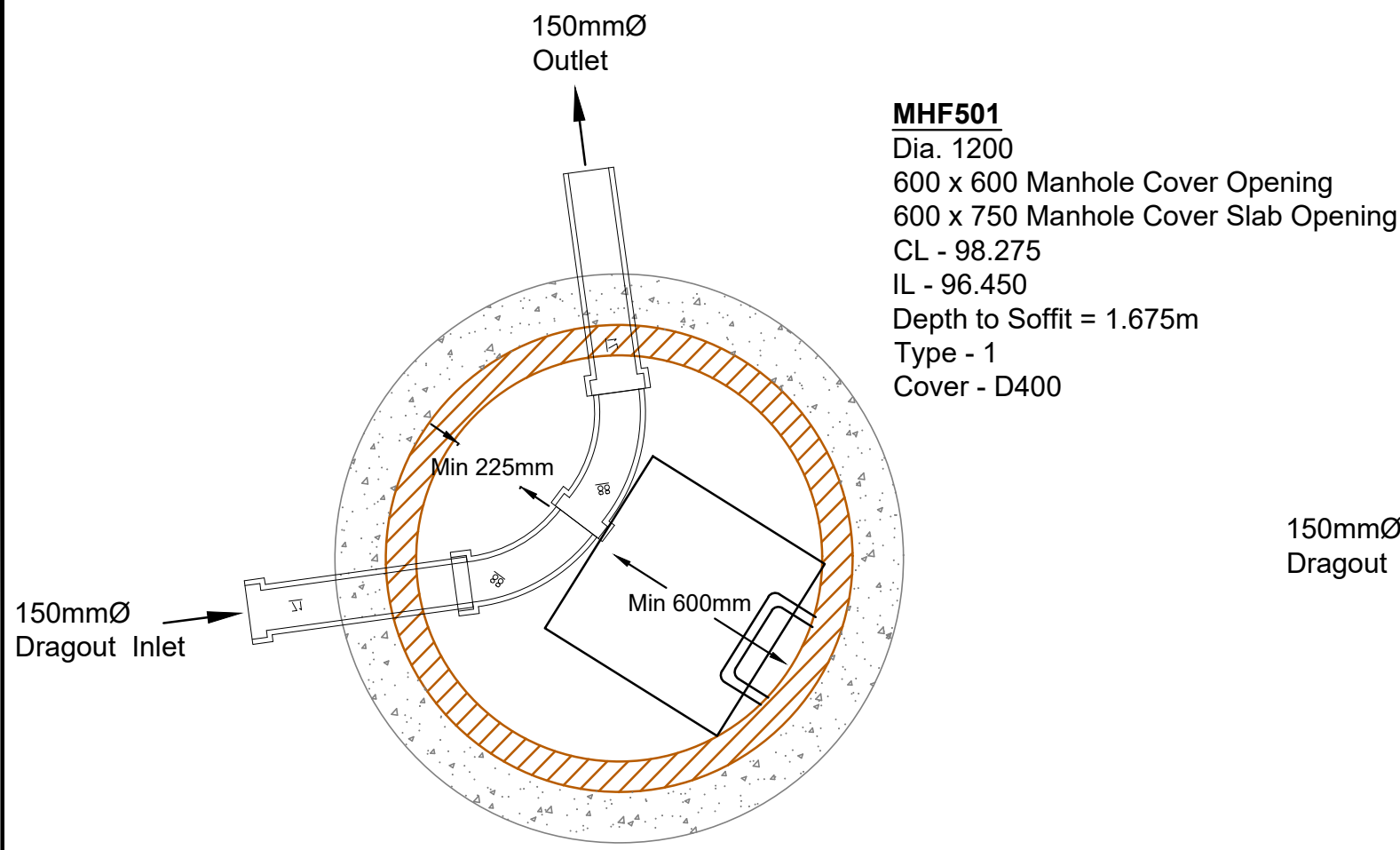
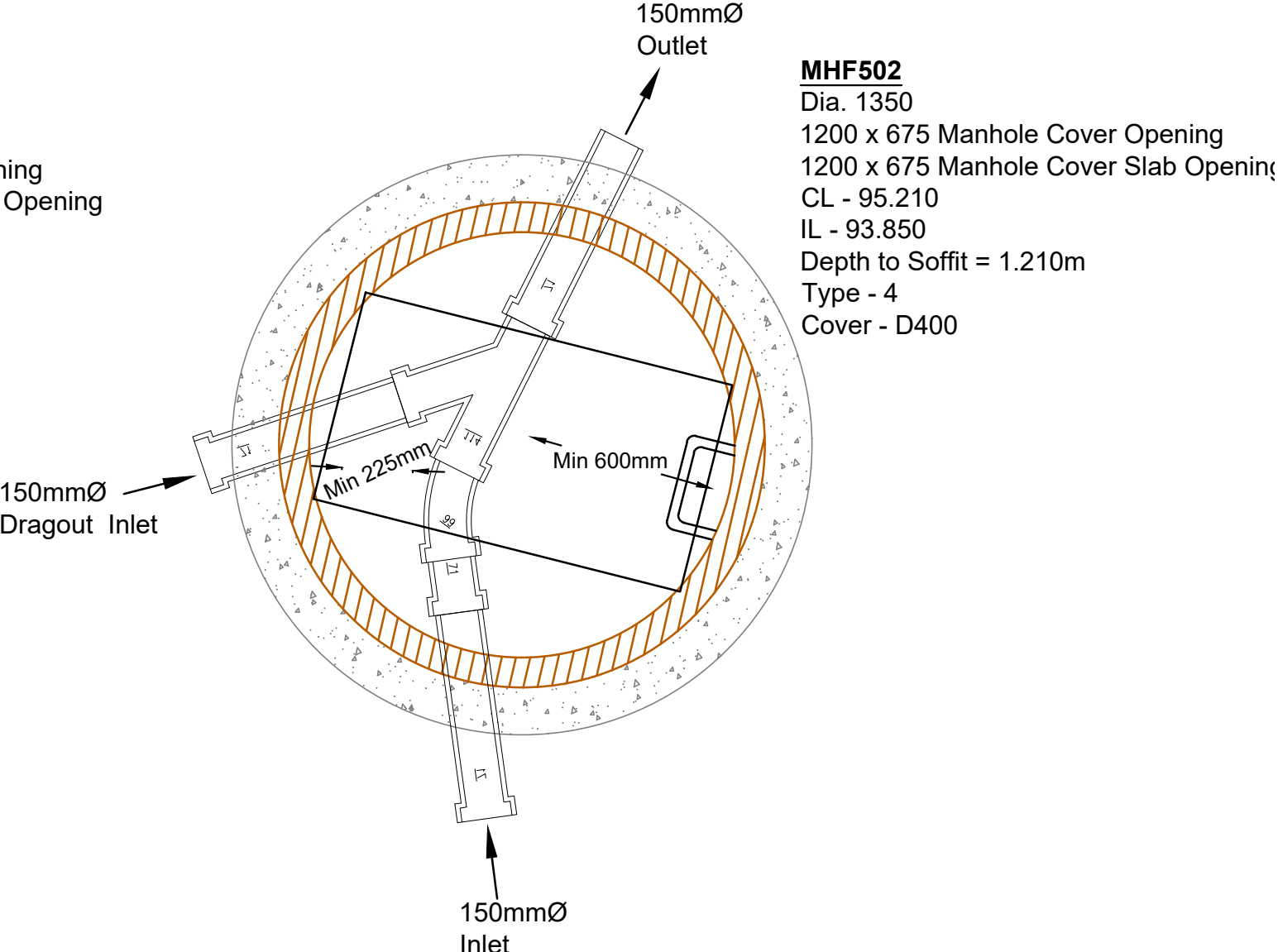


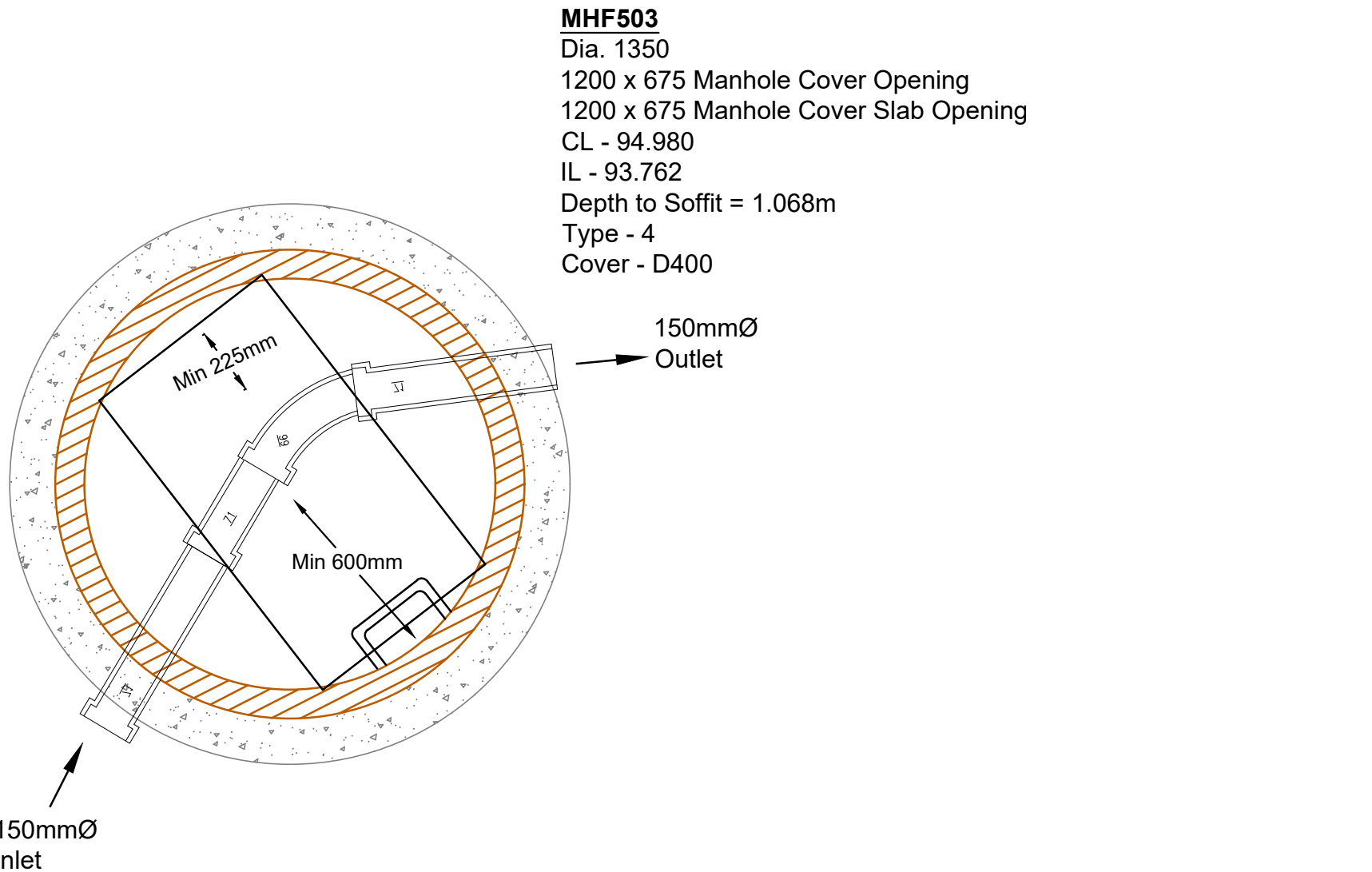
File Location: L:\001\_JOBS LIVE\MGANN\82333 - DON STREET, MIDDLETON KELLEN HOMES\GRAPH\INFRASTRUCTURE\40-16 FW 1:20 MANHOLE DETAILS.DWG



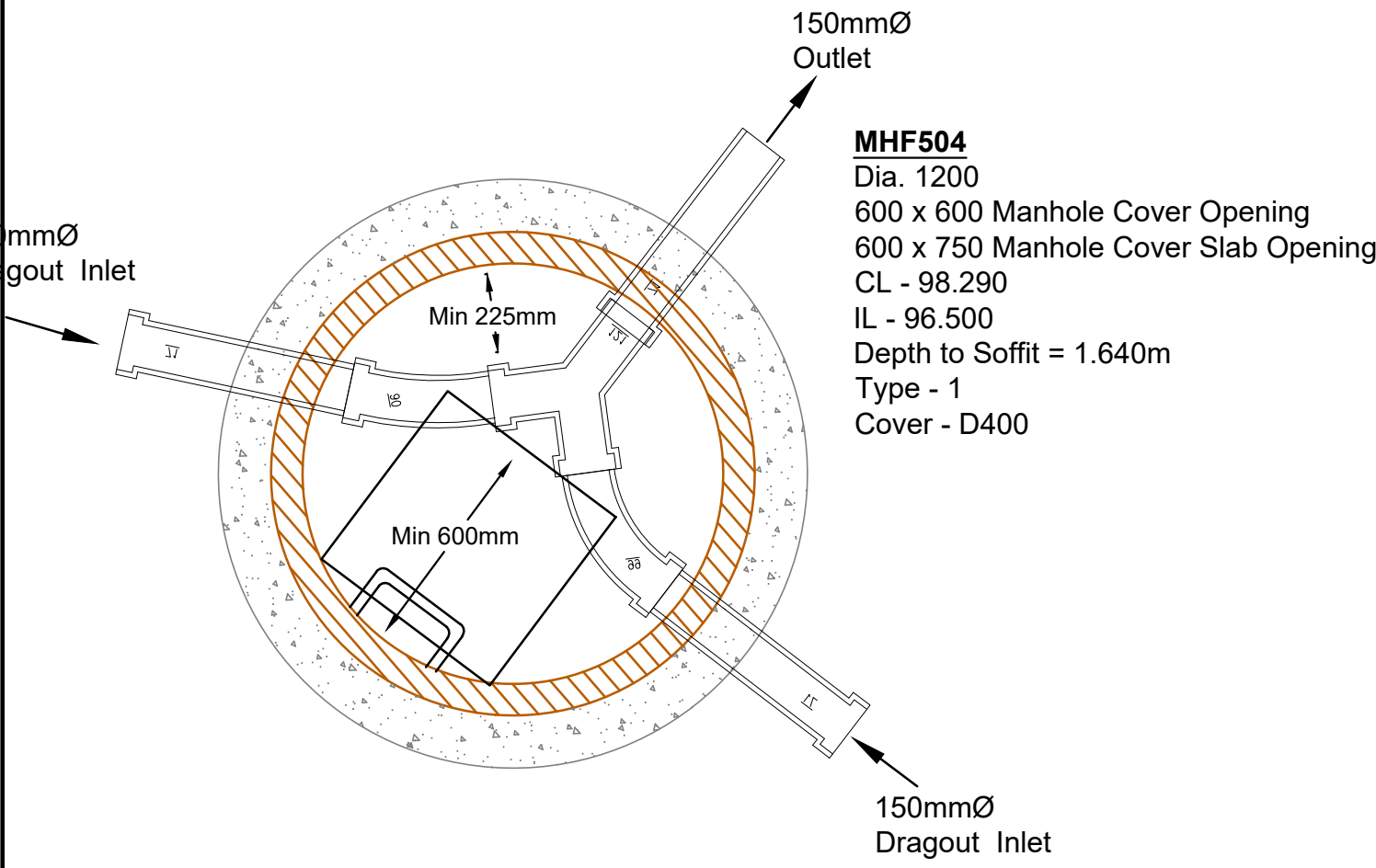
**MHF501**  
Dia. 1200  
600 x 600 Manhole Cover Opening  
600 x 750 Manhole Cover Slab Opening  
CL - 98.275  
IL - 96.450  
Depth to Soffit = 1.675m  
Type - 1  
Cover - D400



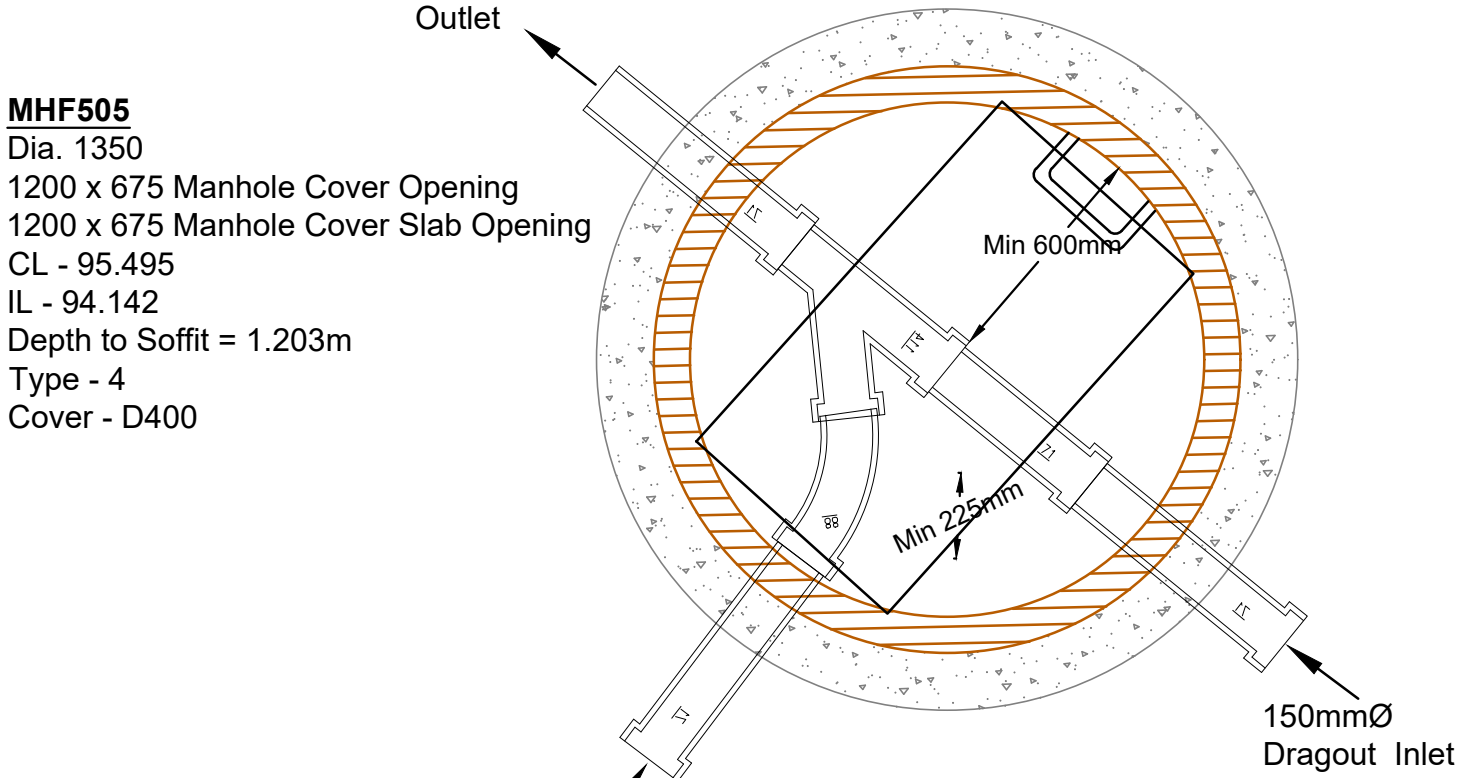
**MHF502**  
Dia. 1350  
1200 x 675 Manhole Cover Opening  
1200 x 675 Manhole Cover Slab Opening  
CL - 95.210  
IL - 93.850  
Depth to Soffit = 1.210m  
Type - 4  
Cover - D400



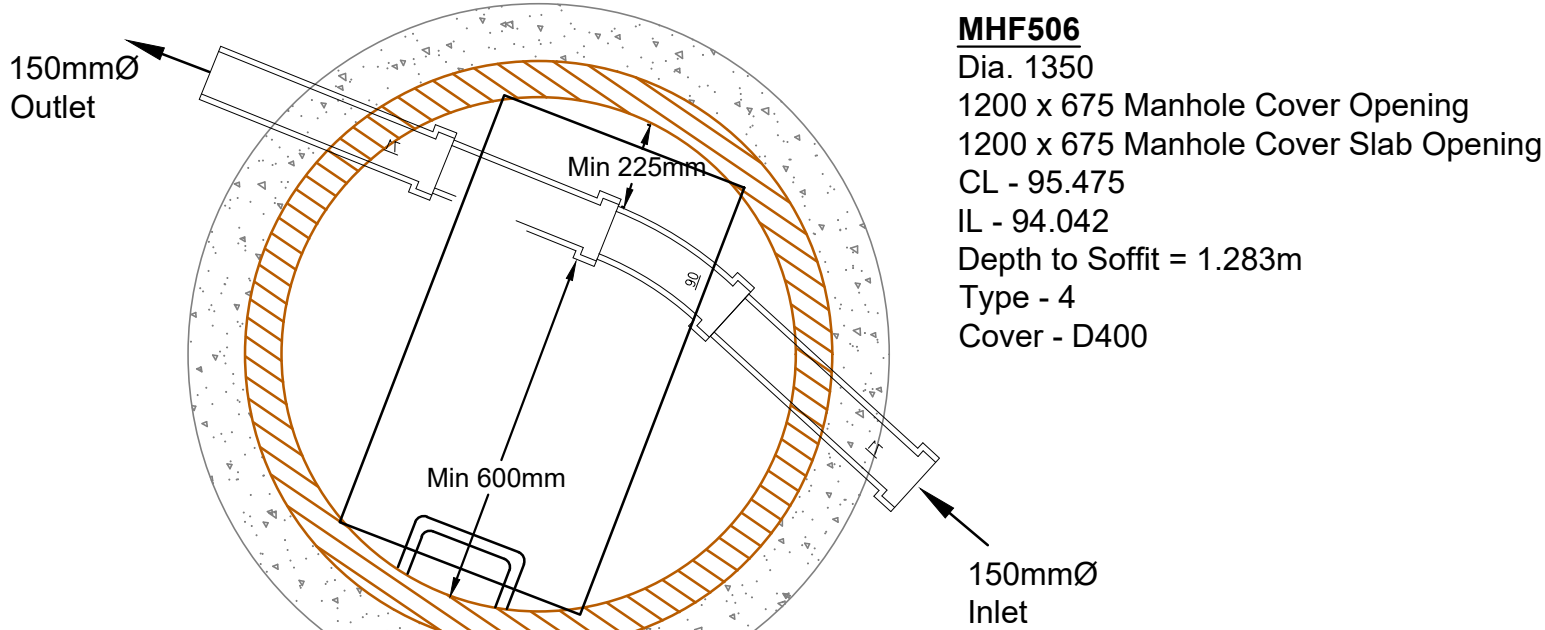
**MHF503**  
Dia. 1350  
1200 x 675 Manhole Cover Opening  
1200 x 675 Manhole Cover Slab Opening  
CL - 94.980  
IL - 93.762  
Depth to Soffit = 1.068m  
Type - 4  
Cover - D400



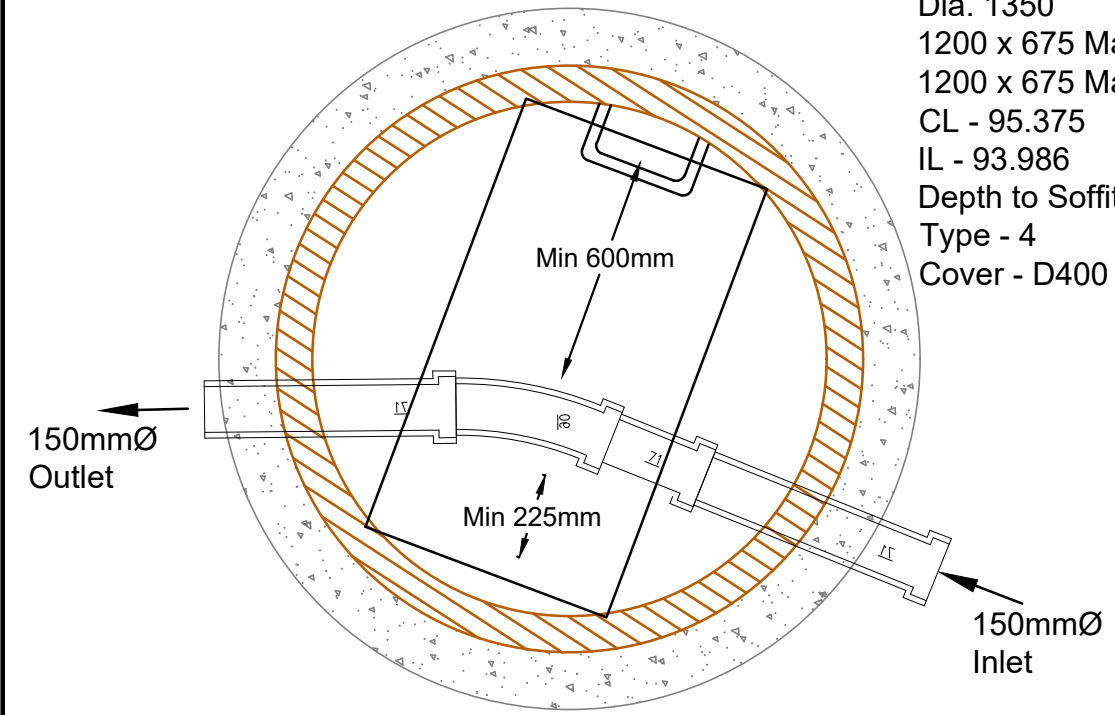
**MHF504**  
Dia. 1200  
600 x 600 Manhole Cover Opening  
600 x 750 Manhole Cover Slab Opening  
CL - 98.290  
IL - 96.500  
Depth to Soffit = 1.640m  
Type - 1  
Cover - D400



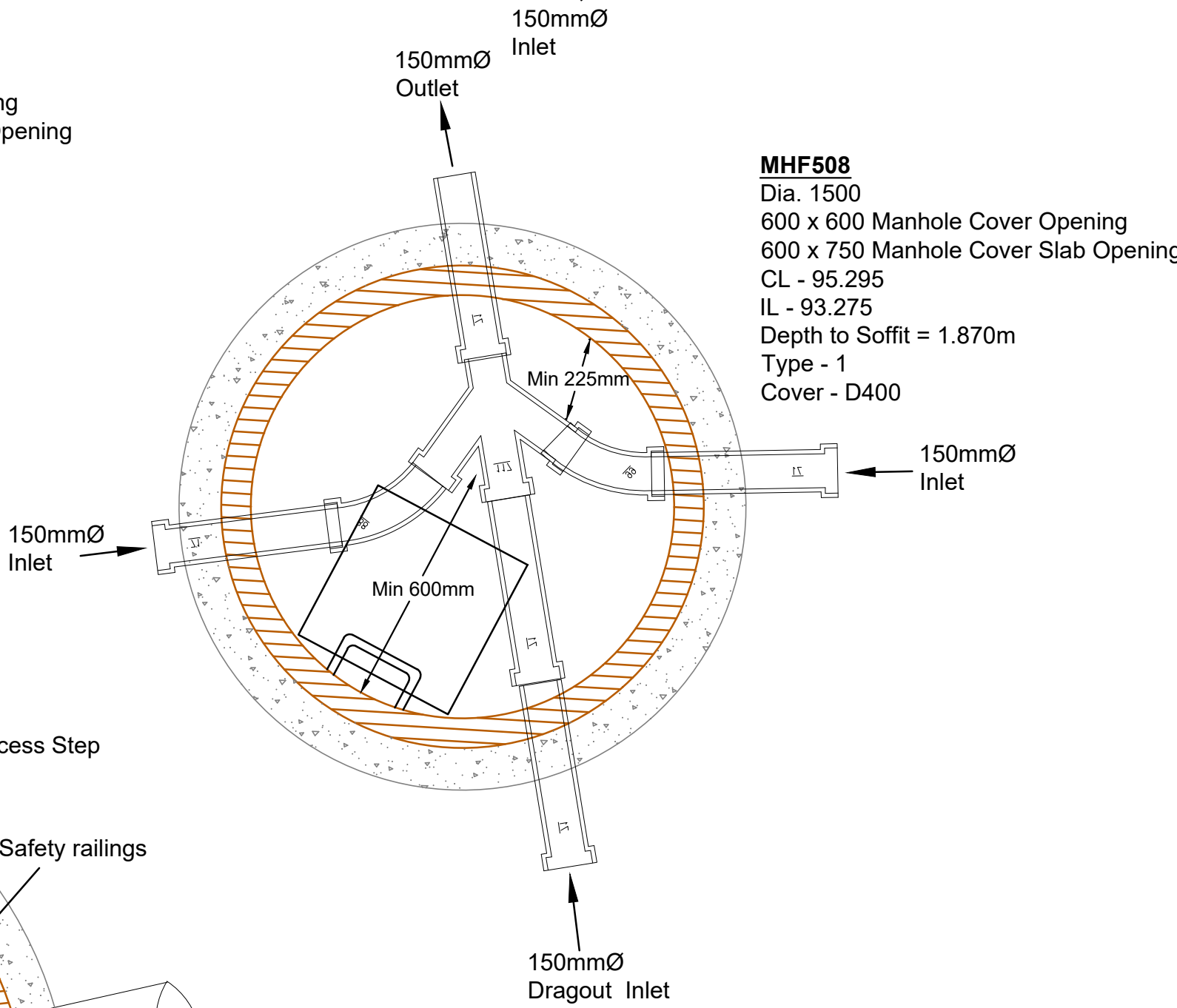
**MHF505**  
Dia. 1350  
1200 x 675 Manhole Cover Opening  
1200 x 675 Manhole Cover Slab Opening  
CL - 95.495  
IL - 94.142  
Depth to Soffit = 1.203m  
Type - 4  
Cover - D400



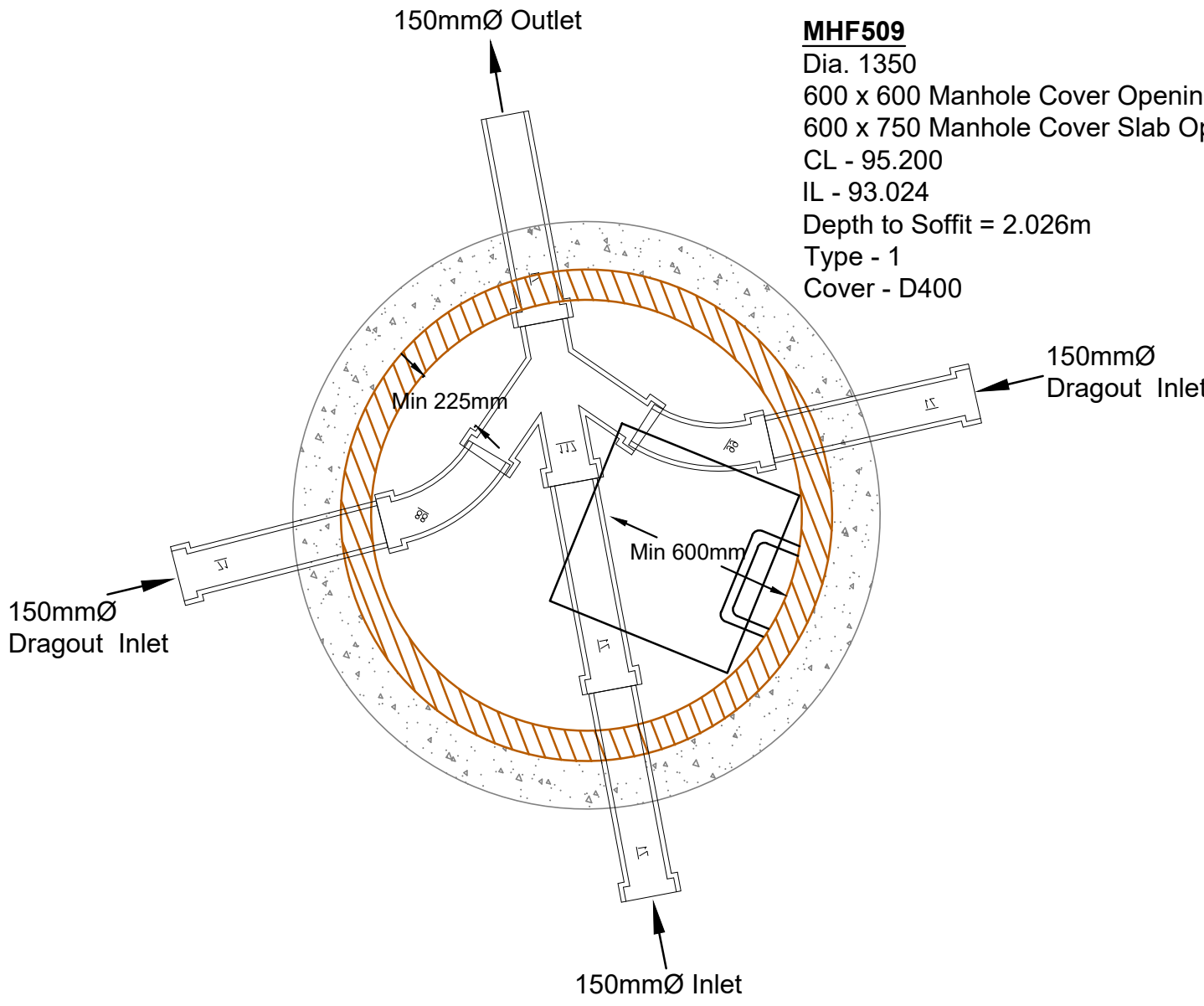
**MHF506**  
Dia. 1350  
1200 x 675 Manhole Cover Opening  
1200 x 675 Manhole Cover Slab Opening  
CL - 95.475  
IL - 94.042  
Depth to Soffit = 1.283m  
Type - 4  
Cover - D400



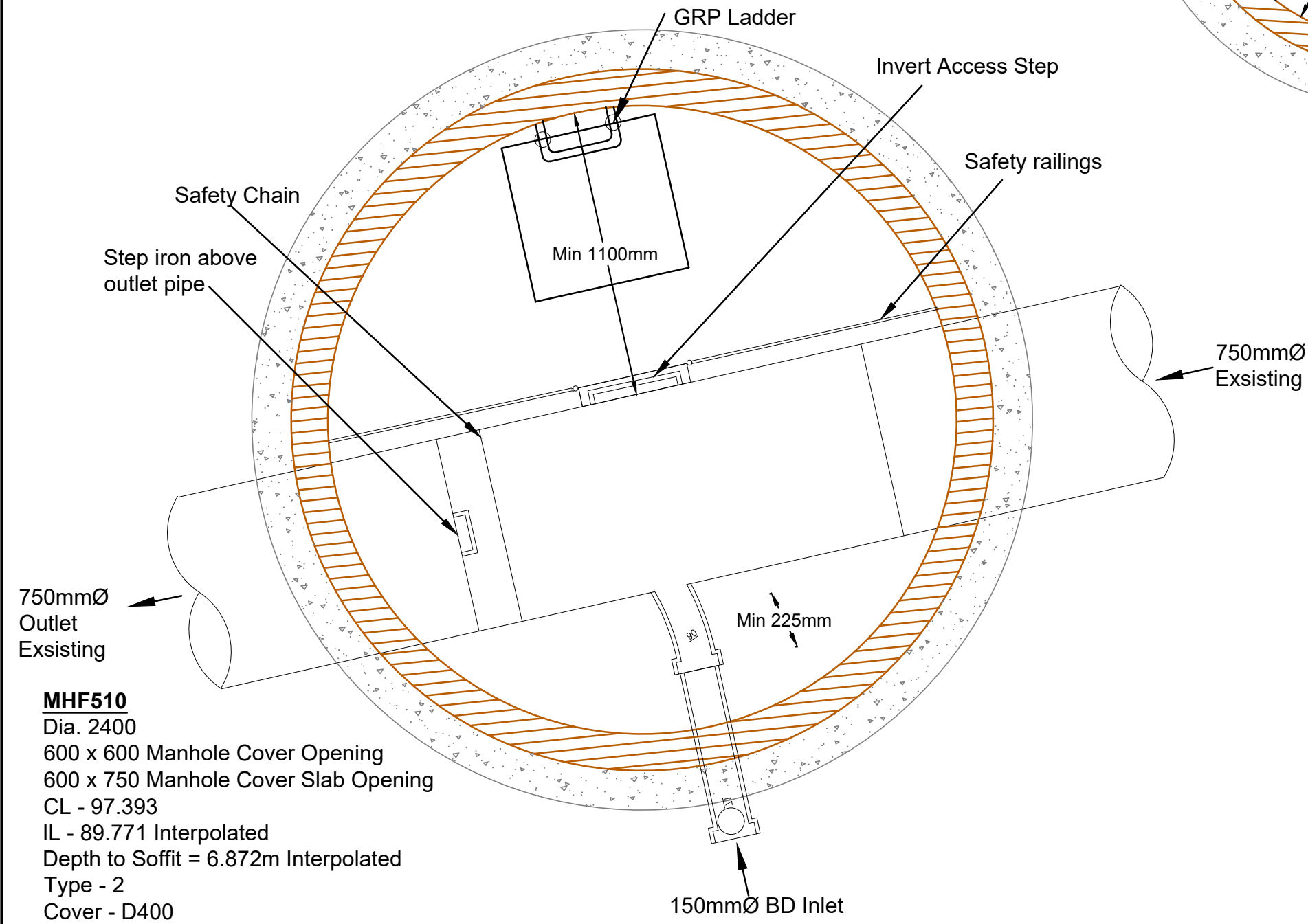
**MHF507**  
Dia. 1350  
1200 x 675 Manhole Cover Opening  
1200 x 675 Manhole Cover Slab Opening  
CL - 95.375  
IL - 93.988  
Depth to Soffit = 1.239m  
Type - 4  
Cover - D400



**MHF508**  
Dia. 1500  
600 x 600 Manhole Cover Opening  
600 x 750 Manhole Cover Slab Opening  
CL - 95.295  
IL - 93.275  
Depth to Soffit = 1.870m  
Type - 1  
Cover - D400



**MHF509**  
Dia. 1350  
600 x 600 Manhole Cover Opening  
600 x 750 Manhole Cover Slab Opening  
CL - 95.200  
IL - 93.024  
Depth to Soffit = 2.026m  
Type - 1  
Cover - D400



**MHF510**  
Dia. 2400  
600 x 600 Manhole Cover Opening  
600 x 750 Manhole Cover Slab Opening  
CL - 97.393  
IL - 89.771 Interpolated  
Depth to Soffit = 6.872m Interpolated  
Type - 2  
Cover - D400

CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT

Abnormal or unusual residual risks associated with the design outcomes shown on this drawing are:-

RSK LDE LTD has followed its Design Risk Management process for Hazard Elimination and Risk reduction in developing the designs shown on this drawing. Abnormal or unusual residual risks may be shown above where it is considered that such risk may not normally be expected by competent persons engaged on work of this nature or type.

Notes

- This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings.
- All levels quoted are in metres A.O.D.
- Concrete surround to chambers is shown indicatively for completeness. The Contractor shall satisfy himself that ground conditions at each manhole location are suitable such that the concrete surround is not required. RSK bears no responsibility for the Contractor's assessment of ground conditions.

ROCKER PIPES TO BE INSTALLED AT EACH ENTRY POINT INTO MANHOLE CHAMBER. ROCKER PIPES TO BE IN ACCORDANCE WITH UNITED UTILITIES STANDARD DETAILS

| Rev. | Date     | Amendment                                         | Drawn | Chkd. | Appd. |
|------|----------|---------------------------------------------------|-------|-------|-------|
| P5   | 25.05.22 | Updated to suit layout Rev AL                     | DS    | MS    |       |
| P4   | 22.02.22 | F506 and F508 updated to private drainage designs | MS    | MS    |       |
| P3   | 27.01.22 | Revised to new planning layout Rev X              | AP    | MS    |       |
| P2   | 09.11.21 | Updated to suit latest drainage design            | LGS   | MS    |       |
| P1   | 12.07.21 | First Issue                                       | JA    | MS    |       |

**RSK**

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|                                        |                                         |              |          |          |      |
|----------------------------------------|-----------------------------------------|--------------|----------|----------|------|
| Client                                 | Kellen Homes                            |              |          |          |      |
| Project Title                          | Don Street Middleton                    |              |          |          |      |
| Status                                 | Detailed Design                         |              |          |          |      |
| Drawing Title                          | FW 1:20 Manhole Details<br>Sheet 3 of 4 |              |          |          |      |
| Drawn                                  | Date                                    | Checked      | Date     | Approved | Date |
| JA                                     | JULY '21                                | MS           | JULY '21 |          |      |
| Scale                                  | Orig Size                               | Dimensions   |          |          |      |
| 1:20                                   | A1                                      |              |          |          |      |
| Project No.                            |                                         | Drawing File |          |          |      |
| 882333                                 |                                         |              |          |          |      |
| Drawing No.                            |                                         |              |          |          | Rev. |
| 40-16-03                               |                                         |              |          |          | P5   |
| Scale 1:20<br>0 200 400 600 800 1000mm |                                         |              |          |          |      |