



IRISH WATER STANDARD DETAILS AND CODE PRACTICE (FOUL DRAINAGE):
ALL OF THE UNDERGROUND FOUL DRAINAGE WORKS, FROM THE PUBLIC SIDE INSPECTION CHAMBER TO NEW CONNECTION TO EXISTING PUBLIC MANHOLE, SHOULD BE CARRIED OUT IN ACCORDANCE WITH IRISH WATER'S NEW "WASTEWATER INFRASTRUCTURE STANDARD DETAILS" AND "CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE".

PIPE MATERIALS:

1. SERVICE CONNECTIONS FROM DWELLINGS TO BE 100mm Ø UNPLASTICISED PVC IN ACCORDANCE WITH SECTION 3.13 OF IW CODE OF PRACTICE.
2. FOUL SEWERS TO BE IN ACCORDANCE WITH SECTION 3.13 OF THE IW CODE OF PRACTICE.

TESTING:

1. FOUL SEWER AND MANHOLES TO BE TESTED IN ACCORDANCE WITH SECTION 4.10 OF IW CODE OF PRACTICE.
2. CCTV AND MANHOLE CONDITION SURVEYS TO BE CARRIED OUT IN ACCORDANCE WITH SECTION 1.9 OF IW CODE OF PRACTICE IN ADVANCE OF THE DEFECTS LIABILITY PERIOD.

IRISH WATER INSPECTIONS & AS-BUILTS:

1. CONTRACTOR TO ENSURE THAT IW FIELD ENGINEERS INSPECT WORKS IN ACCORDANCE WITH THE QUALITY ASSURANCE (QA) FIELD INSPECTION REQUIREMENTS MANUAL.
2. CONTRACTOR TO ENSURE THAT AS-CONSTRUCTED ELEMENTS ARE ADEQUATELY SURVEYED PRIOR TO COVERING UP TO ENSURE AS-BUILT DRAWINGS IN ACCORDANCE WITH QUALITY ASSURANCE (QA) FIELD INSPECTION REQUIREMENTS MANUAL CAN BE PRODUCED ON COMPLETION OF WORK.

CONSTRUCTION DETAILS:

ALL SITE WATER SERVICES TO BE IN ACCORDANCE WITH CURRENT IRISH WATER INFRASTRUCTURE STANDARD DETAILS REFER TO IRISH WATER STANDARD DETAILS.
DOCUMENT NO. I.W.-CDS-5039-01

TECHNICAL GUIDANCE DOCUMENT PART H (SURFACE WATER & PRIVATE FOUL DRAINAGE):
ALL PRIVATE FOUL DRAINAGE UPSTREAM OF THE IRISH WATER PRIVATE SIDE INSPECTION CHAMBER AND ALL OF THE SURFACE WATER DRAINAGE SHOULD BE CARRIED OUT IN ACCORDANCE WITH PART H - DRAINAGE & THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.

MATERIALS:

1. ALL UNDERGROUND PIPework TO BE IN ACCORDANCE WITH TABLE 7 OF PART H & SECTION 11 OF THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.

MANHOLES:

1. ALL SURFACE WATER MANHOLES TO BE CONSTRUCTED IN ACCORDANCE WITH SECTION 9 OF THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.

BEDDING:

1. ALL UNDERGROUND PIPework TO BE IN ACCORDANCE WITH DIAGRAM 8 OF PART H & SECTION 11 OF THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.

TESTING:

1. TESTING TO BE IN ACCORDANCE WITH SECTION 12 OF THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
2. ALL EXISTING SEWERS WITHIN THE SITES BOUNDARY SHOULD BE CCTV SURVEYED PRIOR TO COMMENCEMENT OF WORKS.
3. ALL NEW DRAINAGE SHOULD BE CCTV SURVEYED ON COMPLETION OF WORKS.

COPYRIGHT AND OWNERSHIP OF THIS DRAWING IS VESTED IN DRA CONSULTING ENGINEERS. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR STORED IN ANY RETRIEVAL SYSTEM OF ANY NATURE WITHOUT THE WRITTEN PERMISSION OF DRA CONSULTING ENGINEERS AS COPYRIGHT HOLDER EXCEPT AS AGREED FOR USE ON THE PROJECT FOR WHICH THE DOCUMENT WAS ORIGINALLY ISSUED. ©

ALL RIGHT RESERVED BY THE LAW OF COPYRIGHT AND BY INTERNATIONAL COPYRIGHT CONVENTIONS ARE RESERVED TO DRA CONSULTING ENGINEERS. ©

ORDNANCE SURVEY MAPS REPRODUCED UNDER

LICENCE No. CYALS0173115.

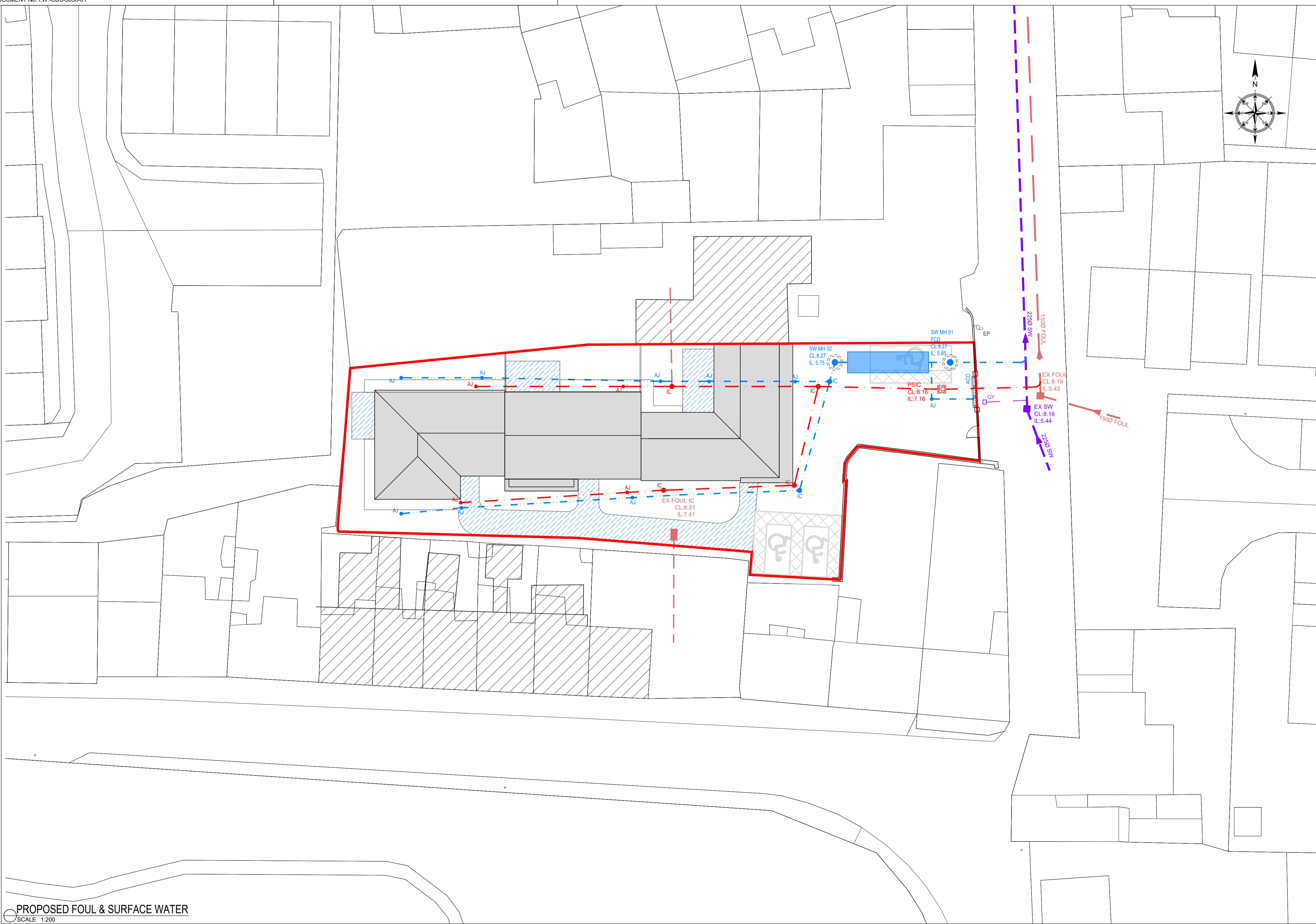
© ORDNANCE SURVEY IRELAND / GOVERNMENT OF IRELAND.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED OTHERWISE.
2. USE FIGURED DIMENSIONS ONLY. DO NOT SCALE.
3. DRAWINGS ARE IN CONJUNCTION WITH ALL RELEVANT ENGINEERS', ARCHITECTS AND SERVICE ENGINEER'S DRAWINGS AND SPECIFICATIONS.
4. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT BUILDING REGULATIONS.

LEGEND:

- SITE BOUNDARY
- EXISTING SURFACE WATER SEWER
- PROPOSED SURFACE WATER SEWER (100mmØ @ 1:100)
- PROPOSED SURFACE WATER INSPECTION CHAMBER AS PER PART H (600-1000mm DEEP Ø450mm)
- PROPOSED SURFACE WATER AJ AS PER PART H (400-600mm DEEP, Ø300mm)
- FLOW CONTROL DEVICE. MAX DISCHARGE = 5.0 l/s (MANHOLE BENCHING AS PER MANUFACTURERS REQUIREMENTS)
- ATTENUATION TANK (STORAGE VOLUME = 2.5m³)
- PERMEABLE PAVING
- EXISTING FOUL SEWER
- PROPOSED FOUL SEWER (100mmØ @ 1:80 - 1:80)
- PROPOSED FOUL INSPECTION CHAMBER AS PER IW DETAIL STD-WW-13 (CIRCA 900mm DEEP)
- PROPOSED FOUL INSPECTION CHAMBER AS PER PART H (600-1000mm DEEP, Ø450mm)
- PROPOSED FOUL AJ AS PER PART H (400-600mm DEEP, Ø300mm)



5	BUILDING FOOTPRINT REVISED	RP	JR	AD	09/04/24
4	ENTRANCE UPDATED	RP	JR	AD	03/11/23
3	DRAINAGE UPDATED TO MATCH GPR SURVEY DRAWING	RP	JR	AD	27/09/23
2	EXISTING INVERT LEVELS ADDED AND DRAINAGE UPDATED	RP	JR	AD	20/09/23
REV.	DESCRIPTION	PROD.	VERIF.	APPR.	DATE

PART 8

DRA
CONSULTING ENGINEERS

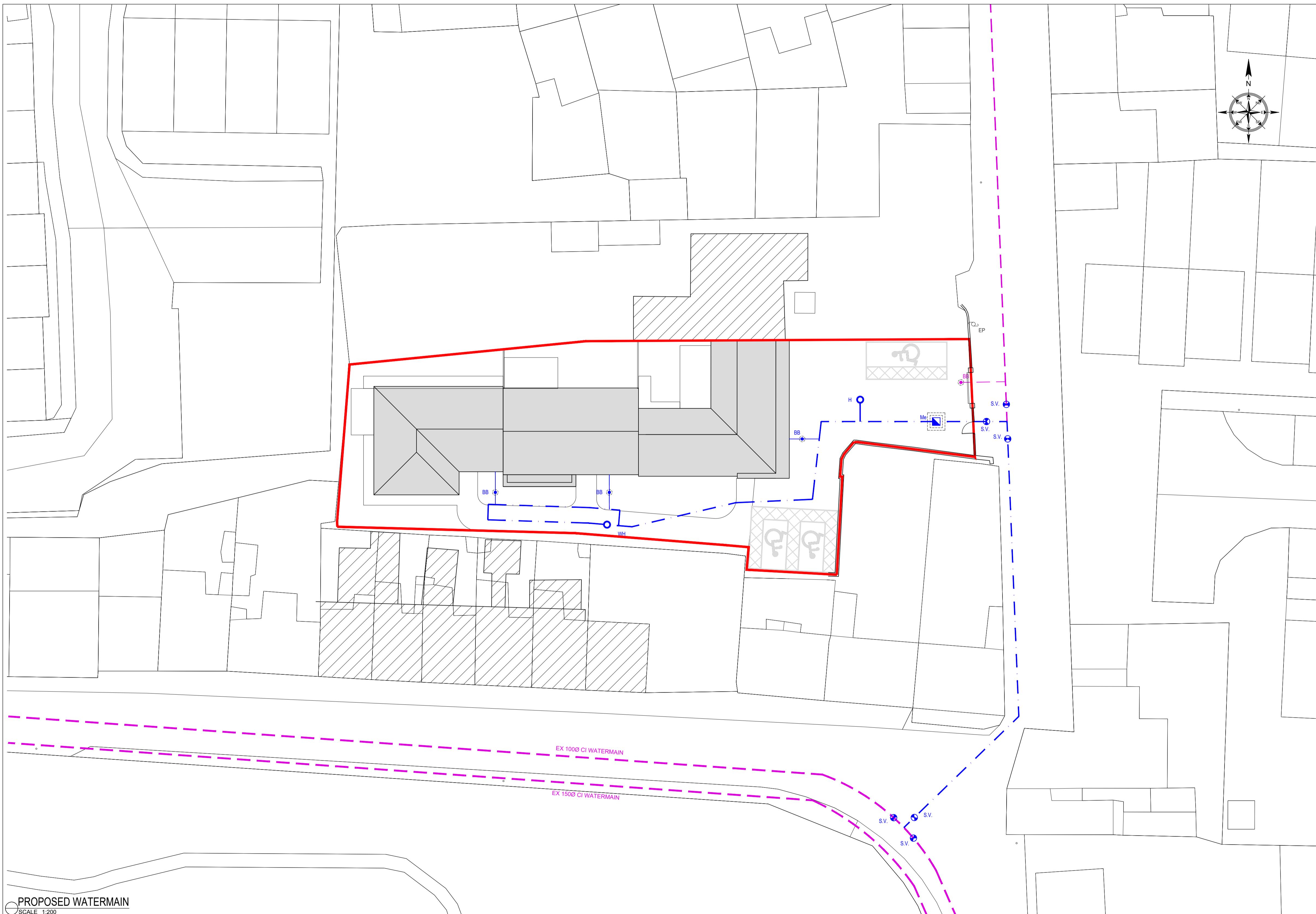


DUBLIN | LIMERICK | WEXFORD | E: info@draconsulting.ie
T: 01-216-2956 | 061-310-701 | 053-915-2814 | W: www.draconsulting.ie

CLIENT:	CORK CITY COUNCIL		
PROJECT:	PROPOSED DEVELOPMENT AT THE GARDENS, ROPE WALK, BLACKROCK, CORK		
TITLE:	PROPOSED FOUL & SURFACE WATER		
DATE:	28/08/2023 SCALES: 1:200 @ A1		
DESIGNER:	RP	DRG. No.	REV.
PRODUCER:	RP		
VERIFIER:	JR		
APPROVER:	AD		

23082-150

5



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED OTHERWISE.
2. USE FIGURED DIMENSIONS ONLY. DO NOT SCALE.
3. DRAWINGS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS', ARCHITECTS AND SERVICE ENGINEER'S DRAWINGS AND SPECIFICATIONS.
4. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT BUILDING REGULATIONS.

LEGEND:

- SITE BOUNDARY** (Red line)
- EXISTING WATERMAIN** (Dashed magenta line)
- EXISTING SLUICE VALVE** (SV)
- EXISTING BOUNDARY BOX** (BB)
- PROPOSED WATERMAIN (1000 PE)** (Blue line)
- PROPOSED SERVICE CONNECTION (250 PE)** (Dashed blue line)
- PROPOSED SLUICE VALVE** (SV)
- PROPOSED HYDRANT** (H)
- PROPOSED WASHOUT HYDRANT** (WH)
- PROPOSED BOUNDARY BOX** (BB)
- PROPOSED WATERMETER** (Me)

IRISH WATER STANDARD DETAILS AND CODE PRACTICE:

ALL OF THE SITE WATERMAIN WORKS SHOULD BE CARRIED OUT IN ACCORDANCE WITH IRISH WATER'S (IW) "WATER INFRASTRUCTURE STANDARD DETAILS" AND "CODE OF PRACTICE FOR WATER INFRASTRUCTURE".

MATERIALS:

1. ALL WATERMAIN PIPE MATERIALS TO BE IN ACCORDANCE WITH SECTION 3.9 OF THE CODE OF PRACTICE.
2. HYDRANT INDICATOR PLATES TO COMPLY WITH BS 750, TYPE 2 SCREW DOWN TYPE & IRISH WATER CODE OF PRACTICE.
3. HYDRANT INDICATOR PLATES TO COMPLY WITH BS 3251 & IRISH WATER CODE OF PRACTICE.

TESTING:

1. ALL ELEMENTS TO BE TESTED IN ACCORDANCE WITH SECTION 4.10 OF IW CODE OF PRACTICE.

IRISH WATER INSPECTIONS & AS-BUILTS:

1. CONTRACTOR TO ENSURE THAT IW FIELD ENGINEERS INSPECTS WORKS IN ACCORDANCE WITH QUALITY ASSURANCE (QA) FIELD INSPECTION REQUIREMENTS MANUAL.
2. CONTRACTOR TO ENSURE THAT AS-CONSTRUCTED ELEMENTS ARE ADEQUATELY SURVEYED PRIOR TO COVERING UP TO ENSURE AS-BUILT DRAWINGS IN ACCORDANCE WITH QUALITY ASSURANCE (QA) FIELD INSPECTION REQUIREMENTS MANUAL CAN BE PRODUCED ON COMPLETION OF WORK.

6	WATERMAIN UPDATED	RP	JR	AD	23/04/24
5	BUILDING FOOTPRINT REVISED	RP	JR	AD	09/04/24
4	ENTRANCE UPDATED	RP	JR	AD	03/11/23
3	UPDATED TO REFLECT UPDATED SITE PLAN	RP	JR	AD	27/09/23
2	UPDATED TO REFLECT DRAINAGE DRAWING	RP	JR	AD	20/09/23
REV.	DESCRIPTION	PROD.	VERIF.	APPR.	DATE

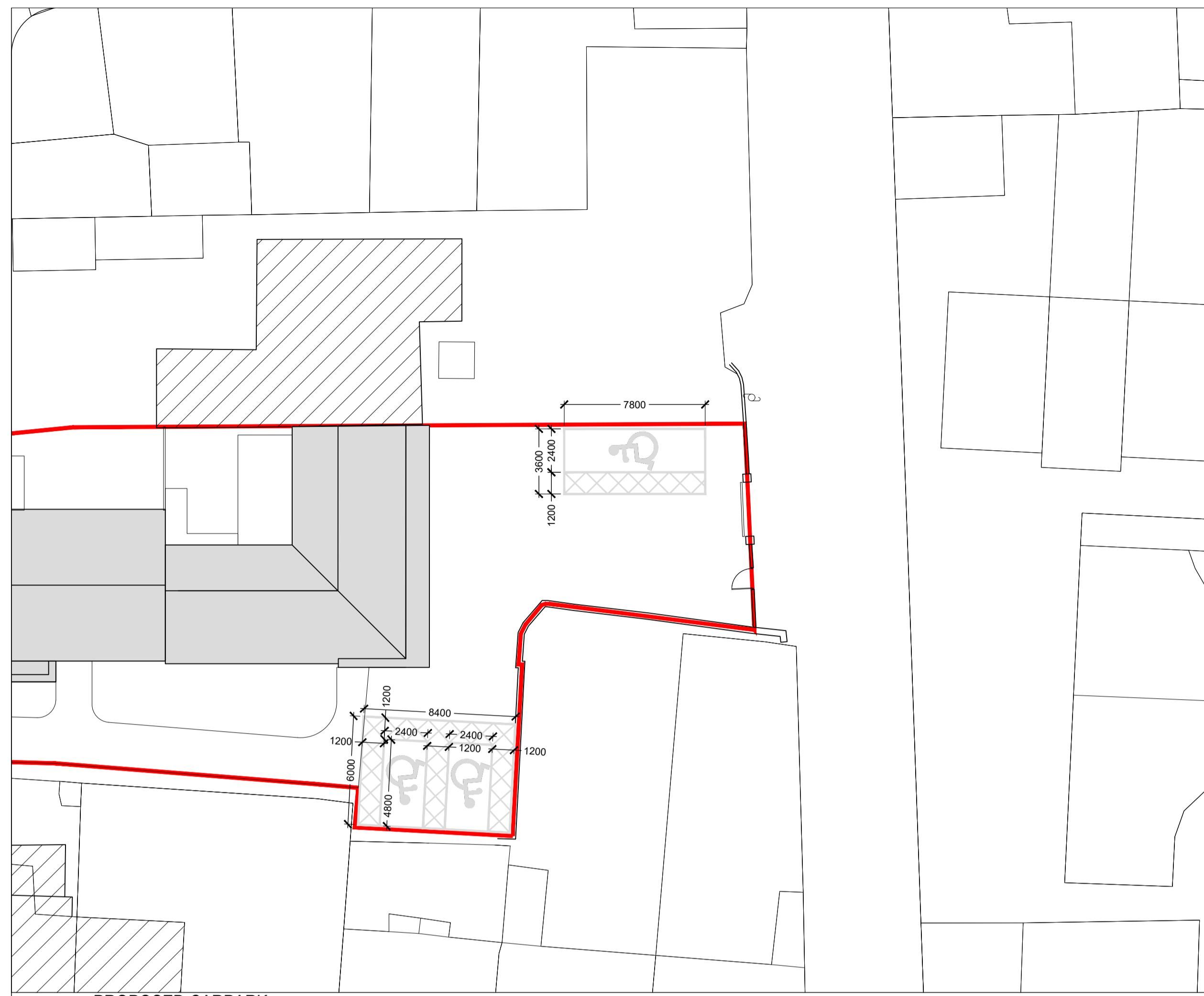
PART 8

DRA
CONSULTING ENGINEERS



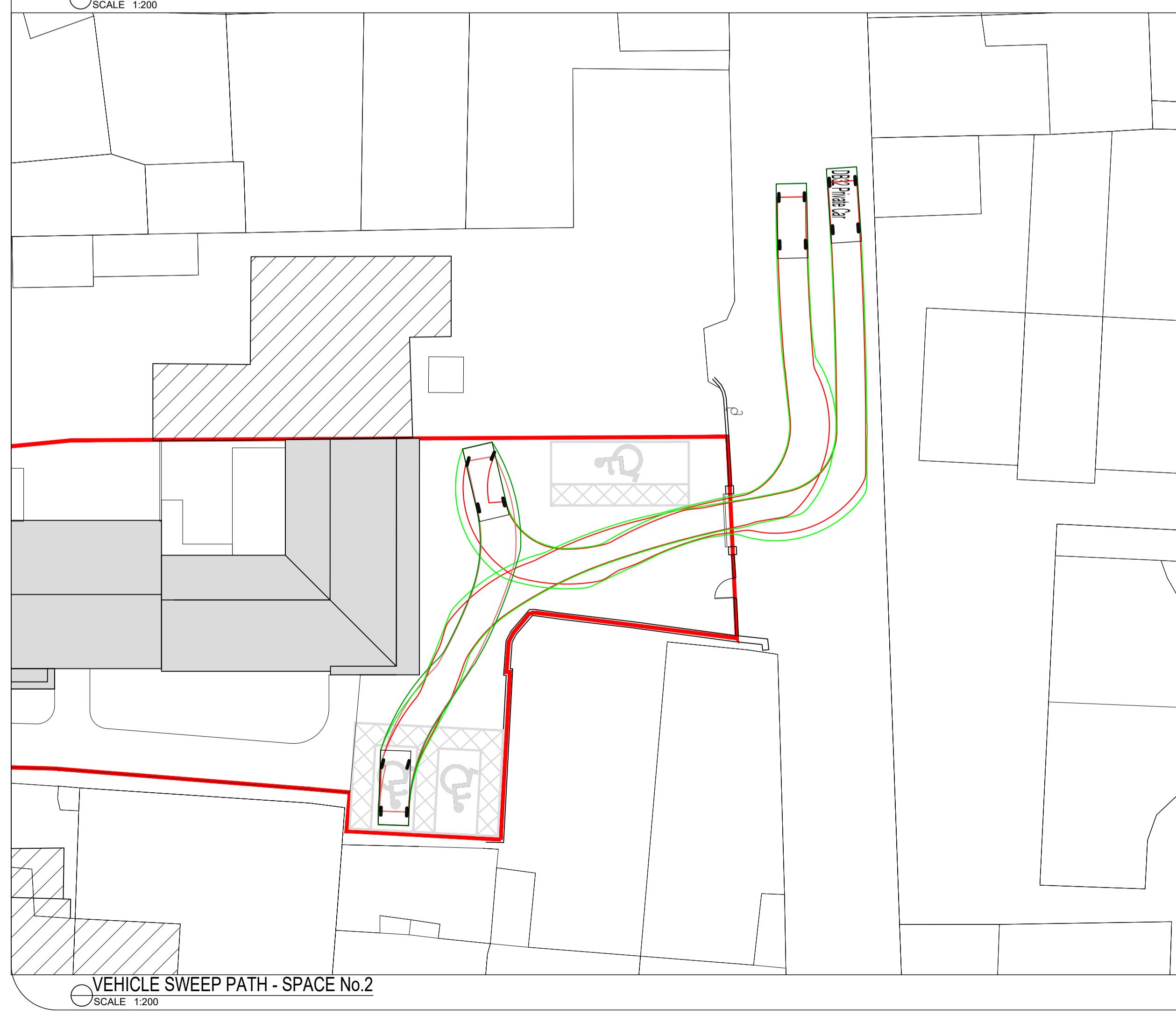
DUBLIN | LIMERICK | WEXFORD | E: info@draconsulting.ie
T: 01-216-2956 | 061-310-701 | 053-915-2814 | W: www.draconsulting.ie

CLIENT:	CORK CITY COUNCIL		
PROJECT:	PROPOSED DEVELOPMENT AT THE GARDENS, ROPE WALK, BLACKROCK, CORK		
TITLE:	PROPOSED WATERMAIN		
DATE:	28/08/2023	SCALES:	1:200 @ A1
DESIGNER:	RP	DRG. No.:	
PRODUCER:	RP		
VERIFIER:	JR		
APPROVER:	AD		
23082-160			
6			



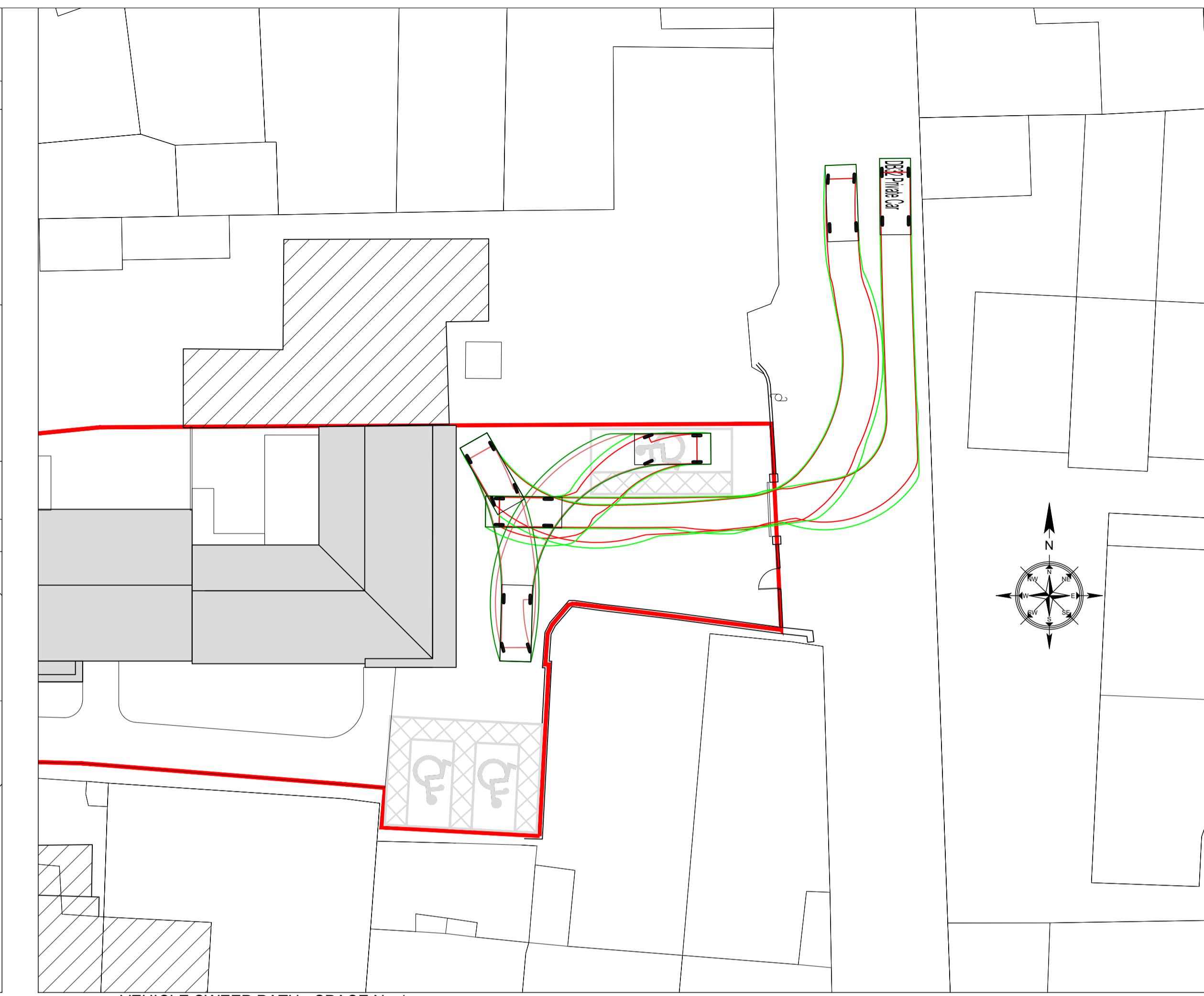
PROPOSED CARPARK

SCALE 1:200



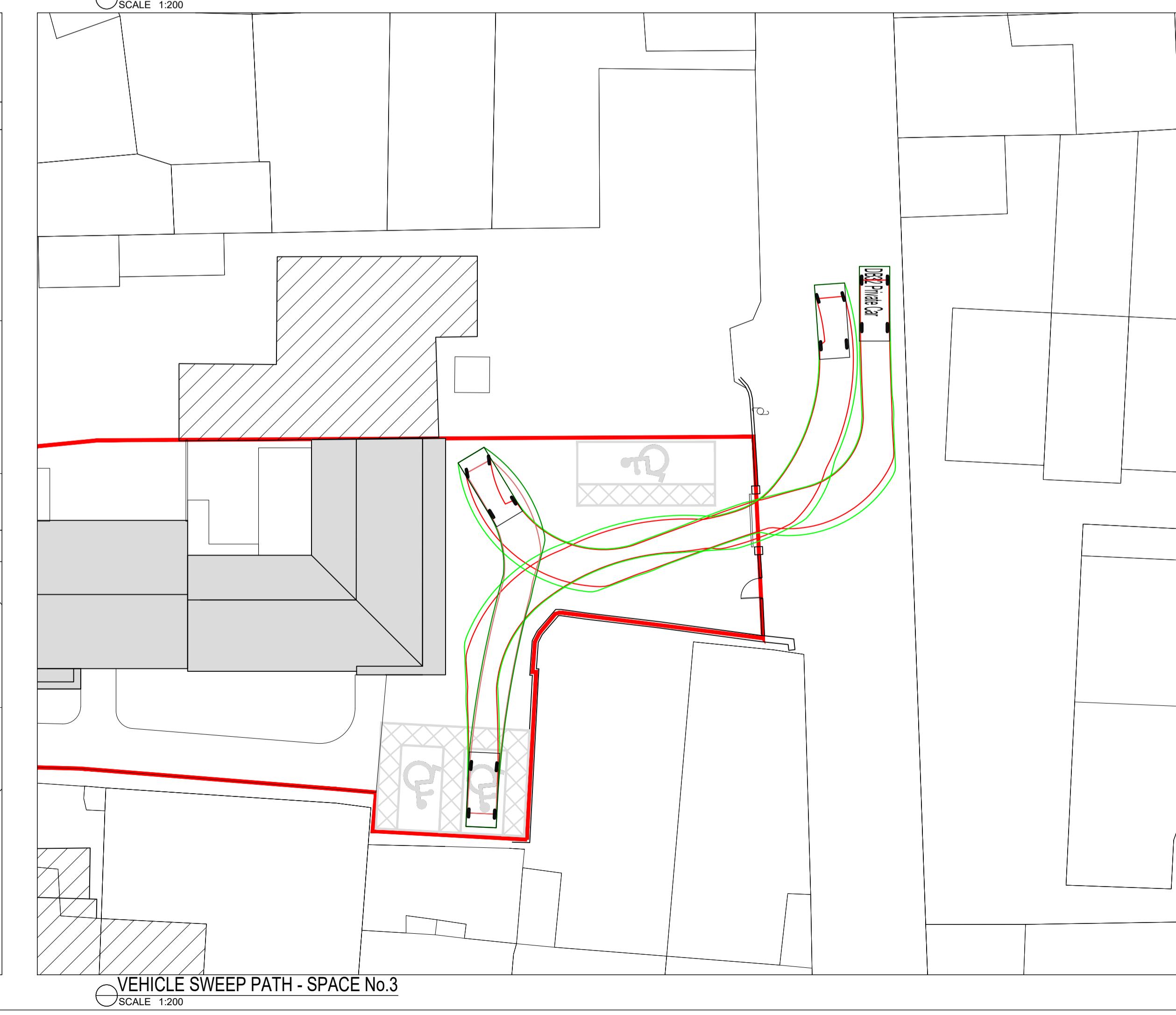
VEHICLE SWEEP PATH - SPACE No.2

SCALE 1:200



VEHICLE SWEEP PATH - SPACE No.1

SCALE 1:200



VEHICLE SWEEP PATH - SPACE No.3

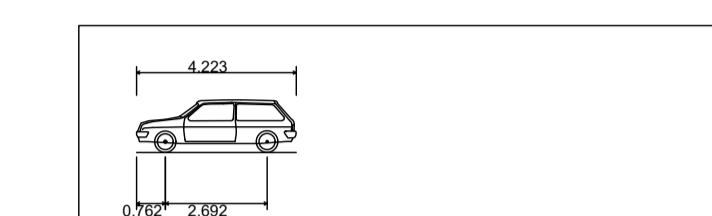
SCALE 1:200

COPYRIGHT AND OWNERSHIP OF THIS DRAWING IS VESTED IN DRA CONSULTING ENGINEERS. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR STORED IN ANY RETRIEVAL SYSTEM OF ANY NATURE WITHOUT THE WRITTEN PERMISSION OF DRA CONSULTING ENGINEERS AS COPYRIGHT HOLDER EXCEPT AS AGREED FOR USE ON THE PROJECT FOR WHICH THE DOCUMENT WAS ORIGINALLY ISSUED. ©

ALL RIGHT RESERVED BY THE LAW OF COPYRIGHT AND BY INTERNATIONAL COPYRIGHT CONVENTIONS ARE RESERVED TO DRA CONSULTING ENGINEERS. ©

ORDNANCE SURVEY MAPS REPRODUCED UNDER LICENCE No. CYALS0173115.
© ORDNANCE SURVEY IRELAND / GOVERNMENT OF IRELAND.

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED OTHERWISE.
2. USE FIGURED DIMENSIONS ONLY. DO NOT SCALE.
3. DRAWINGS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS, ARCHITECTS AND SERVICE ENGINEER'S DRAWINGS AND SPECIFICATIONS.
4. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT BUILDING REGULATIONS.



DB32 Private Car
Overall length 4.223m
Overall Width 1.75m
Overall Body Height 1.31m
Min Body Ground Clearance 0.233m
Max Track Width 1.629m
Lock-to-lock time 4.00s
Curb to Curb Turning Radius 5.780m

VEHICLE DETAILS
SCALE NTS

4	BUILDING FOOTPRINT REVISED	RP	JR	AD	09/04/24
3	CARPKING REVISED	RP	JR	AD	03/11/23
2	CARPKING REVISED	RP	JR	AD	27/09/23
REV. DESCRIPTION					PROD. VERIF. APPR. DATE

PART 8

DRA
CONSULTING ENGINEERS
T: 01-216-2956 | LIMERICK: 061-310-701 | WEXFORD: 053-915-2814
E: info@draconsulting.ie | W: www.draconsulting.ie



CLIENT:
CORK CITY COUNCIL

PROJECT: PROPOSED DEVELOPMENT AT THE GARDENS, ROPE WALK, BLACKROCK, CORK

TITLE: PROPOSED CARPARK & VEHICLE SWEEP PATH ANALYSIS

DATE: 18/09/2023	SCALES: 1:200 @ A1	DRG. No.	REV.
DESIGNER: RP			
PRODUCER: RP			
VERIFIER: JR			
APPROVER: AD			

23082-170