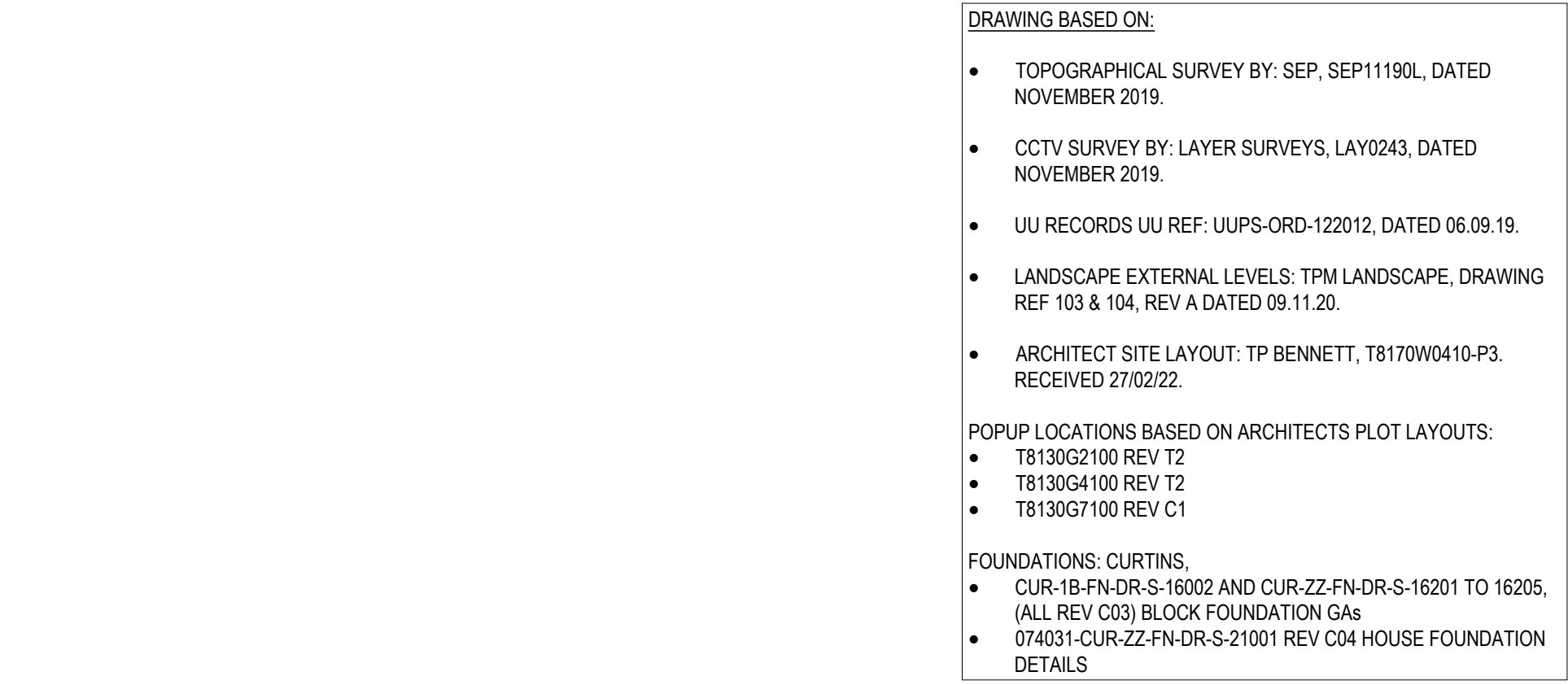


HAZARD REGISTER			
Hazard Ref.	Item (Feature, Element or Activity)	Potential Hazard Identified	Action (Information to Assist Control)
1.00 Enabling / Highwayworks			
1.01	Working adjacent/within Live Highway	Risk to construction workers and equipment.	Construction Management Plan to assess edge protection, 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



- CONSTRUCTION RECORD - FINAL CONSTRUCTION
- THE INFORMATION IS BASED ON CONFIRMATION FROM THE CONTRACTOR OF THE INSTALLED WORKS. THERE MAY BE VARIATIONS ON SITE WHICH ARE NOT REFLECTED ON THIS DRAWING AND HAS NOT BEEN VERIFIED BY CURTINS.

C06	FINAL CONSTRUCTION	25/01/24	JC	CG
C05	OUTFALL ARRANGEMENT AMENDED IN LINE WITH ON-SITE ADJUSTMENTS	11/05/23	ATL	CG
C04	UPDATED IN LINE WITH REVISED SITE LAYOUT	24/03/23	ATL	CG
C03	STAGE 5 UPDATE	23/01/23	CS	CG
C02	STAGE 5 UPDATE	16/12/22	CS	CG
C01	STAGE 5 ISSUE	07/11/22	ATL	MW
P07	S14, S15 AND S5 CL AND IL UPDATED	11/02/22	CS	CG
P06	COVER AND INVERT LEVELS ADDED	28/01/22	TH	CG
P05	TANK UPDATED FOR FLOOD MITIGATION	13/01/22	CG	CG
P04	UPDATED WITH AGREED FLOW RATES	04/11/21	CG	CG
P03	STAGE 3 ISSUE	16/11/20	AH	CD
P02	ISSUED FOR PLANNING	24/01/20	AH	CD
P01	DRAFT ISSUE FOR COMMENT	17/01/20	AH	CD
Rev:	Description:	Date:	By:	Chkd:

 Curtins					
Merchant Exchange, 17-19 Whitworth Street West, Manchester, M1 5WG 0161 238 2394 manchester@curtins.com www.curtins.com					
Civils & Structures • Transport Planning • Environmental • Infrastructure • Geotechnical • Conservation & Heritage • Principal Designer Birmingham • Bristol • Cardiff • Douglas • Dublin • Edinburgh • Glasgow • Harlow • Leeds • Liverpool • London • Manchester • Nottingham					
Job Title:					
CONSTRUCTION RECORD					
Project:					
OLDHAM ROAD, NEWTON HEATH					
Drawing Title:					
DRAINAGE LAYOUT PHASE 1 - SITE 1					
Size:	Date:	Drawn By:	Designed By:	Checked By:	
A1	17/01/20	AH	AH	CD	
Scale: 1:250					
Project No:	Originator:	Volume:	Level:	Type:	Role:
Category / Number:	Rev:				
174031 - CUR - 00 - XX - DR - C - 92500 - C06					

NOTE:
FINAL DETAILED LEVEL DESIGN HAS NOT BEEN FINALISED. PROPOSED
GROUNDS LEVELS BASED ON WORK IN PROGRESS CONTOUR PLAN.

- COVER LEVELS ARE BASED ON WIP LEVELS AND MAY BE SUBJECT TO CHANGE ONCE FINAL LEVELS ARE CONFIRMED.
- LINEAR DRAINAGE, GULLY AND PERMEABLE PAVING OUTLET POSITIONS MAY BE SUBJECT TO CHANGE ONCE FINAL LEVELS ARE CONFIRMED.
- ADDITIONAL DRAINAGE RUNS, LINEAR DRAINS, GULLIES ETC MAY BE REQUIRED FOLLOWING RECEIPT OF FINAL EXTERNAL LEVEL DESIGN.
- INTERPOLATED PLAN INDICATES SOME LEVELS FALL TOWARDS PLOTS - ADDITIONAL THRESHOLD DRAINAGE MAY BE REQUIRED. SUBJECT TO CONFIRMATION OF FINAL LEVELS.
- PROPOSED EXTERNAL SERVICES LAYOUT HAS NOT BEEN PROVIDED FOR COORDINATION. ANY EXTERNAL SERVICES PLAN SHOULD AVOID PROPOSED DRAINAGE.

PROPOSED FLOW RATES (50% EXISTING) AS AGREED UJLLFA			
SITE	FLOW RATE 1:1 YEAR (L/S)	FLOW RATE 1:30 YEAR (L/S)	FLOW RATE 1:100 - 40% CO YEAR (L/S)
PROPOSED SITE (SITE 1 + SITE 2)	15.3	42.2	52.4
SITE 1*	9.8	32.9	35.9
SITE 2	5.5	9.3	16.5

- SITE 1 ALLOWABLE DISCHARGE RATE IS SPLIT BETWEEN PHASE 1 AND PHASE 2 WORKS
- TOTAL SITE 1 AREA IS 0.74 Ha
- PHASE 1 + PHASE 2 (SOUTH) AREA IS 0.43Ha
 - PHASE 2 (NORTH) IS 0.31 Ha
- PHASE 1 WORKS (INC P2 SOUTH) ARE 57% OF TOTAL AREA
- THE DISCHARGE ALLOWANCE FOR PHASE 1+PHASE2(SOUTH) WAS CALCULATED USING THE PREVIOUS SITE PLAN CATCHMENT PROPORTIONS. THESE ALLOWANCES HAVE BEEN RETAINED FOR THE REVISED WORKS, ALTHOUGH PHASE 1 CATCHMENT NOW EXCEEDS PHASE 2 CATCHMENT PORTION.
- THEREFORE, THE ALLOWABLE DISCHARGE RATES ARE:
- 1-YR 4.2 l/s
 - 30-YR 13.8 l/s
 - 100-YR+CC 15.4 l/s

PROPOSED FLOW CONTROL CHAMBER	
EXISTING DRAINAGE TO BE ABANDONED	
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	
FOUL WATER POPUP & CONNECTION	
PIPE PASSES THROUGH STRIP FOOTING	
PROPOSED LINEAR DRAINAGE WITH ASSOCIATED ACCESS/OUTLET BOXES GATIC CASTSLOT TREADSAFE 100 OR SIMILAR APPROVED	
FOUL GULLY	FG 
ROAD GULLY	RG 
PERMEABLE PAVING OUTLET	PPO 
INTERCEPTOR TRAP	IT 
PROPOSED RODDING EYE 750mm DEPTH TO INVERT	RE 
BACKDROP	
PROPOSED FOUNDATION	

KEY:	
HIGHWAY BOUNDARY. TAKEN FROM MOC HIGHWAY RECORDS.	
EXISTING SITE BOUNDARY. TAKEN FROM ARCHITECT DRAWING T8170-W-0-400-P1	
PHASE 1 BOUNDARY. TAKEN FROM ARCHITECT DRAWING T8170-W-0-400-P1 AND S38/S278 DRAWINGS	
PHASE 2 BOUNDARY. TAKEN FROM ARCHITECT DRAWING T8170-W-0-400-P1	
ALL BOUNDARIES ARE OFFSET FOR CLARITY AND THEREFORE INDICATIVE.	
EXISTING PRIVATE SURFACE WATER SEWER/DRAIN	
EXISTING PRIVATE FOUL WATER SEWER/DRAIN	
EXISTING PRIVATE COMBINED WATER SEWER/DRAIN	
EXISTING COMBINED PUBLIC SEWER AND MANHOLE	
PROPOSED PRIVATE COMBINED DRAIN	
PROPOSED PRIVATE FOUL DRAIN	
PROPOSED PRIVATE SURFACE DRAIN	
PROPOSED ATTENUATION SYSTEM (TYPE TO BE CONFIRMED)	
PERMEABLE BLOCK PAVING	