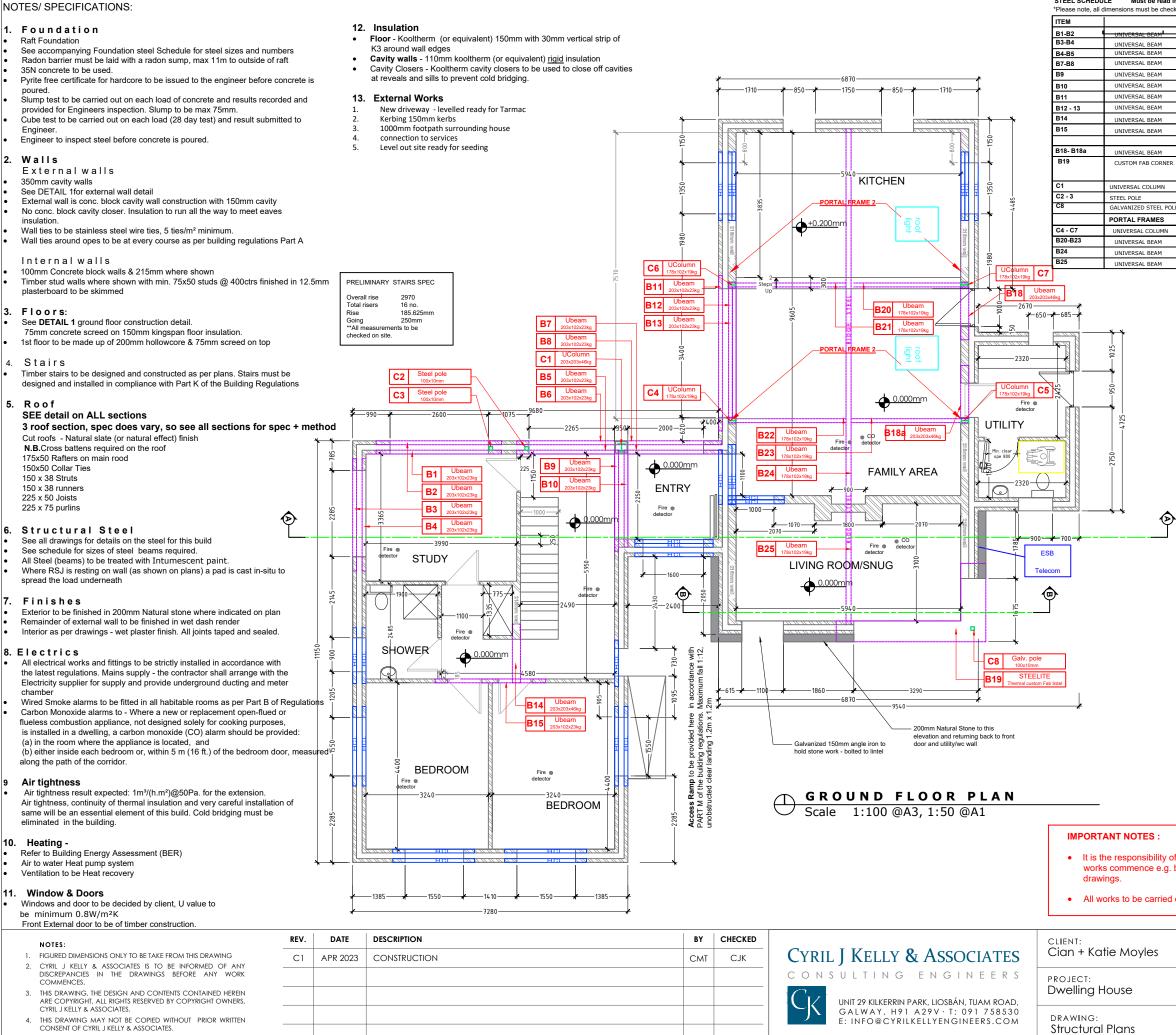


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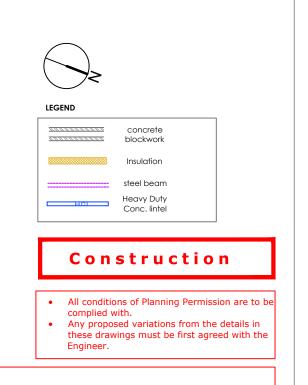
NOTES/ SPECIFICATIONS:



CONSENT OF CYRIL J KELLY & ASSOCIATES.

STEEL SCHEDULE Must be read in conjunction with plans and sections supplied

| | DRG. REF | SIZE/CODE | LENGTH | Total No. | NOTE |
|--------------|----------|-------------------|---------------|-----------|---|
| м і . | | 203 X 102 X 23KG | 3400 | 2 | |
| м | | 203 X 102 X 23KG | 3300 | 2 | |
| м | | 203 X 102 X 23KG | 2800 | 2 | |
| м | | 203 X 102 X 23KG | 2600 | 2 | |
| М | | 203 X 203 X 46KG | 2750 | 1 | |
| М | | 203 X 102 X 23KG | 2550 | 1 | |
| М | | 203 X 102 X 23KG | 4200 | 1 | |
| М | | 203 X 102 X 23KG | 3400 | 2 | BOLTED TO COLUMNS EITHER END |
| М | | 203 X 203 X 46KG | 1550 | 1 | HOLLOWCORE SITS INTO WEB of B14 |
| м | | 203 X 102 X 23KG | 3050 | 1 | Door head Level |
| | | | | | |
| м | | 203 X 203 X 46KG | 1450 | 2 | BOLTED TO COLUMN ON ONE END |
| RNER | | ТВС | TBC | 1 | GALV. Thermal Corner Lintel STEELITE or S.A. Note: Allow for 200mm stone over window |
| | | | | | Note. Allow for 200mm stone over window |
| ٩N | | 203 X 203 X 46KG | TBC | 1 | GALVANIZED **Length TBC ON SITE |
| | | 100mm x 10mm wall | TBC | 1 | **Length TBC ON SITE |
| L POLE | | 100mm x 10mm wall | TBC | 1 | GALVANIZED PART OF CORNER LINTEL |
| S | | | | | |
| JMN | | 178 X 102 X 23KG | TBC | 4 | **Length TBC ON SITE |
| М | | 178 X 102 X 23KG | circa 3450** | 4 | **Length TBC ON SITE |
| М | | 178 X 102 X 23KG | circa 10000** | 1 | RIDGE STEEL **Length TBC ON SITE |
| м | | 178 X 102 X 23KG | circa 3100** | 1 | RIDGE STEEL **Length TBC ON SITE |



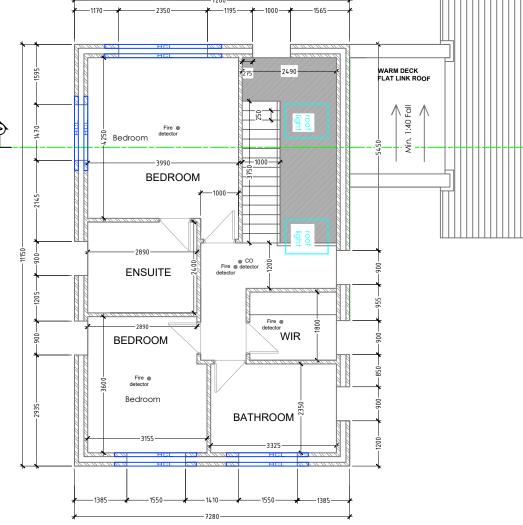
• It is the responsibility of the builder/ contractor to check all dimensions / pitches etc on site before works commence e.g. before order steel etc. The Engineer should be notified of anyanomalies in the

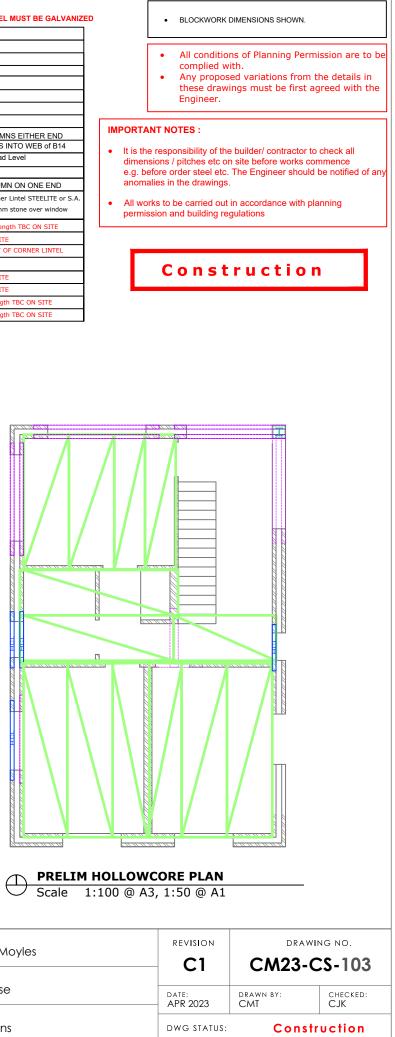
All works to be carried out in accordance with planning permission and building regulations

| revision | DRAWIN | |
|-----------------------|------------------|-----------------|
| DATE: APR 2023 | drawn by: CMT | CHECKED: CJK |
| DWG STATUS: | Constr | uction |

| NOTES/ SPECIFICATIONS: 1. Foundation Raft Foundation See accompanying Foundation steel Schedule for steel sizes and number Radon barrier must be laid with a radon sump, max 11m to outside of radia 35N concrete to be used. Pyrite free certificate for hardcore to be issued to the engineer before compoured. Slump test to be carried out on each load of concrete and results record provided for Engineers inspection. Slump to be max 75mm. Cube test to be carried out on each load (28 day test) and result submit Engineer. Engineer to inspect steel before concrete is poured. 2. Walls | aft oncrete ded and | • • • | Floor K3 ar Cavity Cavity at rev Exte Ker 100 cor | round wall edg : y walls - 110 | ges mm koolthern oltherm cavi to prevent co sevelled ready serbs h surrounding vices | ly for Tarmac ng house |
|--|---------------------------|-------------|---|--|---|--|
| External walls 350mm cavity walls See DETAIL 1for external wall detail External wall is conc. block cavity wall construction with 150mm cavity No conc. block cavity closer. Insulation to run all the way to meet eaves insulation. Wall ties to be stainless steel wire ties, 5 ties/m² minimum. Wall ties around opes to be at every course as per building regulations Internal walls 100mm Concrete block walls & 215mm where shown Timber stud walls where shown with min. 75x50 studs @ 400ctrs finisher plasterboard to be skimmed Floors: See DETAIL 1 ground floor construction detail. 75mm concrete screed on 150mm kingspan floor insulation. 1st floor to be made up of 200mm hollowcore & 75mm screed on top | Part A ed in 12 | 2.5mm | | | LEGEND | Concrete blockwork Insulation Heavy Duty Conc. lintel |
| Timber stairs to be designed and constructed as per plans. Stairs must designed and installed in compliance with Part K of the Building Regula R o o f SEE detail on ALL sections 3 roof section, spec does vary, so see all sections for sp. Cut roofs - Natural slate (or natural effect) finish N.B. Cross battens required on the roof 175x50 Rafters on main rood 150x50 Collar Ties 150 x 38 Struts 150 x 38 runners 225 x 50 Joists 225 x 75 purlins | ations | nethod | | ٩ | | Fire e B E Croom B E |
| 6. Structural Steel See all drawings for details on the steel for this build See schedule for sizes of steel beams required. All Steel (beams) to be treated with Intumescent paint. Where RSJ is resting on wall (as shown on plans) a pad is cast in-situ t spread the load underneath 7. Finishes Exterior to be finished in 200mm Natural stone where indicated on plan Remainder of external wall to be finished in wet dash render Interior as per drawings - wet plaster finish. All joints taped and sealed. | 1 | | | | | BEDROOM 1000 1000 1000 Fire © CO Getector detector |
| 8. Electrics All electrical works and fittings to be strictly installed in accordance with the latest regulations. Mains supply - the contractor shall arrange with the Electricity supplier for supply and provide underground ducting and met chamber | ı he | | | | * | |
| Wired Smoke alarms to be fitted in all habitable rooms as per Part B of Carbon Monoxide alarms to - Where a new or replacement open-flued of flueless combustion appliance, not designed solely for cooking purposes is installed in a dwelling, a carbon monoxide (CO) alarm should be prov. (a) in the room where the appliance is located, and (b) either inside each bedroom or, within 5 m (16 ft.) of the bedroom do along the path of the corridor. | or s, vided: | | | | 2935 | Fire e detector Bedroom BATH |
| 9 Air tightness Air tightness result expected: 1m³/(h.m²)@50Pa. for the extension. Air tightness, continuity of thermal insulation and very careful installation same will be an essential element of this build. Cold bridging must be eliminated in the building. | n of | | | | _ | |
| Heating - Refer to Building Energy Assessment (BER) Air to water Heat pump system Ventilation to be Heat recovery | | | | | | |
| Vertiliation to be hear recovery 11. Windows & Doors Windows and door to be decided by client, U value to be minimum 0.8W/m²K Front External door to be of timber construction. | | | | | | Scale 1:100 |
| | REV. | DA | TE | DESCRIPTIC | DN | |
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| ITEM | | DRG. REF | . SIZ | ZE/C | ODE | | | LE | NGTH | Total No. | NOTE |
|-----------|-----------------------|----------|----------------------------|--------|----------------------------------|-------|-----|-------|-------------------------------|-----------|---|
| B1-B2 | UNIVERSAL BEAM | | 203 | 3 X 10 | 02 X 2 | 23KG | | 34 | 400 | 2 | |
| B3-B4 | UNIVERSAL BEAM | | 203 | X 10 |)2 X 2 | 3KG | | 33 | 300 | 2 | |
| B4-B5 | UNIVERSAL BEAM | | 203 | 8 X 10 | 02 X 2 | 23KG | | 28 | 800 | 2 | |
| B7-B8 | UNIVERSAL BEAM | | 203 | 8 X 10 | 02 X 2 | 23KG | | 26 | 00 | 2 | |
| B9 | UNIVERSAL BEAM | | 203 | 3 X 20 | 03 X 4 | 46KG | | 2 | 750 | 1 | |
| B10 | UNIVERSAL BEAM | | 203 | 3 X 10 | 02 X 2 | 23KG | | 2 | 550 | 1 | |
| B11 | UNIVERSAL BEAM | | 203 | 3 X 10 | 02 X 2 | 23KG | | 42 | 200 | 1 | |
| B12 - 13 | UNIVERSAL BEAM | | 203 | 3 X 10 | 02 X 2 | 23KG | | 34 | 400 | 2 | BOLTED TO COLUMNS EITHER EN |
| B14 | UNIVERSAL BEAM | | 203 X 203 X 46KG | | | 15 | 550 | 1 | HOLLOWCORE SITS INTO WEB of E | | |
| B15 | UNIVERSAL BEAM | | 203 | 3 X 10 | 02 X 2 | 23KG | | 30 | 050 | 1 | Door head Level |
| B18- B18a | UNIVERSAL BEAM | | 203 | X 20 | 03 X 4 | 16KG | | 14 | 450 | 2 | BOLTED TO COLUMN ON ONE EN |
| B19 | CUSTOM FAB CORNER | | тво | 2 | | | | TE | BC | 1 | GALV. Thermal Corner Lintel STEELITE Note: Allow for 200mm stone over wind |
| C1 | UNIVERSAL COLUMN | | 203 | X 20 | 03 X 4 | 16KG | | | TBC | 1 | GALVANIZED **Length TBC ON SITE |
| C2 - 3 | STEEL POLE | | 100 |)mm | x 10n | nm wa | II | | TBC | 1 | **Length TBC ON SITE |
| C8 | GALVANIZED STEEL POLE | | 100 |)mm | x 10n | nm wa | II | | TBC | 1 | GALVANIZED PART OF CORNER LINT |
| | PORTAL FRAMES | | | | | | | | | | |
| C4 - C7 | UNIVERSAL COLUMN | | 178 | 8 X 10 | 02 X 2 | 23KG | | | TBC | 4 | **Length TBC ON SITE |
| B20-B23 | UNIVERSAL BEAM | | 178 | 8 X 10 | 02 X 2 | 23KG | | cir | ca 3450** | 4 | **Length TBC ON SITE |
| B24 | UNIVERSAL BEAM | | 178 | 8 X 10 | 02 X 2 | 23KG | | circ | ca 10000** | 1 | RIDGE STEEL **Length TBC ON SITE |
| B25 | UNIVERSAL BEAM | | <u> </u> 1 ₁ 7β | X 10 | 92 ₁ X ₁ 2 | 23KG | | ı cir | ca 3100** | 1 | RIDGE STEEL **Length TBC ON SITE |





CLIENT: Cian + Katie Moyles

PROJECT: Dwelling House

DRAWING: Structural Plans

BY CHECKED CYRIL J KELLY & ASSOCIATES CJK

CONSULTING ENGINEERS

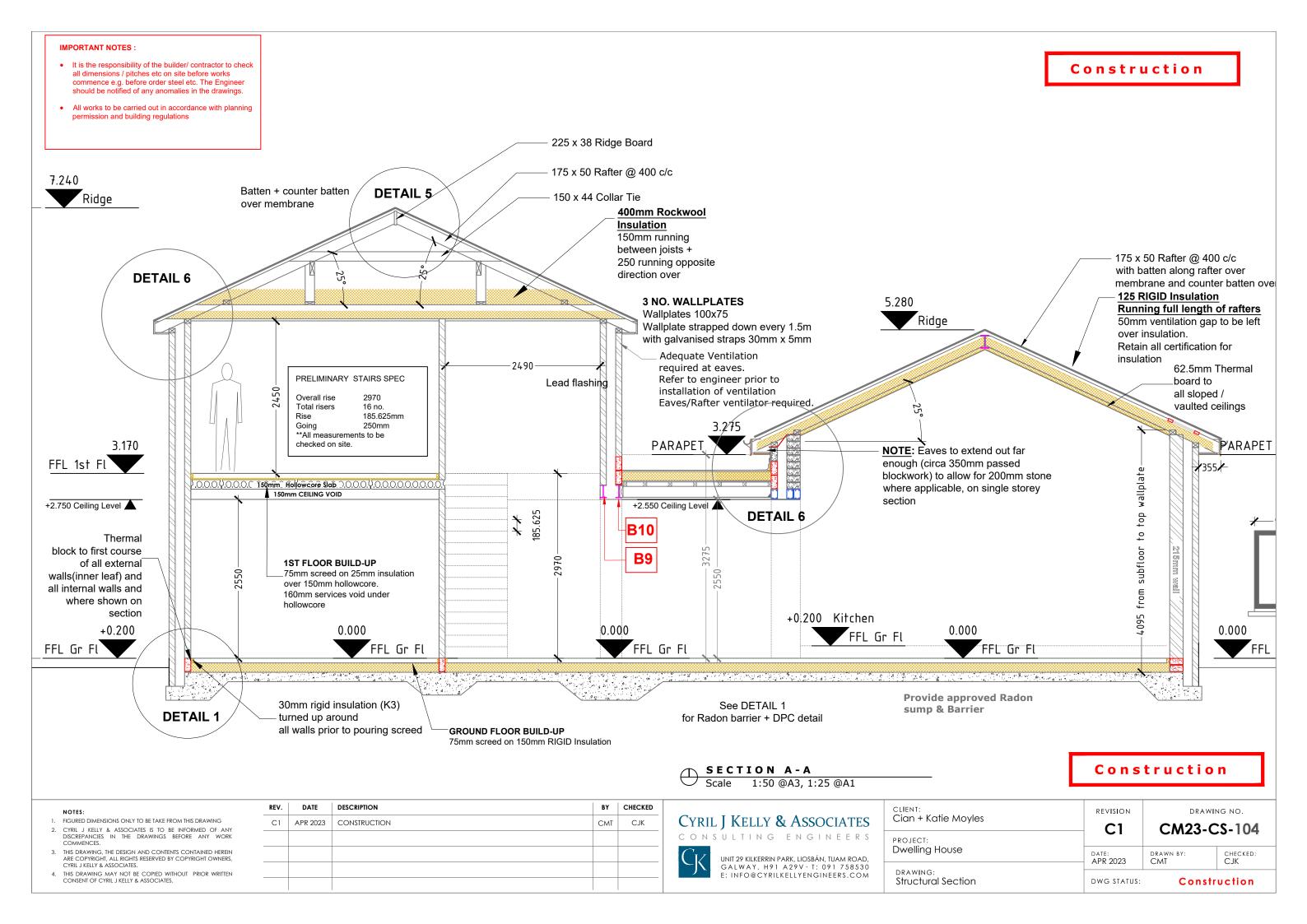
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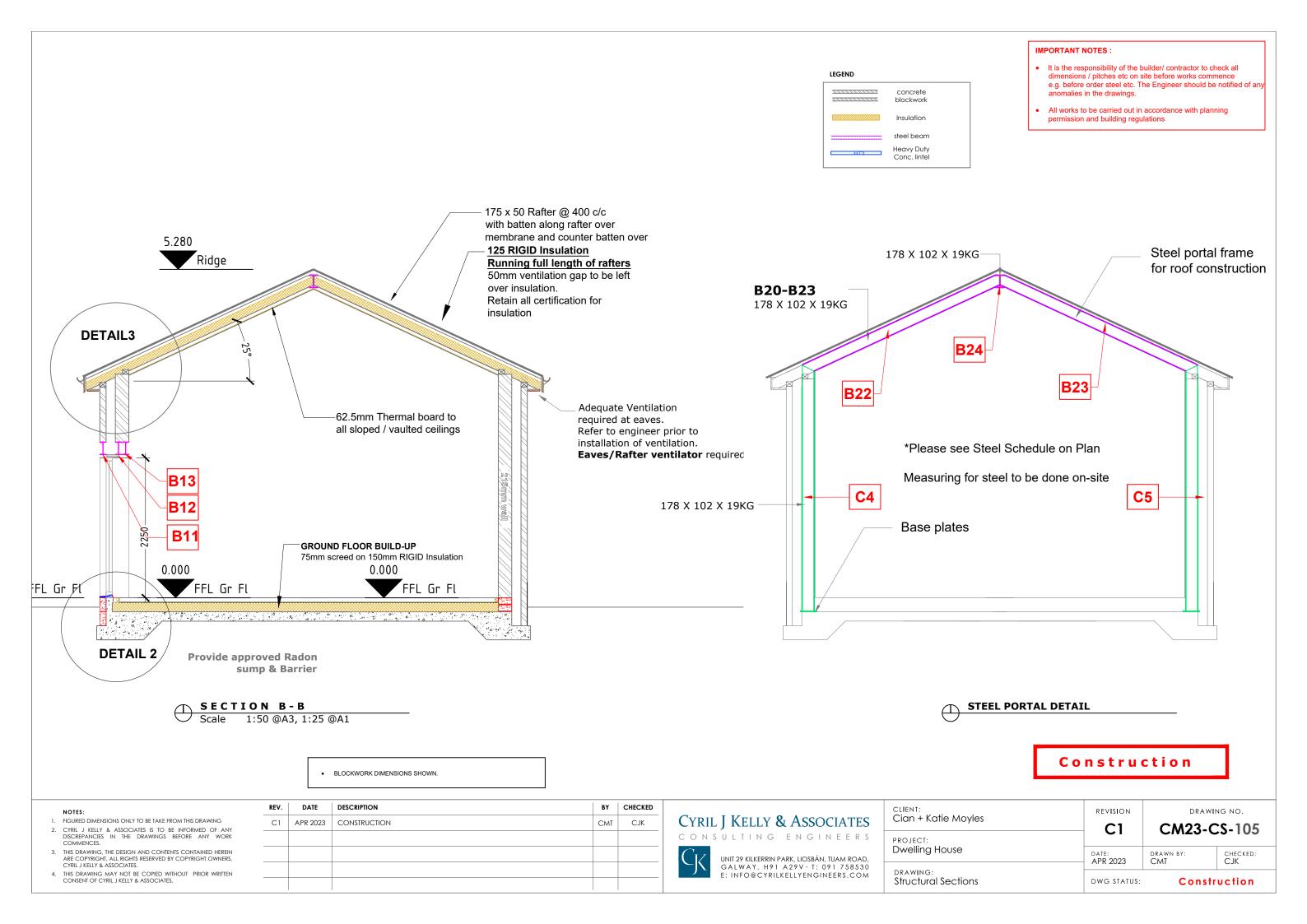
OOR PLAN @A3, 1:50 @A1

CMT

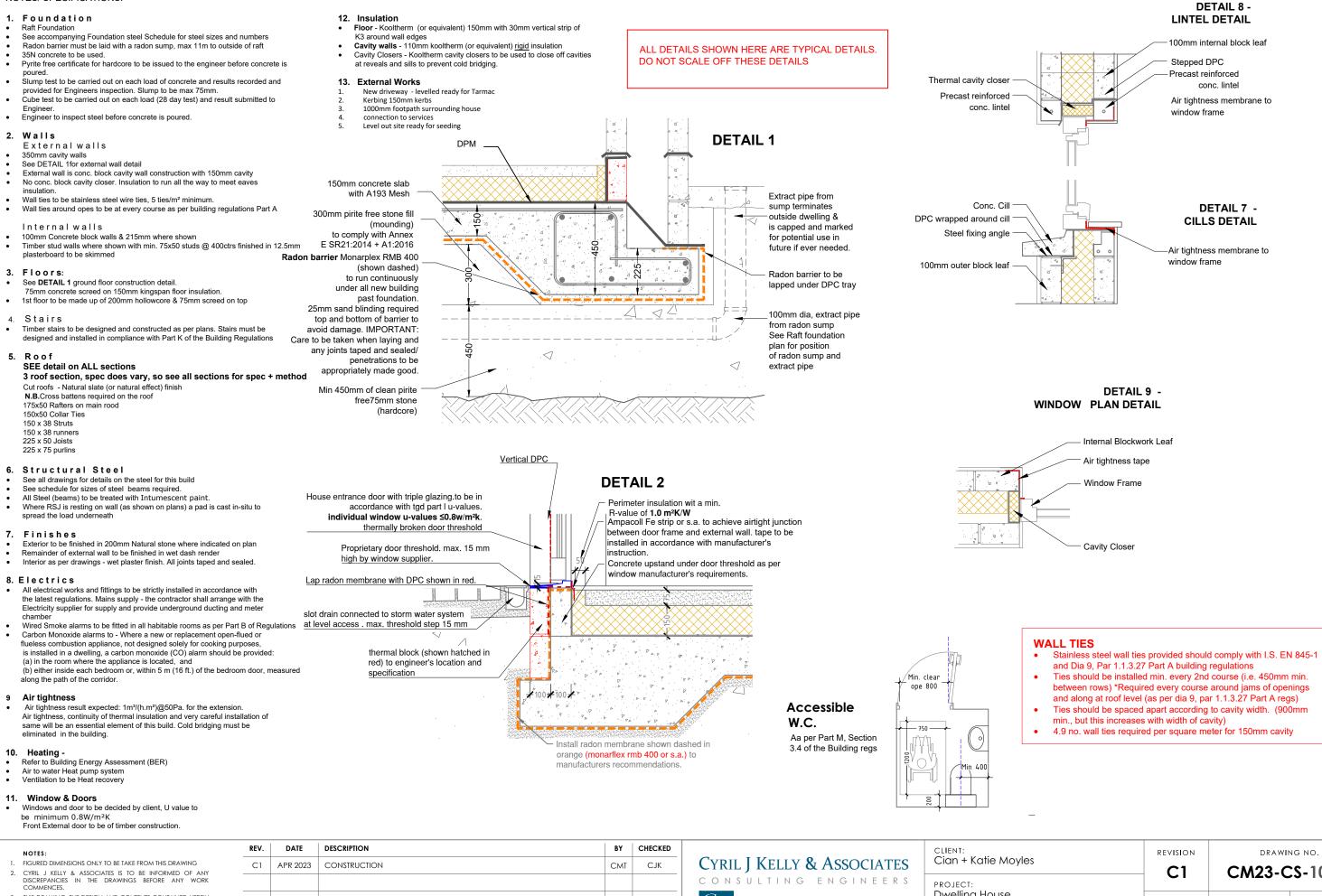
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STEEL SCHEDULE Must be read in conjunction with plans and sections supplied





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| | C_{V} | UNIT 29 k |
| | | GALW. E: INFC |
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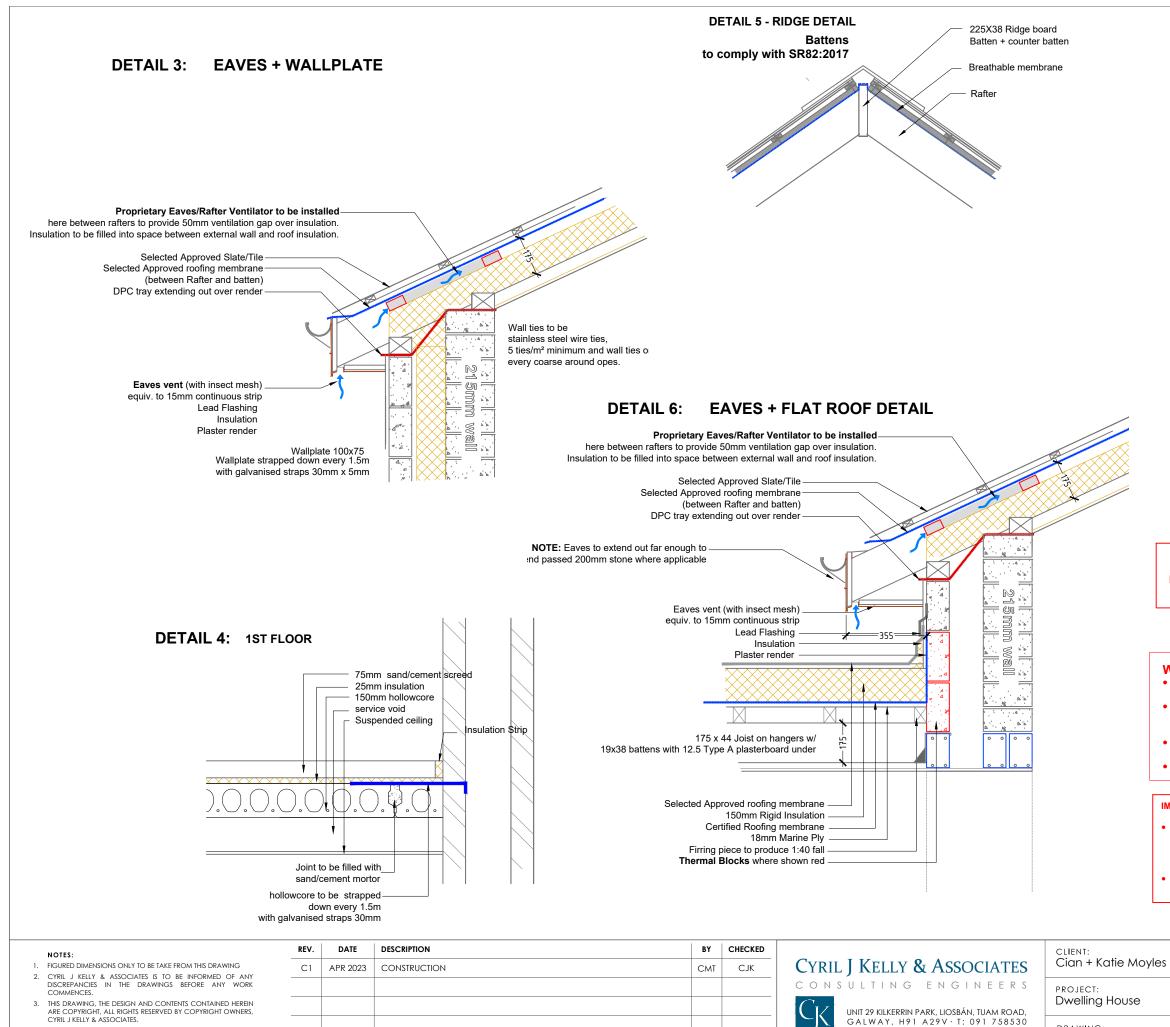
Dwelling House

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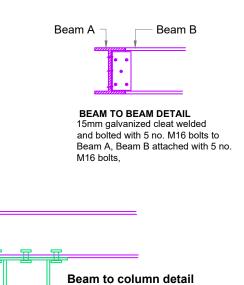
Structural Details

| I | ALL TIES | | | |
|---|--|--|------------------|-------------|
| | Stainless steel wall ties | s provided shoul | d comply with I. | S. EN 845-1 |
| | and Dia 9, Par 1.1.3.27 | • | • | |
| | Ties should be installe | | | |
| | between rows) *Requir | | | |
| | and along at roof level Ties should be spaced | A. 1997 Aug. | | • / |
| | min., but this increases | | | |
| | 4.9 no. wall ties require | | | cavity |
| | | | | , |
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| | | | | |
| _ | | | 1 | |
| | | REVISION | DR | RAWING NO. |
| | | C1 | C1107 | |
| | | C1 | CM2 | 3-CS-106 |
| | | | 1 | |

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| | | |
| | | |



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10mm galvanized plate welded to top of columns for attachment to beams. Plates to be bolted with 6 no. 20mm galvanized bolts to beams.

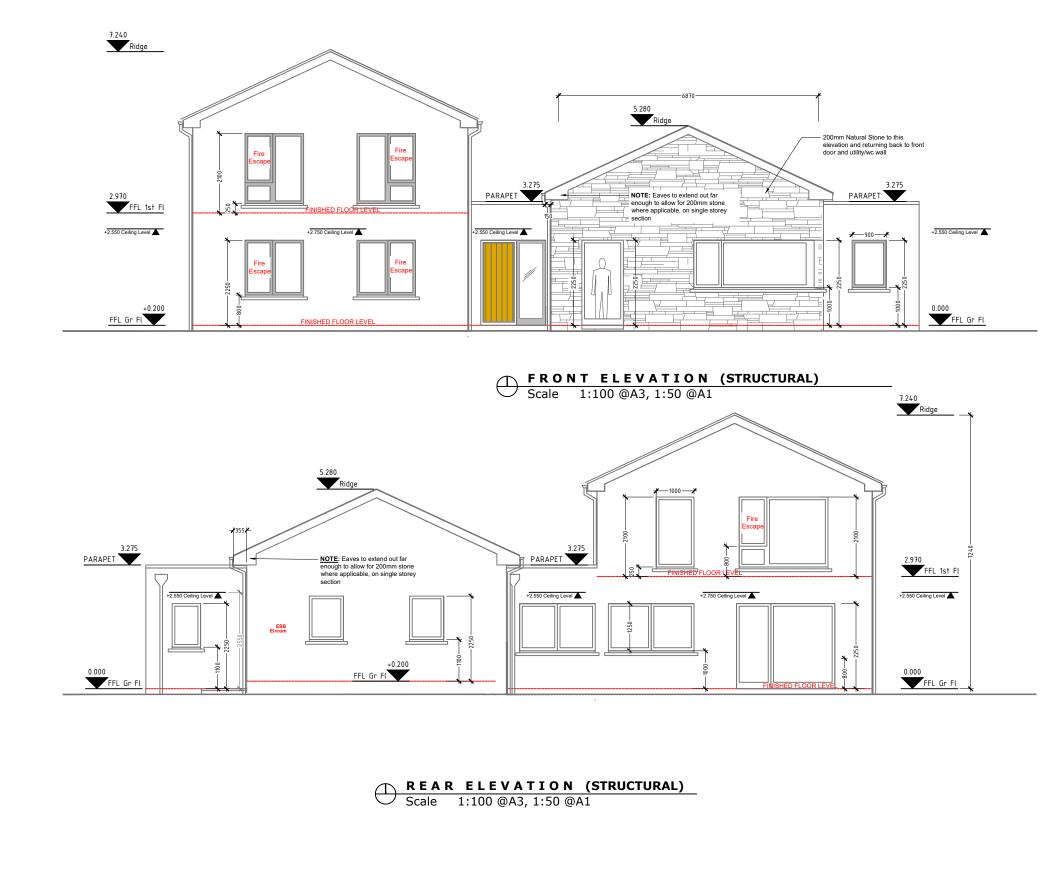
ALL DETAILS SHOWN HERE ARE TYPICAL DETAILS. DO NOT SCALE OFF THESE DETAILS

| VALL TIES Stainless steel wall ties and Dia 9, Par 1.1.3.27 Ties should be installed between rows) *Requir and along at roof level Ties should be spaced min., but this increases 4.9 no. wall ties require | Part A building i I min. every 2nd ed every course (as per dia 9, par apart according with width of cav | regulations course (i.e. 450m around jams of op 1.1.3.27 Part A n to cavity width. (9 <i>v</i> ity) | m min. benings egs) 000mm |
|---|--|--|------------------------------------|
| IPORTANT NOTES : It is the responsibility of the dimensions / pitches etc on e.g. before order steel etc. anomalies in the drawings. All works to be carried out i permission and building reg | site before works The Engineer shou n accordance with | commence Ild be notified of any | |
| | REVISION | DRA | WING NO. |
| | C1 | CM23- | CS-107 |
| | DATE: APR 2023 | drawn by: CMT | CHECKED: CJK |
| | DWG STATUS: | Cons | truction |

DRAWING:

Structural Details

E: INFO@CYRILKELLYENGINEERS.COM



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IMPORTANT NOTES :

- It is the responsibility of the builder/ contractor to check all dimensions / pitches etc on site before works commence e.g. before order steel etc. The Engineer should be notified of any anomalies in the drawings.
- All works to be carried out in accordance with planning permission and building regulations

BLOCKWORK DIMENSIONS SHOWN.





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UNIT 29 KILKERRIN PARK, LIOSBÁN, TUAM ROAD, GALWAY, H91 A 29 V · T: 091 758530 E: INFO@CYRILKELLYENGINEERS.COM Structural Elevations

e.g. before order steel etc. The Engineer should be notified of any

| revision | DRAWIN | |
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| DATE: APR 2023 | drawn by: CMT | CHECKED: CJK |
| DWG STATUS: | Constr | uction |

NOTES:

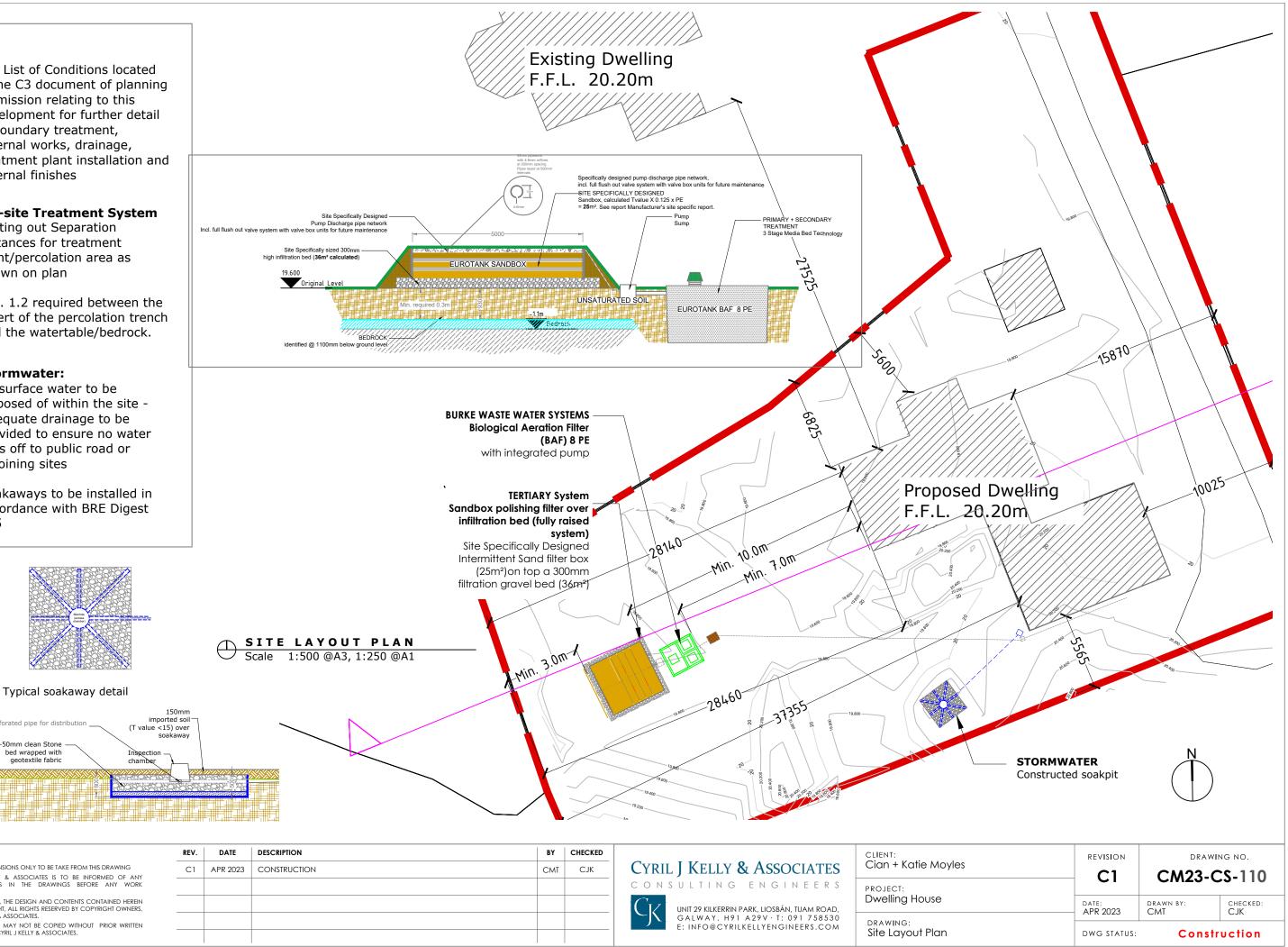
- See List of Conditions located in the C3 document of planning permission relating to this development for further detail of boundary treatment, external works, drainage, treatment plant installation and external finishes
- **On-site Treatment System** ٠ Setting out Separation distances for treatment plant/percolation area as shown on plan
- Min. 1.2 required between the ٠ invert of the percolation trench and the watertable/bedrock.

Stormwater: • All surface water to be disposed of within the site -Adequate drainage to be provided to ensure no water runs off to public road or adjoining sites

Soakaways to be installed in • accordance with BRE Digest 365

Perforated pipe for distribution

25-50mm clean Stone bed wrapped with geotextile fabric



| NOTES: | | REV. | DATE | DESCRIPTION | BY | CHECKED | | CLIENT: |
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| | | | | | | | | PROJECT: |
| ARE COPYRI | | | | | | | | Dwelling House |
| 4. THIS DRAWIN | | | | | | | | DRAWING: Site Layout Plan |