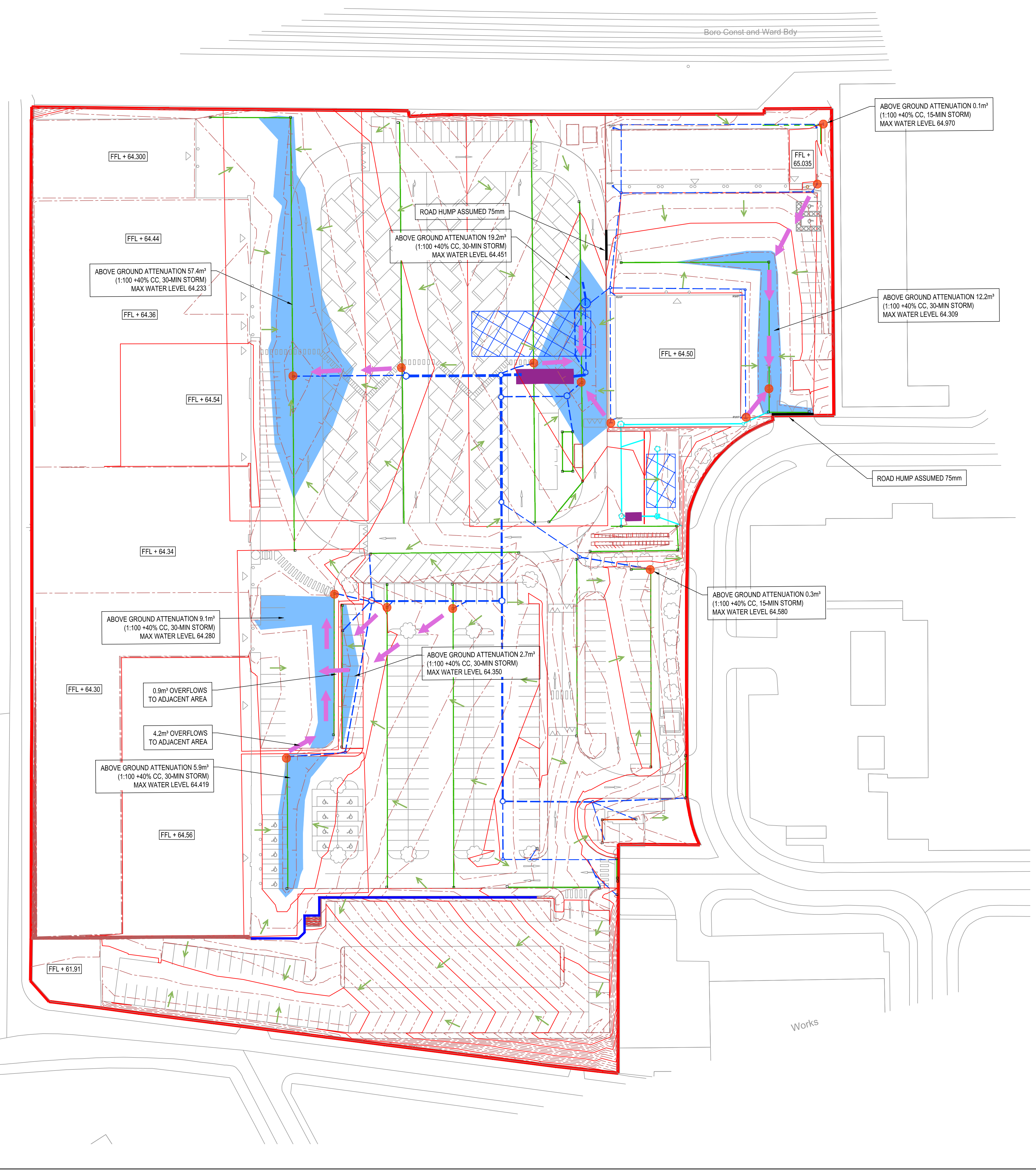
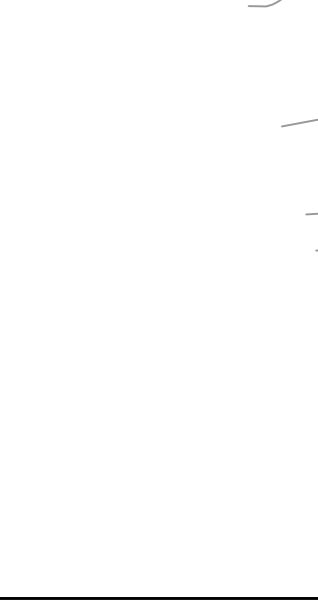
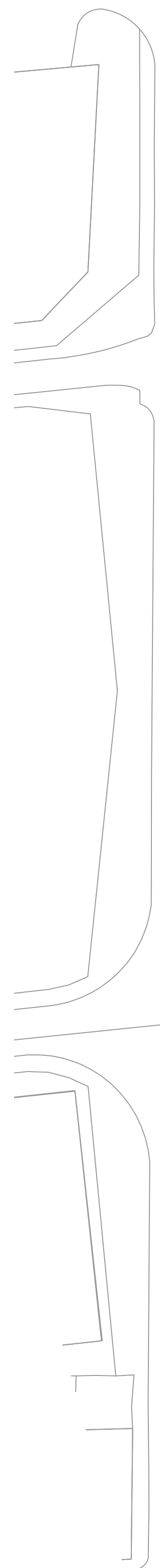
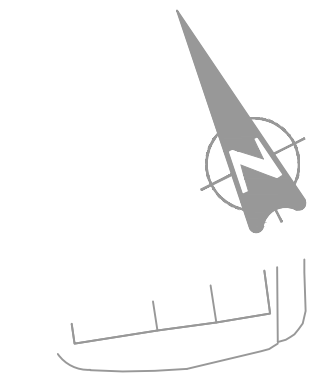


Appendix A

HRD-CUR-XX-00-DR-C-92-512 Overland Flood Routes

HRD-CUR-XX-00-DR-C-92-540 Proposed Drainage plan Adajacent to Railway



KEY

64.00

MAJOR CONTOUR

MINOR CONTOUR

PROPOSED SURFACE WATER DRAINAGE

PROPOSED LINEAR DRAINAGE CHANNEL LOCATION

LOCATION OF FLOODING WITHIN DRAINAGE NETWORK

ROUTE OF OVERLAND FLOW FROM FLOOD POINT

AREA OF ABOVE GROUND ATTENUATION

GENERAL FALLS

- GENERAL NOTES:
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
 - DESIGN BASED ON TOPOGRAPHICAL SURVEY AND CCTV SURVEY INFORMATION AVAILABLE AT THE TIME OF DESIGN. ALL EXISTING SEWERS, CONNECTIONS, PIPE SIZES AND INVERT LEVELS TO BE CONFIRMED BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS TO ENSURE CONNECTIVITY. ANY VARIANCE FROM THE INFORMATION SHOWN SHOULD BE REPORTED TO THE ENGINEER FOR REVIEW.
 - DO NOT SCALE THIS DRAWING. ALL DETAILS AND DIMENSIONS ARE TO BE CHECKED BY THE CONTRACTOR. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER.
 - ALL DIMENSIONS ARE IN METRES AND LEVELS IN METRES ABOVE ORDNANCE DATUM UNLESS OTHERWISE NOTED.
 - WHERE EXISTING DRAINAGE IS BEING USED, ALLOWANCES SHOULD BE MADE TO REMEDIATE THIS DRAINAGE IN LINE WITH AVAILABLE CCTV SURVEY INFORMATION. IF NO SURVEY IS AVAILABLE, IT IS ADVISED TO OBTAIN ONE PRIOR TO COMMENCEMENT OF WORKS.
 - ALL EXISTING SERVICES TO BE LOCATED PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORKS, AND WHERE NECESSARY PROTECTION OR DIVERSIONS TO BE UNDERTAKEN TO AVOID CONFLICT WITH THE PROPOSED WORK.
 - ALL PIPE DIAMETERS GIVEN ARE NOMINAL INTERNAL PIPE DIAMETERS. THESE ARE TO BE CONFIRMED ONCE A DETAILED CAPACITY CHECK HAS BEEN UNDERTAKEN AT A LATER DESIGN STAGE.
 - OUTFALL CONNECTION(S) SUBJECT TO AGREEMENT WITH THE APPROVING AUTHORITY.

DRAWING BASED ON:
TOPOGRAPHICAL SURVEY BY SEP S15724-T
GPR SURVEY BY SEP S17480-U DEC 2018 JUNE 2018
CCTV SURVEY BY SEP DRAINAGE SURVEYS LTD DEC 2018 AND AUG 2020
UI RECORDS UUPS-ORD-76950
PROPOSED SITE PLAN HRD-FRA-00-XX-DR-A-90-0200 C01
EXTERNAL SERVICES
HRD-HAN-ZZ-00-DR-E-50-03 C01 CABLES
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

P02	STAGE 4 UPDATED	05.08.21	ATL	MW
P01	STAGE 4 ISSUE	14.04.21	ATL	MW
Rev:	Description:	Date:	By:	Chkd:

Curtins

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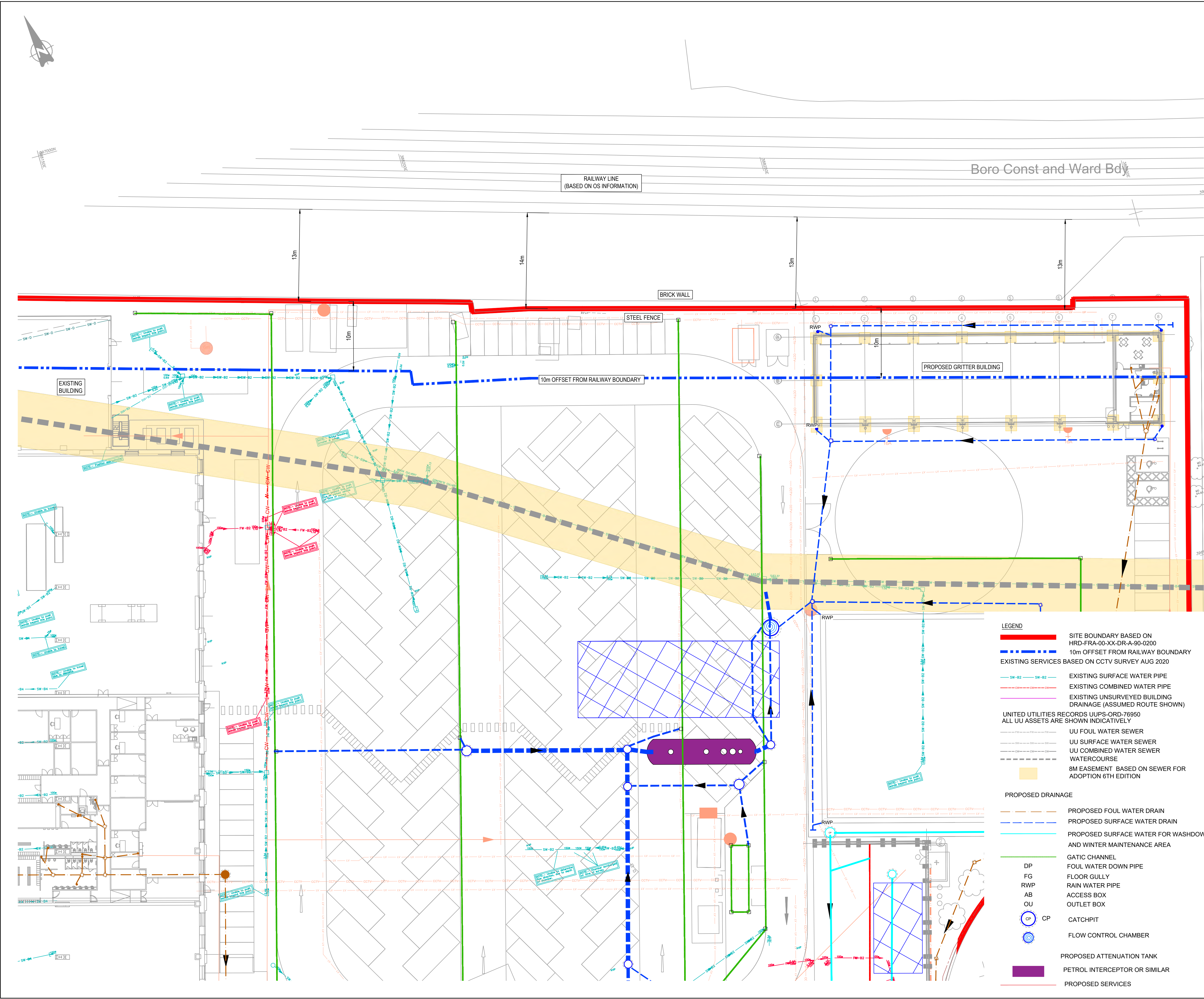
STAGE 4

HAMMERSTONE ROAD

OVERLAND FLOW ROUTES AND
ABOVE GROUND ATTENUATION

Size:	Date:	Drawn By:	Designed By:	Checked By:			
A1	14.04.21	ATL	ATL	MW			
Scale:	1:500						
Project No:	Originator:	Zone:	Level:	Type:	Discipline:	Category / Number:	Rev:
HRD	- CUR	- XX	- 00	- DR	- C	- 92-512	-P02

\\msd02\Projects\068301 - 069000\068605 - Hammerstone Road Depot\GIS 4 Production\B Notes & Drawings - Civil\CCAD\



- GENERAL NOTES:
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
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 - WHERE EXISTING DRAINAGE IS BEING USED, ALLOWANCES SHOULD BE MADE TO REMEDIATE THIS DRAINAGE IN LINE WITH AVAILABLE CCTV SURVEY INFORMATION. IF NO SURVEY IS AVAILABLE, IT IS ADVISED TO OBTAIN ONE PRIOR TO COMMENCEMENT OF WORKS.
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 - OUTFALL CONNECTION(S) SUBJECT TO AGREEMENT WITH THE APPROVING AUTHORITY.

DRAWING BASED ON:
TOPOGRAPHICAL SURVEY BY SEP S15724-T
GPR SURVEY BY SEP S17480-U DEC 2018 JUNE 2018
CCTV SURVEY BY SEP DRAINAGE SURVEYS LTD DEC 2018 AND AUG 2020, SEP, DECEMBER 2021
UU RECORDS UUPS-ORD-76950
PROPOSED SITE PLAN HRD-FRA-00-XX-DR-A-90-0200 P9
PROPOSED ALTERNATE LOWER LEVEL CAR PARK LAYOUT
SKETCH HRD-FRA-00-XX-SK-A-90-9001 REV P1
ex RWP's location sketch 13.01.22

EXTERNAL SERVICES
HRD-HAN-ZZ-00-DR-E-50-03 C01 CABLES
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
FOR CLARITY THE EXISTING DRAINAGE WHICH WILL BE REUSED HAS BEEN SHOWN ON THE DRAWING FOR ALL EXISTING DRAINAGE WITHIN BOUNDARY REFER TO HRD-CUR-XX-00-DR-C-92-510- EXISTING DRAINAGE and HRD-CUR-XX-00-DR-C-92-511- RETAINED AND ABANDONED DRAINAGE

- LEGEND
- SITE BOUNDARY BASED ON HRD-FRA-00-XX-DR-A-90-0200
 - 10m OFFSET FROM RAILWAY BOUNDARY
 - EXISTING SERVICES BASED ON CCTV SURVEY AUG 2020
 - 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 SURFACE WATER DRAIN
 - PROPOSED SURFACE WATER FOR WASHDOWN AND WINTER MAINTENANCE AREA
 - GATIC CHANNEL
 - FOUL WATER DOWN PIPE
 - FLOOR GULLY
 - RAIN WATER PIPE
 - ACCESS BOX
 - OUTLET BOX
 - CATCHPIT
 - FLOW CONTROL CHAMBER
 - PROPOSED ATTENUATION TANK
 - PETROL INTERCEPTOR OR SIMILAR
 - PROPOSED SERVICES

P01	ISSUED FOR PLANNING CONDITION DISCHARGE	04.02.22	ATL	MW
Rev:	Description:	Date:	By:	Chkd:

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Status: APPROVAL

Project: HAMMERSTONE ROAD

Orig Title: PROPOSED DRAINAGE
ADJACENT TO RAILWAY LINE

Project No:	Size:	Date:	Drawn By:	Designed By:	Checked By:
068065	A1	04.02.22	ATL	ATL	MW
Scale: 1:250					
Project Code:	Originator:	Zone:	Level:	Type:	Discipline:
HRD	- CUR	- XX	- 00	- DR	- C
92-540 -P01					