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Contractors must verify all dimensions, levels and co-ordinates at the site before commencing any work or making any shop drawings; no dimensions to be taken from drawing.

1. Drawing to be read in conjunction with all other relevant Engineers and Architects details.
2. All works to be carried out in accordance with the current British Standards, Codes of Practice, Building Regulations and Sewers for Adoption 6th Edition.
3. The exact position, level, size and use of existing sewers to be confirmed on site and any discrepancies are to be reported to the Engineer prior to the commencement of the works.
4. All uncovered and shallow pipework to be protected from construction traffic as part of the Contractors temporary works requirement.
5. All connections to road gullies to be 150mm diameter.
6. All on site pipework to be Polypipe Polysewer (150-300mm dia) and Ridgisewer (375mm dia) to BS EN 1401.
7. All pipework entering and exiting manholes to have level soffits.
8. Pre-formed channels to be used at all manholes.
9. High strength concrete benching to be steel trowelled to a dense smooth face neatly shaped and finished to all branch connections and laid in accordance with the specification.
10. Pipe bends to be provided in direction of flow.
11. All manhole covers and frames to be heavy duty ductile iron grade D400 double triangular to BS EN124 unless noted otherwise.
12. First flexible joint to pipes adjacent manhole shall be 600mm maximum from nside face of manhole connecting to a rocker pipe. Rocker pipe length to be 600mm.
13. All soft spots encountered in the trench formation to be removed and replaced with graded granular material.
14. Discharge rates for surface water from the site to the adoptable sewer have been calculated as at least a 30% reduction on the allowable discharge rates as stated in the S104 agreement for the adoptable network. The maximum modelled discharge rates are as follows:
    - 1 year = 84.8 l/s
    - 30 year = 212.0 l/s
    - 100 + 30% c/c = 293.2 l/s

Rev	Description	Drn	Vf'd	Date
P3	Layout amended to latest GA from Architect.	CM	AG	02/18
P2	Layout amended to latest GA, issued for planning	CM	AG	01/18
P1	Initial issue for comment	CM	AG	01/18

As outlined in section 2.3 of the CITB Industry Guidance to Designers, insignificant risks can usually be ignored, as can risks arising from routine construction activities, unless the design compounds or significantly alters these risks. In accordance with CDM Regulations 8, 9 and 11, any significant risks relating to the design features shown on this drawing have been identified and are annotated thus: [ ]

☒ No significant risks have been identified.

☐ Significant risks have been identified - refer to notes on drawing for information on residual risks and any control measures to be employed.

Refer to the current Designer's Risk Assessment sheets for further details.

Designer's Signature CM | Date 01/18

Drawing Status
PLANNING ISSUE

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Project
PLOT 4B ASHROYD BUSINESS PARK
ASHROYD WAY
HOYLAND
BARNSLEY

Client
NETWORK SPACE LTD

Title
DRAINAGE LAYOUT

WmS Project Ref.	Drawn	Date	Scale	
11716	CM	24.01.18	1:200	@ A1

Drawing/Document Reference
Project Originator Zone Level Type Role Number Status Rev.
11716 - WMS - ZZ - XX - DR - C - 39201 - S8 - P03

Ex MH
IL 147.29
375mm Ø stub @ 1119
150mm Ø stub @ 1180
Ex MH
150mm Ø stub
Ex MH
Existing stub 375mm Ø
Ex MH
S12
PN 2.003 375mm Ø
PN 5.004 225mm Ø
PN 1.000 150mm Ø
PN 5.003 225Ø
S11
S8
NSBP004 CLASS 1 BYPASS SEPARATOR AND ALARM
PN 2.001 375mm Ø
NSFA CLASS 1 FULL RETENTION SEPARATOR AND ALARM
PN 5.001 225Ø
S10
S3
PN 3.002 225mm Ø
F2
S7
F1
PN 3.000 225mm Ø
S2
PN 2.000 225mm Ø
S1
ACO ROADDRAIN PD 200 F20.1 WITH GULLY UNIT
ACO ROADDRAIN PD 200 F20.1 WITH GULLY UNIT
PN 5.000 225Ø
IL 149.83
ACO ROADDRAIN PD 100 F30.1 WITH GULLY UNIT
PN 4.002 225mm Ø
GEOCELLULAR ATTENUATION TANK WRAPPED IN IMPERMEABLE MEMBRANE = 7.0m x 5.0m x 0.8m DEEP TANK IL = 147.559
S6
PN 4.001 225mm Ø
S5
PN 4.000 225mm Ø
S4
DIVERTED LAND DRAINAGE IN FRENCH DRAIN
DIVERTED LAND DRAINAGE IN FRENCH DRAIN

Key:
- Proposed private foul water drain
- Proposed private surface water drain
- Proposed foul inspection chamber / manhole
- Proposed surface water sewer inspection chamber / manhole
- Proposed land drain / french drain