RESIDUAL HAZARD REGISTER

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 REF No.	ITEM (FEATURE, ELEMENT OR ACTIVITY)	RESIDUAL HAZARD
1.1	WORKING CLOSE TO WATERWAYS	CONTRACTOR TO ENSURE EDGE RESTRAINT IN PLACE AND MANAGEMENT PLAN IN PLACE FOR TIMES OF FLOODING.
2.1	SERVICES	EXISTING SERVICES TO REMAIN ARE TO BE PROTECTED OR DIVERTED
3.1	WORKING IN PROXIMITY TO EXISTING STRUCTURES (NETWORK RAIL ARCHES)	CONTRACTOR TO ENSURE WORKS DO NOT UNDERMINE EXISTING FOUNDATIONS

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. 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.
3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
4. FOR GENERAL NOTES REFER TO DRAWING C1-CUR-G580-PL-XX -92510.
5. FURTHER CO-ORDINATION REQUIRED BETWEEN EXTERNAL SERVICES AND THE PROPOSED DRAINAGE.

DRAWING BASED ON:

ARCHITECT'S LAYOUTS
- C1-Z1-SHP-G100-PL-GRD-0001_P03
- C1-Z1-SHP-G260-PL-GRD-0001_P02

LANDSCAPE ARCHITECT'S LAYOUT
- 25_010_LANDSCAPE GA ISSUE RECEIVED 15.10.25

PROPOSED SERVICES
- C1-Z1-FUT-G580-PL-B1-001_P01

RIVER WALL SURVEY
- 250826SR__TR C RIVER WALL SURVEY-Model RECEIVED 27.08.25

TOPO SURVEY
- 20K269-Site C TOPO SURVEY RECEIVED 24.02.21

CCTV SURVEY
- IWJS SURVEY 'Water Street_Manchester' CCTV Report_15_Dec_2020

DESIGN PHILOSOPHY

SURFACE WATER DESIGN
FLOWS ARE TO BE RESTRICTED TO A MAXIMUM DISCHARGE VELOCITY OF 2m/s INTO THE RIVER IRWELL.

OUTFALL:PROPOSED OUTFALL TO THE RIVER IRWELL

BASED ON LIMITING FACTOR OF 2m/s THE CURRENT MAXIMUM DISCHARGE RATE DURING A 100 YEAR STORM EVENT INCLUDING 40% CLIMATE CHANGE EVENT FROM OUTFALL IS 178l/s.
POLLUTION TREATMENT: CAR PARK/HIGHWAY DRAINAGE IS DISCHARGED TO THE SURFACE WATER NETWORK VIA DOWNSTREAM DEFENDERS.

ALL INTERNAL CARPARK DRAINAGE IS TO BE PICKED UP IN FOUL GULLIES FOR WASHDOWN. ANY SPILLS TO BE CONTAINED AND DISPOSED OF APPROPRIATELY.

FOUL WATER DESIGN
FW PEAK FLOW RATE: 38.8l/s BASED ON TOTAL DISCHARGE UNITS AT OUTFALL PIPE FLOWS BASED ON M&E DRAWINGS
C1-ZP3-FUT-G580-CA-XX-0001 (WIP)-PLOT C1.

OUTFALL: CW SEWER WITHIN WATER STREET (SUBJECT TO S106 WITH UU).

POTENTIAL SURCHARGED RIVER LEVEL OF 25.54m AOD BASED ON A 1 IN 100 YEAR EVENT + 70% INCREASE IN FLOW AT NODE 2 AS STATED IN CURTINS FRA DATED 12.11.21

OUTFALL
CL: 25.250
IL: 23.915
NEW OUTFALL THROUGH EXISTING WALL. ALTHON 400mm TIDAL FLAP VALVE O.S.A. REQUIRED ON OUTLET.
FLAP VALVE TO BE APPROVED BY PEEL.

SAFETY RING TO BE LOCATED ALONG WATERS EDGE

GROUND LEVELS TO SLOPE TOWARDS RIVER WALL RIVER EDGE TO BE FLUSH TO ALLOW FOR SURFACE WATER TO RUN OVER. PROPOSED RESIN SURFACE SHOULD FALL MIN 1:60

S12-1200Ø
CL:25.021
IL:23.938
SEE CURTINS DRAWING C1-CUR-G580-PL-DE-92531 FOR FLAP VALVE LAYOUT WITHIN MANHOLE

S10-1200Ø
CL:25.450
IL:24.013

S9-1200Ø
CL:25.480
IL:24.040

PENETRATION
IL:24.050
225Ø PIPE

LEVELS TO BE CONFIRMED IN THIS AREA

S8-1200Ø
CL:26.050
IL:24.180
DOWNSTREAM DEFENDER1.0Ø
UNIT REF - DDC10-670-C-225
BASED ON 1610m²

S7-1200Ø
CL:26.110
IL:24.302

S6-1200ØCP
CL:26.110
BD:24.840
IL:24.330

F1-1200Ø
CL:26.110
IL:24.800

S5-600ØCP
CL:26.100
BD:24.840
IL:24.340

PENETRATION IL:24.050
300Ø PIPE

PENETRATION IL:24.050
150Ø PIPE

PIPEWORK TO BE ENCASED IN CONCRETE

S11-1200Ø
CL:24.700
IL:23.725
DOWNSTREAM DEFENDER1.0Ø
UNIT REF - DDC10-670-C-225
BASED ON 730m²

PENETRATION IL:24.037
225Ø PIPE

PENETRATION
IL:24.850

PENETRATION
IL:25.151
150Ø PIPE

EXISTING DRAINAGE RUN TO BE SURVEYED. DISCUSSIONS AT PLANNING HAVE CONFIRMED THE PUBLIC SEWER (CSO) WAS DIVERTED AS PART OF THE ORDSALL CHORD WORKS. EXISTING DRAINAGE SHOWN WITHIN NETWORK RAIL LAND APPEARS TO BE DRAINAGE SERVING THE VIADUCT AND CCTV SURVEY TO BE UNDERTAKEN TO CONFIRM EXTENT AND DEPTHS OF DRAINAGE IN RELATION TO THE SITE BOUNDARY.

S4-1200ØCP
CL:26.200
HL:25.146
IL:24.591

F2-1200Ø
CL:26.30
IL:24.605

S3-1200Ø
CL:26.170
IL:24.618

UUMH8801
CL: 26.02
IL: 23.62 (TAKEN FROM UU SEWER RECORDS)

F3-21000TBC
CL:26.100
IL=23.620
NEW CONNECTION TO BE SOFFIT TO SOFFIT. IL OF NEW CONNECTION ≈24.315
EXISTING LEVELS BASED ON UU SEWER RECORDS AND PARTIAL CCTV SURVEY.
INVERT LEVEL TBC.

FOUL OUTFALL CONNECTION SUBJECT TO S106 WITH UNITED UTILITIES.
PART 1: BY CURTINS
PART 2: BY CONTRACTOR

WEEP HOLES TO BE PROVIDED THROUGH THE CHANNEL CONCRETE HAUNCHING TO ALLOW AREA UNDER BUILDING OVER SAIL TO DRAIN

CHANNEL AT THE BOTTOM OF RAMP TO COLLECT SW RUN-OFF FROM OPEN RAMP. TO BE DESIGNED TO SUIT CATCHMENT AREA OF 77m² OR 4.2 l/s

S2-600Ø
CL:26.100
IL:24.880

S1-600Ø
CL:26.150
IL:25.025

UUMH8801
CL: 26.02
IL: 23.62

KEY:

- C1 BOUNDARY TAKEN FROM SHP DRAWING C1-Z1-SHP-G100-PL-GRD-0001_Ver3 RECEIVED 10.10.25
- EXTENT OF ADOPTED HIGHWAY TAKEN FROM DRAWING C1-Z1-CUR-G580-PL-XX-90100-P01
- STEP IN STRUCTURAL SLAB TAKEN FROM SHP DRAWING C1-Z1-SHP-G260-PL-GRD-0001_P03
- OUTER EDGE OF CAPPING BEAM TAKEN FROM SHP DRAWING ZC-SHP-G260-PL-GRD-0001_P11
- EXISTING PUBLIC COMBINED DRAINAGE
- EXISTING DRAINAGE WITHIN NETWORK RAIL LAND
- INDICATES PERMEABLE SUB-BASE LAYER FOR SURFACE WATER RUN-OFF COLLECTION ON SLAB.
- PROPOSED SURFACE WATER DRAINAGE
- PROPOSED FOUL WATER DRAINAGE
- PROPOSED PERFORATED PIPE
- PROPOSED CHANNEL DRAIN. CURRENT PROPOSAL BASED ON ACO OR SIMILAR APPROVED.
- SW DRAINAGE WITHIN BASEMENT - BASED ON M&E DRAWING C1-Z1-FUT-G580-PL-B1-001
- SW DRAINAGE WITHIN BASEMENT - BASED ON M&E DRAWING C1-Z1-FUT-G580-PL-B1-001
- SLAB PENETRATION POINT FOR DRAINAGE TO BASEMENT
- INSPECTION POINT OUTLET. CRATE BASED ON POLYPIPE PVPP85 (708X354X85mm) OR SIMILAR APPROVED (IP/OU)
- PROPOSED DOWNSTREAM DEFENDER BASED ON SPEL CLASS 1 BY-PASS SEPARATOR OR SIMILAR APPROVED (PI)
- GULLY LOCATED ON STRUCTURAL SLAB BELOW SUBBASE (SG)

Rev:	Description:	Date:	By:	Chkd:
P03	UPDATED TO SUIT ASITE COMMENTS	13.11.25	KS	CS
P02	STAGE 4 UPDATE	17.10.25	CS	CG
P01	PRELIMINARY STAGE 4 ISSUE	18.08.25	CS	CG

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Status: STAGE 4

Project: TRINITY ISLANDS - PLOT C1

Drg Title: DRAINAGE LAYOUT

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	14/08/25	CS	CS	CG
Scale: 1:250				

Project No:	Originator:	Volume:	Level:	Type:	Role:	Category / Number:	Rev:
C1 - Z1 - CUR -	G580	-	PL	-	GRD	- 92500 -	P03

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