

DO NOT SCALE



Railway Line

12m stand off

Pendleton
(Day Centre)

Woone Lane

69.2m

Wei

Legend

- Site Boundary
- Existing
- Existing Combined Sewer
- Sewer Easment
- Proposed
- Adoptable Surface Water Sewer
- Adoptable Foul Sewer
- Adoptable Combined Sewer
- Flow Control Manhole
- Highway Gully
- Plot Slab Level

Note:

- All levels are in metres related to OS Datum indicated on plan
- All co-ordinates are in metres based on a local grid orientated north
- Proposed Highway contours are displayed at 50mm intervals

Vortex Flow control to be installed in Manhole S19 fitted to outgoing pipe. Flow control to be Type MDS Hydrobrake by Hydro International with the following design parameters:
Design Flow Rate 82%
Design Head 2.50m
Orifice Diameter 300mm

Vortex Flow control to be installed in Manhole S7 fitted to outgoing pipe. Flow control to be Type MDS Hydrobrake by Hydro International with the following design parameters:
Design Flow Rate 6.5%
Design Head 1.25m
Orifice Diameter 100mm

Notes

- Setting out shall be undertaken using only the information given. Distances should not be scaled from this drawing.
- All sewers shall be constructed in accordance with Sewers for Adoption 6th Edition and United Utilities Details & Guidelines.
- The minimum gravity pipe diameter under adoptable highways shall be 150mm
- It is the responsibility of the Contractor to verify all information given with regards to existing services and drainage connections etc. prior to commencing the works. The rates shall include for hand dig around services where necessary. The Contractor shall adhere to the CDM Regulations at all times
- The outfalls of all sewers shall be a minimum of 1.0m from kerb lines and the outside of manholes shall be a minimum of 0.5m from kerb lines
- Existing flows in watercourses, sewers and land drains shall be maintained at all times
- Only trained personnel shall be permitted to enter confined spaces
- All materials to bear the relevant B.S. Kitemark and comply fully with the specifications. All concrete & concrete products must use Sulphate resistant cement to withstand Class 3 condition (unless the site investigation report proves that sulphate attack from soils and groundwater will not occur).
- All opening notices etc. as required under Highways Acts etc. are to be obtained prior to commencement of works. All works are to be inspected by L.A., NHBC or the Network Operator as applicable.
- Where "Ultra Rib" UPVC pipes (or similar approved) are used in adoptable drainage they shall be handled and laid in accordance with the manufacturers instructions and will be subject to post installation deformation testing prior to adoption. A Class S Bed and Surround must be used for "Ultra Rib" pipes
- Trench backfill in highways to within 1m of highway shall, as directed by the Highway Authority be a suitable granular material all in accordance with Sewers for Adoption.
- Slab levels shall not be varied without reference to the Engineer for guidance.
- Pipes have not been designed to accommodate construction traffic loading. The contractor is responsible for providing adequate protection to the pipes during construction.

APPROVAL

coopers
chartered consulting engineers
Tel: 01244 684910
Fax: 01244 684911
Email: admin@coopers.co.uk
Web: http://coopers.co.uk

Client

miller homes
Miller Homes Limited - North West Region

Project

Primrose Mill, Woone Lane
Clitheroe

Title

Drainage Layout

Coopers Drawing List:

- 545401 Proposed Drainage Layout
- 545402 Proposed Drainage Longsections
- 545403 Proposed Highway Setting Out
- 545404 Proposed Highway Layout
- 545405 Proposed Highway Levels
- 545406 Highway Construction Details
- 545407 S39 Agreement Layout
- 545408 Private Drainage Layout
- 545409 Drainage Construction Details
- 545410 Manhole Schedules
- 545411 External Works Layout
- 545412 Surface Water Manhole Details
- 545413 Foul Manhole Details
- 545414 Flow Control Manhole Details
- 545415 Surface Water Catchment Areas
- 545416 100yr Extreme Flood Routing Plan

DRAWING NUMBER
5454/01

SCALE at A0 1:250
DATE June 2012
DRAWN AJ
CHECKED DTC
REVISION B