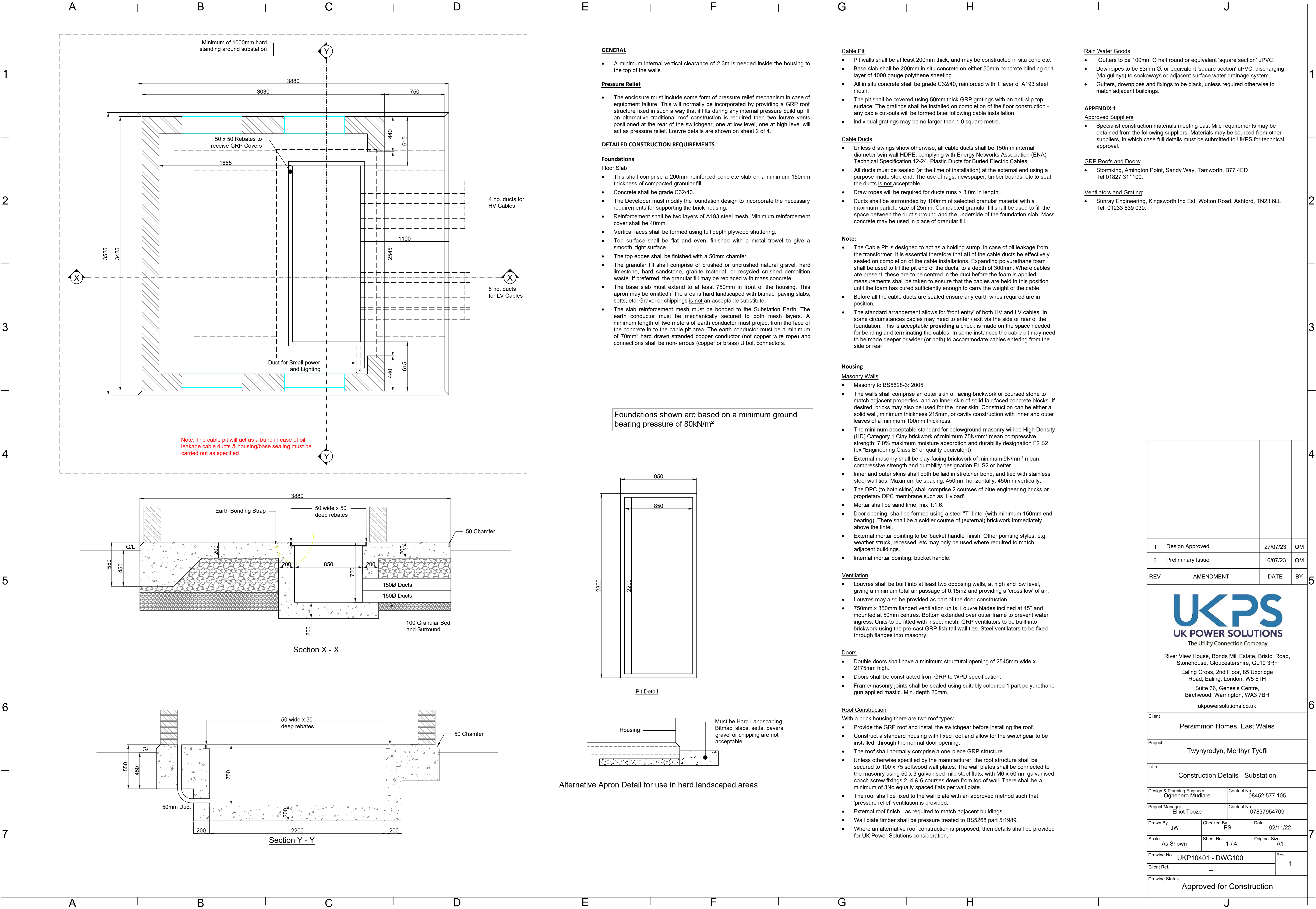
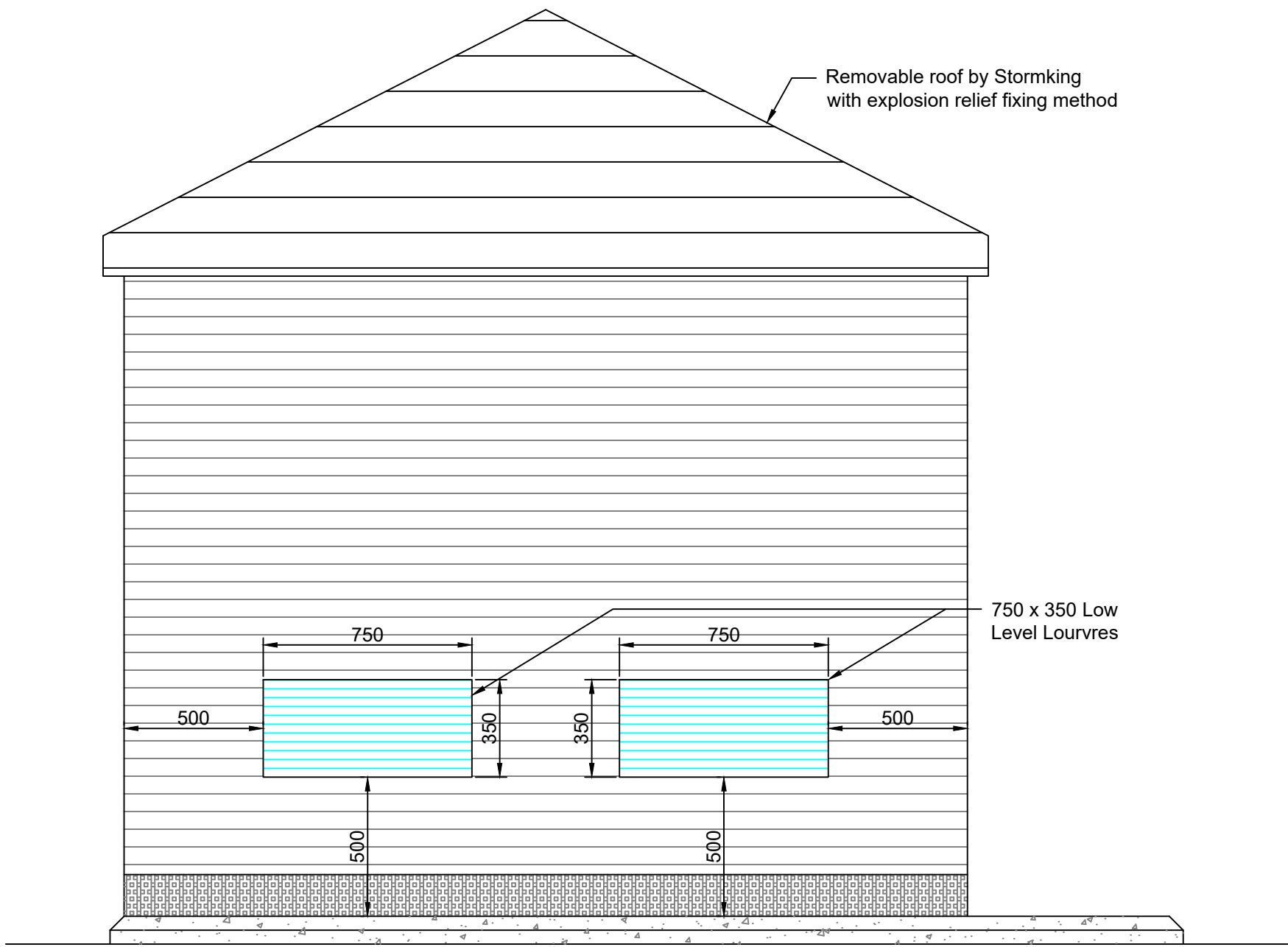
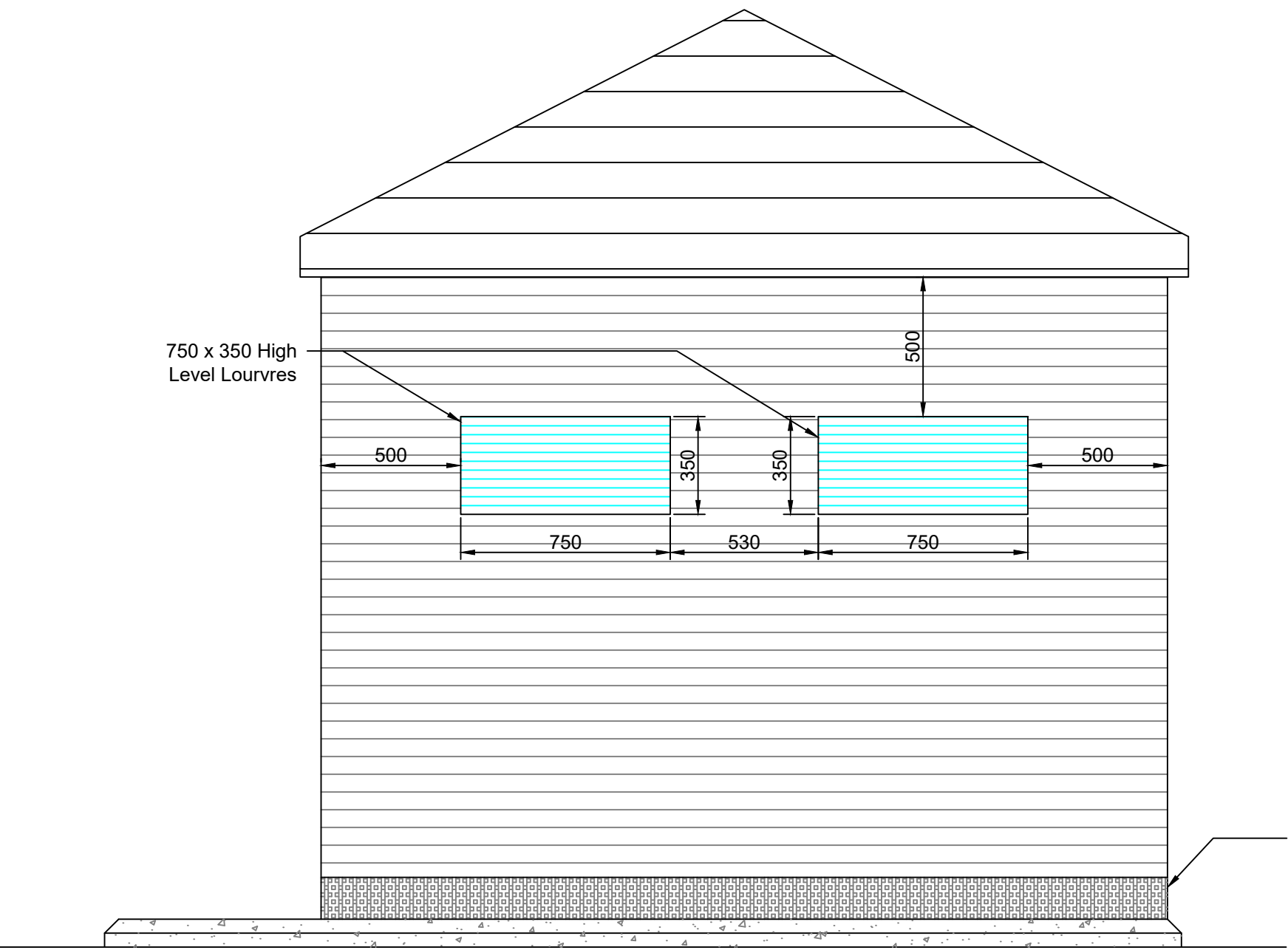


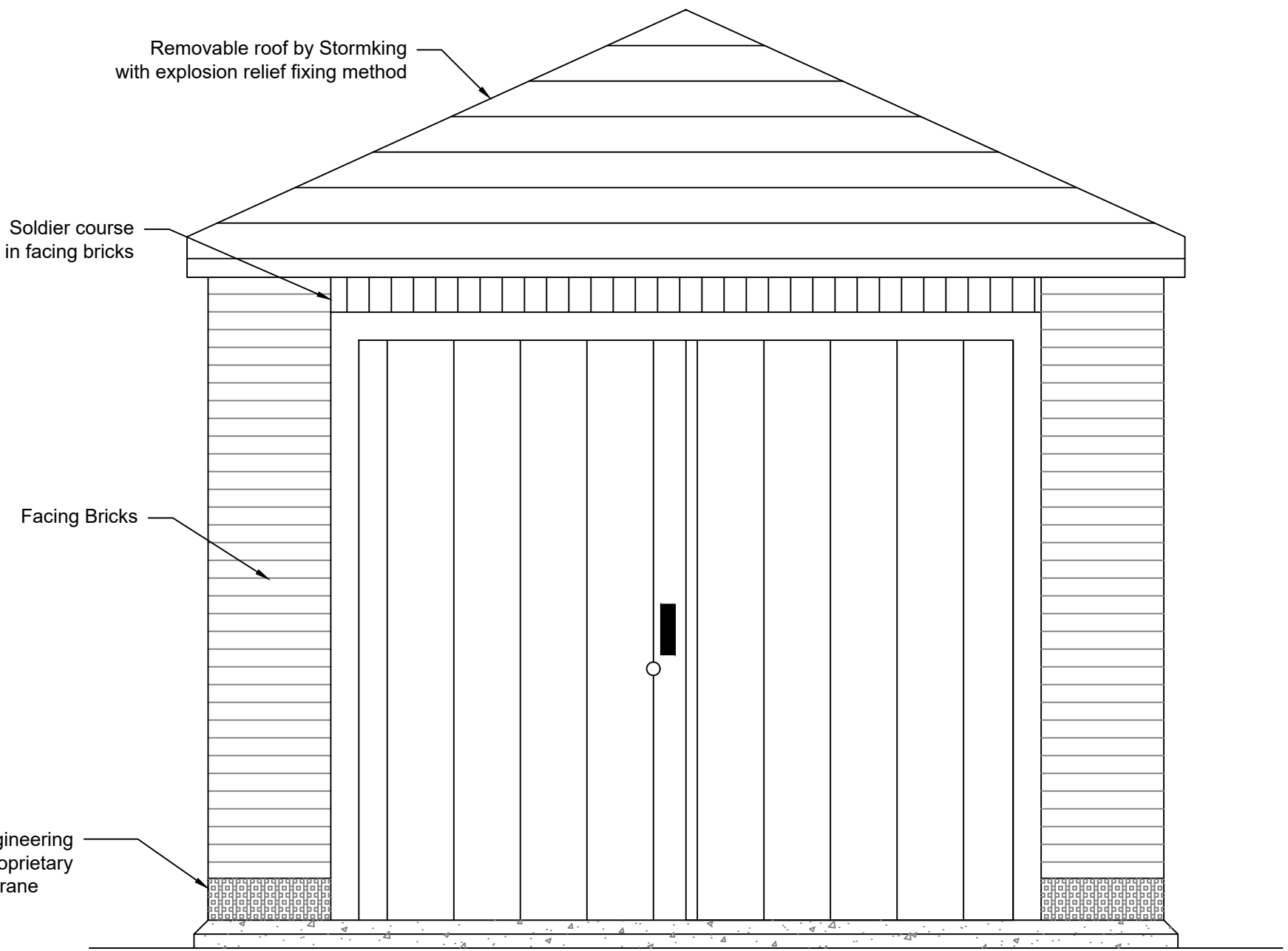




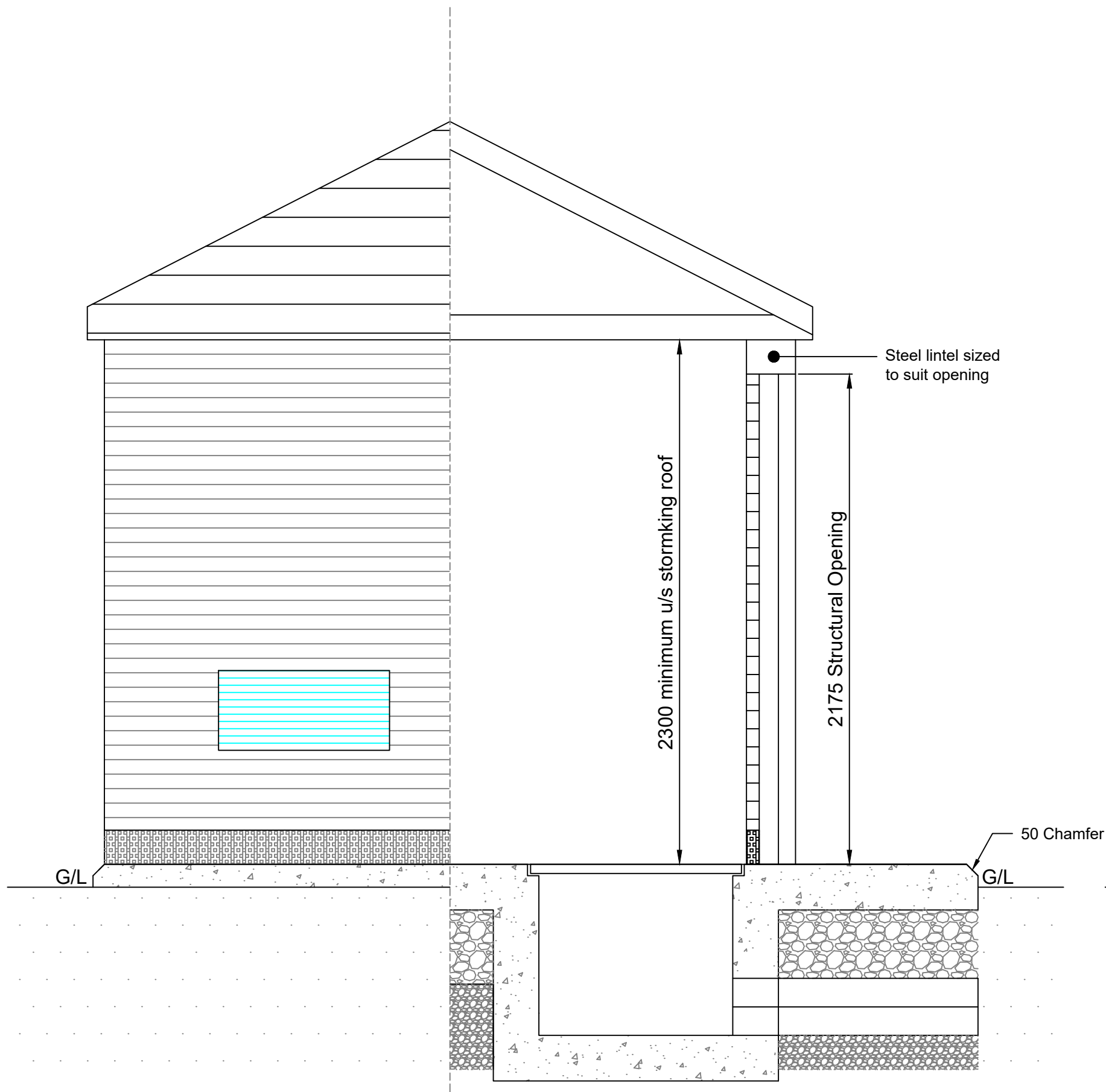
Side Elevation



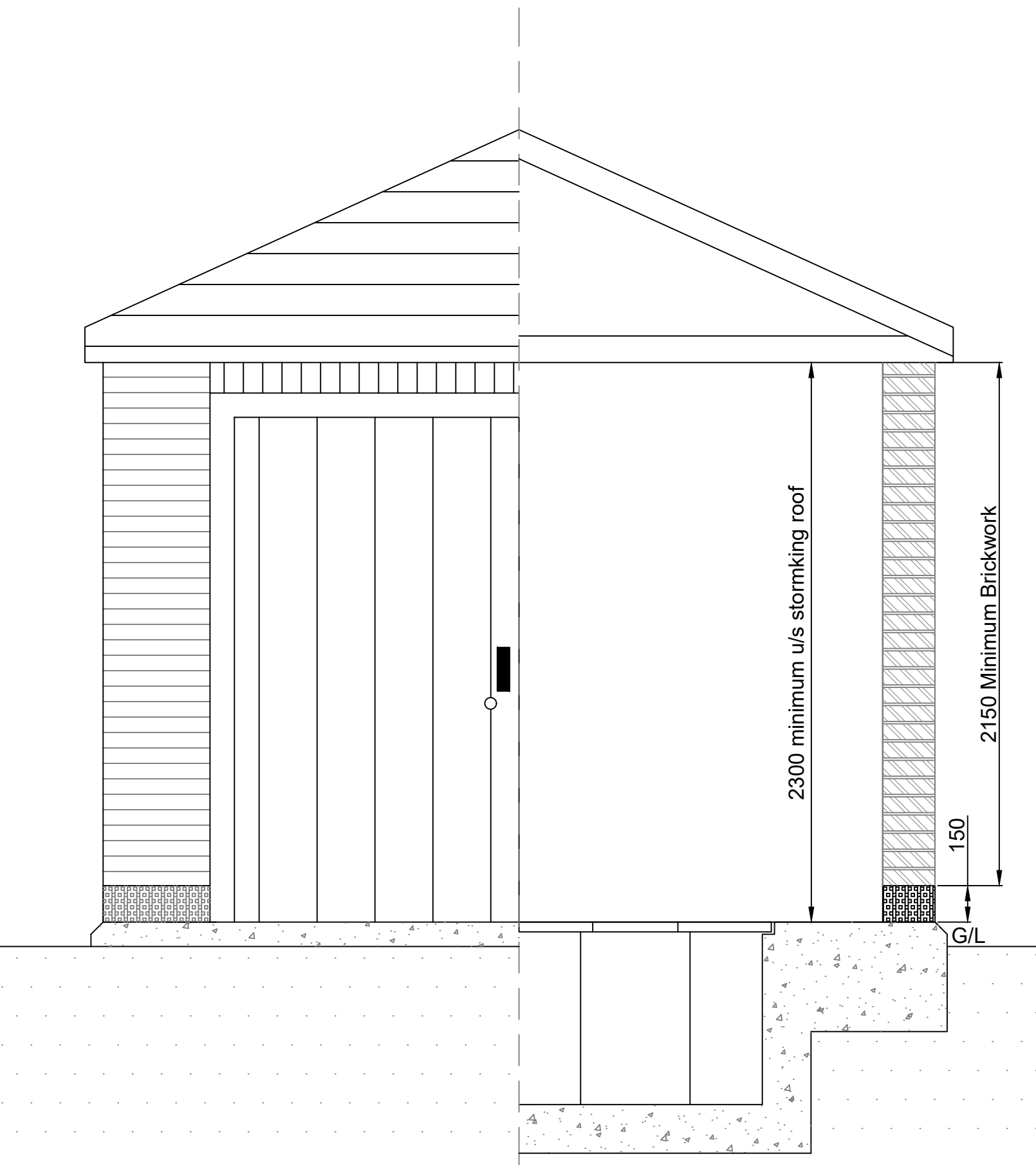
Side Elevation



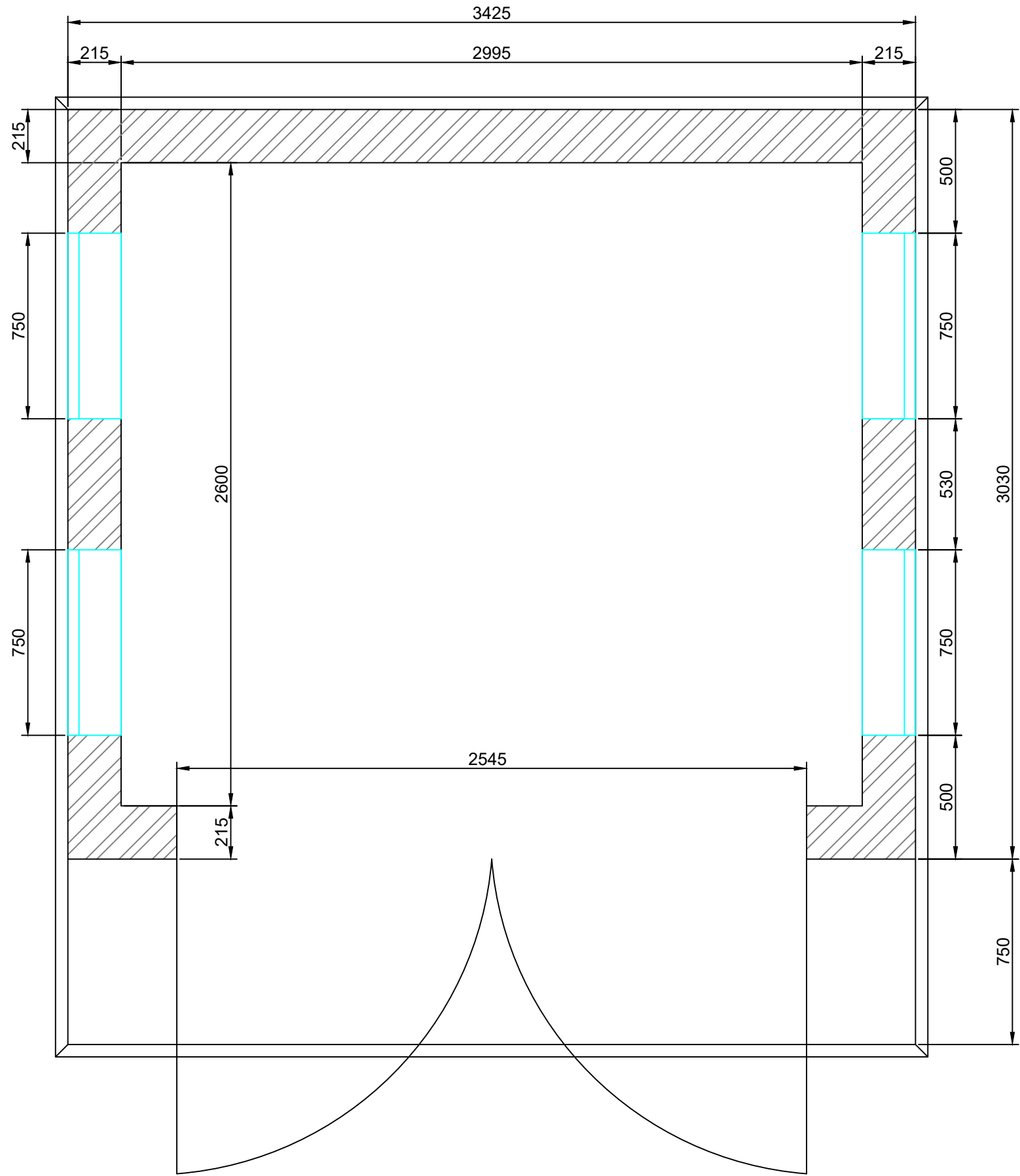
Front Elevation



Side Elevation

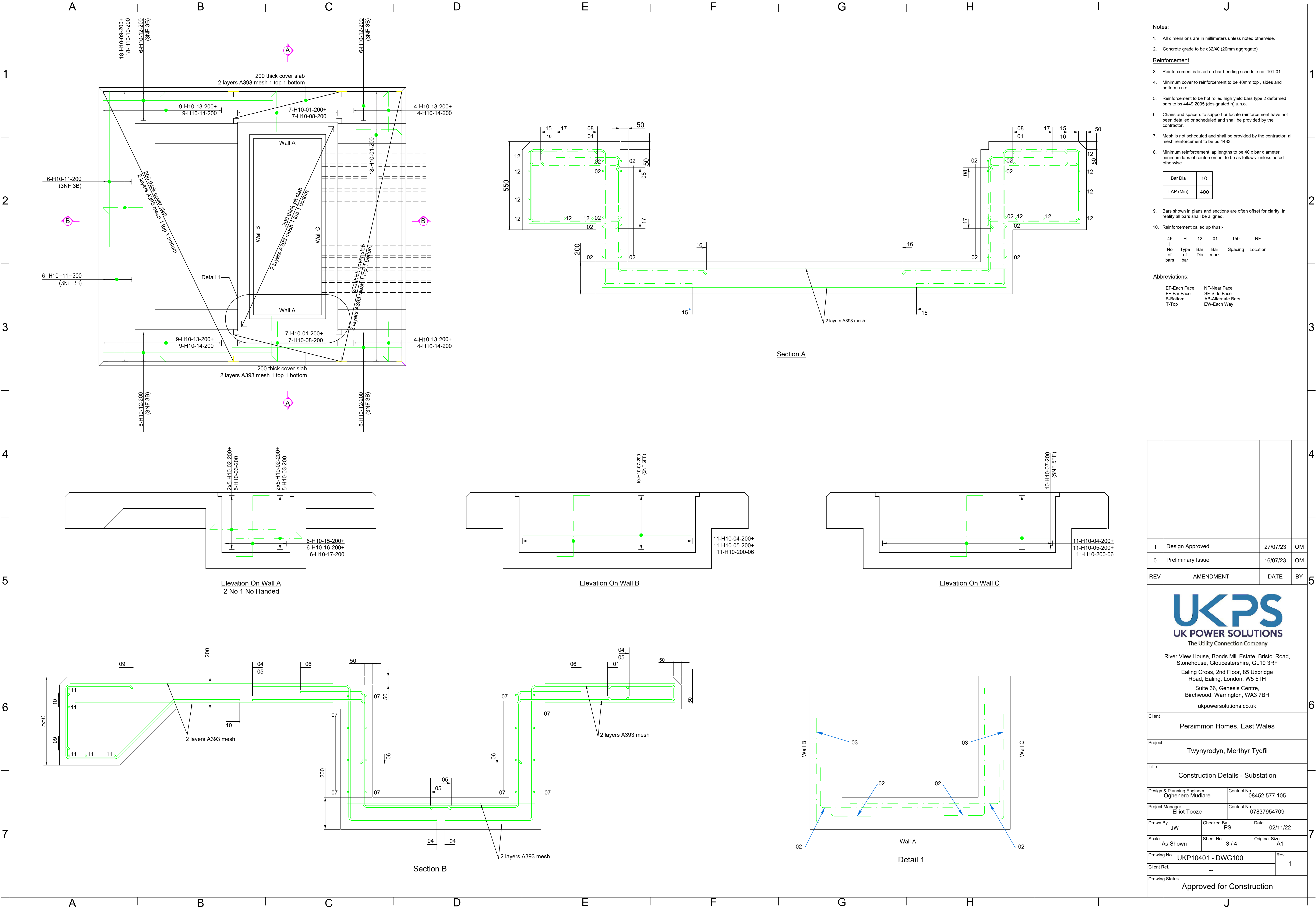


Front Elevation



Setting Out Plan

|                                                                                                                                                                                                                                                                                                                                     |                                   |                     |          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------|----------|
| 1                                                                                                                                                                                                                                                                                                                                   | Design Approved                   | 27/07/23            | OM       |
| 0                                                                                                                                                                                                                                                                                                                                   | Preliminary Issue                 | 16/07/23            | OM       |
| REV                                                                                                                                                                                                                                                                                                                                 | AMENDMENT                         | DATE                | BY       |
| <b>UKPS</b><br>UK POWER SOLUTIONS<br>The Utility Connection Company<br>River View House, Bonds Mill Estate, Bristol Road,<br>Stonehouse, Gloucestershire, GL10 3RF<br>Ealing Cross, 2nd Floor, 85 Uxbridge<br>Road, Ealing, London, W5 5TH<br>Suite 36, Genesis Centre,<br>Birchwood, Warrington, WA3 7BH<br>ukpowersolutions.co.uk |                                   |                     |          |
| Client                                                                                                                                                                                                                                                                                                                              | Persimmon Homes, East Wales       |                     |          |
| Project                                                                                                                                                                                                                                                                                                                             | Twyniodyn, Merthyr Tydfil         |                     |          |
| Title                                                                                                                                                                                                                                                                                                                               | Construction Details - Substation |                     |          |
| Design & Planning Engineer<br>Oghenero Mudiare                                                                                                                                                                                                                                                                                      | Contact No.                       | 08452 577 105       |          |
| Project Manager<br>Elliot Tooze                                                                                                                                                                                                                                                                                                     | Contact No.                       | 07837954709         |          |
| Drawn By<br>JW                                                                                                                                                                                                                                                                                                                      | Checked By<br>PS                  | Date                | 02/11/22 |
| Scale<br>As Shown                                                                                                                                                                                                                                                                                                                   | Sheet No.<br>2 / 4                | Original Size<br>A1 |          |
| Drawing No.<br>UKP10401 - DWG100                                                                                                                                                                                                                                                                                                    | Rev<br>1                          |                     |          |
| Client Ref.<br>--                                                                                                                                                                                                                                                                                                                   |                                   |                     |          |
| Drawing Status                                                                                                                                                                                                                                                                                                                      | Approved for Construction         |                     |          |



**Notes:**

- All dimensions are in millimeters unless noted otherwise.
- Concrete grade to be c32/40 (20mm aggregate)

**Reinforcement**

- Reinforcement is listed on bar bending schedule no. 101-01.
- Minimum cover to reinforcement to be 40mm top, sides and bottom u.n.o.
- Reinforcement to be hot rolled high yield bars type 2 deformed bars to bs 4449:2005 (designated h) u.n.o.
- Chairs and spacers to support or locate reinforcement have not been detailed or scheduled and shall be provided by the contractor.
- Mesh is not scheduled and shall be provided by the contractor. all mesh reinforcement to be bs 4483.
- Minimum reinforcement lap lengths to be 40 x bar diameter. minimum laps of reinforcement to be as follows: unless noted otherwise

| Bar Dia   | 10  |
|-----------|-----|
| LAP (Min) | 400 |

9. Bars shown in plans and sections are often offset for clarity; in reality all bars shall be aligned.

10. Reinforcement called up thus:-

| 46         | H           | 12      | 01       | 150     | NF       |
|------------|-------------|---------|----------|---------|----------|
| No of bars | Type of bar | Bar Dia | Bar mark | Spacing | Location |
|            |             |         |          |         |          |

**Abbreviations:**

|              |                   |
|--------------|-------------------|
| EF-Each Face | NF-Near Face      |
| FF-Far Face  | SF-Side Face      |
| B-Bottom     | AB-Alternate Bars |
| T-Top        | EW-Each Way       |

|     |                   |          |    |
|-----|-------------------|----------|----|
| 1   | Design Approved   | 27/07/23 | OM |
| 0   | Preliminary Issue | 16/07/23 | OM |
| REV | AMENDMENT         | DATE     | BY |

The Utility Connection Company

River View House, Bonds Mill Estate, Bristol Road, Stonehouse, Gloucestershire, GL10 3RF

Ealing Cross, 2nd Floor, 85 Uxbridge Road, Ealing, London, W5 5TH

Suite 36, Genesis Centre, Birchwood, Warrington, WA3 7BH

ukpowersolutions.co.uk

|                            |                                   |             |               |
|----------------------------|-----------------------------------|-------------|---------------|
| Client                     | Persimmon Homes, East Wales       |             |               |
| Project                    | Twynirodyn, Merthyr Tydfil        |             |               |
| Title                      | Construction Details - Substation |             |               |
| Design & Planning Engineer | Oghenero Mudiare                  | Contact No. | 08452 577 105 |
| Project Manager            | Elliot Tooze                      | Contact No. | 07837954709   |
| Drawn By                   | JW                                | Checked By  | PS            |
| Scale                      | As Shown                          | Sheet No.   | 3 / 4         |
| Drawing No.                | UKP10401 - DWG100                 |             | Rev           |
| Client Ref.                | --                                |             | 1             |
| Drawing Status             | Approved for Construction         |             |               |

| A | B | C | D | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|
| 1 |   |   |   |   |   |   |   |   | 1 |
| 2 |   |   |   |   |   |   |   |   | 2 |
| 3 |   |   |   |   |   |   |   |   | 3 |
| 4 |   |   |   |   |   |   |   |   | 4 |
| 5 |   |   |   |   |   |   |   |   | 5 |
| 6 |   |   |   |   |   |   |   |   | 6 |
| 7 |   |   |   |   |   |   |   |   | 7 |
| A | B | C | D | E | F | G | H | I | J |

|                                                                                       |          |             |             |                     |           |                         |            |      |     |                        |     |               |      |
|---------------------------------------------------------------------------------------|----------|-------------|-------------|---------------------|-----------|-------------------------|------------|------|-----|------------------------|-----|---------------|------|
| Project Title<br>Last Mile SUBSTATION<br>PLINTH                                       |          |             |             |                     |           |                         |            |      |     | Bar schedule<br>101/01 |     | Revision<br>1 |      |
|                                                                                       |          |             |             |                     |           |                         |            |      |     | Prep. by<br>TL         |     | Checked<br>MJ |      |
|                                                                                       |          |             |             |                     |           |                         |            |      |     | Date<br>23-02-17       |     | Rev. Date     |      |
|                                                                                       |          |             |             |                     |           |                         |            |      |     | Job No.<br>N17135      |     |               |      |
| Member                                                                                | Bar mark | Type & Size | No. of mbrs | No. of bars in each | Total no. | Length of each bar 1 mm | Shape code | A*   | B*  | C*                     | D*  | E/R*          | Rev. |
| SLAB                                                                                  | 01       | H10         | 1           | 32                  | 32        | 1075                    | 21         | 500  | 110 | 500                    |     |               | 2    |
|                                                                                       | 08       | H10         |             | 14                  | 14        | 1625                    | 31         | 400  | 420 | 525                    | 335 |               | 2    |
|                                                                                       | 09       | H10         |             | 18                  | 18        | 825                     | 11         | 420  | 420 |                        |     |               | 2    |
|                                                                                       | 10       | H10         |             | 18                  | 18        | 1700                    | 34         | 400  | 520 | 365                    | 370 | 420           | 2    |
|                                                                                       | 11       | H10         |             | 12                  | 12        | 1975                    | 00         | 1975 |     |                        |     |               | 2    |
|                                                                                       | 12       | H10         |             | 24                  | 24        | 2125                    | 00         | 2125 |     |                        |     |               | 2    |
|                                                                                       | 13       | H10         |             | 26                  | 26        | 800                     | 11         | 410  | 410 |                        |     |               | 2    |
|                                                                                       | 14       | H10         |             | 26                  | 26        | 1675                    | 34         | 400  | 520 | 365                    | 370 | 410           | 2    |
| WALL A                                                                                | 02       | H10         | 2           | 20                  | 40        | 925                     | 11         | 300  | 635 |                        |     |               | 2    |
|                                                                                       | 03       | H10         |             | 10                  | 20        | 1425                    | 11         | 800  | 635 |                        |     |               | 2    |
|                                                                                       | 15       | H10         |             | 6                   | 12        | 1775                    | 23         | 450  | 820 | 550                    |     |               | 2    |
|                                                                                       | 16       | H10         |             | 6                   | 12        | 1725                    | 23         | 495  | 700 | 550                    |     |               | 2    |
|                                                                                       | 17       | H10         |             | 6                   | 12        | 850                     | 11         | 400  | 450 |                        |     |               | 2    |
|                                                                                       |          |             |             |                     |           |                         |            |      |     |                        |     |               | 2    |
| WALL B                                                                                | 04       | H10         | 1           | 11                  | 11        | 1850                    | 23         | 500  | 820 | 550                    |     |               | 2    |
|                                                                                       | 05       | H10         |             | 11                  | 11        | 1825                    | 23         | 600  | 700 | 550                    |     |               | 2    |
|                                                                                       | 06       | H10         |             | 11                  | 11        | 850                     | 11         | 400  | 450 |                        |     |               | 2    |
|                                                                                       | 07       | H10         |             | 10                  | 10        | 2100                    | 00         | 2100 |     |                        |     |               | 2    |
|                                                                                       |          |             |             |                     |           |                         |            |      |     |                        |     |               | 2    |
| WALL C                                                                                | 04       | H10         | 1           | 11                  | 11        | 1850                    | 23         | 500  | 820 | 550                    |     |               | 2    |
|                                                                                       | 05       | H10         |             | 11                  | 11        | 1825                    | 23         | 600  | 700 | 550                    |     |               | 2    |
|                                                                                       | 06       | H10         |             | 11                  | 11        | 850                     | 11         | 400  | 450 |                        |     |               | 2    |
|                                                                                       | 07       | H10         |             | 10                  | 10        | 2100                    | 00         | 2100 |     |                        |     |               | 2    |
| This schedule complies with BS 8666                                                   |          |             |             |                     |           |                         |            |      |     |                        |     |               |      |
| *Specified in multiples of 5mm.                      !Specified in multiples of 25mm. |          |             |             |                     |           |                         |            |      |     |                        |     |               |      |

|                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                             |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------|----------|
|                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                             |          |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                     | Design Approved    | 27/07/23                    | OM       |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                     | Preliminary Issue  | 16/07/23                    | OM       |
| REV                                                                                                                                                                                                                                                                                                                                                                                                                   | AMENDMENT          | DATE                        | BY       |
| <div><div><div>UKPS</div><div>UK POWER SOLUTIONS</div><div>The Utility Connection Company</div></div><div><div>River View House, Bonds Mill Estate, Bristol Road,<br/>Stonehouse, Gloucestershire, GL10 3RF</div><div>Ealing Cross, 2nd Floor, 85 Uxbridge<br/>Road, Ealing, London, W5 5TH</div><div>Suite 36, Genesis Centre,<br/>Birchwood, Warrington, WA3 7BH</div><div>ukpowersolutions.co.uk</div></div></div> |                    |                             |          |
| Client<br>Persimmon Homes, East Wales                                                                                                                                                                                                                                                                                                                                                                                 |                    |                             |          |
| Project<br>Twynyrodyn, Merthyr Tydfil                                                                                                                                                                                                                                                                                                                                                                                 |                    |                             |          |
| Title<br>Construction Details - Substation                                                                                                                                                                                                                                                                                                                                                                            |                    |                             |          |
| Design & Planning Engineer<br>Oghenero Mudiare                                                                                                                                                                                                                                                                                                                                                                        |                    | Contact No<br>08452 577 105 |          |
| Project Manager<br>Elliot Tooze                                                                                                                                                                                                                                                                                                                                                                                       |                    | Contact No<br>07837954709   |          |
| Drawn By<br>JW                                                                                                                                                                                                                                                                                                                                                                                                        | Checked By<br>PS   | Date<br>02/11/22            |          |
| Scale<br>As Shown                                                                                                                                                                                                                                                                                                                                                                                                     | Sheet No.<br>4 / 4 | Original Size<br>A1         |          |
| Drawing No. UKP10401 - DWG100                                                                                                                                                                                                                                                                                                                                                                                         |                    |                             | Rev<br>1 |
| Client Ref.                                                                                                                                                                                                                                                                                                                                                                                                           |                    |                             |          |
| Drawing Status<br>Approved for Construction                                                                                                                                                                                                                                                                                                                                                                           |                    |                             |          |