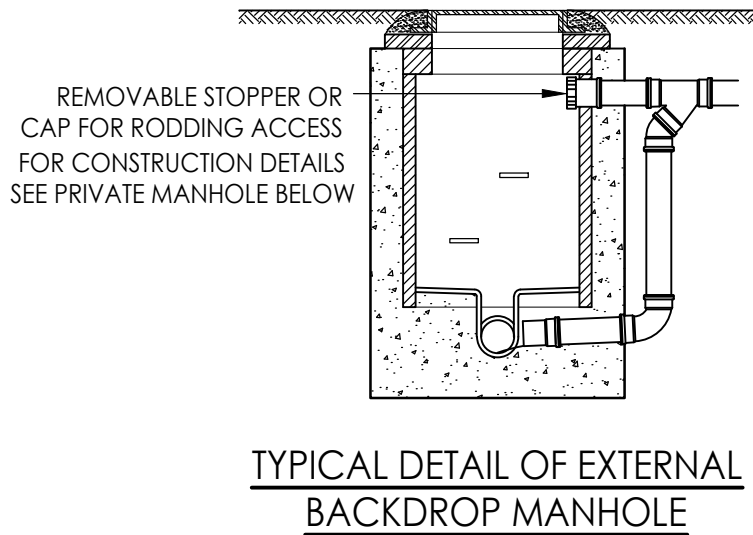
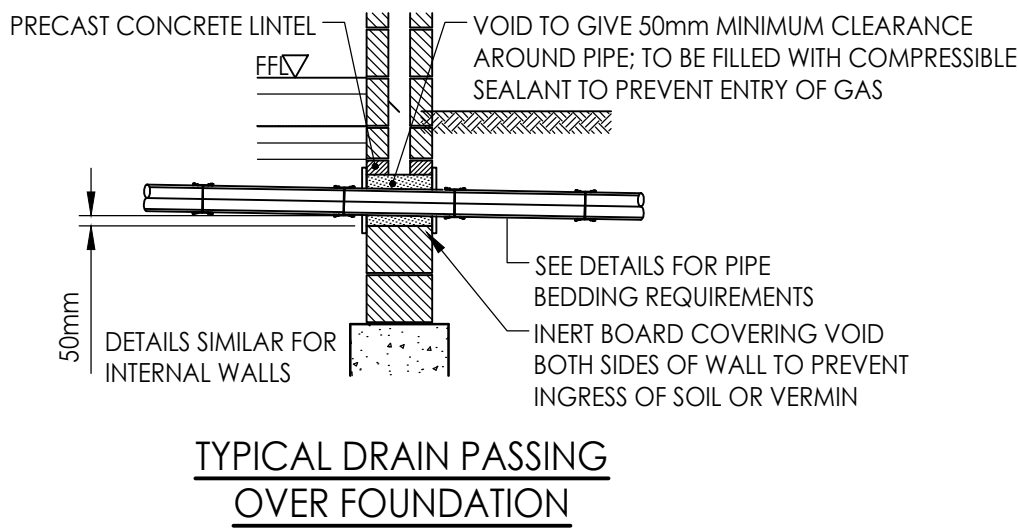
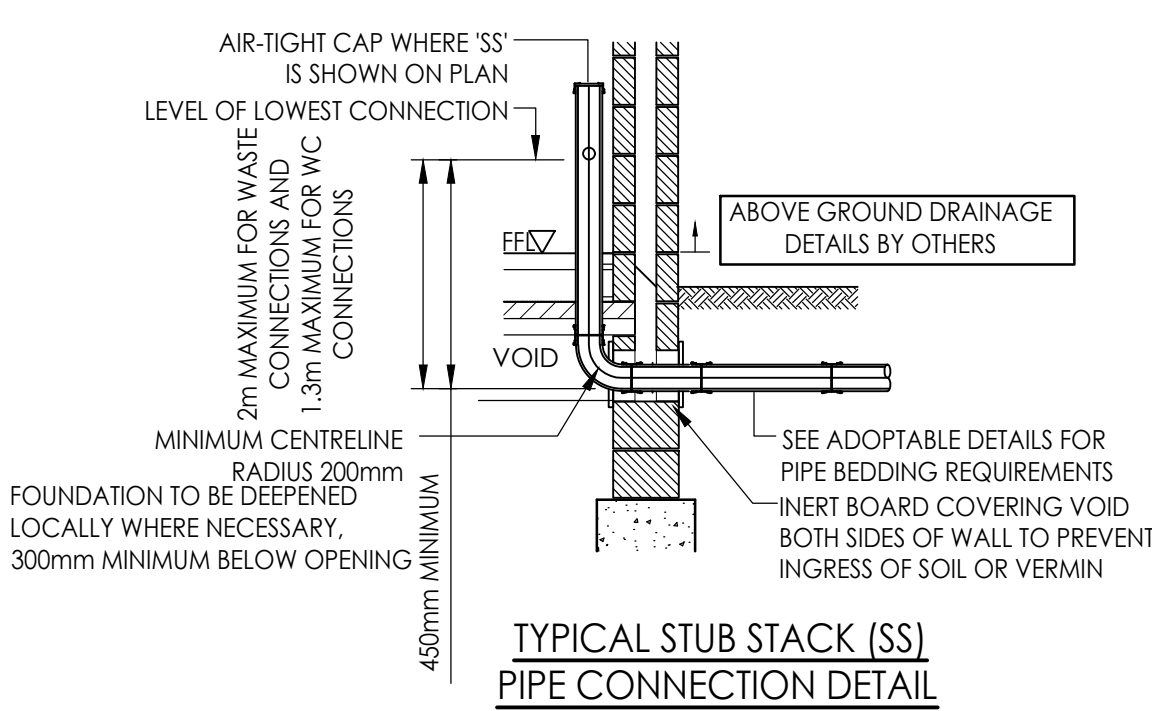
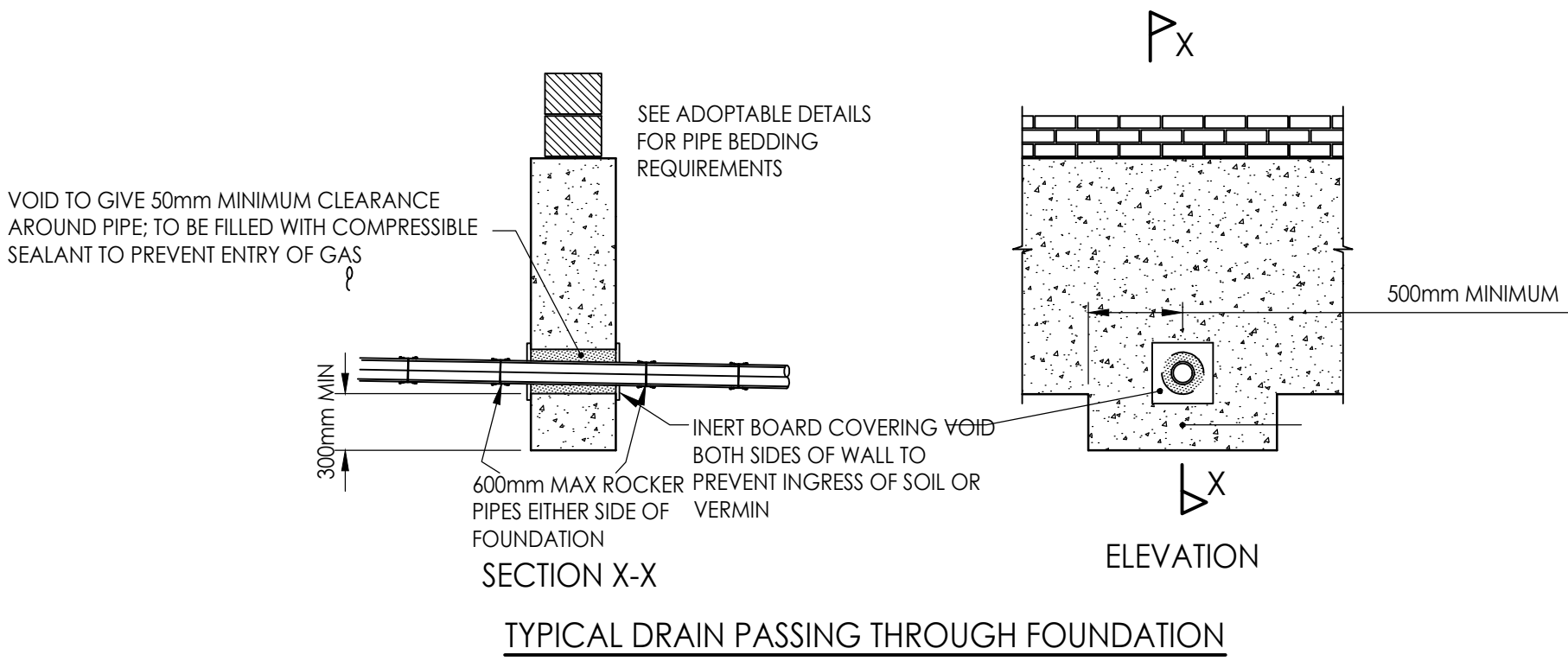


| MINIMUM DIMENSIONS FOR ACCESS FITTINGS AND INSPECTION CHAMBERS                                                                                                                                                                                                                                                    |                                                 |                             |                  |                                                  |                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------|------------------|--------------------------------------------------|-----------------------------------------------|
| TYPE OF ACCESS                                                                                                                                                                                                                                                                                                    | DEPTH TO INVERT FROM COVER LEVEL (m)            | MINIMUM INTERNAL DIMENSIONS |                  | MINIMUM CLEAR OPENING SIZE                       |                                               |
|                                                                                                                                                                                                                                                                                                                   |                                                 | LENGTH x WIDTH (mm x mm)    | CIRCULAR (mm)    | LENGTH x WIDTH (mm x mm)                         | CIRCULAR (mm)                                 |
| RODDING EYE                                                                                                                                                                                                                                                                                                       | -                                               | AS DRAIN BUT 100mm MINIMUM  | -                | -                                                | SAME SIZE AS PIPEWORK <sup>1</sup>            |
| ACCESS FITTING<br>SMALL 150mmØ<br>SMALL 150mmx100mm<br>LARGE 225mmx100mm                                                                                                                                                                                                                                          | 0.6m OR LESS EXCEPT WHERE SITUATED IN A CHAMBER | 150 x 100<br>225 x 100      | 150<br>225       | 150 x 100 <sup>1</sup><br>225 x 100 <sup>1</sup> | SAME SIZE AS ACCESS FITTING                   |
| INSPECTION CHAMBER                                                                                                                                                                                                                                                                                                |                                                 |                             |                  |                                                  |                                               |
| SHALLOW                                                                                                                                                                                                                                                                                                           | 0.6m OR LESS                                    | 225 x 100                   | 190 <sup>2</sup> |                                                  | 190 <sup>1</sup>                              |
| MEDIUM                                                                                                                                                                                                                                                                                                            | 1.2m OR LESS                                    | 450 x 450                   | 450              | MINIMUM 430 x 430                                | 430                                           |
| DEEP                                                                                                                                                                                                                                                                                                              | GREATER THAN 1.2m                               | 450 x 450                   | 450              | MAXIMUM 300 x 300 <sup>3</sup>                   | ACCESS RESTRICTED TO 350 MAXIMUM <sup>3</sup> |
| NOTES:<br>1. THE CLEAR OPENING MAY BE REDUCED BY 20mm IN ORDER TO PROVIDE PROPER SUPPORT FOR THE COVER AND FRAME.<br>2. DRAINS UP TO 150mm DIAMETER.<br>3. A LARGER CLEAR OPENING COVER MAY BE USED IN CONJUNCTION WITH A RESTRICTED ACCESS. THE SIZE IS RESTRICTED FOR HEALTH AND SAFETY REASONS TO DETER ENTRY. |                                                 |                             |                  |                                                  |                                               |

| MINIMUM DIMENSIONS FOR MANHOLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           |                                          |                                |                                         |                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------|--------------------------------|-----------------------------------------|------------------------|
| TYPE OF ACCESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | SIZE OF LARGEST PIPE (DN) | MINIMUM INTERNAL DIMENSIONS <sup>1</sup> |                                | MINIMUM CLEAR OPENING SIZE <sup>1</sup> |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           | RECTANGULAR LENGTH x WIDTH (mm x mm)     | CIRCULAR DIAMETER (mm)         | RECTANGULAR LENGTH x WIDTH (mm x mm)    | CIRCULAR DIAMETER (mm) |
| MANHOLE<br>LESS THAN 1.5m DEEP TO SOFFIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LESS THAN OR EQUAL TO 150 | 750 x 675 <sup>7</sup>                   | 1000 <sup>7</sup>              | 750 x 675 <sup>2</sup>                  | N/A <sup>3</sup>       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 225                       | 1200 x 675                               | 1200                           | 1200 x 675 <sup>2</sup>                 |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 300                       | 1200 x 750                               | 1200                           |                                         |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | GREATER THAN 300          | 1800 x (DN+450)                          | THE LARGER OF 1800 OR (DN+450) |                                         |                        |
| MANHOLE<br>GREATER THAN 1.5m DEEP TO SOFFIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | LESS THAN OR EQUAL TO 225 | 1200 x 1000                              | 1200                           | 600 x 600                               | 600                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 300                       | 1200 x 1075                              | 1200                           |                                         |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 375-450                   | 1350 x 1225                              | 1200                           |                                         |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | GREATER THAN 450          | 1800 x (DN+775)                          | THE LARGER OF 1800 OR (DN+775) |                                         |                        |
| MANHOLE SHAFT <sup>4</sup><br>GREATER THAN 3.0m DEEP TO SOFFIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | STEPS <sup>5</sup>        | 1050 x 800                               | 1050                           | 600 x 600                               | 600                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LADDER <sup>5</sup>       | 1200 x 800                               | 1200                           |                                         |                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | WINCH <sup>6</sup>        | 900 x 800                                | 900                            | 600 x 600                               | 600                    |
| NOTES:<br>1. LARGER SIZES MAY BE REQUIRED FOR MANHOLES ON BENDS OR WHERE THERE ARE JUNCTIONS<br>2. MAY BE REDUCED TO 600mmx600mm WHERE REQUIRED BY HIGHWAY LOADING CONSIDERATIONS, SUBJECT TO A SAFE SYSTEM OF WORK BEING SPECIFIED<br>3. NOT APPLICABLE DUE TO WORKING SPACE NEEDED<br>4. MINIMUM HEIGHT OF CHAMBER IN SHAFTED MANHOLE 2m FROM BENCHING TO UNDERSIDE OF REDUCING SLAB<br>5. MINIMUM CLEAR SPACE BETWEEN LADDER OR STEPS AND THE OPPOSITE FACE OF THE SHAFT SHOULD BE APPROXIMATELY 900mm<br>6. WINCH ONLY - NO STEPS OR LADDERS, PERMANENT OR REMOVABLE<br>7. THE MINIMUM SIZE OF ANY MANHOLE SERVING A SEWER (i.e. ANY DRAIN SERVING MORE THAN ONE PROPERTY) SHOULD BE 1200mmx675mm RECTANGULAR OR 1200mm DIAMETER. |                           |                                          |                                |                                         |                        |

| TABLE SHOWING PRIVATE MANHOLE/INSPECTION CHAMBER COVER GRADES AND AREAS OF USE |                                                                                                                                                                         |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| COVER GRADE TO BS EN 124                                                       | LOCATION                                                                                                                                                                |
| D400                                                                           | FOR USE IN INDUSTRIAL ROADS AND PARKING AREAS ACCESSIBLE TO ALL TYPES OF ROAD VEHICLES INCLUDING HGVs                                                                   |
| C250*                                                                          | FOR USE IN PRIVATE ROADS OR PARKING AREAS, e.g. CAR PARKS AND MINOR PRIVATE ROADS ACCESSIBLE TO REFUSE VEHICLES, FIRE APPLIANCES, etc, WITH POSSIBLE OCCASIONAL HGV USE |
| B125                                                                           | FOR USE IN FOOTWAYS, PEDESTRIAN AREAS, DRIVEWAYS AND CAR PARKS ACCESSIBLE BY LIGHT VEHICLES ONLY                                                                        |
| A15                                                                            | FOR USE IN AREAS WHICH CAN BE USED ONLY BY PEDESTRIANS AND PEDAL CYCLISTS                                                                                               |
| * D400 MAY BE USED IN LIEU OF C250 IF PREFERRED                                |                                                                                                                                                                         |



ALL PRODUCTS REFERENCED WITHIN THIS DRAWING CAN BE CHANGED TO ALTERNATE PRODUCTS SUBJECT TO APPROVAL OF THE ENGINEER

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| A   | 19.06.19 | AMENDED DRAWING LAYOUT |  | BC    | JPP      |
| REV | DATE     | AMENDMENT DETAILS      |  | DRAWN | APPROVED |

|                                                                       |                      |                               |  |
|-----------------------------------------------------------------------|----------------------|-------------------------------|--|
| PROJECT<br>PINFOLD LANE, WESTON<br>LINCOLNSHIRE                       | DATE<br>29.03.19     | DRAWING STATUS<br>INFORMATION |  |
|                                                                       | SCALE(S)<br>JS       | DESIGNED<br>BC                |  |
| DRAWING TITLE<br>PRIVATE DRAINAGE STANDARD<br>DETAILS<br>SHEET 2 OF 2 | AS SHOWN             | CHECKED<br>JPP                |  |
|                                                                       | JOB No<br>1489       | APPROVED<br>JPP               |  |
| CLIENT<br>BROADGATE HOMES LTD                                         | DRAWING No<br>02/003 | REVISION<br>A                 |  |

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