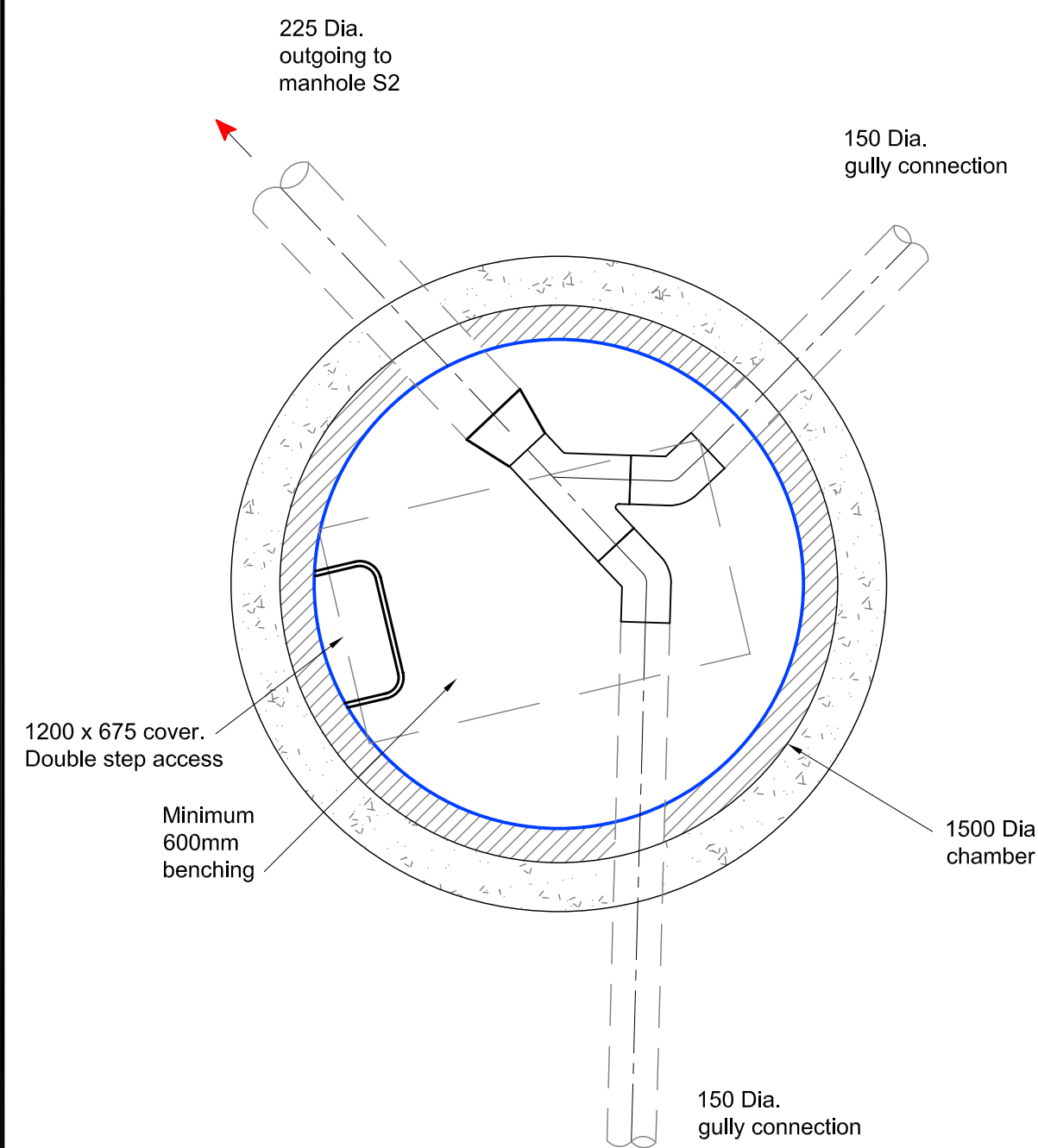
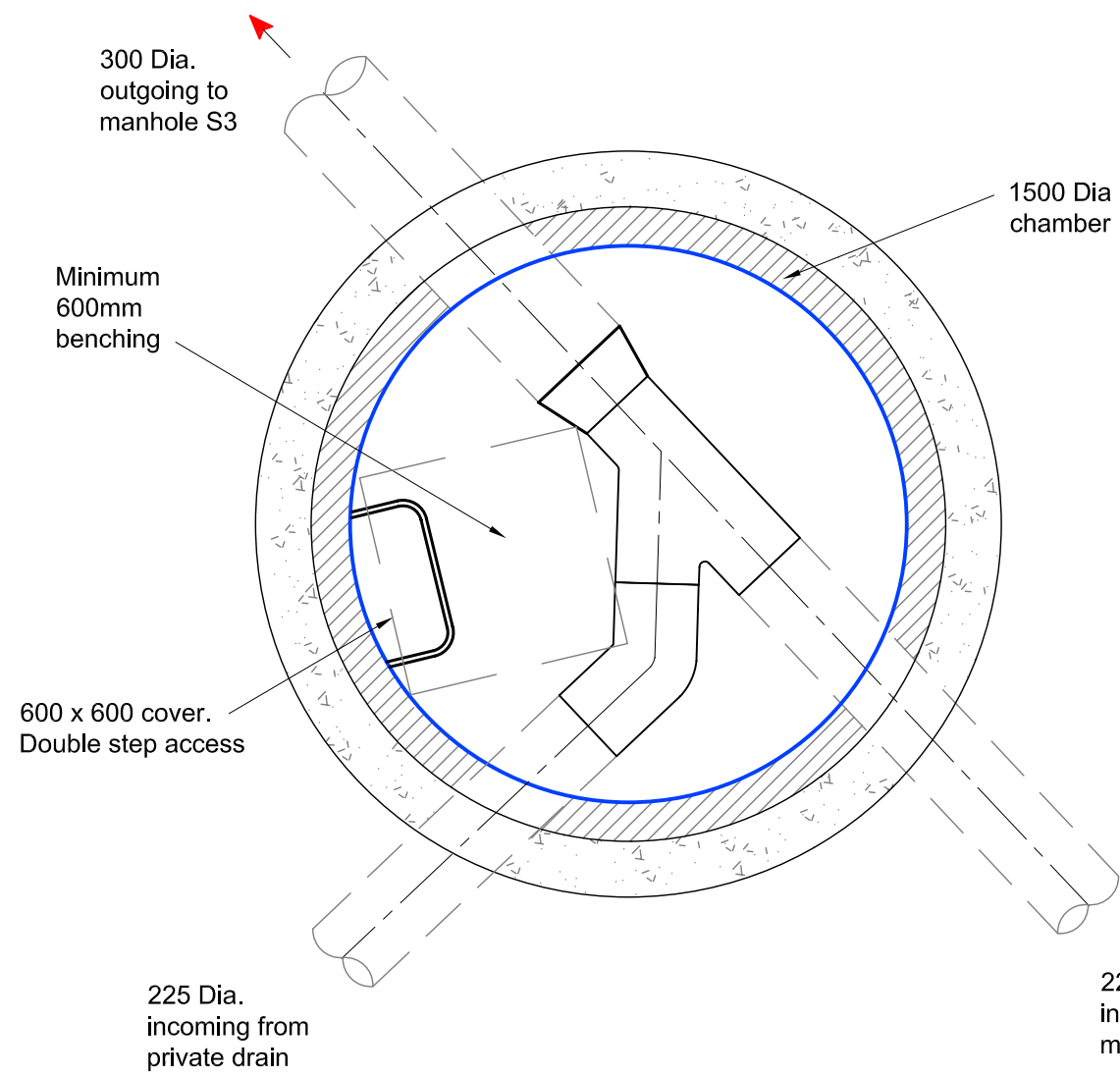


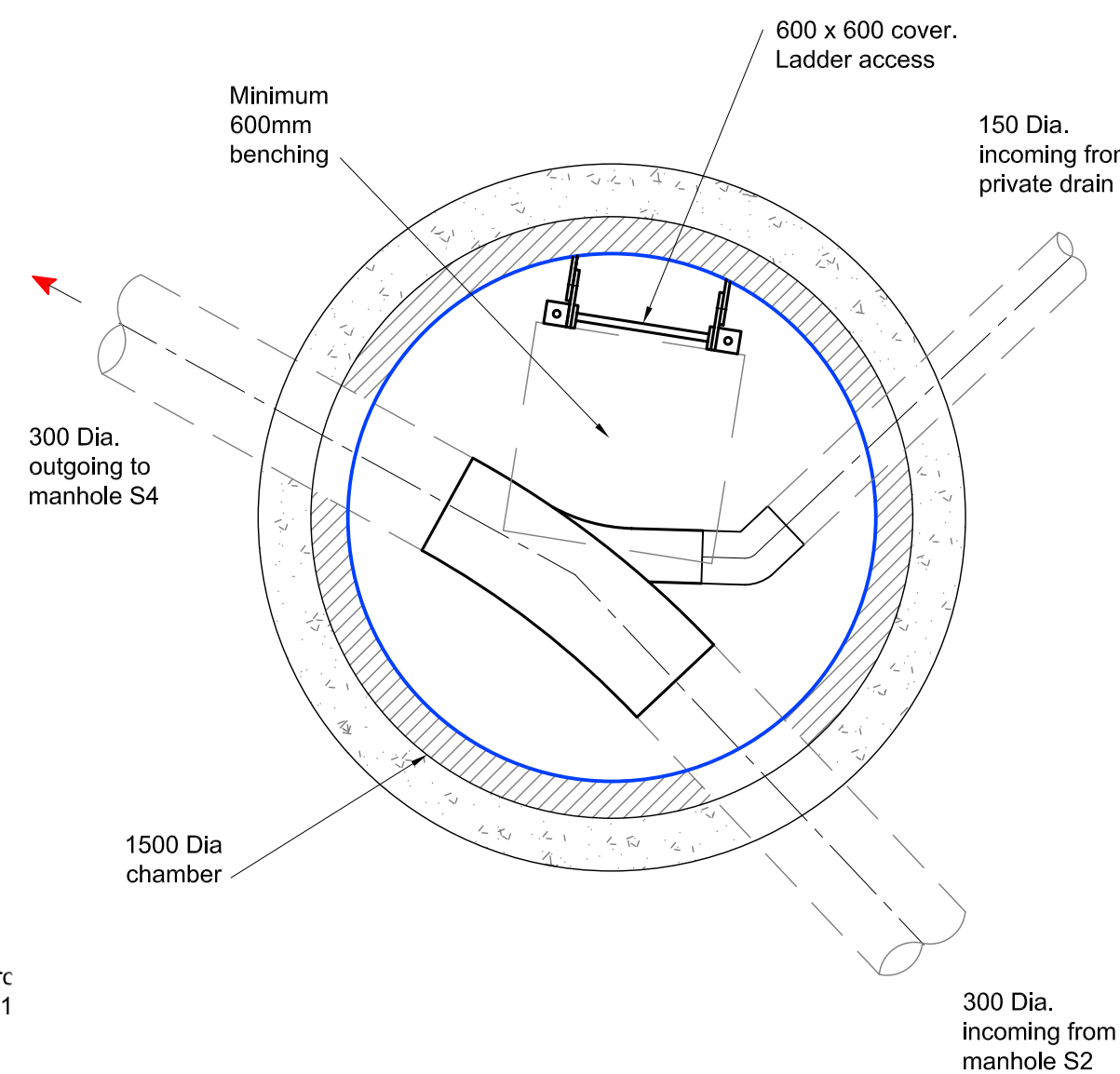
DO NOT SCALE



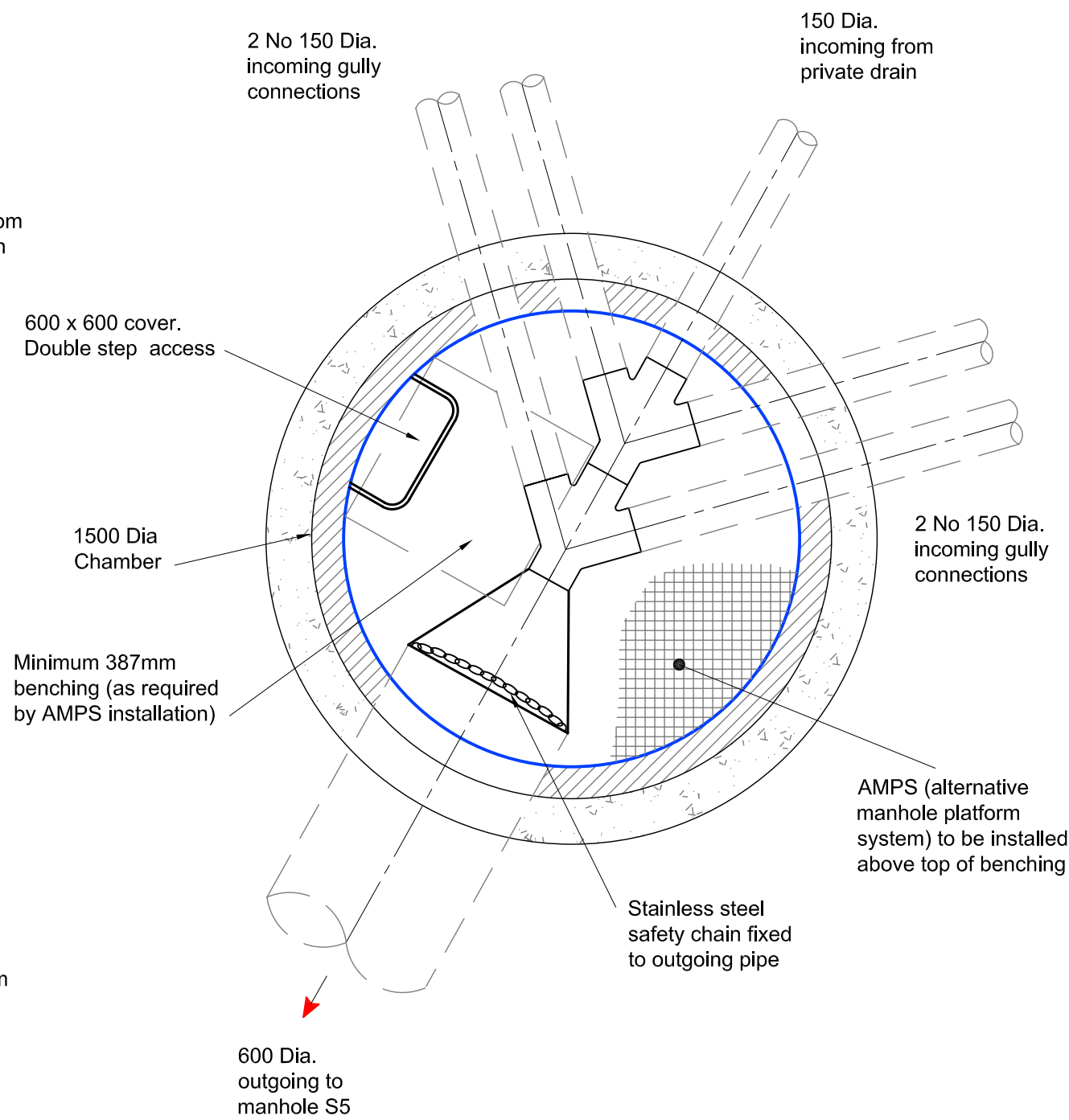
**Manhole S1**  
**(Highway Drain)**  
**Plan**  
Scale 1:20  
CL 73.480  
IL 72.000



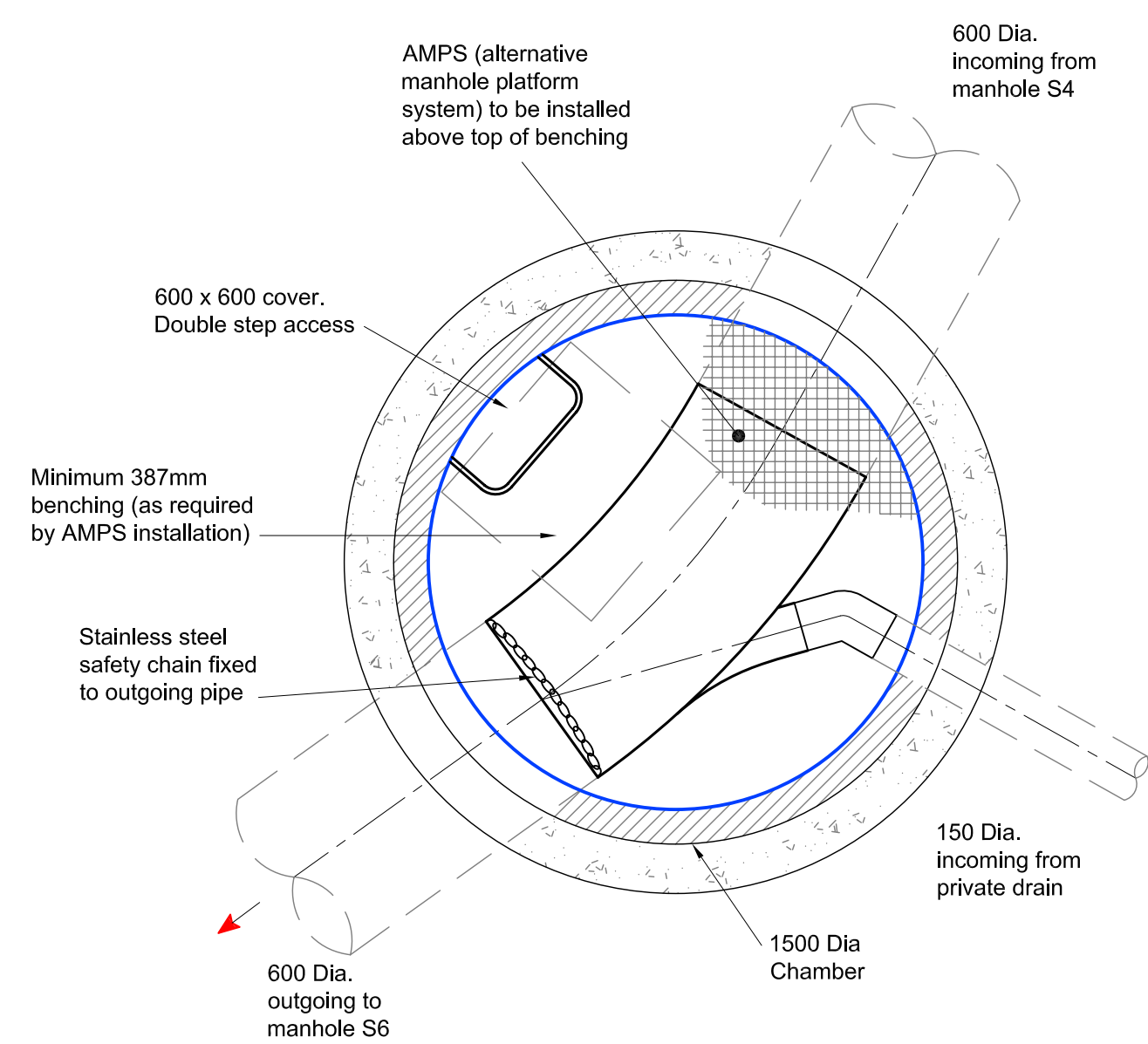
**Manhole S2**  
**Plan**  
Scale 1:20  
CL 74.180  
IL 71.821



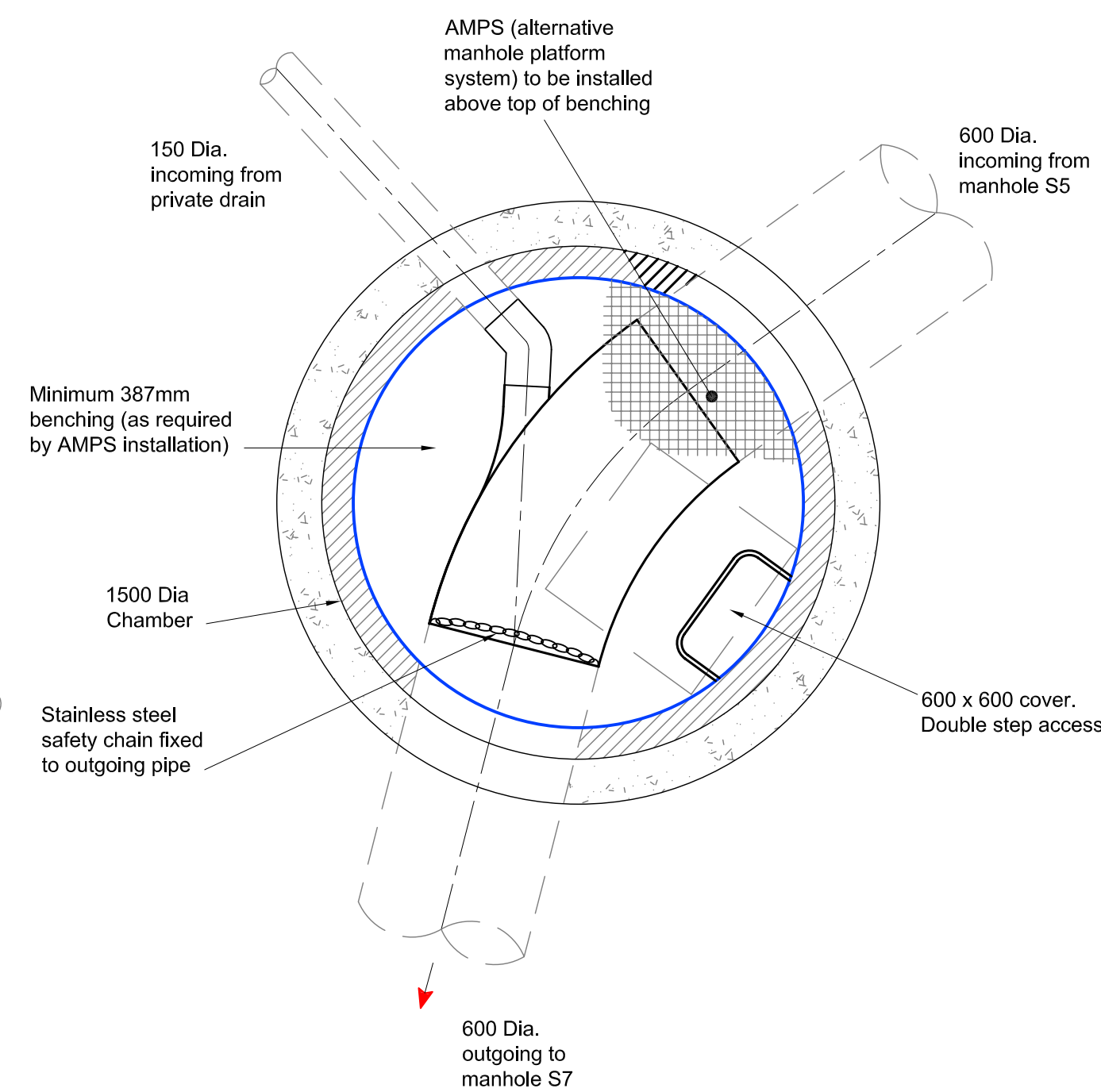
**Manhole S3**  
**Plan**  
Scale 1:20  
CL 75.080  
IL 71.722



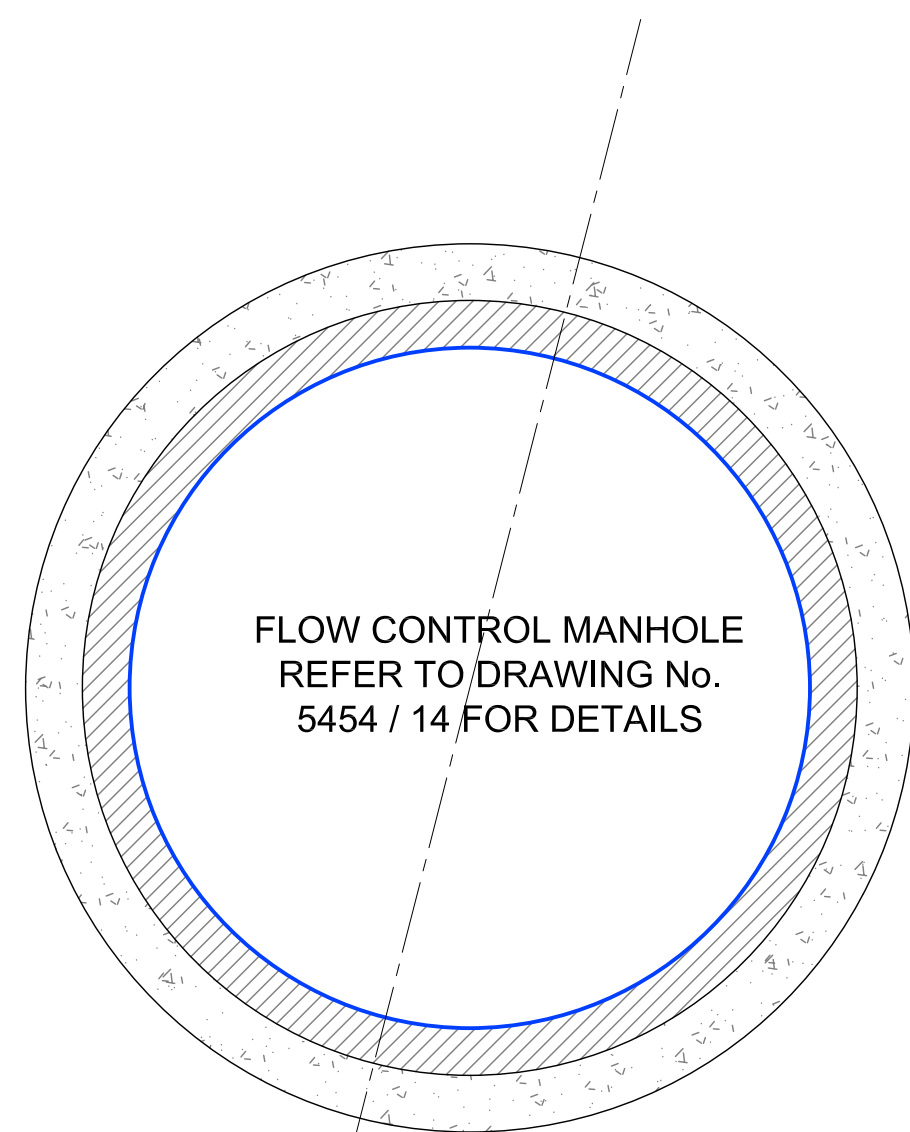
**Manhole S4**  
**Plan**  
Scale 1:20  
CL 77.070  
IL 73.610



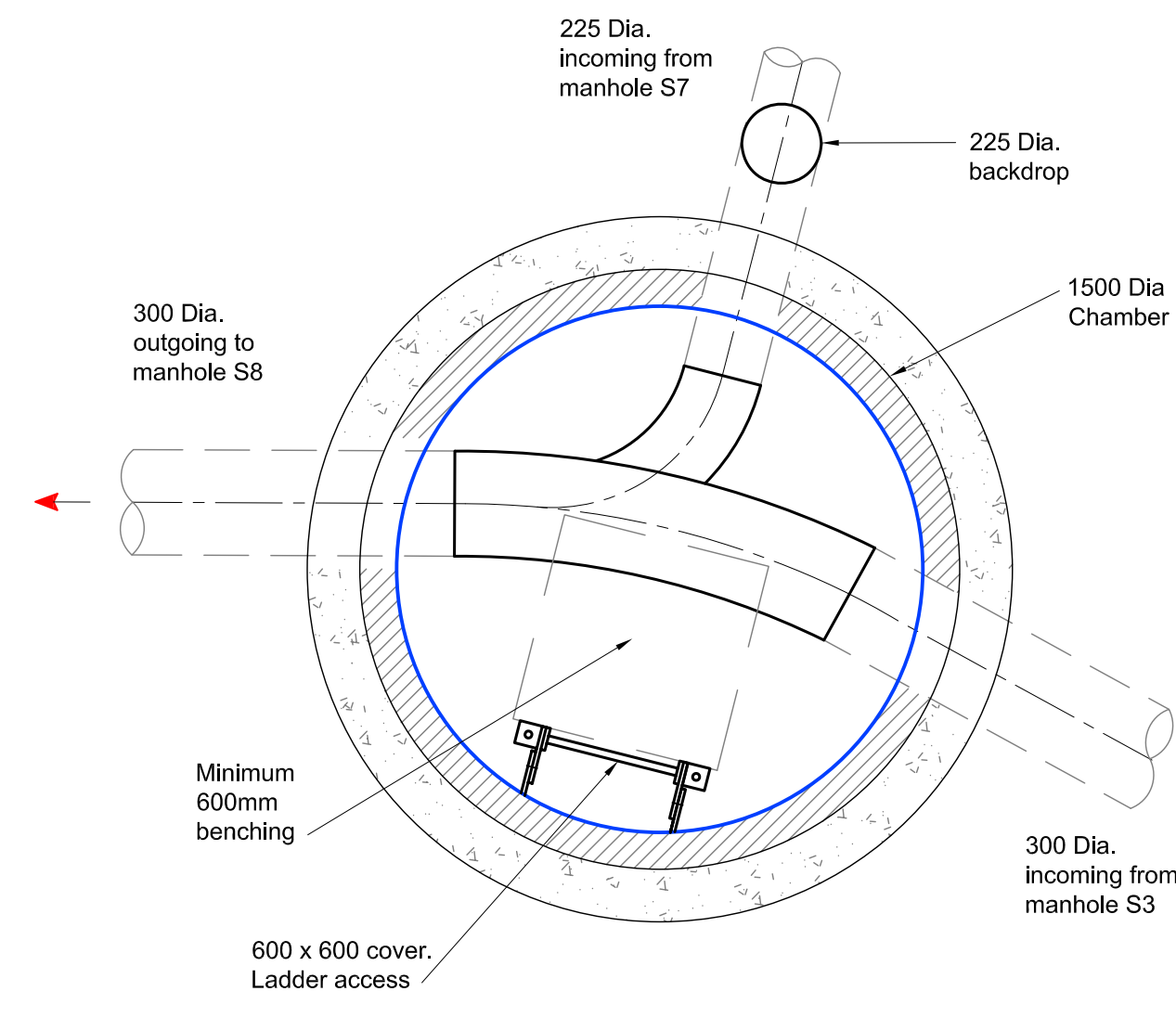
**Manhole S5**  
**Plan**  
Scale 1:20  
CL 77.030  
IL 73.522



**Manhole S6**  
**Plan**  
Scale 1:20  
CL 75.870  
IL 73.435



**Manhole S7**  
**Plan**  
Scale 1:20  
CL 75.420  
IL 73.392



**Manhole S8**  
**Plan**  
Scale 1:20  
CL 75.320  
IL 71.659

## Notes

- All works shall be in accordance with Sewers for Adoption 6th Edition and United Utilities Standard Details and Guidelines.
- Step Rungs shall be installed in accordance to BS EN 13101.
- Manholes shall be to United Utilities Standard Detail STND/01/001. Ladders, Safety chains and Handrailing shall be to Standard Detail STND/01/002. Back-drops shall be to Standard Detail STND/01/003.
- 150mm min concrete surround required for all adopted Manholes.
- Rocker pipes shall be provided in accordance with United Utilities Standard Details.
- Pipe materials as table below or similar approved by United Utilities.

## Pipe Materials Table

| Pipe Materials Table | Pipe Materials Table |
|----------------------|----------------------|
| 150                  | CLAYWARE             |
| 225                  | CLAYWARE             |
| 300                  | CLAYWARE             |
| 375                  | CONCRETE             |
| 450                  | CONCRETE             |
| 600                  | CONCRETE             |
| 750                  | CONCRETE             |
| 900                  | CONCRETE             |
| 1200                 | CONCRETE             |
| 1500                 | CONCRETE             |

## Bedding and Surround Table

| Depth to Soffit | Bedding and Surround Type |
|-----------------|---------------------------|
| >1.2m           | Class S                   |
| <1.2m           | Class Z                   |

## Coopers Drawing List:

|         |                                                  |
|---------|--------------------------------------------------|
| 5399/01 | Proposed Drainage Layout                         |
| 5399/02 | Proposed Drainage Longsections                   |
| 5399/03 | Proposed Highway Layout                          |
| 5399/04 | Proposed Highway Levels                          |
| 5399/05 | Highway Construction Details                     |
| 5399/06 | Drainage Construction Details                    |
| 5399/07 | Manhole Schedule                                 |
| 5399/08 | Private Drainage Layout                          |
| 5399/09 | External Works Layout                            |
| 5399/10 | Section 38 Composite Plan                        |
| 5399/11 | Section 278 Works - Alderley                     |
| 5399/12 | Section 278 Works - Digmoor Road                 |
| 5399/13 | Foul Manhole Details                             |
| 5399/14 | Surface Water Manhole Details                    |
| 5399/15 | Flow Control Manhole Details                     |
| 5399/16 | Section 278 Works - Highway Construction Details |

## APPROVAL



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Web: http://coopers.co.uk

Client  
**Miller Homes**  
Miller Homes Limited - North West Region

Project  
**Primrose Mill, Woone Lane**  
**Clitheroe**

Title  
**Surface Water Manhole Details**  
**Sheet 1 of 3**

| DRAWING NUMBER | SCALE at A1 | DATE    | July 2012 | REVISION |
|----------------|-------------|---------|-----------|----------|
| 5454/12-1      |             | DRAWN   | AJ        | B        |
|                |             | CHECKED | DTC       |          |