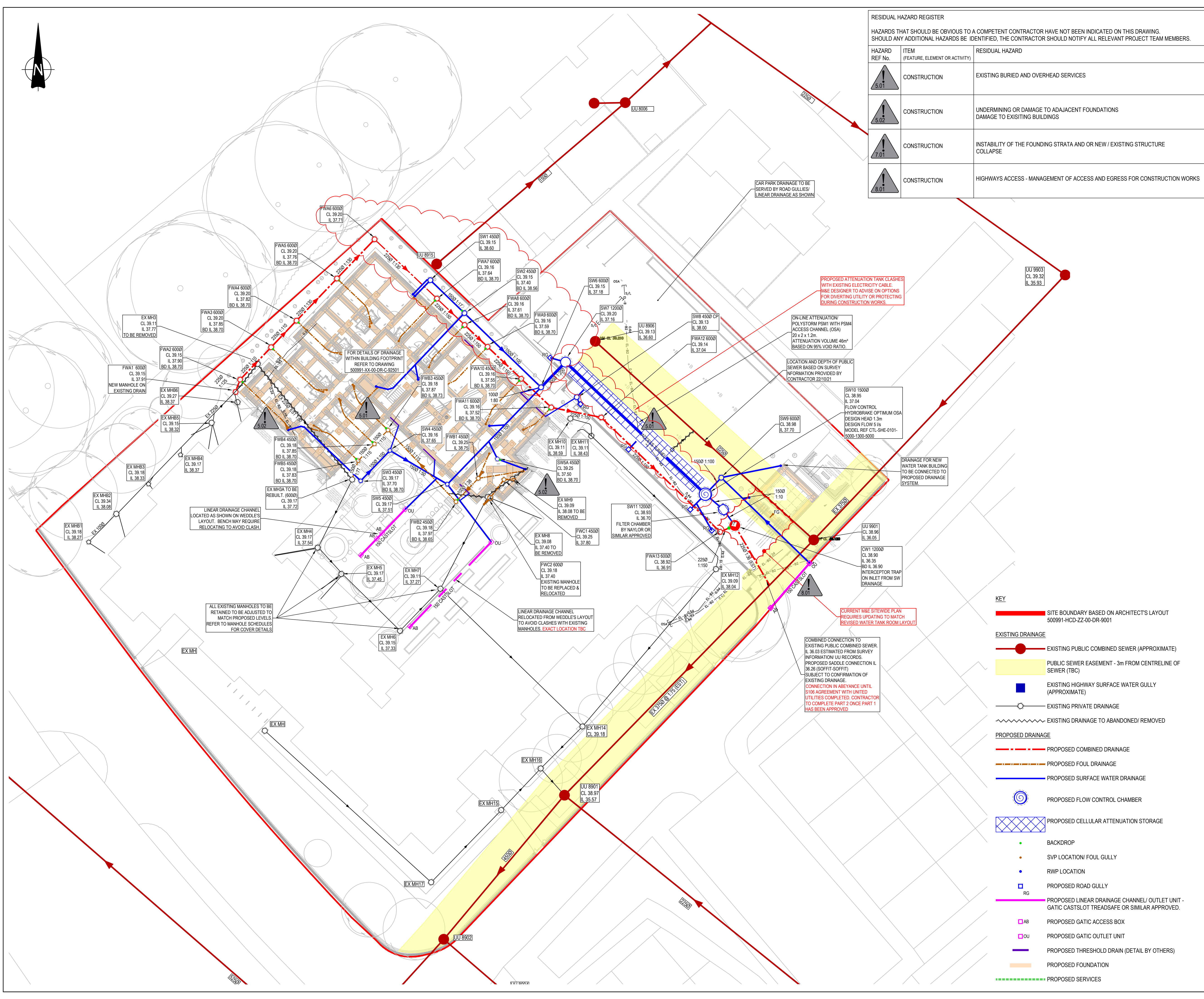
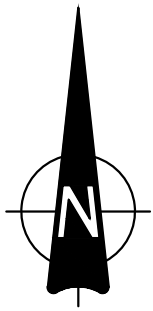




RESIDUAL HAZARD REGISTER		
HAZARDS THAT SHOULD BE OBVIOUS TO A COMPETENT CONTRACTOR HAVE NOT BEEN INDICATED ON THIS DRAWING. SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED, THE CONTRACTOR SHOULD NOTIFY ALL RELEVANT PROJECT TEAM MEMBERS.		
HAZARD REF No.	ITEM (FEATURE, ELEMENT OR ACTIVITY)	RESIDUAL HAZARD
	CONSTRUCTION	EXISTING BURIED AND OVERHEAD SERVICES
	CONSTRUCTION	UNDERMINING OR DAMAGE TO ADJACENT FOUNDATIONS DAMAGE TO EXISTING BUILDINGS
	CONSTRUCTION	INSTABILITY OF THE FOUNDING STRATA AND OR NEW / EXISTING STRUCTURE COLLAPSE
	CONSTRUCTION	HIGHWAYS ACCESS - MANAGEMENT OF ACCESS AND EGRESS FOR CONSTRUCTION WORKS

GENERAL NOTES:

FOR DRAINAGE NOTES REFER TO DRAWING 500991-CUR-XX-00-DR-C-92530

DESIGN PHILOSOPHY

SURFACE WATER

EXISTING SW FLOW RATES:

1-YEAR 10.4 l/s

30-YEAR 28.6 l/s

100-YEAR 35.9 l/s

FLOW RATES BASED ON PROPOSED DEVELOPABLE AREA OF 0.18 Ha; CALCULATED USING A MODEL OF THE EXISTING DRAINAGE NETWORK IN MICRODRAINAGE

SOURCE CONTROL:

PROPOSED DISCHARGE RATES SET AT 5 l/s FOR ALL STORM EVENTS IN ACCORDANCE WITH UNITED UTILITIES REQUIREMENTS; DRAINAGE MODELS INCLUDE FOR A SURCHARGED OUTFALL LEVEL OF 37.410

STORAGE REQUIREMENT:

46m³ BASED ON CAUSEWAY DESIGN MODEL. DESIGNED TO HAVE NO FLOODING FOR THE 1:100-YEAR STORM + 40% CLIMATE CHANGE ALLOWANCE.

INFILTRATION:

SITE INVESTIGATION INDICATES THAT THE SUB-STRATA MAY BE SUITABLE FOR INFILTRATION. HOWEVER, DUE TO THE PROPOSED & EXISTING BUILDING LAYOUT, AND ALSO THE EXISTING PUBLIC SEWER UNDER THE CAR PARK, THERE IS INSUFFICIENT SPACE TO LOCATE INFILTRATION FEATURES.

FOUL DRAINAGE

LEVELS INDICATE THAT PUMPING WILL NOT BE REQUIRED. TBC FOLLOWING FURTHER DESIGN AND SURVEY WORK.

PEAK FOUL FLOWS ESTIMATED USING DISCHARGE UNIT METHOD BASED ON M&E ENGINEER'S ABOVE GROUND DRAINAGE DESIGN:
NETWORK A: 8.9 l/s
NETWORK B: 7.5 l/s

DRAWING REFERENCES

TOPOGRAPHICAL SURVEY (DPR) RECEIVED 07.03.19

18607-T-ADDITIONAL AREA REV A1

ARCHITECT (HCD)

500991-HCD-ZZ-00-DR-A-9001 REV P04 SITE PLAN GA

500991-HCD-ZZ-00-DR-A-0300 REV P03 SITE SETTING OUT PLAN

500991-HCD-ZZ-00-DR-A-2300 REV C01 SLAB SETTING OUT LEVEL 00

500991-HCD-ZZ-00-DR-A-9002 REV C01 WATER TANK ROOM

M&E (AMEON)

500991-AME-ZZ-XX-DR-M-5201 REV P01 LEVEL 00 AGD LAYOUT

500991-AME-ZZ-XX-DR-M-5230 REV P01 AGD SCHEMATIC SHEET 1

500991-AME-ZZ-XX-DR-M-5231 REV P01 AGD SCHEMATIC SHEET 2

500991-AME-ZZ-XX-DR-M-5232 REV P01 RAINWATER SCHEMATIC

500991-AME-ZZ-XX-DR-N-9020 REV P02 SITE WIDE EXTERNAL M&E SERVICES LAYOUT

LANDSCAPE ARCHITECT (WEDDLES)

1280-WLD-00-XX-DR-L-0001 REV-A LANDSCAPE GA PLAN (WIP)

FOUNDATION LAYOUT (CURTINS)

500991-CUR-XX-00-FN-DR-S-16001 REV C02 FOUNDATION LAYOUT

CCTV SURVEYS:

S20263 CCTV SURVEY BY SEP DATED FEB 2020

ADDITIONAL SURVEY BY TEAM DRAINAGE DATED JUNE 2021

EXISTING PUBLIC SEWERS

PUBLIC SEWER LOCATIONS DERIVED FROM PDF OVERLAY OF UNITED UTILITIES PUBLIC SEWER PLANS. RECEIVED 08.03.19

C05	ATTENUATION TANK DETAILS AMENDED, DRAINAGE AMENDED TO SUIT ON-SITE CHANGES	08.02.22	ATL	CG
C04	DRAINAGE AMENDED TO SUIT REVISED EXISTING DRAINAGE LEVELS	23.12.21	ATL	ATL
C03	DRAINAGE AMENDED TO ACCEPT EXISTING COMBINED DRAINAGE	10.12.21	ATL	CG
C02	UPDATED IN LINE WITH DESIGN TEAM COMMENTS	09.11.21	ATL	ATL
C01	CONSTRUCTION ISSUE	20.09.21	ATL	MW
Rev:	Description:	Date:	By:	Chkd:



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Civils & Structures • Transport Planning • Environmental • Infrastructure • Geotechnical • Conservation & Heritage • Principal Designer
Birmingham • Bristol • Cambridge • Cardiff • Douglas • Dublin • Edinburgh • Glasgow • Kentish • Leeds • Liverpool • London • Manchester • Nottingham

Status:

CONSTRUCTION

Project:

KINCARDINE COURT

Orig Title:

PROPOSED DRAINAGE LAYOUT

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	20/09/21	ATL	ATL	MW
Scale: 1:200				
Project No:	Originator:	Volume:	Level:	Type:
500991 - CUR - ZZ - 00 - DR - C -				
9500				
- C05				

KEY

SITE BOUNDARY BASED ON ARCHITECT'S LAYOUT 500991-HCD-ZZ-00-DR-9001

EXISTING DRAINAGE

EXISTING PUBLIC COMBINED SEWER (APPROXIMATE)

PUBLIC SEWER EASEMENT - 3m FROM CENTRELINE OF SEWER (TBC)

EXISTING HIGHWAY SURFACE WATER GULLY (APPROXIMATE)

EXISTING PRIVATE DRAINAGE

EXISTING DRAINAGE TO ABANDONED/ REMOVED

PROPOSED DRAINAGE

PROPOSED COMBINED DRAINAGE

PROPOSED FOUL DRAINAGE

PROPOSED SURFACE WATER DRAINAGE



PROPOSED FLOW CONTROL CHAMBER



PROPOSED CELLULAR ATTENUATION STORAGE

BACKDROP

SVP LOCATION/ FOUL GULLY

RWP LOCATION

PROPOSED ROAD GULLY

PROPOSED LINEAR DRAINAGE CHANNEL/ OUTLET UNIT - GATIC CASTSLOT TREADSAFE OR SIMILAR APPROVED.

PROPOSED GATIC ACCESS BOX

PROPOSED GATIC OUTLET UNIT

PROPOSED THRESHOLD DRAIN (DETAIL BY OTHERS)

PROPOSED FOUNDATION

PROPOSED SERVICES

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