MH01 Existing
CL 32.86
IL 31.09 Site measured.
OUTFALL DIRECTION AND IL TO BE CONFIRMED PRIOR TO CONSTRUCTION OF DRAINAGE WORKS TO CONFIRM IF CONNECTION IS REQUIRED AND ENSURE CONNECTION CAN BE MADE TO THE FUTURE OUTFALL

Gully rebuilt to redirected outfall to surface water diversion

CHANNEL DRAIN AND PIPE OUTFALL CONNECTION TO BE CONFIRMED PRIOR TO CONSTRUCTION OF DRAINAGE WORKS TO CONFIRM IF CONNECTION IS REQUIRED AND ENSURE CONNECTION CAN BE MADE TO THE FUTURE OUTFALL

MH02
CL 32.90
IL 31.039

MH EX
CL 32.91
IL 30.94

MH11 SW flow control limiting discharge to 5 l/s, and associated storage in pipe
CL 32.89
IL 30.867

MH03
CL 32.80
IL 30.825

MH10
CL 32.80
IL 31.001

MH
TBC

150Ø spur from manhole for future connection

MH04 Existing
TO BE REBUILT
CL 32.66
IL 30.720
IL of existing manhole to be confirmed

United Utilities MH 0804
SL 32.76
Site measured IL 29.74

MH13
CL 32.93
IL 30.737
Ex IL TBC

Effluent pumping chamber.
Effluent is pumped to the Effluent Treatment Plant (ETP), treated and discharged into the United Utilities sewer network under Trade Effluent Agreement

MH12
CL 32.92
IL 30.773

MH14
CL 32.95
IL 30.535

MH15
CL 32.84
IL 30.389
Ex IL TBC

MH16
CL 32.94
IL 30.34 TBC

MH17
CL 32.97
IL TBC

MH05 Existing
CL 32.70
REBUILT UNDER SERVICE ROAD CONTRACT
IL 30.650

United Utilities MH 9801
Shown on sewer records as :
CL 32.89
Site measured IL = 29.49
IL 29.885 (225Ø)

DPV Block
Drainage Layout Plan
1:200

Construction Notes

1. The Contractor shall verify all dimensions and existing conditions on site prior to commencing the works. Any discrepancies noted on site are to be reported to the Engineer immediately.
2. For details of ground conditions refer to Ground Investigation Report. The Engineer shall be immediately notified of any variations to the reported ground conditions.The Contractor is to supply a full method statement for the traffic management and control of pedestrian routes.
3. The Contractor shall undertake a condition survey of the adjacent structures, footpaths and roadways. Any damage caused by the contractor to be made good to the Engineers requirements.
4. The Contractor shall locate, identify and protect all existing services prior to the commencement of the Works. Protective measures shall be undertaken in accordance with the utility providers requirements.
5. The contractor shall work within any Planning Authority restriction with regard to working hours, noise regulations and any other limitations that may apply.
6. All works are to be undertaken in accordance with the requirements of the Specification for Highway Works.
7. All drainage works to be undertaken in accordance with the current British Standards and Building Regulations.
8. For pipe materials, refer to the key.
9. Connections to be made by purpose made junctions as far as practicable, or using pipe bends to be turned in direction of flow. Pre-formed channels are to be used in manholes where applicable.
10. All pipes entering and exiting manholes are to be connected with pipe soffits level unless noted otherwise.
11. The first manhole upstream from the connection to the connection to the existing drainage should be fitted with a screen in order to prevent debris entering the existing sewer/drain. The screen should not be removed until immediately prior to the occupation of the premises to be served by the sewer.
12. Road gully connections to be 150mm diameter laid at a minimum gradient of 1:150 unless noted otherwise.
13. All drains to be tested prior to backfilling, and upon completion of surfacing. All drains to be inspected by CCTV immediately prior to practical completion.
14. The Contractor is to undertake a CCTV survey of the United Utilites combined sewer which runs through the works, both before the works commence and following completion of the works.

KEY

- UNITED UTILITIES COMBINED SEWER
- PRIVATE FOUL/EFFLUENT DRAIN
- PRIVATE SURFACE WATER DRAIN
- PROPOSED EFFLUENT WATER DRAIN GRADE 316 STAINLESS STEEL
- PROPOSED ROOF WATER DRAIN EITHER HEPWORTH SUPERSLEVE OR GRADE 316 STAINLESS STEEL
- PROPOSED SURFACE WATER DRAIN CLAYWARE
- REDUNDANT DRAIN TO BE REMOVED OR FILLED WITH LEAN MIX CONCRETE

Print Date and Time: 18/12/2017 14:08:53

General Notes:

1. The drawings, design and all information contained therein are the sole copyright of Norder Design Associates (NDA) and reproduction in any form is forbidden unless permission is obtained in writing.
2. This drawing is to be read in conjunction with all other relevant Architects, Engineers and specialists drawings, details and specifications.
3. Conflicting information shown on the NDA drawings or discrepancies between the information given by NDA and that provided by others must be referred to NDA before work proceeds.
4. Dimensions must not be scaled from this drawing.
5. Dimensions marked 'dimension to be site checked' are subject to confirmation by site measurement before construction proceeds.
6. Subcontractor surveys, such as for the purposes of steelwork installation, take precedence over `site dimensions' indicated on this drawing. All surveys should ensure an accurate fit of components.
7. Temporary works associated with the construction of the project shall be the responsibility of the Principal Contractor.
8. Where any temporary works or scaffolding are required the Principal Contractor shall appoint a competent and suitably experienced Temporary Works Coordinator (TWC). Refer to BS 5975 for guidance on temporary works and the role of a TWC.
9. Calculations and drawings of all Contractor designed structural items associated with NDA's design responsibilities shall be submitted to the Engineer for comment at least 10 days prior to manufacture. Any comments made by NDA do not absolve the Contractor of his design responsibilities.

EFFLUENT TREATMENT PLANT

Effluent treatment plant :

Treated effluent discharges to foul sewer in Denmark Road at a rate not exceeding 60 l/s with a maximum amount of trade effluent in a 24 hour day not exceeding 5,130m³.
Average daily discharge through August was 2,143m³ and September 2020 was 1,888m³

PRINCESS ROAD

FLOOD EXCEEDANCE ROUTE

Effluent pumping chamber.
Effluent is pumped to the Effluent Treatment Plant (ETP), treated and discharged into the United Utilities sewer network under Trade Effluent Agreement

Site Boundary

Overview of Site Arrangement
1:500

REV	DATE	AMENDMENT	BY
P1	26.02.21	Preliminary Issue	AF

CLIENT

HEINEKEN

PROJECT

Manchester Brewery
DPV Building

DRAWING TITLE

Proposed Drainage Layout

FOR PLANNING

NORDER
Consulting Engineers and Architects
Beech Lawn, Green Lane, Belper, Derby DE56 1BY
Tel: 01773 824414 Fax: 01773 823305
e-mail: enquiries@norder.co.uk

SCALE	SHEET SIZE A1	
AS SHOWN		
DATE	DRAWN	CHECKED
Feb 2021	AF	RSP

DRAWING NO. 8540-NDA-XX-XX-DR-C-1014 REV P1