"RESIDUAL HAZARD REGISTER (RELATES TO CIVIL/STRUCTURAL MATTERS ONLY)
MUST BE READ IN CONJUNCTION WITH CURTINS RESIDUAL HAZARD REGISTER 074031-CUR-00-XX-HA-Z-00002.
HAZARDS THAT SHOULD BE OBVIOUS TO A COMPETENT CONTRACTOR HAVE NOT BEEN INDICATED ON THIS DRAWING. SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED, THE CONTRACTOR SHOULD NOTIFY ALL RELEVANT PROJECT TEAM MEMBERS."

HAZARD REGISTER

Hazard Ref.	Item (Feature, Element or Activity)	Potential Hazard Identified	Action (Information to Assist Control)
1.00 Enabling / Highwayworks			
1.01	Working adjacent/within Live Highway	Risk to construction workers and equipment.	Construction Management Plan to assess edge protection, access routes and appropriate activities within proximity to live highway interface.
3.00 Existing Buried & Overhead Services			
3.01	Existing Live Services	Reduce	Carry out additional surveys and investigations to locate and protect the services in co-ordination with Services Engineer/Statutory Undertakers.
4.00 Demolition of Existing Structures / Site Clearance			
4.01	Contaminated Land	Risk to construction workers via inhalation or ingest. Risk to controlled waters.	Contractor to review specific site investigation report and determine what measures are required for removing spoil from site.
4.02	Ground Gas	Risk to construction workers via inhalation.	Contractor to review specific site investigation report and determine what measures are required for working within any confined spaces within excavations.
4.03	Existing Needles	Injury Risk to Construction Workers	Contractor to ensure appropriate PPE and personnel are used to appropriately manage and discard of existing needles.
5.00 Excavations and Foundations			
5.01	Deep excavations >3m deep	Excavation Stability	Sequencing of works to be considered and appropriate retention and protection

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. DESIGN BASED ON TOPOGRAPHICAL SURVEY AND CCTV SURVEY INFORMATION AVAILABLE AT THE TIME OF DESIGN.
3. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
4. ALL DIMENSIONS ARE IN METRES AND LEVELS IN METRES ABOVE ORDNANCE DATUM UNLESS OTHERWISE NOTED.
5. FOR GENERAL NOTES REFER TO DRAWING 074031-CUR-00-XX-DR-C-92620

DRAWING BASED ON:

TOPOGRAPHICAL SURVEY
- BY: SEP, SEP111190L, DATED NOVEMBER 2019.
- BY: LAYER SURVEYS LTD 1631 DATED APRIL 2023

CCTV SURVEY
- CCTV SURVEY BY: LAYER SURVEYS, LAY0243, DATED NOVEMBER 2019.

UU RECORDS
- UUPS-ORD-122012, DATED 06.09.19.

SITE LAYOUTS
- ARCHITECT SITE LAYOUT: T8170G0030I1. RECEIVED 07/12/23.
- ARCHITECT SITE SERVICES: T8170R004211. RECEIVED 07/12/23

REQUIRED INFORMATION
- BUILDING FOUNDATIONS

UUMH9601
CL: 85.53
IL: 79.92

COVER LEVELS DEPENDANT ON PHASE 2 WORKS TYING INTO EXISTING GROUND LEVELS. FURTHER WORK

C02-1500Ø
CL: 85.50
BDIL:83.43
IL: 80.89
NEW MANHOLE TO BE CONSTRUCTED ON EXISTING PUBLIC SEWER. S106 APPLICATION REQUIRED WITH UNITED UTILITIES.
PART 1: BY CURTINS
PART 2: BY CONTRACTOR

S13-1500Ø
CL:85.34
IL:83.37
1 YEAR = 5.6l/s
30 YEAR = 6.9l/s
100YEAR + 45%CC = 20.3l/s
HYDROBRAKE DISCHARGE 5.6L/S
CTL-SHE-0118-5600-0500-5600
OVERFLOW PIPE WITH ORIFICE PLATE SET ABOVE 1:30YEAR STORM EVENT. IL: 84.534
ORIFICE OPENING 0.073m

S1-6000Ø CL: 85.49 IL: 84.37
S2-6000Ø CL: 86.25 IL: 84.04
S3-12000ØCP CL: 86.34 IL: 83.91
S4-12000ØCP CL: 86.32 IL: 83.84
S6-6000Ø CL: 85.92 IL: 84.50
S7-12000Ø CL: 86.11 IL: 83.78
S8-6000Ø CL: 85.32 IL: 84.27
S9-6000Ø CL: 85.36 IL: 84.03
S10-12000Ø CL: 85.55 IL: 83.38
S11-4500Ø CL: 85.22 IL: 84.44
S12-6000Ø CL: 85.50 IL: 84.36
S13-1500Ø CL:85.34 IL:83.37
S14-4500Ø CL: 85.74 IL: 85.01
S15-6000Ø CL: 85.46 IL: 84.51
S16-6000Ø CL: 85.51 IL: 84.41
S17-4500Ø CL: 86.07 IL: 85.16
S18-6000Ø CL: 86.08 IL: 84.83
S19-6000Ø CL: 86.57 IL: 85.33
S20-6000Ø CL: 86.82 IL: 85.13
S21-6000Ø CL: 86.83 IL: 84.92

C01-1200Ø CL: 85.24 BDIL: 84.12 IL: 83.28
F1-6000Ø CL: 86.06 IL: 85.24
F2-6000Ø CL: 85.99 IL: 85.17
F3-6000Ø CL: 85.76 IL: 84.95
F4-6000Ø CL: 85.69 IL: 84.93
F5-6000Ø CL: 85.39 IL: 84.31
F6-6000Ø CL: 85.46 IL: 84.29
F7-4500Ø CL: 85.69 BD:84.89 IL: 84.13
F8-4500Ø CL: 85.63 IL: 84.05
F9-4500Ø CL: 86.63 IL: 84.03
F10-6000Ø CL: 86.57 IL: 85.32
F11-6000Ø CL: 86.65 IL: 85.22
F12-6000Ø CL: 86.83 IL: 85.52
F13-6000Ø CL: 86.74 IL: 85.40
F14-6000Ø CL: 86.68 IL: 85.05
F15-6000Ø CL: 85.94 IL: 84.64
F16-6000Ø CL: 85.96 IL: 84.59
F17-6000Ø CL: 85.78 IL: 84.42
F18-6000Ø CL: 85.78 IL: 84.38
F19-6000Ø CL: 85.78 IL: 84.35
F20-6000Ø CL: 85.34 IL: 84.21
F21-6000Ø CL: 85.34 IL: 84.17
F22-6000Ø CL: 85.34 IL: 84.13
F23-6000Ø CL: 86.22 IL: 84.92
F24-6000Ø CL: 86.15 IL: 84.85
F25-6000Ø CL: 86.08 IL: 84.73
F26-6000Ø CL: 86.07 IL: 84.70
F27-6000Ø CL: 86.00 IL: 84.65
F28-6000Ø CL: 85.90 IL: 84.55
F29-6000Ø CL: 85.90 IL: 84.52
F30-6000Ø CL: 85.77 IL: 84.42
F31-6000Ø CL: 85.63 IL: 84.28
F32-6000Ø CL: 85.48 IL: 84.15

CELLULAR STORAGE TANK
MAX GROUND LEVEL:86.40
MIN GROUND LEVEL:86.31
POROSITY: 95%
HEIGHT: 0.8m
AREA: 63m²
VOLUME:48m³

AREA DEVELOPED AS PART OF PHASE 1 WORKS.

FW STUB IL 84.93
SW STUB BDIL 84.90 IL 83.42
FW STUB IL 83.71
FW STUB IL 83.22
SW STUB BDIL 84.35 IL 83.88

EXC01A CL RAISED TO 85.62
EXC01B CL RAISED TO 85.19

AREA INSTALLED AS PART OF ACCESS ROAD WORKS AS PER CURTINS DRAWING: 074031-CUR-00-XX-D-C-92950

AREA INSTALLED AS PART OF ADVANCED CONSTRUCTION PHASE AS PER CURTINS DRAWING 074031-CUR-00-XX-DR-C-92900

FOR S278/38 REFER TO CURTINS DRAWING 074031-CUR-00-XX-DR-C-95001

UUMH9602
CL: 85.75
IL: 81.54

EXISTING HIGHWAY MANHOLES CONSTRUCTED AS PART OF PHASE 1 SITE 1 COVER LEVELS TO BE RAISED/LOWERED TO SUIT THE LATEST GROUND LEVELS FOR THE SITE WHERE REQUIRED.

ALL FOUL DRAINS ARE 100Ø UNLESS NOTED OTHERWISE. (MIN 1:40 - NO WC'S, MIN 1:80 - WC CONNECTIONS).
ALL FOUL CONNECTION REST BEND ILs SET AT 250mm BELOW BASE OF SLAB.
ALL SURFACE WATER DRAINS ARE 150Ø UNLESS NOTED OTHERWISE. (MIN 1:100)

NO EXTERNAL AREAS ARE TO DRAIN DIRECTLY ON TO THE ADOPTED HIGHWAY. INTERCEPTING DRAINAGE WILL BE REQUIRED TO PREVENT THIS.

ALL DRAINAGE WITHIN TRAFFICKED AREAS TO HAVE A LOADING CLASS OF D400 OR GREATER.

FFLS ARE BASED ON THE PROPOSED FFL SHOWN ON CURTINS PROPOSED CONTOUR LAYOUT WHICH DIFFER SLIGHTLY FROM THE LANDSCAPE/ARCHITECTS FFLS

KEY:

- INDICATIVE HIGHWAY BOUNDARY. TAKEN FROM MCC HIGHWAY RECORDS.
- PHASE 2 BOUNDARY. TAKEN FROM ARCHITECT DRAWING T8170W0400I1
- PHASE 2 AREA INSTALLED AS PART OF THE PHASE 2 ACCESS ROAD SEE CURTINS DRAWING 074031-CUR-00-XX-D-C-92950
- PHASE 2 AREA INSTALLED AS PART OF THE ADVANCED CONSTRUCTION WORKS SEE CURTINS DRAWING 074031-CUR-00-XX-D-C-92900
- ALL BOUNDARIES ARE OFFSET FOR CLARITY AND THEREFORE INDICATIVE.
- EXISTING PRIVATE SURFACE WATER SEWER/DRAIN — SW — SW
- EXISTING PRIVATE FOUL WATER SEWER/DRAIN — FW — FW
- EXISTING PRIVATE COMBINED WATER SEWER/DRAIN — CW — CW
- EXISTING COMBINED PUBLIC SEWER AND MANHOLE
- PROPOSED PUBLIC COMBINED SEWER
- PROPOSED PRIVATE COMBINED DRAIN
- PROPOSED PRIVATE FOUL DRAIN
- PROPOSED PRIVATE SURFACE DRAIN
- PROPOSED ATTENUATION SYSTEM (TYPE TO BE CONFIRMED)
- PROPOSED FLOW CONTROL CHAMBER
- PROPOSED PRIVATE FOUL MANHOLE OR PPIC — F1
- PROPOSED PRIVATE SURFACE MANHOLE OR PPIC — S1
- PROPOSED PRIVATE COMBINED MANHOLE OR PPIC — C1
- SURFACE WATER POPUP & CONNECTION — RWP
- FOUL WATER SOIL AND VENT DIRECT CONNECTION — SVDC
- PROPOSED LINEAR DRAINAGE WITH ASSOCIATED ACCESS/OUTLET BOXES GATIC CASTSLOT TREADSAFE 100 OR SIMILAR APPROVED — AB — OB
- FOUL GULLY — FG
- ROAD GULLY — GU
- PERMEABLE PAVING OUTLET — PPO
- INTERCEPTOR TRAP — IT
- BACKDROP
- EXISTING UU 3M SEWER EASEMENT

Rev:	Description:	Date:	By:	Chkd:
P02	SURFACE WATER TANK DETAILS UPDATED	05.08.24	CS	CG
P01	ISSUED FOR TENDER	15.01.23	CS	CG

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Status: TENDER ISSUE

Project: OLDHAM ROAD, NEWTON HEATH

Drg Title: DRAINAGE LAYOUT PHASE 2

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	10/01/24	CS	CS	CG

Scale: 1:250

Project No:	Originator:	Volume:	Level:	Type:	Role:	Category / Number:	Rev:
074031	CUR	00	XX	DR	C	92610	P02

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