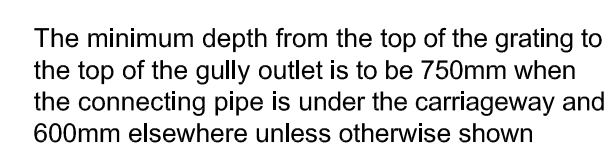


**Notes**

1. Type 1 crossing to be used when dimension "Y" is less than 300mm.
2. All dimensions are in millimetres.
3. This detail to be used where two new pipes are to be laid.
4. The extent of the continuous concrete bed on the upper pipeline is such that it is founded on a firm undisturbed ground for a min length of 100mm along the line of the upper pipeline either side of the trench limit of the lower pipeline.
5. The concrete arch must also extend as far as the first pipe joint on either side of the crossing.
6. All concrete to be Class 20(20)/SR

### PIPE RUNS NEAR BUILDING FOUNDATIONS

| Filler Board Thickness    |                |
|---------------------------|----------------|
| Nominal bore of pipe (mm) | Thickness (mm) |
| Less than 450             | 18             |
| 450 - 1200                | 35             |
| Exceeding 1200            | 54             |



SCALE NTS

|                                                                                                                                                                                                                                           |           |                     |       |              |                                                               |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------|-------|--------------|---------------------------------------------------------------|---------|
| P0                                                                                                                                                                                                                                        | 23-07-15  | PLANNING ISSUE      | J.E.  | J.P.         | J.P.                                                          | D.H     |
| Rev                                                                                                                                                                                                                                       | Rev. Date | Purpose of revision | Drawn | Checked      | Rev'd                                                         | Apprv'd |
| <div style="text-align: center;">  <p>1 City Walk, Leeds, LS11 9DX<br/>Tel: +44(0)113 242 6771 Fax: +44(0)113 389 1389<br/>www.jacobs.com</p> </div> |           |                     |       |              |                                                               |         |
| <div style="text-align: center;"> <p>Client</p> <p>POLICE AND CRIME<br/>COMMISSIONER OF NORTH WALES</p> </div>                                                                                                                            |           |                     |       |              |                                                               |         |
| <div style="text-align: center;"> <p>Project</p> <p>EASTERN COMMAND<br/>AND CUSTODY FACILITY</p> </div>                                                                                                                                   |           |                     |       |              |                                                               |         |
| <div style="text-align: center;"> <p>Drawing title</p> <p>DRAINAGE DETAILS<br/>SHEET 2 OF 3</p> </div>                                                                                                                                    |           |                     |       |              |                                                               |         |
| <div style="text-align: center;"> <p>Drawing status</p> <p>FOR PLANNING</p> </div>                                                                                                                                                        |           |                     |       |              |                                                               |         |
| Scale                                                                                                                                                                                                                                     | NTS @ A1  |                     |       | DO NOT SCALE |                                                               |         |
| Jacobs No.                                                                                                                                                                                                                                | B1305210  |                     |       |              |                                                               |         |
| Client no.                                                                                                                                                                                                                                |           |                     |       |              |                                                               |         |
| <div style="text-align: center;"> <p>Drawing number</p> <p>B1305210/CE/170.003</p> </div>                                                                                                                                                 |           |                     |       |              | <div style="text-align: center;"> <p>Rev</p> <p>P0</p> </div> |         |
| <p>This drawing is not to be used in whole or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.</p>                                                   |           |                     |       |              |                                                               |         |