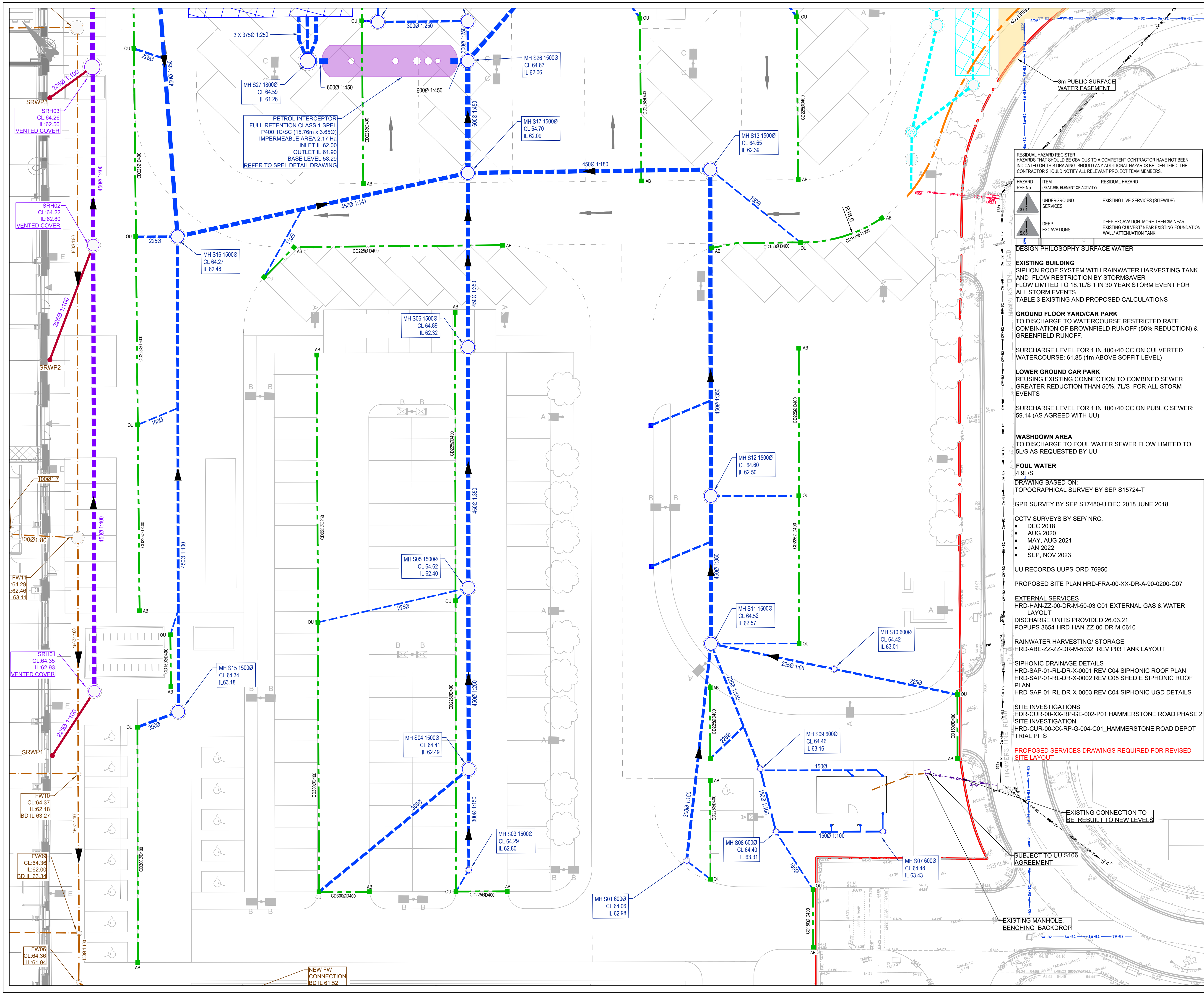




LEGEND

SITE BOUNDARY BASED ON
HRD-FRA-00-XX-DR-A-90-0200

EXISTING SERVICES BASED ON CCTV SURVEY AUG 2020

— SW-B2 — SW-B2 — EXISTING SURFACE WATER PIPE
— — — — — EXISTING COMBINED WATER PIPE
— — — — — EXISTING UNSURVEYED BUILDING DRAINAGE (ASSUMED ROUTE SHOWN)

UNITED UTILITIES RECORDS UUPS-ORD-76950
ALL UU ASSETS ARE SHOWN INDICATIVELY

— — — — — UU FOUL WATER SEWER
— — — — — UU SURFACE WATER SEWER
— — — — — UU COMBINED WATER SEWER
— — — — — WATERCOURSE

8M EASEMENT BASED ON SEWER FOR ADOPTION 6TH EDITION

PROPOSED DRAINAGE

— — — — — PROPOSED FOUL WATER DRAIN
— — — — — PROPOSED RISING MAIN FROM RH TANK
— — — — — PROPOSED SURFACE WATER DRAIN
— — — — — PROPOSED SURFACE WATER FOR WASHDOWN
— — — — — PROPOSED SURFACE WATER FROM SIPHON BY SAPOFLOW
— — — — — PROPOSED SURFACE WATER GRAVITY DRAINAGE FROM SIPHON
— — — — — PROPOSED SURFACE WATER BY STORMSAVER

DP GATIC CHANNEL
FG FOUL WATER DOWN PIPE
SRWP FLOOR GULLY
AB SIPHON RAIN WATER PIPE
OU ACCESS BOX
CP CATCHPIT
FC FLOW CONTROL CHAMBER

PROPOSED ATTENUATION TANK
PETROL INTERCEPTOR OR SIMILAR
PROPOSED SERVICES

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
3.01	UNDERGROUND SERVICES	EXISTING LIVE SERVICES (SITEWIDE)
5.05	DEEP EXCAVATIONS	DEEP EXCAVATION MORE THAN 3M NEAR EXISTING CULVERT/ NEAR EXISTING FOUNDATION WALL/ ATTENUATION TANK

DESIGN PHILOSOPHY SURFACE WATER

EXISTING BUILDING
SIPHON ROOF SYSTEM WITH RAINWATER HARVESTING TANK AND FLOW RESTRICTION BY STORMSAVER
FLOW LIMITED TO 18.1L/S 1 IN 30 YEAR STORM EVENT FOR ALL STORM EVENTS
TABLE 3 EXISTING AND PROPOSED CALCULATIONS

GROUND FLOOR YARD/CAR PARK
TO DISCHARGE TO WATERCOURSE, RESTRICTED RATE COMBINATION OF BROWNFIELD RUNOFF (50% REDUCTION) & GREENFIELD RUNOFF.

SURCHARGE LEVEL FOR 1 IN 100+40 CC ON CULVERTED WATERCOURSE: 61.85 (1m ABOVE SOFFIT LEVEL)

LOWER GROUND CAR PARK
REUSING EXISTING CONNECTION TO COMBINED SEWER
GREATER REDUCTION THAN 50%, 7L/S FOR ALL STORM EVENTS

SURCHARGE LEVEL FOR 1 IN 100+40 CC ON PUBLIC SEWER: 59.14 (AS AGREED WITH UU)

WASHDOWN AREA
TO DISCHARGE TO FOUL WATER SEWER FLOW LIMITED TO 5L/S AS REQUESTED BY UU

FOUL WATER
4.9L/S

DRAWING BASED ON:
TOPOGRAPHICAL SURVEY BY SEP S15724-T
GPR SURVEY BY SEP S17480-U DEC 2018 JUNE 2018

CCTV SURVEYS BY SEP/ NRC:
• DEC 2018
• AUG 2020
• MAY, AUG 2021
• JAN 2022
• SEP, NOV 2023

UU RECORDS UUPS-ORD-76950

PROPOSED SITE PLAN HRD-FRA-00-XX-DR-A-90-0200-C07

EXTERNAL SERVICES
HRD-HAN-ZZ-00-DR-M-50-03 C01 EXTERNAL GAS & WATER LAYOUT
DISCHARGE UNITS PROVIDED 26.03.21
POPUPS 3654-HRD-HAN-ZZ-00-DR-M-0610

RAINWATER HARVESTING/ STORAGE
HRD-ABE-ZZ-ZZ-DR-M-5032 REV P03 TANK LAYOUT

SIPHONIC DRAINAGE DETAILS
HRD-SAP-01-RL-DR-X-0001 REV C04 SIPHONIC ROOF PLAN
HRD-SAP-01-RL-DR-X-0002 REV C05 SHED E SIPHONIC ROOF PLAN
HRD-SAP-01-RL-DR-X-0003 REV C04 SIPHONIC UGD DETAILS

SITE INVESTIGATIONS
HDR-CUR-00-XX-RP-GE-002-P01 HAMMERSTONE ROAD PHASE 2
SITE INVESTIGATION
HRD-CUR-00-XX-RP-G-004-C01 HAMMERSTONE ROAD DEPOT TRIAL PITS

PROPOSED SERVICES DRAWINGS REQUIRED FOR REVISED SITE LAYOUT

EXISTING CONNECTION TO BE REBUILT TO NEW LEVELS
SUBJECT TO UU STORE AGREEMENT
EXISTING MANHOLE, BENCHING BACKDROP

P02	UPDATED IN LINE WITH COMMENTS	13.02.24	ATL	MW
P01	ISSUED FOR NEW TENDER	29.01.24	ATL	MW

Rev:	Description:	Date:	By:	Chkd:

STAGE 5

HAMMERSTONE ROAD

PROPOSED DRAINAGE
1:200 LAYOUT SHEET 2

Project No:	Size:	Date:	Drawn By:	Designed By:	Checked By:
068065	A1	29.01.24	ATL	ATL	MW
Scale:	1:200				
Project Code:	Originator:	Zone:	Level:	Type:	Discipline:
HRD - CUR - XX - 00 - DR - C -					

92-508 -P02



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