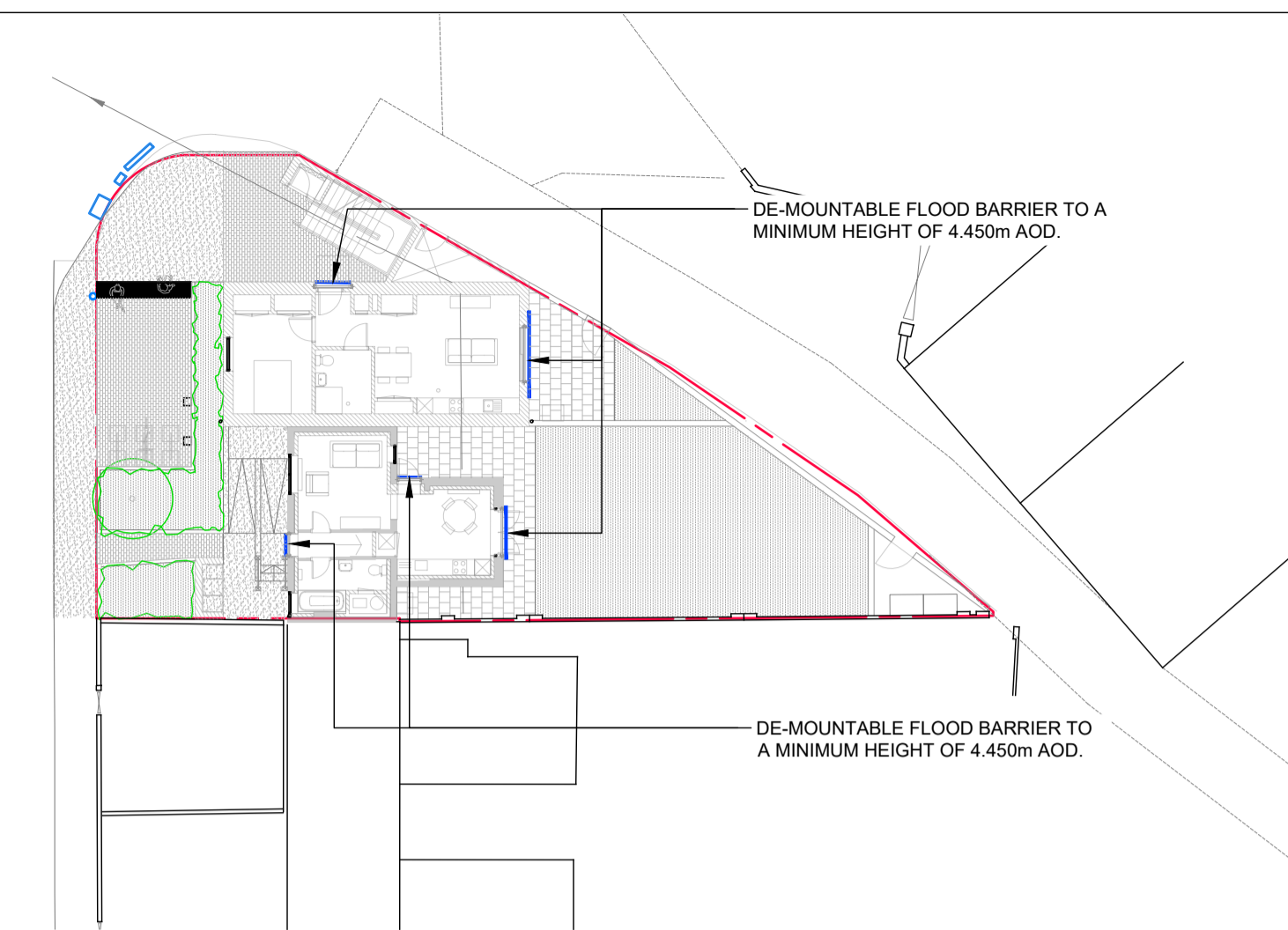
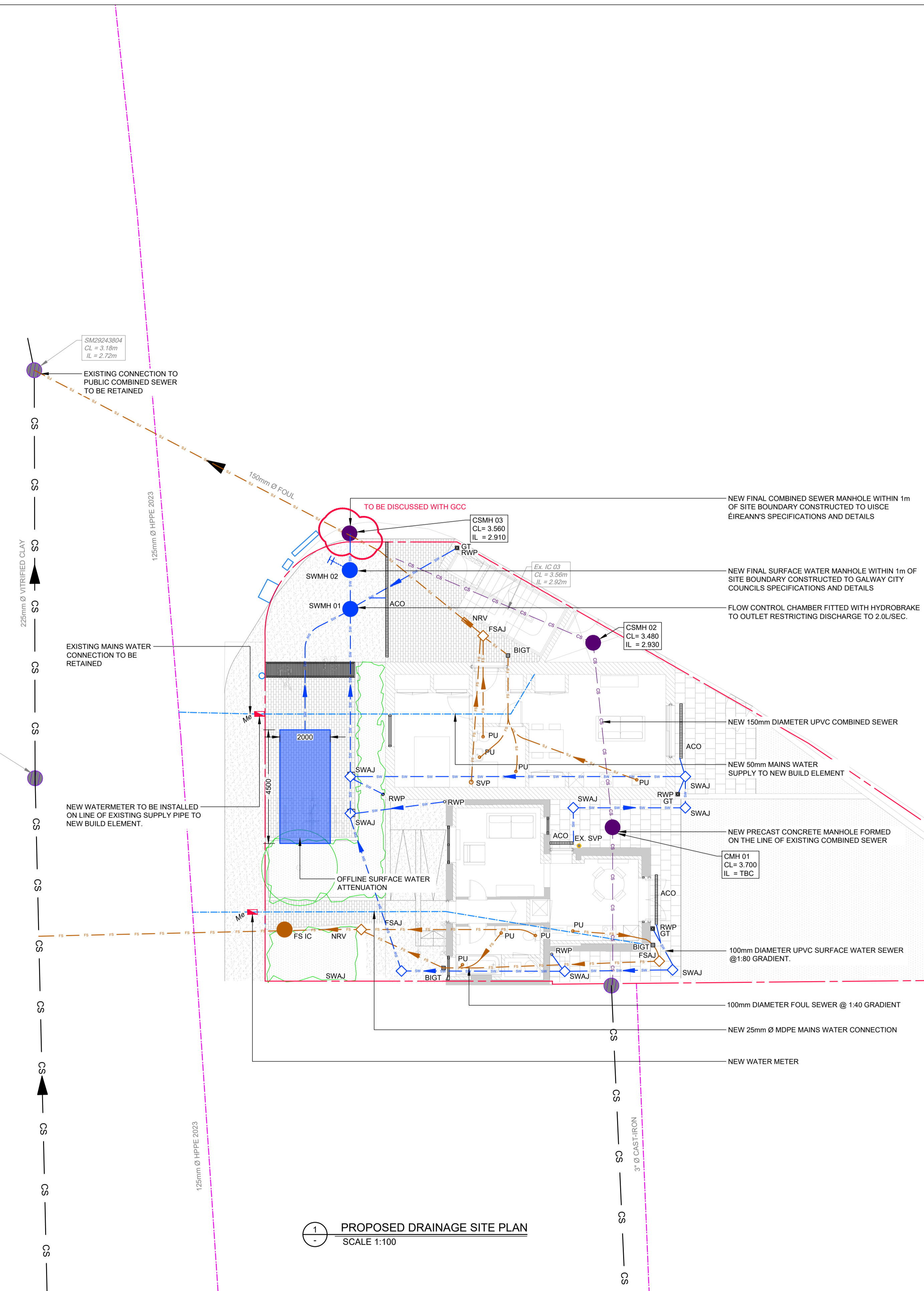


REV. NO.	REV. DESCRIPTION	REV. DATE	DRAWN	CHECKED
PC1	PRECONNECTION ISSUE	01/12/2023	BD	JP
D01	ISSUED FOR COMMENT	19/02/2024	JP	JP
D02	FLOOD BARRIERS ADDED	21/02/2024	JP	JP
D03	LAYOUT UPDATED	22/02/2024	JP	JP
D04	LAYOUT UPDATED	16/10/2024	AZ	JP
D05	LAYOUT UPDATED	18/11/2024	AZ	JP
T01	TENDER ISSUE	29/11/2024	AZ	JP
T02	TENDER ISSUE	05/12/2024	AZ	JP
T03	TENDER ISSUE	20/12/2024	AZ	JP
P1	PLANNING ISSUE	16/04/2025	AZ	JP

DRAINAGE LEGEND	
CS	COMBINED SEWER (EXISTING)
CS	COMBINED SEWER (NEW)
FS	FOUL SEWER (NEW)
SW	SURFACE WATER SEWER (NEW)
---	EXISTING SEWER TO BE DECOMMISSIONED
---	EXISTING WATER MAIN
---	PROPOSED WATER MAIN
EX. CSMH / IC	EXISTING COMBINED SEWER MANHOLE / INSPECTION CHAMBER
EX. MH / IC	EXISTING MANHOLE / INSPECTION CHAMBER TO BE DEMOLISHED
CSMH / IC	NEW COMBINED SEWER MANHOLE / INSPECTION CHAMBER
SWMH / IC	NEW SURFACE WATER MANHOLE / INSPECTION CHAMBER
EX. SVP	EXISTING SOIL VENT PIPE
RWP	NEW RAIN WATER DOWN PIPE
FSAJ	NEW FOUL SEWER ACCESS JUNCTION
SWAJ	NEW SURFACE WATER ACCESS JUNCTION
ACO	NEW ACO DRAIN
Me	NEW METER



2 FLOOD BARRIER LOCATIONS  
SCALE 1:250



1 PROPOSED DRAINAGE SITE PLAN  
SCALE 1:100

**SURFACE WATER ATTENUATION**  
ATTENUATED SURFACE WATER TO BE STORED IN 4.50m x 2.0m x 0.40m DEEP ATTENUATION TANK CONSTRUCTED USING PROPRIETARY MODULAR UNITS WRAPPED IN IMPERMEABLE GEOMEMBRANE AND THEN IN PROTECTIVE GEOTEXTILE MEMBRANE TO PROVIDE WATERTIGHT ATTENUATION STORAGE TANK. MODULAR UNITS OF 95% VOID RATIO SUITABLE FOR TAKING LOADING FROM LIGHT TRAFFIC AREA.  
OUTFLOW FROM FLOW CONTROL MANHOLE TO BE RESTRICTED TO 2.0L/SEC BY MEANS OF HYDROBRAKE UNIT.

**FOUL OUTFALL CONNECTIONS**  
NEW CONNECTIONS FROM PROPOSED DEVELOPMENT TO BE FITTED WITH ACO QUATRIX PASSIVE ANTI-FLOODING VALVE AND ASSOCIATED CHAMBER. THESE ARE DENOTED AS "NRV" ON THE PLAN OVER.

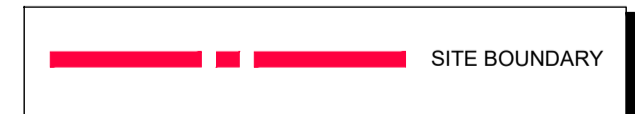
**DRAINAGE NOTES:**

1. READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS.
2. MANHOLE AND ROAD GULLY DETAILS TO COMPLY WITH COMHAIRLE CATHRACH NA GAILLIMHE AND UISCE EIREANN'S STANDARD DETAILS.
3. ALL PIPES TO BE uPVC SAVE FOR SEWERS IN PUBLIC ROADWAY WHICH ARE TO BE CLAY.
4. WHERE COVER TO PIPES IS LESS THAN 1.2M IN ROADS, 1.0M IN PUBLIC AREAS AND 0.8M IN GRASSED/LANDSCAPED AREAS, SURROUND THE PIPE UP TO 150MM WITH 100MM CONCRETE AND LARGER PIPES WITH 150MM CONC.
5. BACK-FILL TRENCHES IN ROADS WITH MOT STONE COMPACTED IN LAYERS.
6. CLOSE ROAD GULLIES IN THE DIRECTION OF TRAFFIC FLOW.
7. ADJUST FOUNDATION DEPTHS, AS NECESSARY, ADJACENT TO SEWERS TO AVOID UNDERMINING OF THE FOUNDATIONS.
8. DO NOT SET OUT FROM THIS DRAWING. SETTING OUT TO BE DONE FROM ARCHITECT'S DRAWINGS.
9. MANHOLE COVERS AND FRAMES SHALL COMPLY WITH THE LA STANDARD PATTERN WITH MIN OPENING OF 600MM & WITH CLOSED KEYWAYS. HEAVY DUTY TYPE A MANHOLES IN ALL TRAFFICKED AREAS AND MEDIUM DUTY TYPE B ELSEWHERE. TO BS EN124. TYPE C MAY BE USED IN ENCLOSED PRIVATE GARDENS.
10. DOUBLE GULLIES, WITH SEPARATE CONNECTIONS TO MAIN, TO BE PROVIDED AT LOW POINTS AND AT THE ENDS OF CUL DE SACS. MAXIMUM RUN OF PIPE 15M. MINIMUM PIPE DIAMETER 150MM. MAXIMUM GULLY SPACING FOR ROADS UP TO 7M WIDE TO BE 50M UNO.
11. MANHOLES ON HOUSE DRAINS TO BE IN PRIVATE PROPERTY. HOUSE DRAINS SHALL NOT PASS THROUGH PROPERTY THEY DO NOT SERVE.
12. RECORD DRAWINGS OF THE AS CONSTRUCTED WORK SHALL BE MADE AVAILABLE TO CORA AT THE END OF THE PROJECT.

- NOTES:**
- ALL FOUL PIPES ARE 100mm Ø @ 1:60 U.N.O.
  - ALL SURFACE WATER PIPES ARE 100mm Ø @ 1:100 U.N.O.

**IMPORTANT NOTE:**  
LOCATION OF EXISTING DRAINAGE NETWORK SHOWN INDICATIVELY. LEVELS AND LAYOUT OF EXISTING DRAINAGE TO BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION WORK. CONTRACTOR TO ALLOW FOR ANY INVESTIGATION WORK REQUIRED INCLUDING C.C.T.V. SURVEY WHERE NECESSARY.

**NOTE:**  
EXISTING CONNECTION TO COMBINED SEWER TO BE RETAINED - SUBJECT TO SUITABILITY. CONTRACTOR TO ALLOW FOR CCTV CAMERA SURVEY OF EXISTING NETWORK. ALL NEW CONNECTIONS TO BE FORMED STRICTLY IN ACCORDANCE WITH IRISH WATER DETAILS.



Drawing Stage:  
**PLANNING**

Project Details:	
Site Address:	No. 1 MUNSTER AVENUE, GALWAY CITY
Client:	COMHAIRLE CATHRACH NA GAILLIMHE
Architect:	TAKA ARCHITECTS
M&E Designer:	-
Contractor:	-

Notes

Drawn by:	BD	Checked by:	JP	Approved by:	JP	Date:	01/12/2023
Project Name:	No. 1 MUNSTER AVENUE			Scale:	A.S. @ A1	Project Number:	22596
Drawing Title:	PROPOSED WATER SERVICES GENERAL ARRANGEMENT			Project:	CORA	Originator:	-

Behan House,  
10 Lower Mount Street,  
Dublin 2. D02 HT71  
Tel: +353 1 661 1100  
e-mail: info@cora.ie  
Web: www.cora.ie

**CORA**  
CONSULTING ENGINEERS

Level:	Type:	Discipline:	Drawing No:	Stage:	Revision:
-	DR	C	002	P	01