGULATIONS, TGD A, 2012. STEPPING SHALL FOLLOW COURSEWORK AND NOT BE GREATER THAN TWICE THE THICKNESS OF THE FOUNDATION. LAPPING OF STEPS SHALL BE TWICE THE HEIGHT OF THE STEP. FOUNDATION TRENCHES SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT/ENGINEER PRIOR TO CASTING.

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PROVIDE NECOFLEX EASI-LOAD RADON DAMP PROOF COURSE AT FLOOR LEVEL. PROVIDE 50MM GAPS IN INTERNAL RISING WALLS AT 0.9M CRS AT SAME LEVEL AS RADON SUMP.

PROVIDE M6(II) MORTAR BELOW DPC LEVEL.

PROVIDE ROADSTONE THERMAL LITEBLOCK GROUP 1, S13N SOLID BLOCKWORK WHERE SHOWN ON THE DRAWINGS AND ASSOCIATED DETAILS AND AS SPECIFIED BY THE ARCHITECT. THERMAL BLOCKWORK SHALL ACHIEVE THERMAL CONDUCTIVITY (LAMBDA Λ) VALUES LESS THAN 0.33W/MK.

DO NOT SUBSTITUTE MATERIALS WITHOUT WRITTEN APPROVAL.

FLOOR CONSTRUCTION

REMOVE ALL TOPSOIL AND VEGETABLE MATTER TO DEPTHS NOT LESS THAN 150MM. SUBFLOOR FILLING SHALL CONSIST OF MATERIALS COMPLYING WITH SR 21:ANNEX E AND I.S. 888.

FLOORS SHALL BE FORMED USING

- 75MM NON STRUCTURAL SCREED REINFORCED WITH A193 ANTI-CRACK MESH TO TOP WITH 25 COVER, ON
- 150MM THICK PIR INSULATION WITH 25MM PERIMETER INSULATION AS PER THE ARCHITECTS SPECIFICATION, ON
- MONARFLEX RMB 400 RADON BARRIER WITH ALL JOINTS WELL LAPPED AND DOUBLE SEALED WITH MONOBOND RT DOUBLE-SIDED BUTYL SEALANT TAPE, ON
- 150 PRECAST HOLLOCORE SLABS, ON
- NOT MORE THAN 50MM 'T3 BLIND' FINE SAND BLINDING ON
- 200MM 'T2 PERM' GAS PERMEABLE LAYER ON
- 150MM THICK 'T1 STRUC' SUBBASE FILLING ON
- 'T0 STRUC' HARDCORE FILLING TO DEPTHS AS REQUIRED, COMPACTED IN LAYERS NOT EXCEEDING 225MM IN THICKNESS.

ALL LAYERS SHALL BE WELL COMPACTED IN ACCORDANCE WITH TABLE B.1, I.S. 888:2016

PROVIDE NECOFLEX EASI-SUMP RADON SUMPS IN T2 PERM GAS PERMEABLE LAYER CENTRALLY IN STRUCTURE AS SHOWN ON THE DRAWING. PROVIDE 50MM GAPS IN INTERNAL RISING WALLS AT 0.9M CRS AT SAME LEVEL AS SUMP. PROVIDE 110ØMM DIAMETER VENT CARRIED THROUGH EXTERNAL WALL, TURNED UP IN FOOTPATH AWAY FROM DOORS AND WINDOWS AND CAPPED WITH NECOFLEX EASI-SUMP CAP.

RETAIN ALL MATERIAL CERTIFICATES FOR SAFETY FILE AND SHALL HAND SAME OVER TO THE ARCHITECT / ENGINEER WHEN REQUESTED. DO NOT SUBSTITUTE MATERIALS WITHOUT WRITTEN APPROVAL

STRUCTURAL STEELWORK

1. FABRICATED STRUCTURAL STEEL (TO IS EN 1090-1:2009+AC:2010+A1:2011) SHALL BE CE MARKED. CONTRACTOR SHALL PROVIDE FACTORY PRODUCTION CERTIFICATE, WELDING CERTIFICATE AND PROJECT SPECIFIC DECLARATION OF PERFORMANCE TO THE ARCHITECT/ENGINEER.
4. ALL STEELWORK FABRICATION AND ERECTION SHALL BE TO THE APPROPRIATE EXECUTION CLASS (EXC2) IN COMPLIANCE WITH THE NATIONAL STRUCTURAL STEELWORK SPECIFICATION FIFTH EDITION. ALL FABRICATED STRUCTURAL STEELWORK SHALL BE CE MARKED TO IS EN 1090.
5. ALL STRUCTURAL STEELWORK SHALL BE GRADE S275 MILD YIELD STEEL TO BS EN 10025.
6. ALL STRUCTURAL STEELWORK (RAFTERS, COLUMNS AND BEAMS) SHALL BE FIRE PROTECTED TO 60MINS WITH INTUMESCENT PAINT.
7. ORDINARY BOLTS SHALL BE GRADE 8.8 TO BS 4190: 2014 AND SHALL BE TO DIAMETERS AS SHOWN.
8. ALL WELDS SHALL BE MIN. 6MM FILLET WELDS UNLESS NOTED OTHERWISE. WELDS AT TUBE TO TUBE CONNECTIONS SHALL BE FULL PENETRATION BUT WELDS. WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH ISO 3834-3.
9. WHERE NOTED ON THE DRAWINGS STEELWORK TO BE GALVANISED SHALL BE GALVANISED TO BS EN ISO 1461: 2009. ALL GALVANISING VENT HOLES IN STEELWORK SHALL BE SEALED AGAINST THE INGRESS OF WATER AFTER COMPLETION OF THE GALVANISING. AFTER ERECTION OF STEELWORK ALL DAMAGED AREAS OF GALVANISING SHALL BE MADE GOOD WITH GALVAFROID OR EAO.
10. FABRICATION DRAWINGS BASED ON SITE DIMENSIONS SHALL BE PREPARED BY THE CONTRACTOR FOR ALL STEELWORK AND SHALL BE SUBMITTED TO THE ENGINEER FOR COMMENT.

STRUCTURAL FASTENERS

4. ORDINARY BOLTS SHALL BE GRADE 8.8 TO BS 4190: 2014 AND SHALL BE TO DIAMETERS AS SHOWN.
5. HOLDING DOWN BOLTS SHALL BE FITTED IN WAGGLE SLEEVES AND SHALL BE SET ACCURATELY TO LINE AND LEVEL IN ANGLE FRAMES PRIOR TO CONCRETING
6. CHEMICAL ANCHORS IN SOLID MASONRY (ONLY IN LOCATIONS WHERE APPROVED BY THE ENGINEER) SHALL BE FISCHER FIS V INJECTION SYSTEM WITH FIS - A A4 STAINLESS STEEL ANCHOR RODS UNLESS NOTED OTHERWISE. USE NYLON TOP HAT WASHES TO SEPARATE STAINLESS STEEL BOLTS FROM STRUCTURAL STEEL PLATES. FOR CAVITY WALL & BLOCKS USE INJECTION ANCHOR SLEEVE FIS H 16 X 1000 L CUT TO SUIT DEPTH.
7. CHEMICAL ANCHORS INTO CONCRETE (ONLY IN LOCATIONS WHERE APPROVED BY THE ENGINEER) SHALL BE FISHCER FSB INJECTION SYSTEM WITH FIS A A4 STAINLESS STEEL ANCHOR RODS UNLESS NOTED OTHERWISE.
8. ALL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

STRUCTURAL TIMBER

STRUCTURAL TIMBER WHERE USED SHALL BE IN ACCORDANCE WITH EN14082-1:2016 AND SHALL BE SIZED IN ACCORDANCE WITH SR 71:2015 TIMBER IN CONSTRUCTION EUROCODE 5 - SPAN TABLE AND GUIDELINES.

STRUCTURAL CONCRETE

CONCRETE SHALL COMPLY WITH IS EN 206:2013 +A1:2016 +AC:2017. REINFORCING STEEL SHALL COMPLY WITH IE EN 10080:2005 +NA: 2010. CONCRETE SHALL BE SUPPLIED TO THE GRADES SHOWN ON THE DRAWINGS. ALL CONCRETE WORK SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH THE SPECIFICATION.

MASONRY

BLOCKWORK WALLS SHALL BE CONSTRUCTED OF GROUP 1, S7.5N SOLID CONCRETE BLOCKWORK COMPLYING WITH I.S. EN 771-3:2011 AND SR 325:2013 +A2:2018 +AC:2019. WALLS SHALL BE TO THE SIZES SHOWN ON THE PLANS AND DETAILS.

PROVIDE ROADSTONE THERMAL LITEBLOCK GROUP 1, S7.5N SOLID BLOCKWORK WHERE SHOWN ON THE DRAWINGS AND ASSOCIATED DETAILS. THERMAL BLOCKWORK SHALL ACHIEVE THERMAL CONDUCTIVITY (LAMBDA Λ) VALUES LESS THAN 0.33W/MK. OPES SHALL BE FORMED WITH ROADSTONE THERMAL LITEBLOCK L BLOCKS ONLY. DO NOT SUBSTITUTE MATERIALS WITHOUT WRITTEN APPROVAL.

INTERNAL WALLS SHALL BE COLLAR JOINTED ROADSTONE ARISTOCRAT GROUP 1 S13N BLOCKS FINISHED FAIRFACED.

WALL TIES

PROVIDE 275MM LONG ANCON STAIFIX RT2 TYPE 2 WALL TIES AT 450MM HORIZONTAL CENTRES AND 450MM VERTICAL CENTRES (4.9/M^2). PROVIDE 2 TIES EVERY SECOND COURSE AT UNBONDED EDGES AND OPES AT 150MM AND 225MM FROM THE EDGE.

PROVIDE TIES AT EVERY COURSE AT MOVEMENT JOINTS. TIES SHALL BE CENTRED ON THE CAVITY, EMBEDDED IN TYPE M4(III) MORTAR ABOVE DPC LEVEL AND LAID DRIP DOWN. TIES SHALL BE MAINTAINED FREE OF MORTAR SNOTS.

WALL TIES SHALL COMPLY WITH I.S. EN 845-1:2013+A1:2016.

BED JOINT REINFORCEMENT

PROVIDE ANCON AMR-X/S/D3.0/W175 MASONRY REINFORCEMENT IN THE FIRST AND SECOND COURSE ABOVE AND BELOW ALL WINDOW AND DOOR OPENINGS. BED REINFORCEMENT SHALL EXTEND 600MM BEYOND THE OPENING.

PROVIDE AMR-X/S/D3.0/W175 MASONRY REINFORCEMENT AT 450MM VERTICAL CENTRES IN COLLAR JOINTED WALLS WHERE USED.

LINTELS & BEARING PADS

PROVIDE KILLESHAL PRECAST LINTEL BEAMS. BEARING PADS WHERE SHOWN SHALL BE KILLESHAL 40N PADSTONES TO SIZES SHOWN ON THE DRAWING.

DPC'S & TRAYS

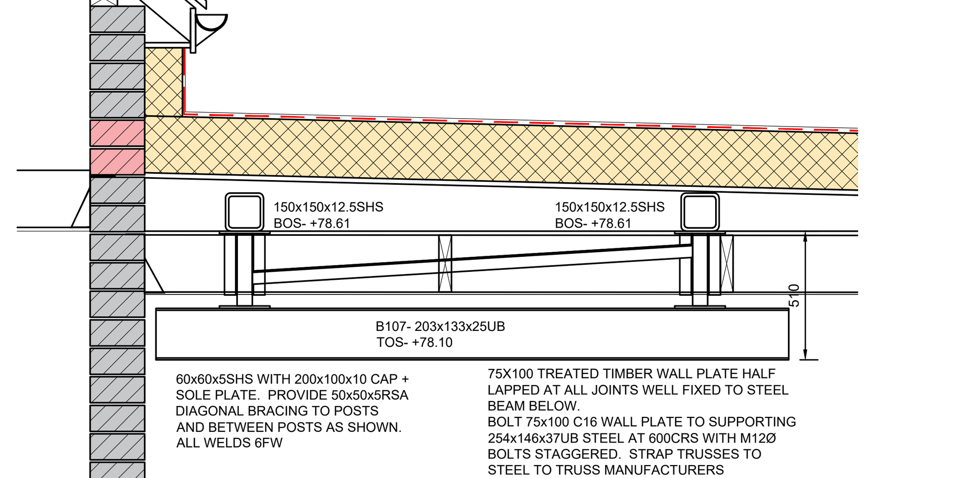
DAMP-PROOF COURSES (DPC'S) SHALL COMPLY WITH THE REQUIREMENTS OF CP 102, BS 8102, BS 8215 AND BS 5628: PART 3.

HORIZONTAL DAMP-PROOF COURSES SHALL BE PROVIDED AT POSITIONS SHOWN ON THE DETAILS AND BE POSITIONED SO AS TO FULLY COVER THE LEAF THICKNESS. ALL HORIZONTAL DAMP-PROOF COURSES SHALL BE LAID ON AN EVEN BED OF FRESH MORTAR AND COVERED BY MORTAR SO AS TO MAINTAIN REGULAR COURSING AND JOINT THICKNESS AND WHILE EXPOSED SHALL BE PROTECTED FROM DAMAGE WHILE THE BUILDING IS PROCEEDING.

STEPPED DAMP-PROOF COURSES AT OPENINGS SHALL EXTEND BEYOND THE END OF THE LINTEL BY AT LEAST 100MM.

ALL HORIZONTAL DAMP-PROOF COURSES SHALL PROTRUDE 10MM FROM THE EXTERNAL FACE OF THE WALL AND BE TURNED DOWNWARDS.

VERTICAL DAMP-PROOF COURSES SHALL BE OF ADEQUATE WIDTH AND BE FIXED SO AS TO SEPARATE THE INNER AND OUTER LEAVES OF THE WALL. THE MATERIAL FOR DAMP-PROOF COURSES SHALL COMPLY WITH BS 5628 PART 3.



60x60x5SHS WITH 200x100x10 CAP + SOLE PLATE. PROVIDE 50x50x5RSA DIAGONAL BRACING TO POSTS AND BETWEEN POSTS AS SHOWN. ALL WELDS 6FW

75X100 TREATED TIMBER WALL PLATE HALF LAPPED AT ALL JOINTS WELL FIXED TO STEEL BEAM BELOW. BOLT 75x100 C16 WALL PLATE TO SUPPORTING 254x146x37UB STEEL AT 600CRS WITH M12Ø BOLTS STAGGERED. STRAP TRUSSES TO STEEL TO TRUSS MANUFACTURERS INSTRUCTIONS.

SWING SUPPORT DETAIL
SCALE 1:25

TENDER ISSUE
17/07/2026

REV	DATE	DETAILS	CHK	DRN
A02	17/07/2026	TENDER ISSUE	CD	UA

DOOLEY CUMMINS
ARCHITECTS + ENGINEERS
STANHOPE ST., ATHY, CO. KILDARE, R14 HT25
(059) 8640013
info@dcae.ie

CLIENT	BOM KILDANGAN NS
PROJECT	KILDANGAN NS, KILDANGAN, CO. KILDARE
DRAWING	CROSS SECTIONAL DETAILS
DRG. REF.	3168-01-DR-DCAE-SE-T4100-A02
PROJECT NO	3168-01
PROJECT STAGE	TENDER
DRAWING NO	T4100
SCALE	1:50
SIZE	A1

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