

Proj Name	Housing at 19 & 20 Dr. Croke Place Kilbrin			Cork County Council	
Proj Address	Kilbrin			Engineering Design Team, Housing Directorate,	
Proj No.	N2022014			County Hall, Cork	
Proj Status	Planning			tel - 353 086 0849134 email - john.fleming@corkcoco.ie	
 					
Drawings					
Proj Engineer	John Fleming	Issued by -	Engineering Design Team (EDT) Mech & Elec	DSD	
				day	5
				month	10
			year	2023	
Drg Reference & Drg No.	Drawing Title	Scale	Sheet		
DR-CCC-ME-WD-205-1001	General Services	N/A	A3	✓	
N2022014-DR-CCC-ME-PL-120	Site Services M&E	1:250	A3	✓	
N2022014-DR-CCC-ME-PL-200	Electrical Layout Ground Floor	1:50	A3	✓	
N2022014-DR-CCC-ME-PL-201	Electrical Layout First Floor	1:50	A3	✓	
N2022014-DR-CCC-ME-PL-202	Electrical Layout Ground Floor 14 & 15	1:50	A3	✓	
N2022014-DR-CCC-ME-PL-203	Electrical Layout First Floor 14 & 15	1:50	A3	✓	
N2022014-DR-CCC-ME-PL-216	Lights & Fire Alarm Ground Floor	1:50	A3	✓	
N2022014-DR-CCC-ME-PL-217	Lights & Fire Alarm First Floor	1:50	A3	✓	
N2022014-DR-CCC-ME-PL-218	Lights & Fire Alarm Ground Floor 14 & 15	1:50	A3	✓	
N2022014-DR-CCC-ME-PL-219	Lights & Fire Alarm First Floor 14 & 15	1:50	A3	✓	
N2022014-DR-CCC-ME-PL-241	Mechanical Services Ground Floor	1:50	A3	✓	
N2022014-DR-CCC-ME-PL-242	Mechanical Services First Floor	1:50	A3	✓	
N2022014-DR-CCC-ME-PL-243	Mechanical Services Ground Floor 14 & 15	1:50	A3	✓	
N2022014-DR-CCC-ME-PL-244	Mechanical Services First Floor 14 & 15	1:50	A3	✓	
N2022014-DR-CCC-ME-PL-256	Drains & Ducting Services Ground Floor 14 & 15	1:50	A3	✓	
N2022014-DR-CCC-ME-PL-257	Drains & Ducting Services First Floor 14 & 15	1:50	A3	✓	
N2022014-DR-CCC-ME-PL-271	MEV Services Ground Floor	1:50	A3	✓	
N2022014-DR-CCC-ME-PL-272	MEV Services First Floor	1:50	A3	✓	
N2022014-DR-CCC-ME-PL-273	MEV Services Ground Floor 14 & 15	1:50	A3	✓	
N2022014-DR-CCC-ME-PL-274	MEV Services First Floor	1:50	A3	✓	
N2022014-DR-CCC-ME-PL-286	Attic	1:50	A3	✓	
Purpose Of Issue					
Stage I - Submission					
Stage II - Appointment of Consultants					
Stage II - Project Design					
Stage II -Submission					
179A system X					
Stage III - Tender BoQ					
Stage III - Submission DOE,C&LG					
Stage III - Tender					
Stage IV - Working Drawings					
Stage IV - As Built					
Distribution					
Name		Company/Individual	copies		
Contractors			Print		
Quantity Surveyor			Print		
Engineer - Services			Email		
Engineer - Structural			DWG		
Consultants			CD		
Main Contractor			PDF	X	
Planning Department		X	Print		
Department of Housing, Planning, Community and Local Government			Email		
Circulated to the Design Team Via Alfresco			Email		

ESB

- The service pole and the conductors of the duct are both within the sale boundary.
- ESB's Engineering Offices will confirm the service pole position and the ducting route on-site.
- An outdoor meter cabinet to ESI Standard 12-3 (1986), is established in a suitable location.
- An ESB approved 'hockey stick' is installed at the meter cabinet position.

- the full length of the duct.
- Corrugated Ducting of any colour is not permitted.
- The duct shall be as straight as possible and free of sharp bends.
- A continuous and strong 10mm polypropylene draw rope is installed in the duct. It must be free of knots and secured at both ends of the duct.

- Notes:**
- It is essential that the ESB cable does not come into contact with the early realisation.
 - Allow a projection of 25mm of the hockey stick into the base of the cabinet.
 - There must be a minimum clearance of 100mm between



ESB

LOCATION AND INSTALLATION OF METERING CABINET for Standard Non-scheme Domestic Connection

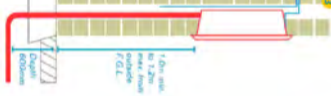
LOCATION

- An outdoor meter cabinet must be provided to the ESB Network (ESBN) located inside (i) the meter cabinet must be directly accessible from the street or driveway, or within 2m of either side of the meter cabinet.
- If any further gas services are required, please discuss these with ESB before installation.
- Unacceptable positions will not be considered these include behind security walls/gates or in porches.
- Damaged cabinets will not be considered.
- Meter cabinets must be installed in accordance with ESB specifications.
- If you need a meter cabinet key to access your outdoor meter cabinet please call us at 1850 372 757



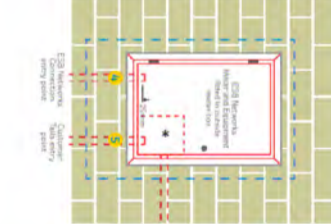
INSTALLATION

- ESB will provide the metering cabinet and associated components.
- ESB will provide the metering cabinet and associated components.
- ESB will provide the metering cabinet and associated components.
- ESB will provide the metering cabinet and associated components.



CUSTOMER TAILS

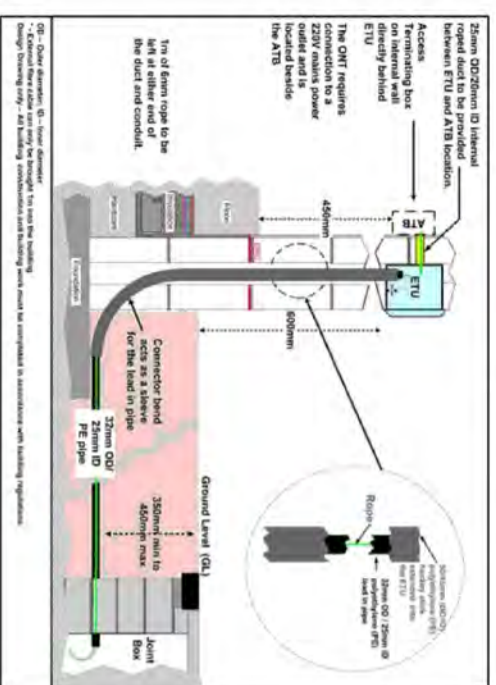
- Customer tails must be installed in accordance with ESB specifications.
- Customer tails must be installed in accordance with ESB specifications.
- Customer tails must be installed in accordance with ESB specifications.



- NOTE:**
- THIS DRAWING IS COPYRIGHT.
 - THIS DRAWING MUST NOT BE SCALED.
 - THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 - FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 - THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.

EIR

Where a New house is being built on ETU must be inserted in the external wall or a convenient location in accordance with the building regulations shown in Fig 2 below.



GAS

1.2 How a New Gas Meter is Installed

A GNI approved contractor will lay and test the gas connection pipe/service pipe in the pre-excavated trench provided by the builder and a top tee connection is made to the main in the path or road as appropriate. The gas connection pipe shall have sand surround and be reinstated as soon as practicable in order to reduce the possibility of external damage on site. Normally 32mm (low pressure) size polyethylene connection pipe and 25mm (medium pressure) size polyethylene connection pipe is used.

A gas connection pipeline is laid by Gas Networks Ireland connecting a building to the natural gas network. The natural gas connection pipeline must be laid in a straight line to the meter location, using the shortest most direct route and where possible at right angles to the gas main. An illustration of this is shown in figure 1.

Marker tape should be placed over all gas mains, gas connections and ducting intended for gas distribution pipes.

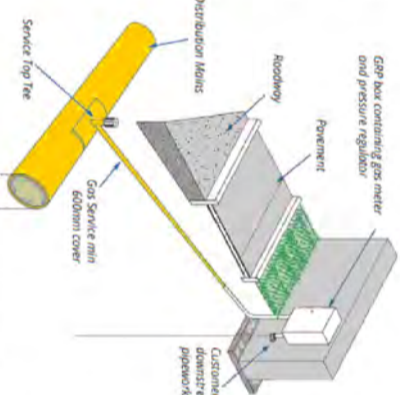
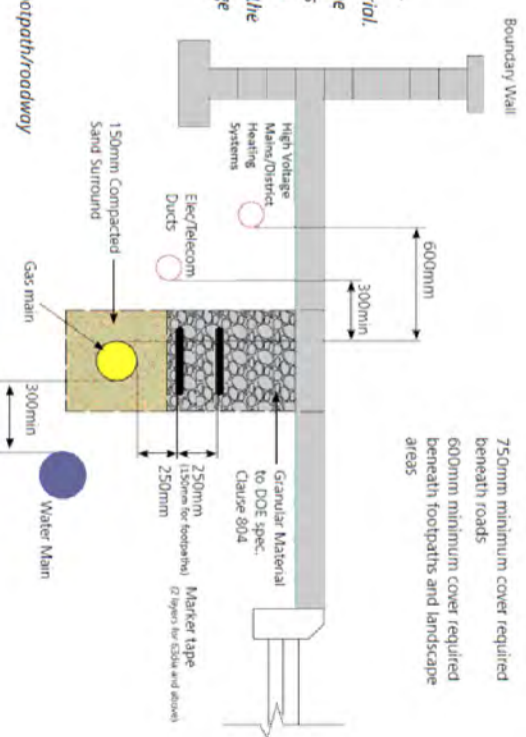


Figure 1: Connection from Gas Main to Residential Meter Box

GAS

N.B. Contractors/Builders must provide their own sand surround and reinstatement material. The main or connection/service pipe must be covered in surround before the Gas Networks Ireland contractor leaves the site. The trench must be reinstated as soon as possible after the pipe is laid to reduce the possibility of damage to the gas pipes.

Figure 2: Recommended gas main layout in a footpath/roadway



GAS

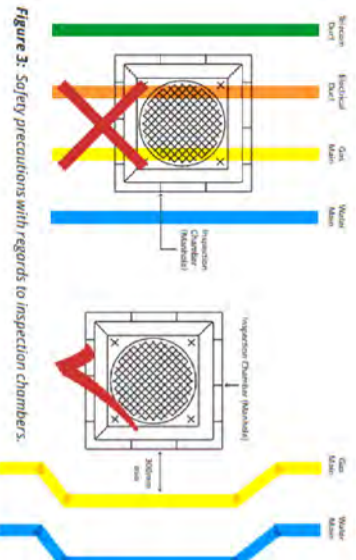


Figure 3: Safety precautions with regards to inspection chambers.

- Note:
- Polyethylene mains and services may not be positioned within the Building Line (as defined by I.S. 329 / I.S. 265).
- For more detailed information always refer to the Gas Networks Ireland Distribution drawings specific to the project.

GAS

Where to locate your meter

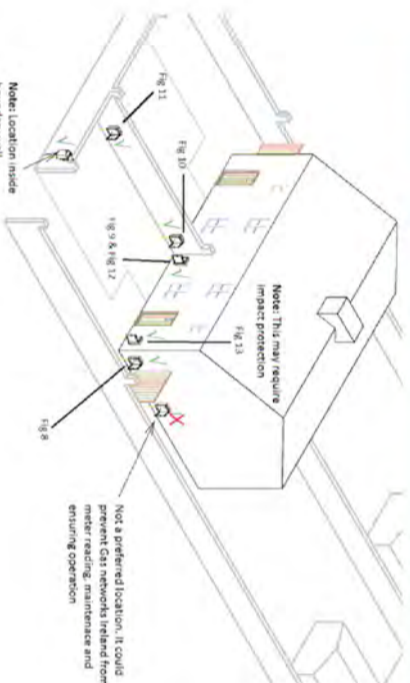


Figure 7 Diagram of possible Meter Locations for a domestic property.

GAS

Where to locate your meter

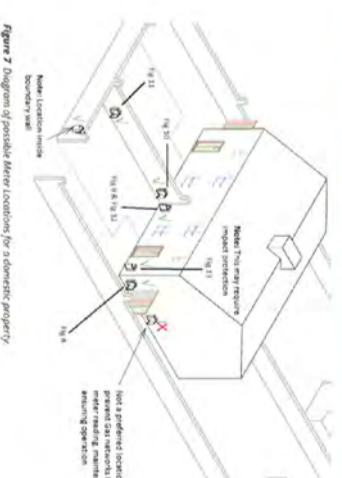
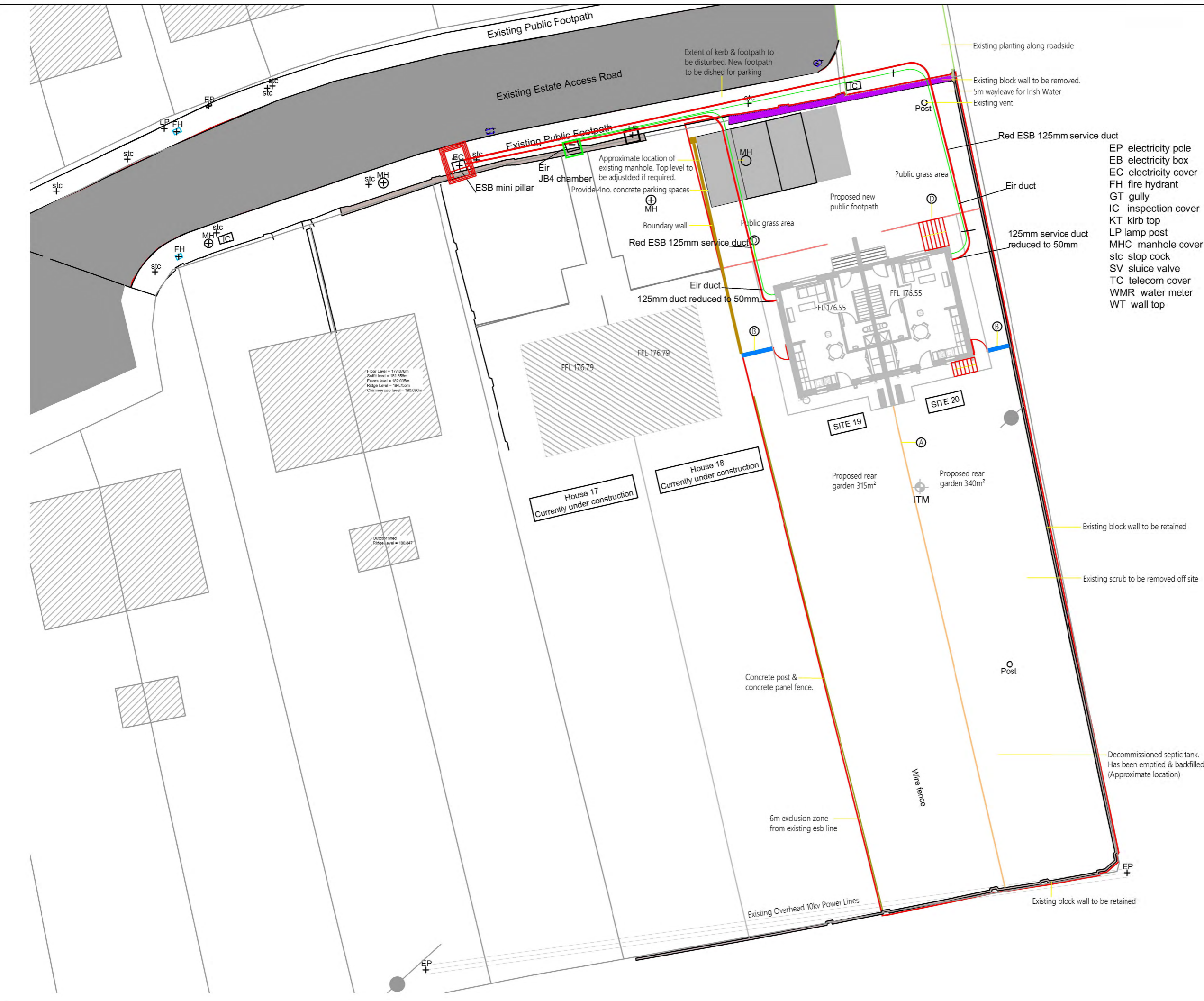


Figure 7 Diagram of possible Meter Locations for a domestic property.

Job Reference: JC		Design Team: JC	
Architect: TOF		Architect: TOF	
Dwg. No.: DR-CC-ME-WD-205_1001		Surveys: RP	
Date: Feb. 23 1:50		Scale: A3	
Issue for: Tender		Sheet: A3	
 Comhairle Contae Chorcaí Albert I Sturthowreacht Irdhotha Architects Housing Directorate County Hall Cork Tel: (021) 4288483 e-mail: architects.housing@comcoco.ie			
Project Title: Housing Development		Project Stage: Tender	
General Services/Utilities		Drawing Title: General Services	
Revision Description		Date	
Rev. No.	Revision Description	Date	

NOTE:
 1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.



EP electricity pole
 EB electricity box
 EC electricity cover
 FH fire hydrant
 GT gully
 IC inspection cover
 KT kerb top
 LP lamp post
 MHC manhole cover
 stc stop cock
 SV sluice valve
 TC telecom cover
 WMR water meter
 WT wall top

- MP Minipillar
- MMP Micropillar
- 125mm ESB supply duct
- 50mm ESB service duct
- 110mm EIR service duct
- EIR JB4 inspection chamber
- Public lighting service duct
- Public light
- ESB pole
- JB 26 Chamber

Rev. No.	Revision Description	Date

Project Stage: Planning

Project Title: Proposed Housing Development
 No.19 & 20 Dr. Croke Place, Kilbrin.

Drawing Title: ESB - Eir Site Services

Conhairle Contae Chorcaí
 Ailtirí | Stúirthóiríocht Tithíochta

Cork County Council
 Architects | Housing Directorate

County Hall, Cork
 Tel: (021) 4285433
 e-mail: architects.housing@co.kccoco.ie

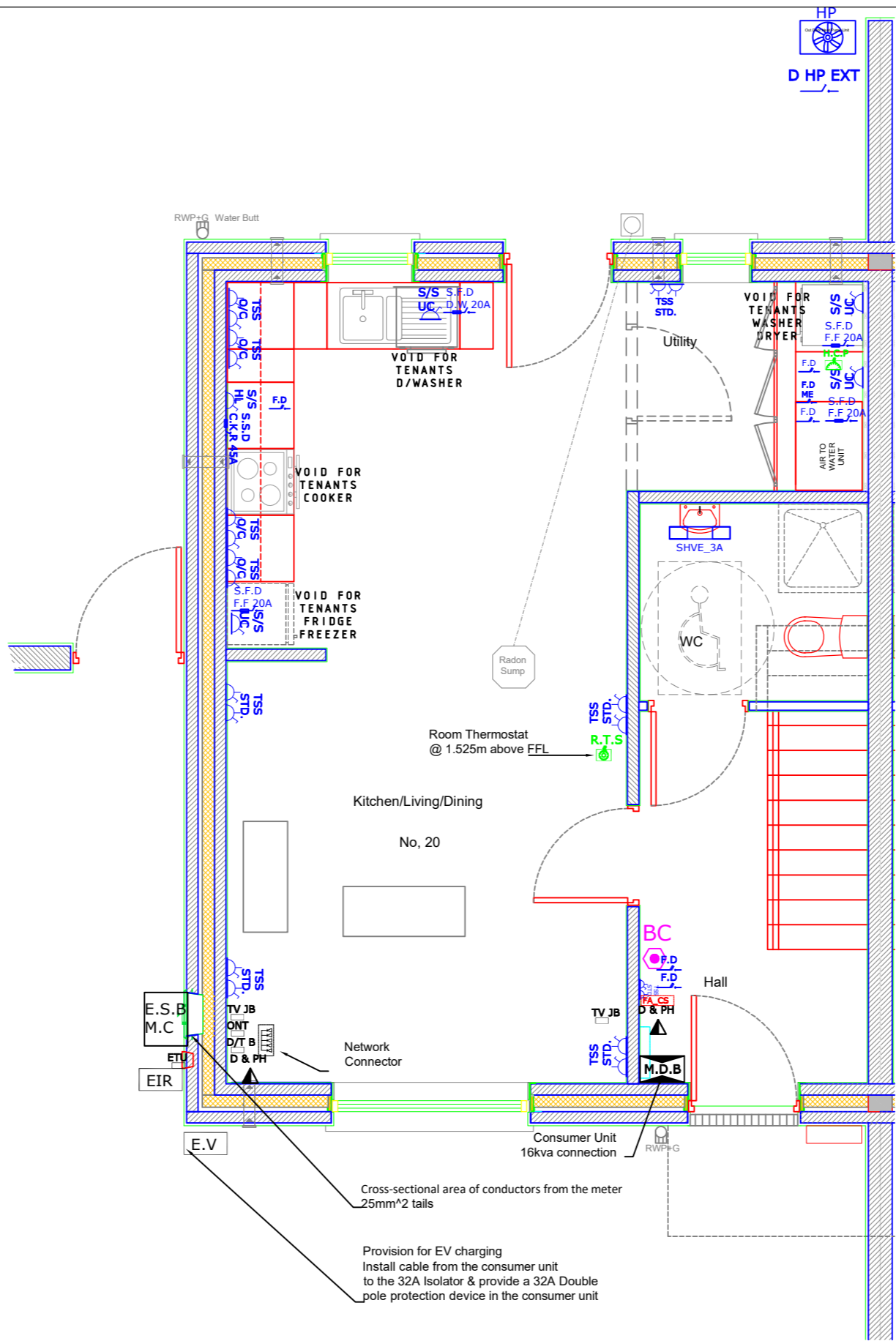
Job Reference: N2022014	Sheet: A3	Design Team: Architect: JC Technician: ToF Surveyor: RB Snr. Architect: R. Henry Engineer: J. Fleming
Dwg. No.: DR-CCC-A-PL-120	Date: Oct. 2023	Scale: 1:250
Date: Oct. 2023	Scale: 1:250	Issue for: Planning



Legend, Electrical Services

- Single Switched Socket 400mm FFL
- Single Switched Socket High Level, Extractor Fan
- Single Switched Socket 400mm FFL, Under Counter
- Double Switched Socket 400mm FFL
- Double Switched Socket 1200mm FFL
- Double Switched Socket Under Counter 400mm FFL
- Switched Fused Disconnection (Spur)
- Switched Fused Disconnection (Spur) 16A
- Switched Fused Disconnection (Spur) Dish Washer 20A
- Fused Disconnection (Spur) Booster Pump Isolator Heat Pump EXT
- Fused Disconnection (Spur) 45A Shower
- Switched Disconnection (Spur) 45A, Cooker
- Data & Telephone
- TV Junction Box
- Access Terminating Box
- Data & Telephone Box
- Fibre Terminal Box
- Data Patch Panel
- Data Point
- External Terminating Unit
- Heating control unit
- Room temperature stat
- Telephone
- TV socket
- Motorised Valve
- Switch 1 Gang 1 Way
- Switch 1 Gang 2 Way
- Switch 2 Gang 1 Way
- Switch 3 Gang 1 Way
- Door Bell Push Button
- Door Bell Chime
- Shaver Light
- Smoke Head
- Heat Detector
- Carbon monoxide detector
- Fire Alarm Control Switch
- Mechanical Extraction Control Switch
- External Temperature Sensor
- Ceiling Rose
- LED Bulk Fitting Head External
- LED Bulk Fitting Head Internal
- Main Distribution/Consumer Unit
- ESB Meter Cabinet
- EIR Incoming
- Electric Vehicle Charging Point, Isolator & Charger complete with DCL Protection

NOTE:
 1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.



Proposed layout consumer/distribution board for 19 & 20 Kilbrin 16kva connection

Main Isolating Switch 2 Pole		Arc Fault detection devices to be used													
		Surge Protection		63A RCBO		20A MCB		20A MCB		20A MCB		20A MCB		32A RCD/RCBO Provision EV Charging	
				Kitchen Sockets		Kitchen Sockets		Utility Sockets		Living Room Sockets		Hall, Landin Store Sockets		Bedroom Sockets	
32A MCB Cooker	32A RCBO HP Out Door	20A RCBO Indoor HP	20A RCBO Booster Pump	20A RCBO Fridge	10A RCBO Heat CTRL	10A RCBO Kitchen Dining Room Utility External Lights	10A RCBO Bed Room Store Lights	10A RCBO Bed Room Bath room Lights	10A RCBO Landing Hall Exterior Lights	6A RCBO Fire Alarm Intruder D Bell	6A RCBO MEV				

Final Locations to be agreed on site
 The drawings detail the functional requirements and arrangements of the services

Rev. No.	Revision Description	Date

Project Stage: Planning

Project Title: Housing Development
 19 & 20 Dr. Croke Place, Kilbrin.

Drawing Title: Electrical Layout Ground Floor

Comhairle Contae Chorcaí
 Ailtirí | Stiúrthóireacht Tithíochta
Cork County Council
 Architects | Housing Directorate
 County Hall, Cork
 Tel: (021) 4285433
 e-mail: architects.housing@corccoco.ie

Job Reference: N2022014	Design Team: Architect: JC Technician: TOF Surveyor: JF Engineer: JF Sr. Architect: R. Henry
Dwg. No.: DR-CCC-ME-PL-200	Sheet: A3
Date: Oct.2023 1:50	Scale: Planning

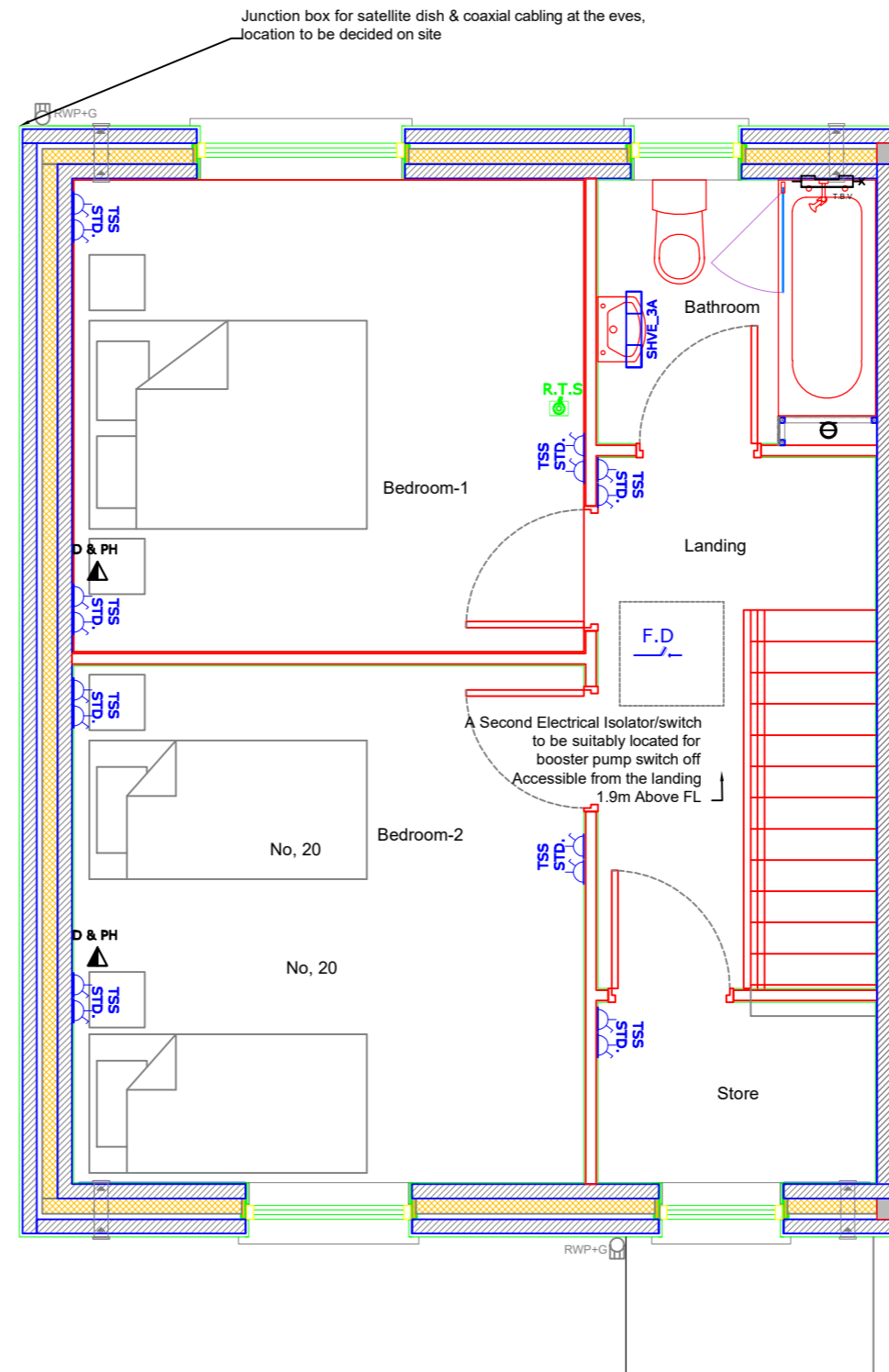
The electrical equipment used in this install shall comply with the European product standard(s) which includes I.S. EN, HD or an I.S. implementing HD, in absence of these standards the following appropriate standard(s) shall apply: Irish Standards (I.S.), or IEC standards not approved in CENELEC; or national standard(s) of another country.
 Where there are no applicable standards, the item concerned shall be selected by special agreement between the persons specifying the installation and the installer. The resulting degree of safety of the installation shall not be less than obtained by compliance with I.S. 10101 (2020).

Distribution boards/consumer unit manufactured from materials complying EN 61439, erected at a height not greater than 2.15m to the top of the highest protective device, to include 2 pole isolation switch, over current protection, surge protection, arc fault detection.

Legend, Electrical Services

- Single Switched Socket 400mm FFL
- Single Switched Socket High Level, Extractor Fan
- Single Switched Socket 400mm FFL, Under Counter
- Double Switched Socket 400mm FFL
- Double Switched Socket 1200mm FFL
- Double Switched Socket Under Counter 400mm FFL
- Switched Fused Disconnection (Spur)
- Switched Fused Disconnection (Spur) 16A
- Switched Fused Disconnection (Spur) Dish Washer 20A
- Fused Disconnection (Spur) Booster Pump Isolator Heat Pump EXT
- Fused Disconnection (Spur) 45A Shower
- Switched Disconnection (Spur) 45A, Cooker
- Data & Telephone
- TV Junction Box
- Access Terminating Box
- Data & Telephone Box
- Fibre Terminal Box
- Data Patch Panel
- Data Point
- External Terminating Unit
- Heating control unit
- Room temperature stat
- Telephone
- TV socket
- Motorised Valve
- Switch 1 Gang 1 Way
- Switch 1 Gang 2 Way
- Switch 2 Gang 1 Way
- Switch 3 Gang 1 Way
- Door Bell Push Button
- Door Bell Chime
- Shaver Light
- Smoke Head
- Heat Detector
- Carbon monoxide detector
- Fire Alarm Control Switch
- Mechanical Extraction Control Switch
- External Temperature Sensor
- Ceiling Rose
- LED Bulk Fitting Head External
- LED Bulk Fitting Head Internal
- Main Distribution/Consumer Unit
- ESB Meter Cabinet
- EIR Incoming
- Electric Vehicle Charging Point, Isolator & Charger complete with DCL Protection

NOTE:
 1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.



Proposed layout consumer/distribution board for 19 & 20 Kilbrin 16kva connection											
Arc Fault detection devices to be used											
Main Isolating Switch 2 Pole	Surge Protection	63A RCBO	20A MCB Kitchen Sockets	20A MCB Kitchen Sockets	20A MCB Utility Sockets	20A MCB Living Room Sockets	20A MCB Hall, Landin Sockets	20A MCB Bedroom Sockets	20A MCB Bedroom Sockets	32A RCD/RCBO Provision EV Charging	
32A MCB Cooker	32A RCBO HP Out Door	20A RCBO Indoor HP	20A RCBO Booster Pump	20A RCBO Fridge	10A RCBO Heat CTRL	10A RCBO Kitchen Dining Room Utility External Lights	10A RCBO Bed Room Store Lights	10A RCBO Bed Room Bath Room Lights	10A RCBO Landing Hall Exterior Lights	6A RCBO Fire Alarm Intruder D Bell	6A RCBO MEV

Final Locations to be agreed on site
 The drawings detail the functional requirements and arrangements of the services

The electrical equipment used in this install shall comply with the European product standard(s) which includes I.S. EN, HD or an I.S. implementing HD, in absence of these standards the following appropriate standard(s) shall apply: Irish Standards (I.S.), or IEC standards not approved in CENELEC; or national standard(s) of another country.
 Where there are no applicable standards, the item concerned shall be selected by special agreement between the persons specifying the installation and the installer. The resulting degree of safety of the installation shall not be less than obtained by compliance with I.S. 10101 (2020).

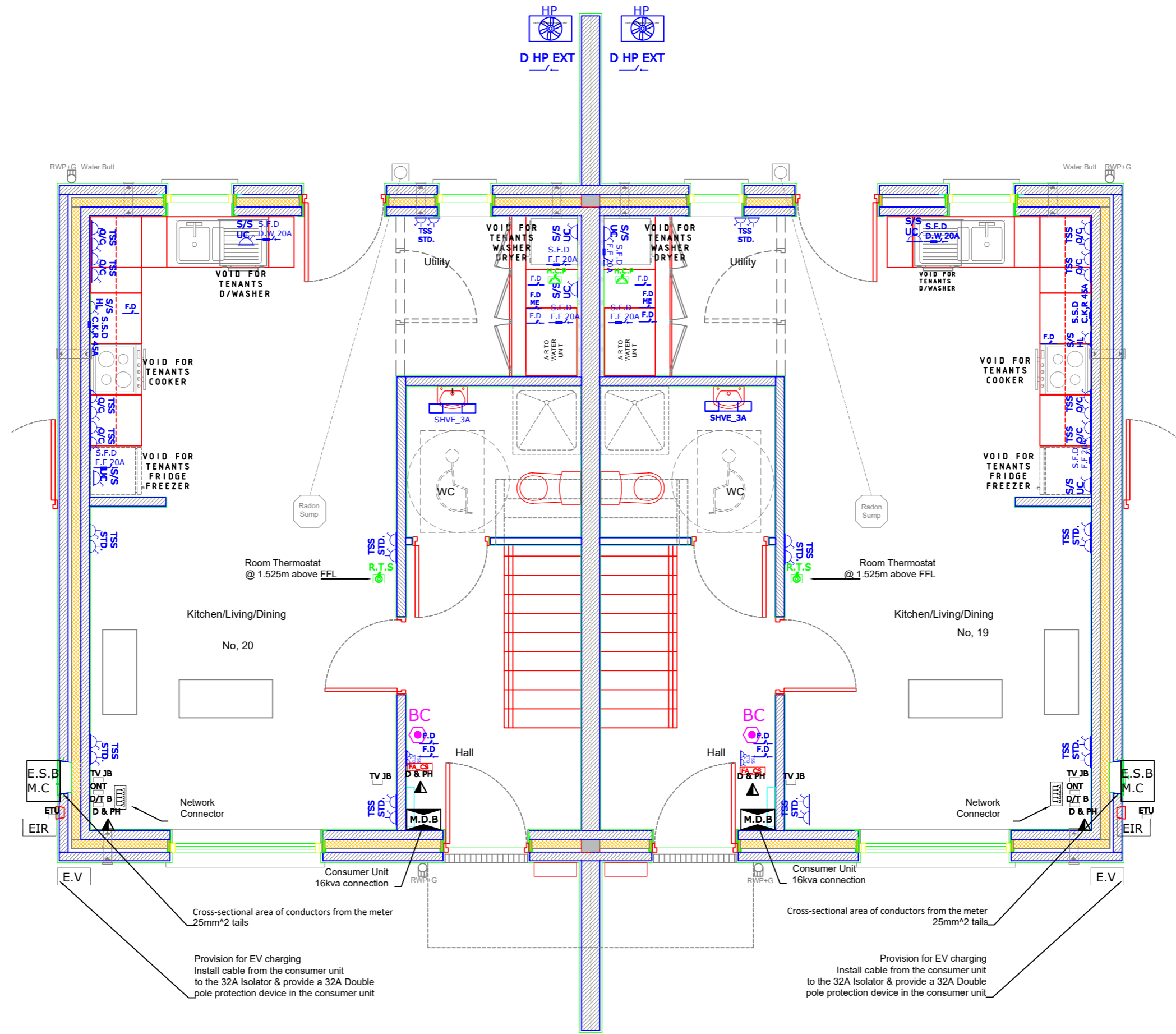
Distribution boards/consumer unit manufactured from materials complying EN 61439, erected at a height not greater than 2.15m to the top of the highest protective device, to include 2 pole isolation switch, over current protection, surge protection, arc fault detection.

Rev. No.	Revision Description	Date
Project Stage: Planning		
Project Title: Housing Development 19 & 20 Dr. Croke Place, Kilbrin.		
Drawing Title: Electrical Layout First Floor		
 Comhairle Contae Chorcaí Ailtirí Stiúrthóireacht Tithíochta Cork County Council Architects Housing Directorate County Hall, Cork Tel: (021) 4285433 e-mail: architects.housing@corkcoco.ie		
Job Reference: N2022014	Architect: JC	Design Team:
Dwg. No.: DR-CCC-ME-PL-201	Technician: TOF	Engineer: RB
Date: Oct.2023	Scale: 1:50	Issue for: Planning
Sheet: A3		

Legend, Electrical Services

- Single Switched Socket 400mm FFL
- Single Switched Socket High Level, Extractor Fan
- Single Switched Socket 400mm FFL, Under Counter
- Double Switched Socket 400mm FFL
- Double Switched Socket 1200mm FFL
- Double Switched Socket Under Counter 400mm FFL
- Switched Fused Disconnection (Spur)
- Switched Fused Disconnection (Spur) 16A
- Switched Fused Disconnection (Spur) Dish Washer 20A
- Fused Disconnection (Spur) Booster Pump
- Isolator Heat Pump EXT
- Fused Disconnection (Spur) 45A Shower
- Switched Disconnection (Spur) 45A, Cooker
- Data & Telephone
- TV Junction Box
- Access Terminating Box
- Data & Telephone Box
- Fibre Terminal Box
- Data Patch Panel
- Data Point
- External Terminating Unit
- Heating control unit
- Room temperature stat
- Telephone
- TV socket
- Motorised Valve
- Switch 1 Gang 1 Way
- Switch 1 Gang 2 Way
- Switch 2 Gang 1 Way
- Switch 3 Gang 1 Way
- Door Bell Push Button
- Door Bell Chime
- Shaver Light
- Smoke Head
- Heat Detector
- Carbon monoxide detector
- Fire Alarm Control Switch
- Mechanical Extraction Control Switch
- External Temperature Sensor
- Ceiling Rose
- LED Bulk Fitting Head External
- LED Bulk Fitting Head Internal
- Main Distribution/Consumer Unit
- ESB Meter Cabinet
- EIR Incoming
- Electric Vehicle Charging Point, Isolator & Charger complete with DCL Protection

NOTE:
 1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.



Final Locations to be agreed on site
 The drawings detail the functional requirements and arrangements of the services

Rev. No.	Revision Description	Date

Project Stage: Planning

Project Title: Housing Development
 19 & 20 Dr. Croke Place, Kilbrin.

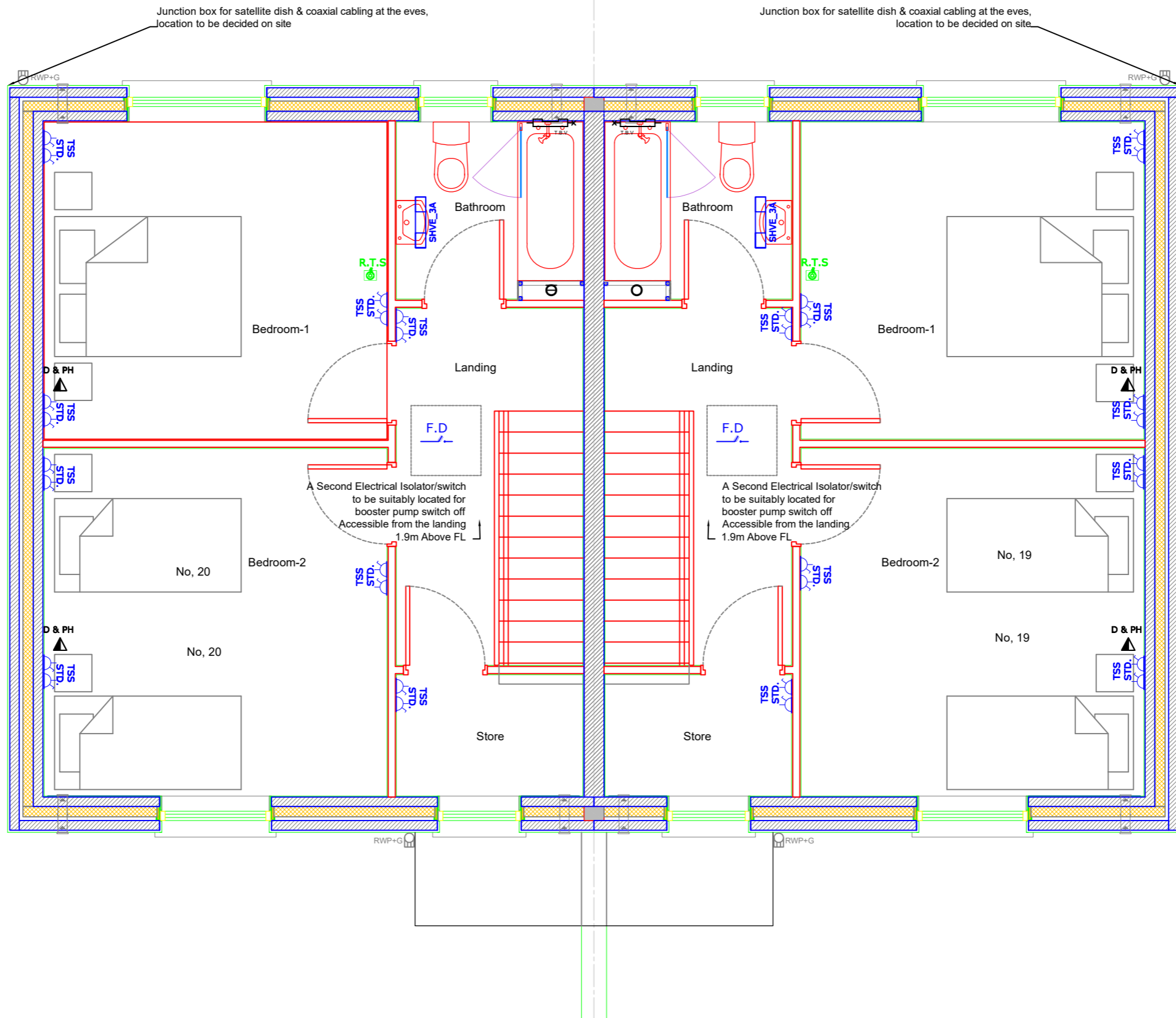
Drawing Title: Electrical Layout Ground Floor 19 & 20

Comhairle Contae Chorcaí
 Ailtirí | Stiúrthóireacht Tithíochta
Cork County Council
 Architects | Housing Directorate
 County Hall, Cork
 Tel: (021) 4285433
 e-mail: architects.housing@corkcoco.ie

Job Reference: N2022014	Design Team: Architect: JC Technician: TOF Surveyor: RF Engineer: JF Sr. Architect: R. Henry
Dwg. No.: DR-CCC-ME-PL-202	Sheet: A3
Date: Oct.2023	Scale: 1:50
Issue for: Planning	Rebuilding Ireland logo

Legend, Electrical Services

- Single Switched Socket 400mm FFL
- Single Switched Socket High Level, Extractor Fan
- Single Switched Socket 400mm FFL, Under Counter
- Double Switched Socket 400mm FFL
- Double Switched Socket 1200mm FFL
- Double Switched Socket Under Counter 400mm FFL
- Switched Fused Disconnection (Spur)
- Switched Fused Disconnection (Spur) 16A
- Switched Fused Disconnection (Spur) Dish Washer 20A
- Fused Disconnection (Spur) Booster Pump Isolator Heat Pump EXT
- Fused Disconnection (Spur) 45A Shower
- Switched Disconnection (Spur) 45A, Cooker
- Data & Telephone
- TV Junction Box
- Access Terminating Box
- Data & Telephone Box
- Fibre Terminal Box
- Data Patch Panel
- Data Point
- External Terminating Unit
- Heating control unit
- Room temperature stat
- Telephone
- TV socket
- Motorised Valve
- Switch 1 Gang 1 Way
- Switch 1 Gang 2 Way
- Switch 2 Gang 1 Way
- Switch 3 Gang 1 Way
- Door Bell Push Button
- Door Bell Chime
- Shaver Light
- Smoke Head
- Heat Detector
- Carbon monoxide detector
- Fire Alarm Control Switch
- Mechanical Extraction Control Switch
- External Temperature Sensor
- Ceiling Rose
- LED Bulk Fitting Head External
- LED Bulk Fitting Head Internal
- Main Distribution/Consumer Unit
- ESB Meter Cabinet
- EIR Incoming
- Electric Vehicle Charging Point, Isolator & Charger complete with DCL Protection



NOTE:
 1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.

Final Locations to be agreed on site
 The drawings detail the functional requirements and arrangements of the services

Rev. No.	Revision Description	Date

Project Stage: Planning

Project Title: Housing Development
 19 & 20 Dr. Croke Place, Kilbrin.















































Drawing Title: Electrical Layout First Floor 19 & 20

Comhairle Contae Chorcaí
 Ailtirí | Stiúrthóireacht Tithíochta
Cork County Council
 Architects | Housing Directorate
 County Hall, Cork
 Tel: (021) 4285433
 e-mail: architects.housing@corkcoco.ie





Job Reference: N2022014	Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry
Dwg. No.: DR-CCC-ME-PL-203	
Date: Oct.2023	Scale: 1:50
Issue for: Planning	Sheet: A3

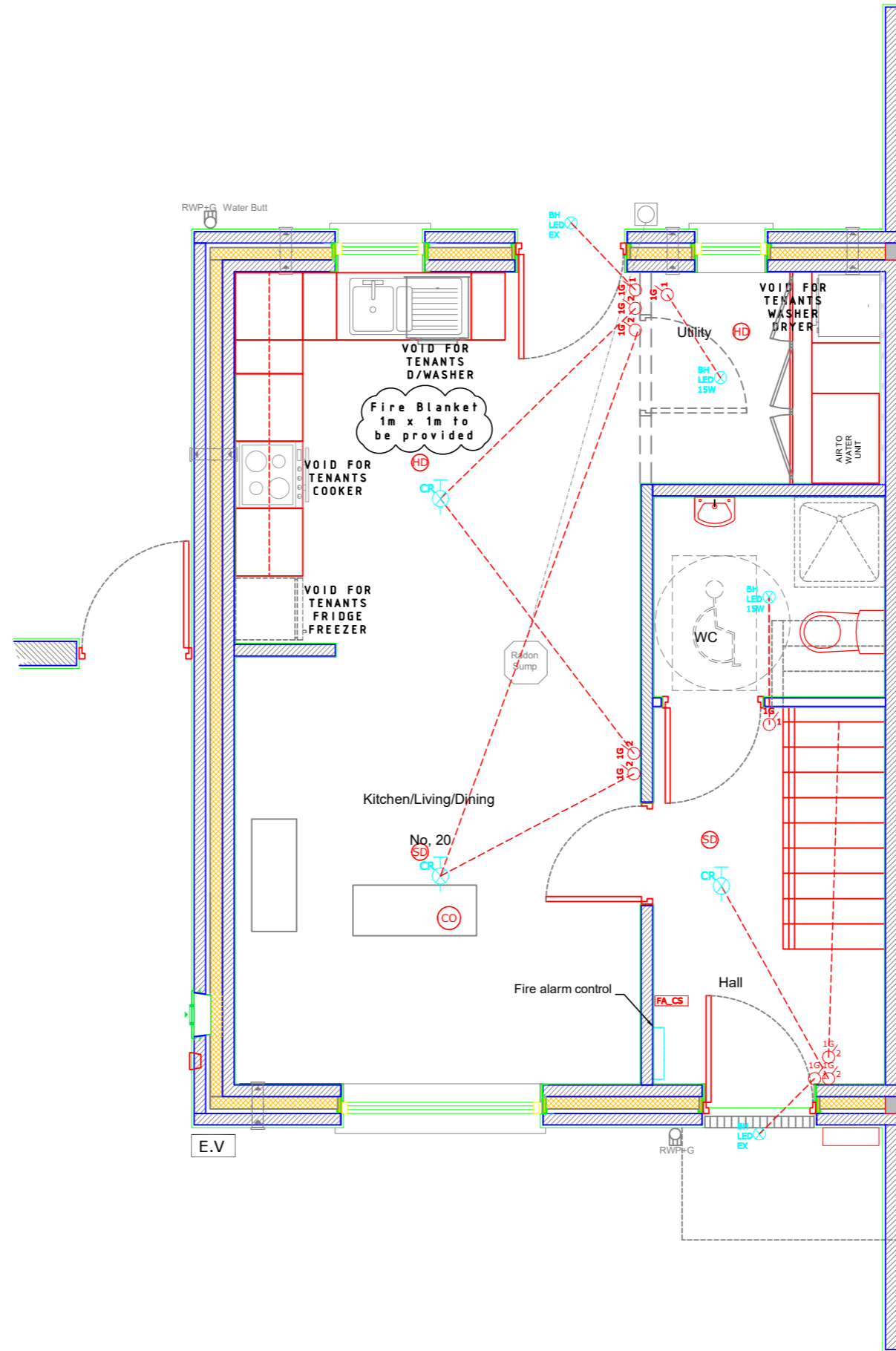
NOTE:
 1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.

Legend, Electrical Services

-  Single Switched Socket 400mm FFL
-  Single Switched Socket High Level, Extractor Fan
-  Single Switched Socket 400mm FFL, Under Counter
-  Double Switched Socket 400mm FFL
-  Double Switched Socket 1200mm FFL
-  Double Switched Socket Under Counter 400mm FFL
-  Switched Fused Disconnection (Spur)
-  Switched Fused Disconnection (Spur) 16A
-  Switched Fused Disconnection (Spur) Dish Washer 20A
-  Fused Disconnection (Spur) Booster Pump
-  Isolator Heat Pump EXT
-  Fused Disconnection (Spur) 45A Shower
-  Switched Disconnection (Spur) 45A, Cooker
-  Data & Telephone
-  TV Junction Box
-  Access Terminating Box
-  Data & Telephone Box
-  Fibre Terminal Box
-  Data Patch Panel
-  Data Point
-  External Terminating Unit
-  Heating control unit
-  Room temperature stat
-  Telephone
-  TV socket
-  Motorised Valve
-  Switch 1 Gang 1 Way
-  Switch 1 Gang 2 Way
-  Switch 2 Gang 1 Way
-  Switch 3 Gang 1 Way
-  Door Bell Push Button
-  Door Bell Chime
-  Shaver Light
-  Smoke Head
-  Heat Detector
-  Carbon monoxide detector
-  Fire Alarm Control Switch
-  Mechanical Extraction Control Switch
-  External Temperature Sensor
-  Ceiling Rose
-  LED Bulk Fitting Head External
-  LED Bulk Fitting Head Internal
-  Main Distribution/Consumer Unit
-  ESB Meter Cabinet
-  EIR Incoming
-  Electric Vehicle Charging Point, Isolator & Charger complete with DCL Protection

Legend, Intruder Alarm

-  Sounder
-  Strobe Sounder
-  Door/Window Contact
-  Intruder Alarm Panel



Final Locations to be agreed on site
 The drawings detail the functional requirements and arrangements of the services

Rev. No.	Revision Description	Date

Project Stage: Planning

Project Title: Housing Development
 19 & 20 Dr. Croke Place, Kilbrin.















































Drawing Title: Light Circuits, Fire Alarm Ground Floor

Comhairle Contae Chorcaí
 Ailtirí | Stiúrthóireacht Tithíochta
Cork County Council
 Architects | Housing Directorate
 County Hall, Cork
 Tel: (021) 4285433
 e-mail: architects.housing@corkcoco.ie





Job Reference: N2022014	Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry
Dwg. No.: DR-CCC-ME-PL-216	Sheet: A3
Date: Oct.2023	Scale: 1:50
Issue for: Planning	Rebuilding Ireland

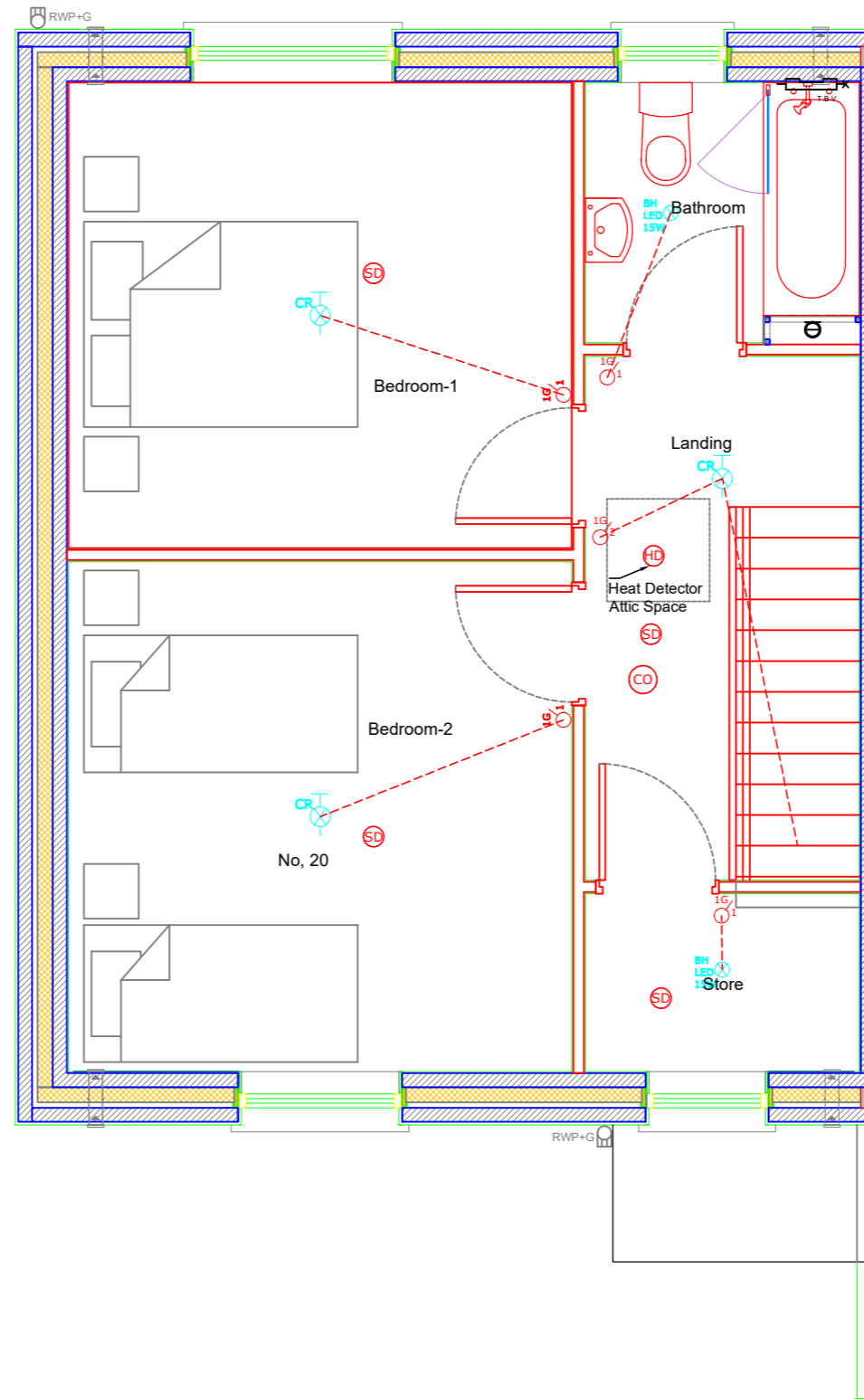
NOTE:
 1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.

Legend, Electrical Services

-  Single Switched Socket 400mm FFL
-  Single Switched Socket High Level, Extractor Fan
-  Single Switched Socket 400mm FFL, Under Counter
-  Double Switched Socket 400mm FFL
-  Double Switched Socket 1200mm FFL
-  Double Switched Socket Under Counter 400mm FFL
-  Switched Fused Disconnection (Spur)
-  Switched Fused Disconnection (Spur) 16A
-  Switched Fused Disconnection (Spur) Dish Washer 20A
-  Fused Disconnection (Spur) Booster Pump
-  Isolator Heat Pump EXT
-  Fused Disconnection (Spur) 45A Shower
-  Switched Disconnection (Spur) 45A, Cooker
-  Data & Telephone
-  TV Junction Box
-  Access Terminating Box
-  Data & Telephone Box
-  Fibre Terminal Box
-  Data Patch Panel
-  Data Point
-  External Terminating Unit
-  Heating control unit
-  Room temperature stat
-  Telephone
-  TV socket
-  Motorised Valve
-  Switch 1 Gang 1 Way
-  Switch 1 Gang 2 Way
-  Switch 2 Gang 1 Way
-  Switch 3 Gang 1 Way
-  Door Bell Push Button
-  Door Bell Chime
-  Shaver Light
-  Smoke Head
-  Heat Detector
-  Carbon monoxide detector
-  Fire Alarm Control Switch
-  Mechanical Extraction Control Switch
-  External Temperature Sensor
-  Ceiling Rose
-  LED Bulk Fitting Head External
-  LED Bulk Fitting Head Internal
-  Main Distribution/Consumer Unit
-  ESB Meter Cabinet
-  EIR Incoming
-  Electric Vehicle Charging Point, Isolator & Charger complete with DCL Protection

Legend, Intruder Alarm

-  Sounder
-  Strobe Sounder
-  Door/Window Contact
-  Intruder Alarm Panel



Final Locations to be agreed on site
 The drawings detail the functional requirements and arrangements of the services


Rev. No.	Revision Description	Date

Project Stage: Planning

Project Title: Housing Development
 19 & 20 Dr. Croke Place, Kilbrin.

Drawing Title: Light Circuits, Fire Alarm, First Floor

 **Comhairle Contae Chorcaí**
 Ailtirí | Stiúrthóireacht Tithíochta
Cork County Council
 Architects | Housing Directorate
 County Hall, Cork
 Tel: (021) 4285433
 e-mail: architects.housing@corkcoco.ie

Job Reference: N2020014	Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry
Dwg. No.: DR-CCC-ME-PL-217	Sheet: A3
Date: Oct.2023	Scale: 1:50
Issue for: Planning	

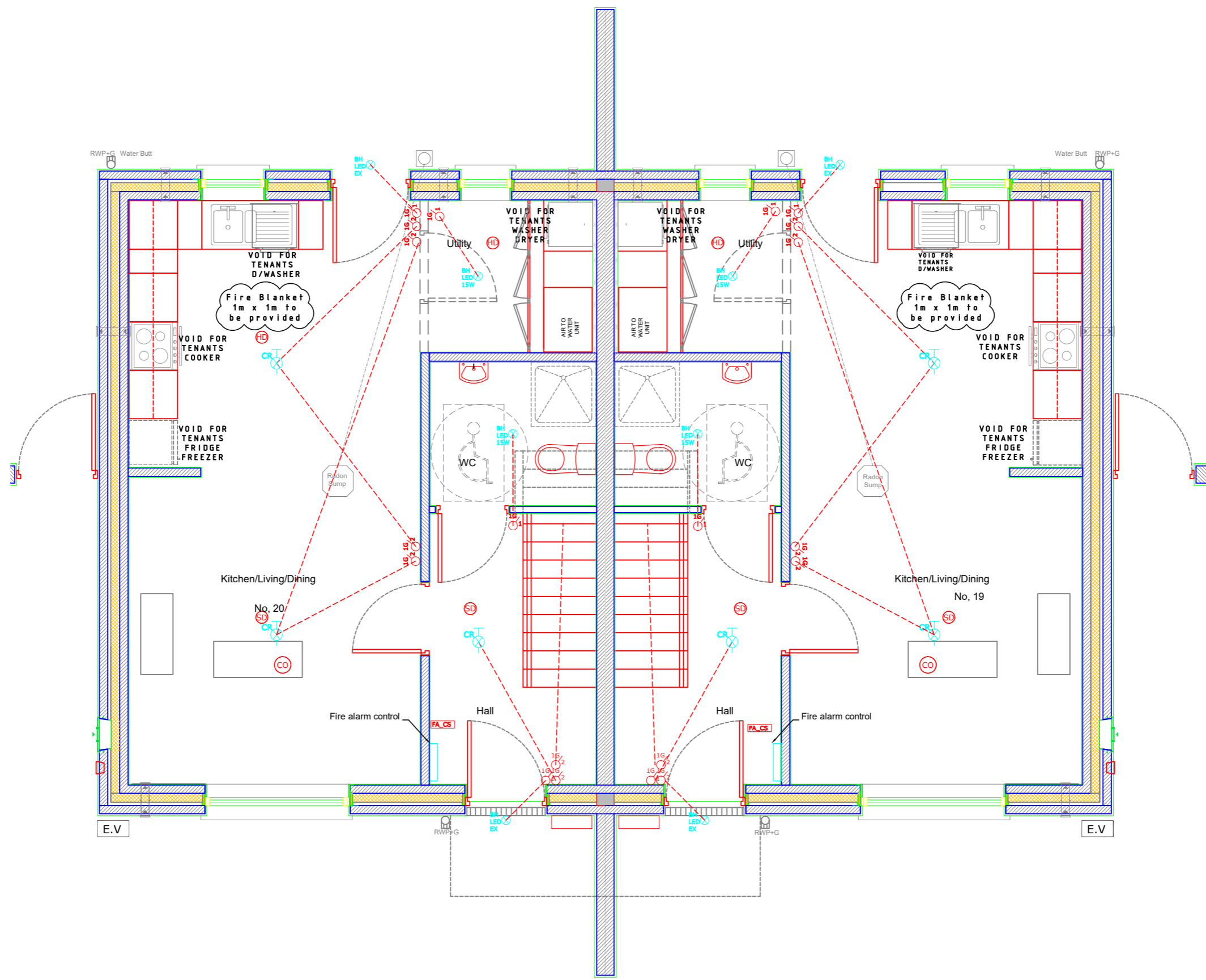
Legend, Electrical Services

- Single Switched Socket 400mm FFL
- Single Switched Socket High Level, Extractor Fan
- Single Switched Socket 400mm FFL, Under Counter
- Double Switched Socket 400mm FFL
- Double Switched Socket 1200mm FFL
- Double Switched Socket Under Counter 400mm FFL
- Switched Fused Disconnection (Spur)
- Switched Fused Disconnection (Spur) 16A
- Switched Fused Disconnection (Spur) Dish Washer 20A
- Fused Disconnection (Spur) Booster Pump
- Isolator Heat Pump EXT
- Fused Disconnection (Spur) 45A Shower
- Switched Disconnection (Spur) 45A, Cooker
- Data & Telephone
- TV Junction Box
- Access Terminating Box
- Data & Telephone Box
- Fibre Terminal Box
- Data Patch Panel
- Data Point
- External Terminating Unit
- Heating control unit
- Room temperature stat
- Telephone
- TV socket
- Motorised Valve
- Switch 1 Gang 1 Way
- Switch 1 Gang 2 Way
- Switch 2 Gang 1 Way
- Switch 3 Gang 1 Way
- Door Bell Push Button
- Door Bell Chime
- Shaver Light
- Smoke Head
- Heat Detector
- Carbon monoxide detector
- Fire Alarm Control Switch
- Mechanical Extraction Control Switch
- External Temperature Sensor
- Ceiling Rose
- LED Bulk Fitting Head External
- LED Bulk Fitting Head Internal
- Main Distribution/Consumer Unit
- ESB Meter Cabinet
- EIR Incoming
- Electric Vehicle Charging Point, Isolator & Charger complete with DCL Protection

Legend, Intruder Alarm

- Sounder
- Strobe Sounder
- Door/Window Contact
- Intruder Alarm Panel

NOTE:
 1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.



Final Locations to be agreed on site
 The drawings detail the functional requirements and arrangements of the services

Rev. No.	Revision Description	Date

Project Stage: Planning

Project Title: Housing Development
 19 & 20 Dr. Croke Place, Kilbrin.

Drawing Title: Lighting, Fire Alarm Ground Floor 19 & 20

Comhairle Contae Chorcaí
 Ailtirí | Stúirthóireacht Tithíochta
Cork County Council
 Architects | Housing Directorate
 County Hall, Cork
 Tel: (021) 4285433
 e-mail: architects.housing@corkcoco.ie

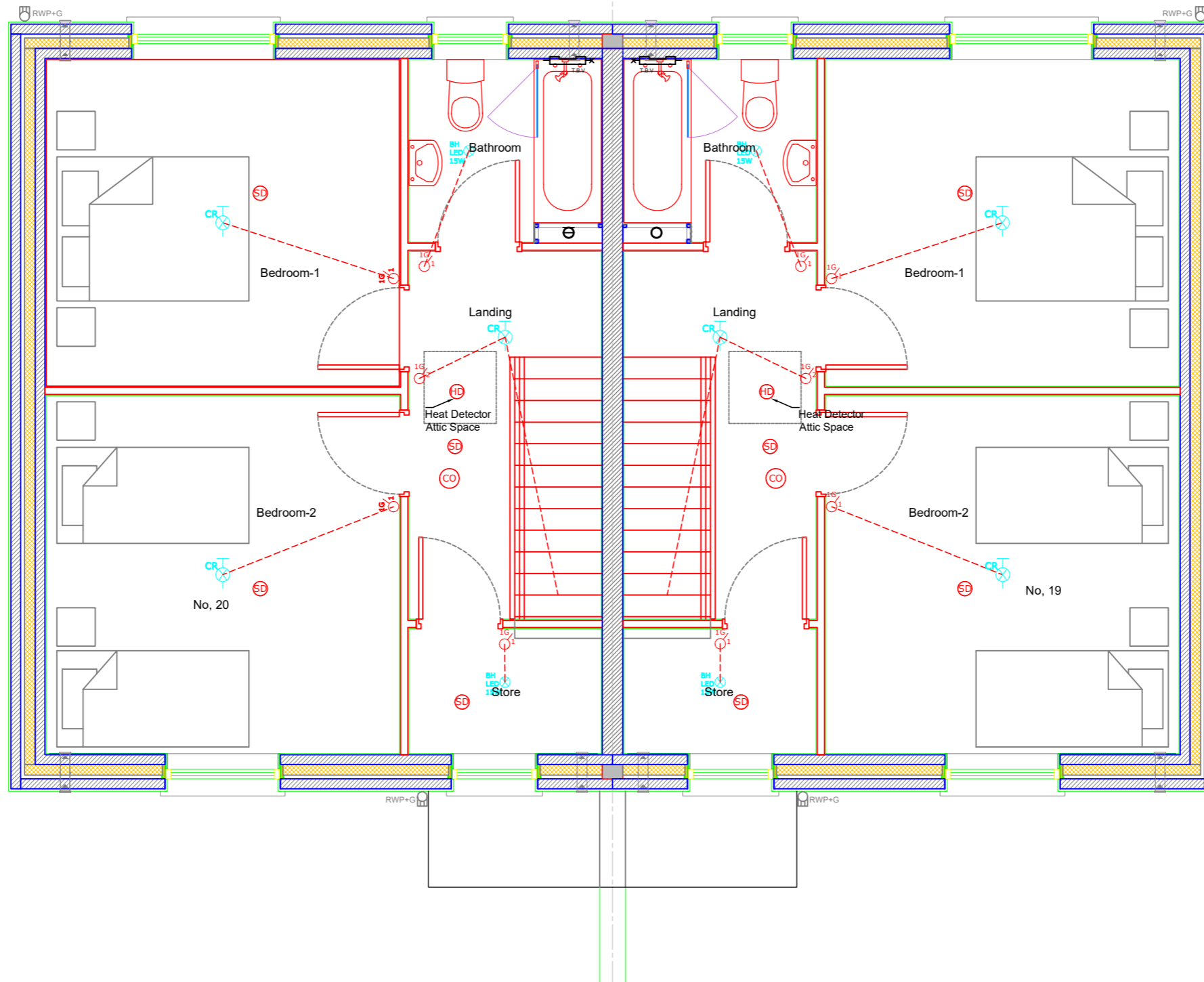
Job Reference: N2022014	Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry
Dwg. No.: DR-CCC-ME-PL-218	Sheet: A3
Date: Feb. 23	Scale: N/A
Issue for: Planning	Sheet: A3

Legend, Electrical Services

- Single Switched Socket 400mm FFL
- Single Switched Socket High Level, Extractor Fan
- Single Switched Socket 400mm FFL, Under Counter
- Double Switched Socket 400mm FFL
- Double Switched Socket 1200mm FFL
- Double Switched Socket Under Counter 400mm FFL
- Switched Fused Disconnection (Spur)
- Switched Fused Disconnection (Spur) 16A
- Switched Fused Disconnection (Spur) Dish Washer 20A
- Fused Disconnection (Spur) Booster Pump
- Isolator Heat Pump EXT
- Fused Disconnection (Spur) 45A Shower
- Switched Disconnection (Spur) 45A, Cooker
- Data & Telephone
- TV Junction Box
- Access Terminating Box
- Data & Telephone Box
- Fibre Terminal Box
- Data Patch Panel
- Data Point
- External Terminating Unit
- Heating control unit
- Room temperature stat
- Telephone
- TV socket
- Motorised Valve
- Switch 1 Gang 1 Way
- Switch 1 Gang 2 Way
- Switch 2 Gang 1 Way
- Switch 3 Gang 1 Way
- Door Bell Push Button
- Door Bell Chime
- Shaver Light
- Smoke Head
- Heat Detector
- Carbon monoxide detector
- Fire Alarm Control Switch
- Mechanical Extraction Control Switch
- External Temperature Sensor
- Ceiling Rose
- LED Bulk Fitting Head External
- LED Bulk Fitting Head Internal
- Main Distribution/Consumer Unit
- ESB Meter Cabinet
- EIR Incoming
- Electric Vehicle Charging Point, Isolator & Charger complete with DCL Protection

Legend, Intruder Alarm

- Sounder
- Strobe Sounder
- Door/Window Contact
- Intruder Alarm Panel



NOTE:
 1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.

Final Locations to be agreed on site
 The drawings detail the functional requirements and arrangements of the services

Rev. No.	Revision Description	Date

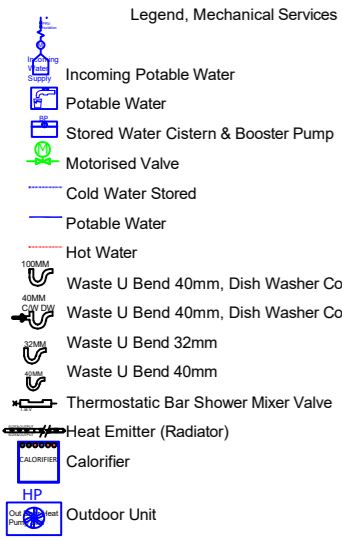
Project Stage: Planning

Project Title: Housing Development
 19 & 20 Dr. Croke Place, Kilbrin.

Drawing Title: Lighting, Fire Alarm, First Floor 19 & 20

Comhairle Contae Chorcaí
 Ailgí | Stúirthóireacht Tithíochta
Cork County Council
 Architects | Housing Directorate
 County Hall, Cork
 Tel: (021) 4285433
 e-mail: architects.housing@corkcoco.ie

Job Reference: N2022014	Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Snr. Architect: R. Henry
Dwg. No.: DR-CCC-ME-PL-219	Sheet: A3
Date: Feb. 23	Scale: N/A
Issue for: Planning	



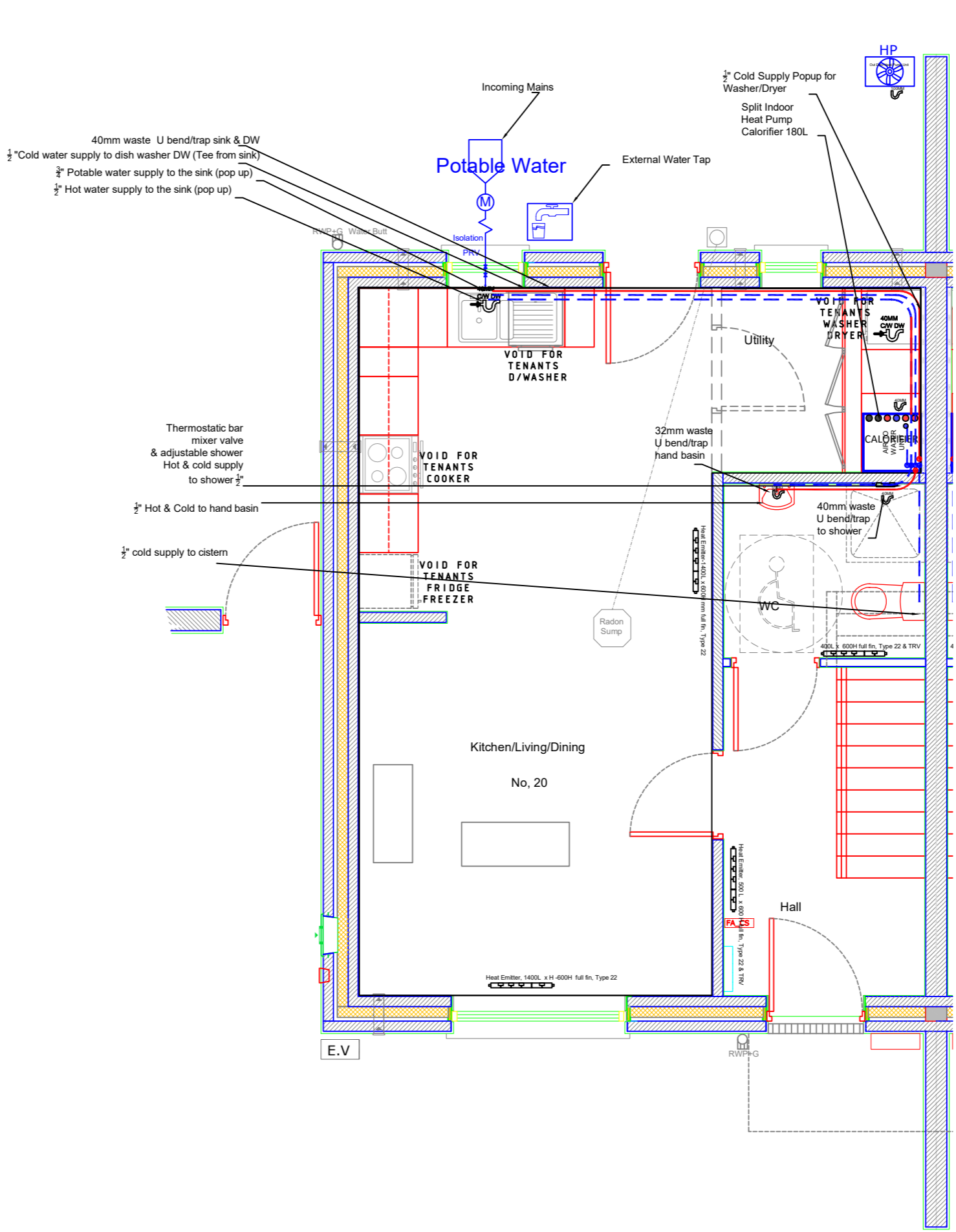
Ventilation heat Loss calculations based on S.R. 50-1 2021 NSAI building services - codes of practice - part 1 water based heating systems in dwellings
 Building fabric heat Loss calculations based on S.R. 50-1 2021 NSAI, building services - codes of practice - part 1 water based heating systems in dwellings
 Heat emitters based on Low flow & return temperature annex H, S.R. 50-1 2021 NSAI building services - codes of practice - part 1 water based heating systems
 Ventilation to; Buildings Regulations 2019 Technical Guidance Document F
 Ventilation

Calculated general ventilation rate based on occupancy of the dwelling [TGD F - 1.2.2.2]: @ 5 l/s plus 4 l/s person = 5 + (4*4) = 21
 Calculated general ventilation rate based on internal floor area of the dwelling [TGD F - 1.2.2.2]: 83 m² at 0.3 l/s/m² (0.3 x 81) = 24.3 l/s
 Continuous extract ventilation rate of the dwelling is: 24.3 l/s
 Overall minimum boost extract ventilation rate requirement [TGD F - Table 1]: = Kitchen + Utility + Toilet + Bathroom l/s = 37l/s
 25% capacity requirement over general ventilation rate of the dwelling [TGD F - 1.2.2.3]: = 30.375l/s
 Total capacity of the system l/s = 37l/s
 Room with MEV extract grid (s) Room general extract airflow rate (l/s) adjusted proportionally
 Kitchen = 8.5 l/s
 Utility = 5.3l/s
 Toilet = 5.3l/s
 Bathroom = 5.3l/s
 A humidity sensitive air inlet and demand controlled extraction system to be installed
 Total Ventilation 49,700mm²

Heat Emitter Selection						
Heat Emitters Based on Low Flow & Return Temperature Annex H, S.R. 50-1 2021 NSAI Building Services - Codes of Practice - Part 1 Water Based Heating Systems	Delta T Heat Emitters Degrees C	Heat Loss Rooms Watts	Emitters Based on Low Delta T Watts Heat output @ Δ T 50°C.	Type	Length mm	Height mm
Kitchen & Living Room	21.5	1453	5008	22	1400	600
Hall	21.5	242	873	22	500	600
Toilet	19.5	203	873	22	400	600
Landing	21.5	162	545	22	400	450
Bathroom	19.5	234	873	22	500	600
Bedroom 2	21.5	358	1235	22	700	600
Bedroom 1	21.5	413	1235	22	700	600
Storeroom	21.5	118	387	11	400	300

Heat Emitter Selection	
Calorifier Internal Hot Water Storage	200L
Booster Pump & Cold Water Store	212L

Heat Pump	
Split/Mono	
kW	4.3



NOTE:
 1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.

Heat loss and emitters have been sized to S.R. 50-1 2021 NSAI Building Services - Codes of Practice - Part 1 Water Based Heating Systems in Dwellings and Heat loss calculation and radiator sizing for heat pump systems (SEAI)
 The flow temperature of heat pump is calculated at around 45°C with a return temperature of 40°C, the heat emitters detailed in the drawing have been sized using a conversion factor and a typical emitter manufacturer with a ΔT of 50°C, the contractor should obtain conversion factors for low temperature emitters from the supplier/manufacturer and agree with the engineer. Higher out put emitters (increased fins and surface area) influence the final size selection.

- Notes
- Final locations to be agreed on site
 - Drawing to be read in conjunction with other relevant service drawings and specifications
 - Soil and vent pipe-work below ground level shall be the remit of the main contractor
 - Mechanical contractor shall be responsible for all connections to sanitary ware and fitting of same
 - All exposed wastes, traps and supports within the toilet area must be metal manufacture and chrome plated
 - Access/inspection covers at the base of stacks above floor level.

Rev. No.	Revision Description	Date

Project Stage: Planning

Project Title: Housing Development
 19 & 20 Dr. Croke Place, Kilbrin.

Drawing Title: Mechanical Layout Ground Floor

Comhairle Contae Chorcaí
 Ailtirí | Stiúrthóireacht Tithíochta
Cork County Council
 Architects | Housing Directorate
 County Hall, Cork
 Tel: (021) 4285433
 e-mail: architects.housing@corkcoco.ie

Job Reference: N2022014	Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry
Dwg. No.: DR-CCC-ME-PL-241	Sheet: A3
Date: Oct.2023 1:50	Scale: Planning

Legend, Mechanical Services

- Incoming Potable Water
- Potable Water
- Stored Water Cistern & Booster Pump
- Motorised Valve
- Cold Water Stored
- Potable Water
- Hot Water
- Waste U Bend 40mm, Dish Washer Connection
- Waste U Bend 40mm, Dish Washer Connection
- Waste U Bend 32mm
- Waste U Bend 40mm
- Thermostatic Bar Shower Mixer Valve
- Heat Emitter (Radiator)
- Calorifier
- Outdoor Unit

Ventilation heat Loss calculations based on S.R. 50-1 2021 NSAI building services - codes of practice - part 1 water based heating systems in dwellings
 Building fabric heat Loss calculations based on S.R. 50-1 2021 NSAI, building services - codes of practice - part 1 water based heating systems in dwellings
 Heat emitters based on Low flow & return temperature annex H, S.R. 50-1 2021 NSAI building services - codes of practice - part 1 water based heating systems

Ventilation to; Buildings Regulations 2019 Technical Guidance Document F
 Ventilation

Calculated general ventilation rate based on occupancy of the dwelling [TGD F - 1.2.2.2]: @ 5 l/s plus 4 l/s person = 5 + (4*4) = 21

Calculated general ventilation rate based on internal floor area of the dwelling [TGD F - 1.2.2.2]: 83 m² at 0.3 l/s/m² (0.3 x 81) = 24.3 l/s

Continuous extract ventilation rate of the dwelling is: 24.3 l/s
 Overall minimum boost extract ventilation rate requirement [TGD F - Table 1]: = Kitchen + Utility + Toilet + Bathroom l/s = 37l/s

25% capacity requirement over general ventilation rate of the dwelling [TGD F - 1.2.2.3]: = 30.375l/s
 Total capacity of the system l/s = 37l/s

Room with MEV extract grid (s) Room general extract airflow rate (l/s) adjusted proportionally
 Kitchen = 8.5 l/s
 Utility = 5.3l/s
 Toilet = 5.3l/s
 Bathroom = 5.3l/s

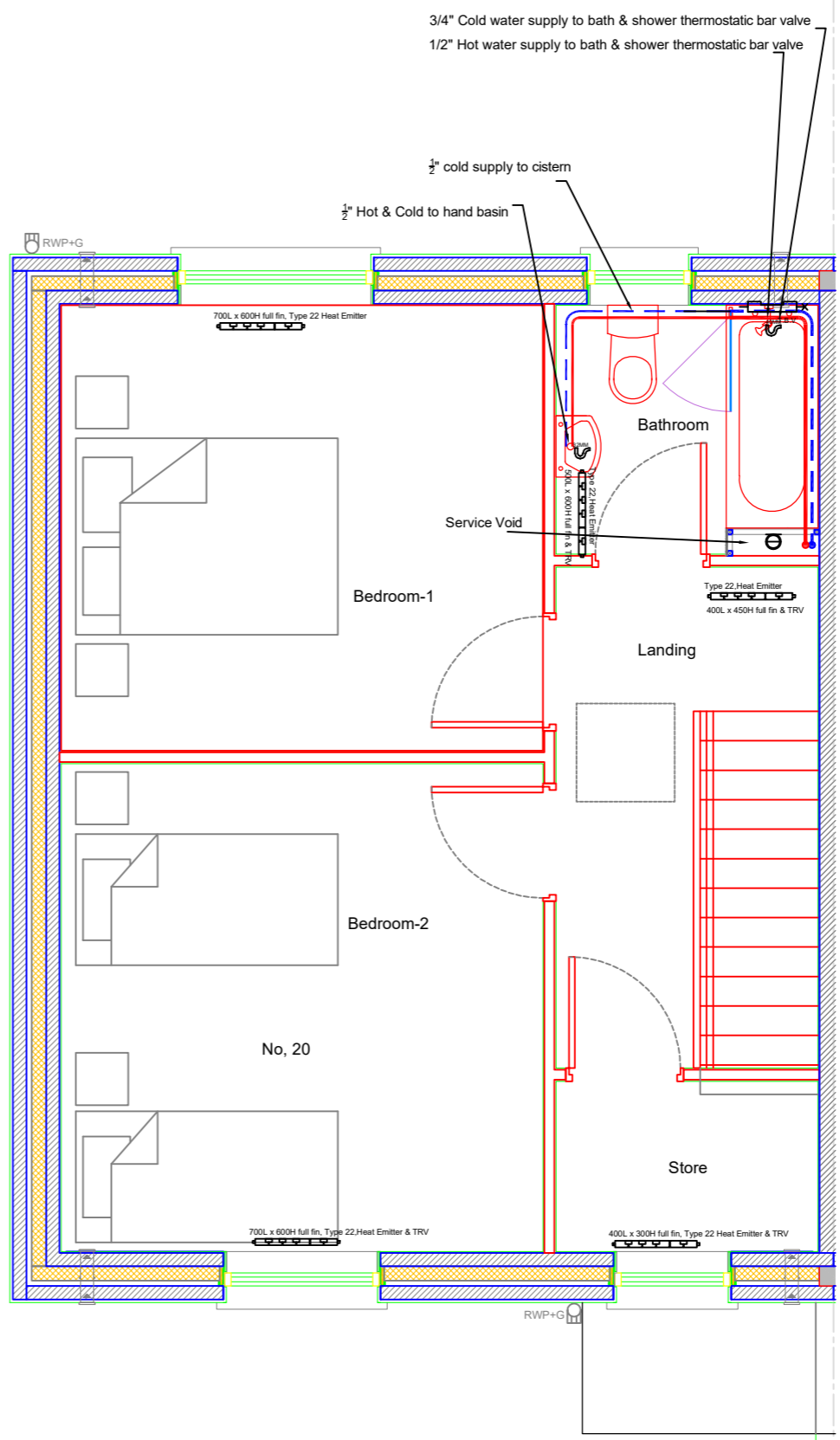
A humidity sensitive air inlet and demand controlled extraction system to be installed

Total Ventilation 49,700mm²

Heat Emitter Selection						
Heat Emitters Based on Low Flow & Return Temperature Annex H, S.R. 50-1 2021 NSAI Building Services - Codes of Practice - Part 1 Water Based Heating Systems	Delta T Heat Emitters Degrees C	Heat Loss Rooms Watts	Emitters Based on Low Delta T Watts Heat output @ Δ T 50°C.	Type	Length mm	Height mm
Kitchen & Living Room	21.5	1453	5008	22	1400	600
Hall	21.5	242	873	22	1400	600
Toilet	19.5	203	873	22	400	600
Landing	21.5	162	545	22	400	450
Bathroom	19.5	234	873	22	500	600
Bedroom 2	21.5	358	1235	22	700	600
Bedroom 1	21.5	413	1235	22	700	600
Storeroom	21.5	118	387	11	400	300

Heat Emitter Selection	
Calorifier Internal Hot Water Storage	200L
Booster Pump & Cold Water Store	212L

Heat Pump	
Split/Mono	
kW	4.3



NOTE:
 1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.

Heat loss and emitters have been sized to S.R. 50-1 2021 NSAI Building Services - Codes of Practice - Part 1 Water Based Heating Systems in Dwellings and Heat loss calculation and radiator sizing for heat pump systems (SEAI)
 The flow temperature of heat pump is calculated at around 45°C with a return temperature of 40°C, the heat emitters detailed in the drawing have been sized using a conversion factor and a typical emitter manufacturer with a ΔT of 50°C, the contractor should obtain conversion factors for low temperature emitters from the supplier/manufacturer and agree with the engineer. Higher out put emitters (increased fins and surface area) influence the final size selection.

- Notes
- Final locations to be agreed on site
 - Drawing to be read in conjunction with other relevant service drawings and specifications
 - Soil and vent pipe-work below ground level shall be the remit of the main contractor
 - Mechanical contractor shall be responsible for all connections to sanitary ware and fitting of same
 - All exposed wastes, traps and supports within the toilet area must be metal manufacture and chrome plated
 - Access/inspection covers at the base of stacks above floor level.

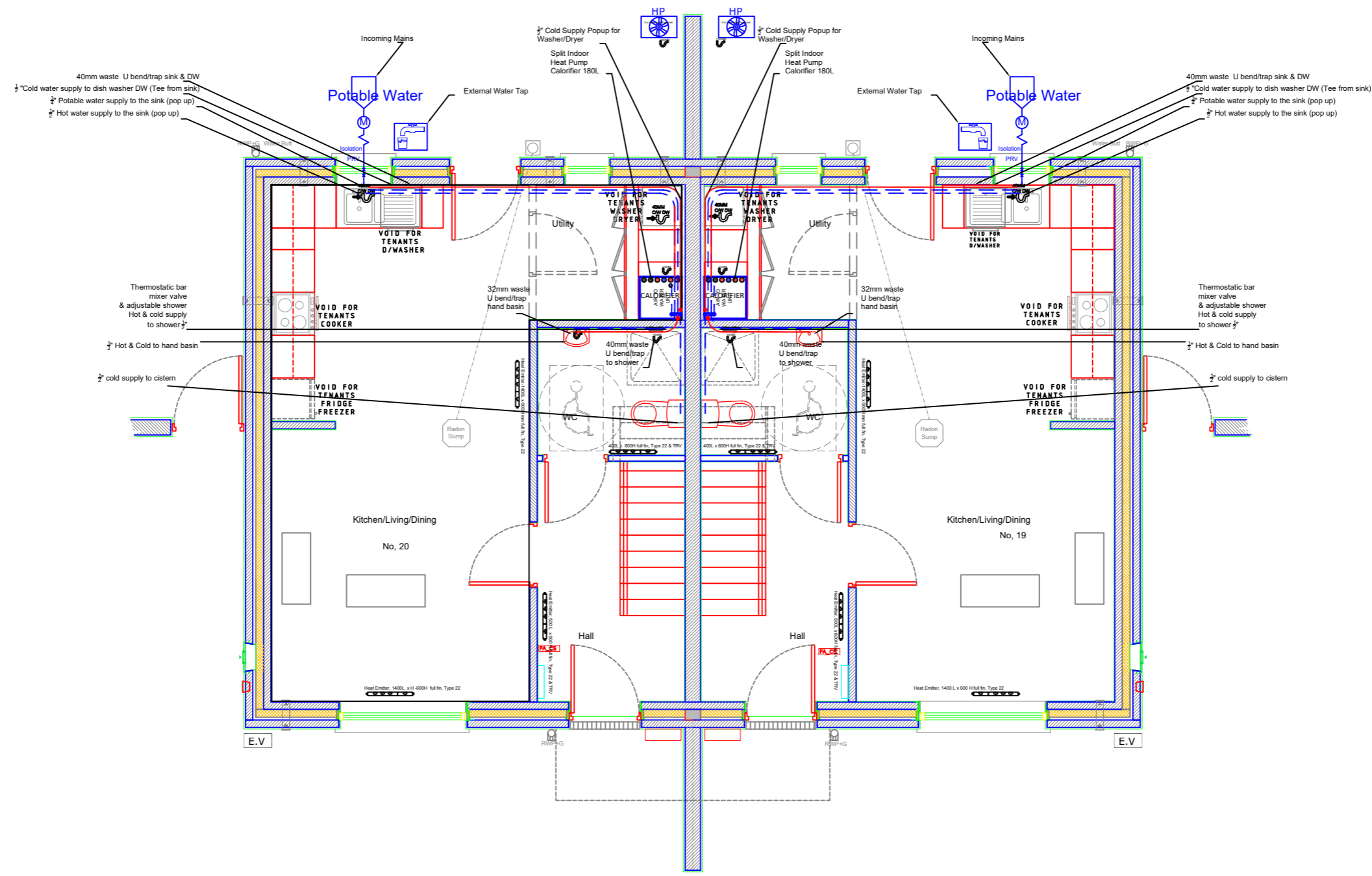
Rev. No.	Revision Description	Date

Project Stage:	Planning
Project Title:	Housing Development 19 & 20 Dr. Croke Place, Kilbrin.
Drawing Title:	Mechanical Layout First Floor

Comhairle Contae Chorcaí
 Ailtirí | Stiúrthóireacht Tithíochta
Cork County Council
 Architects | Housing Directorate
 County Hall, Cork
 Tel: (021) 4285433
 e-mail: architects.housing@corkcoco.ie

Job Reference: N2022014	Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry
Dwg. No.: DR-CCC-ME-PL-242	Sheet: A3
Date: Oct.2023 1:50	Scale: Planning

- Legend, Mechanical Services**
- Incoming Potable Water
 - Potable Water
 - Stored Water Cistern & Booster Pump
 - Motorised Valve
 - Cold Water Stored
 - Hot Water
 - Waste U Bend 40mm, Dish Washer Connection
 - Waste U Bend 40mm, Dish Washer Connection
 - Waste U Bend 32mm
 - Waste U Bend 40mm
 - Thermostatic Bar Shower Mixer Valve
 - Heat Emitter (Radiator)
 - Calorifier
 - Outdoor Unit



- NOTE:**
1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.

- Notes**
1. Final locations to be agreed on site
 2. Drawing to be read in conjunction with other relevant service drawings and specifications
 3. Soil and vent pipe-work below ground level shall be the remit of the main contractor
 4. Mechanical contractor shall be responsible for all connections to sanitary ware and fitting of same
 5. All exposed wastes, traps and supports within the toilet area must be metal manufacture and chrome plated
 6. Access/inspection covers at the base of stacks above floor level.

Rev. No.	Revision Description	Date
----------	----------------------	------

Project Stage: Planning
















Project Title: Housing Development
19 & 20 Dr. Croke Place, Kilbrin.

Drawing Title: Mechanical Layout Ground Floor 19 & 20

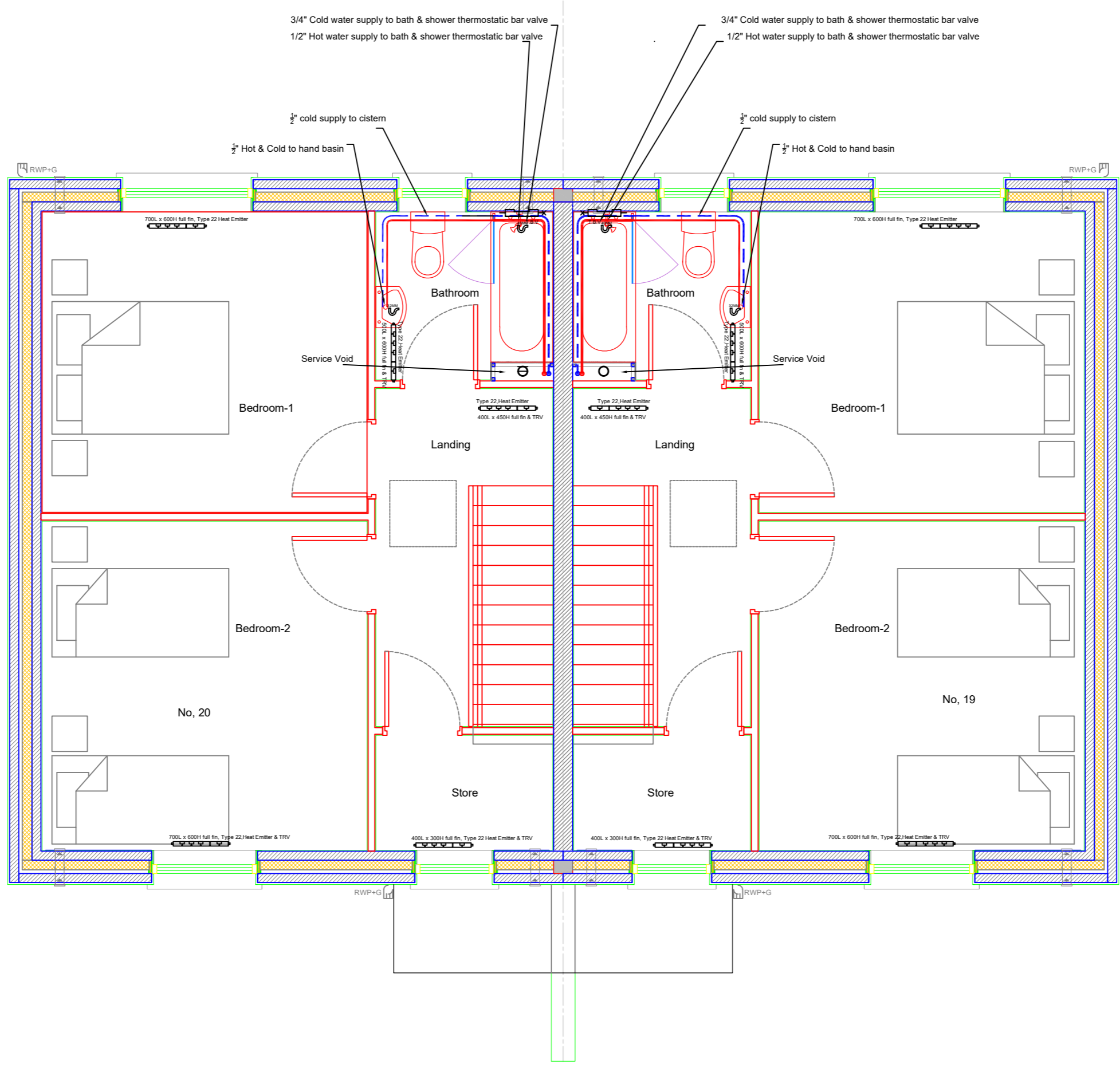
Comhairle Contae Chorcaí
Ailtirí | Stúirthóireacht Tithíochta
Cork County Council
Architects | Housing Directorate

County Hall, Cork
Tel: (021) 4285433
e-mail: architects.housing@corkcoco.ie

Job Reference: N2022014		Design Team:	
Dwg. No.: DR-CCC-ME-PL-243		Architect: JC	Technician: TOF
Date: Feb. 23		Engineer: RB	Snr. Architect: R. Henry
Scale: N/A	Issue for: Planning	Sheet: A3	

- Legend, Mechanical Services**
-  Incoming Potable Water
 -  Potable Water
 -  Stored Water Cistern & Booster Pump
 -  Motorised Valve
 -  Cold Water Stored
 -  Potable Water
 -  Hot Water
 -  Waste U Bend 40mm, Dish Washer Connection
 -  Waste U Bend 40mm, Dish Washer Connection
 -  Waste U Bend 32mm
 -  Waste U Bend 40mm
 -  Thermostatic Bar Shower Mixer Valve
 -  Heat Emitter (Radiator)
 -  Calorifier
 -  Outdoor Unit

- NOTE:**
1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.



- Notes**
1. Final locations to be agreed on site
 2. Drawing to be read in conjunction with other relevant service drawings and specifications
 3. Soil and vent pipe-work below ground level shall be the remit of the main contractor
 4. Mechanical contractor shall be responsible for all connections to sanitary ware and fitting of same
 5. All exposed wastes, traps and supports within the toilet area must be metal manufacture and chrome plated
 6. Access/inspection covers at the base of stacks above floor level.

Rev. No.	Revision Description	Date

Project Stage: Planning


Project Title: Housing Development
19 & 20 Dr. Croke Place, Kilbrin.

Drawing Title: Mechanical Layout First Floor 19 & 20

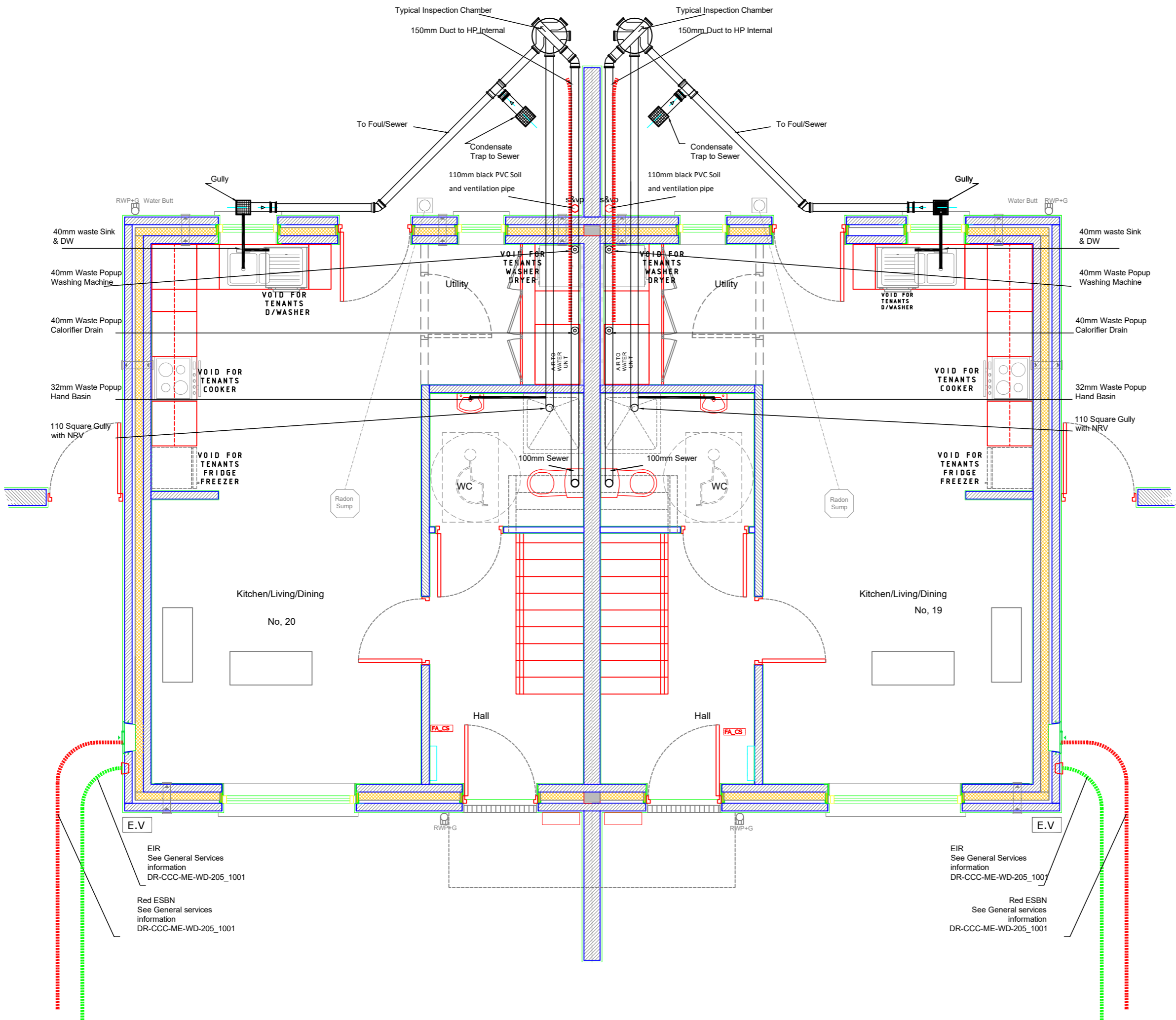
Comhairle Contae Chorcaí
Ailtirí | Stiúrthóireacht Tithíochta

Cork County Council
Architects | Housing Directorate

County Hall, Cork
Tel: (021) 4285433
e-mail: architects.housing@corccoco.ie

Job Reference: N2022014	Design Team: Architect: JC Technician: TOF Surveyor: RBF Engineer: JF Sr. Architect: R. Henry
Dwg. No.: DR-CCC-ME-PL-244	Sheet: A3
Date: Oct.2023	Scale: N/A
Issue for: Planning	

NOTE:
 1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.



Final Locations to be agreed on site
 The drawings detail the functional requirements and arrangements of the services

Rev. No.	Revision Description	Date
----------	----------------------	------

Project Stage: Planning

Project Title: Housing Development
 19 & 20 Dr. Croke Place, Kilbrin.

Drawing Title: Drain & Ducting

Comhairle Contae Chorcaí
 Ailtirí | Stiúrthóireacht Tithíochta
Cork County Council
 Architects | Housing Directorate
 County Hall, Cork
 Tel: (021) 4285433
 e-mail: architects.housing@corkcoco.ie

Job Reference: N2022014	Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Snr. Architect: R. Henry
Dwg. No.: DR-CCC-PL-256	Sheet: A3
Date: Oct.2023	Scale: 1:50
Issue for: Planning	Sheet: A3

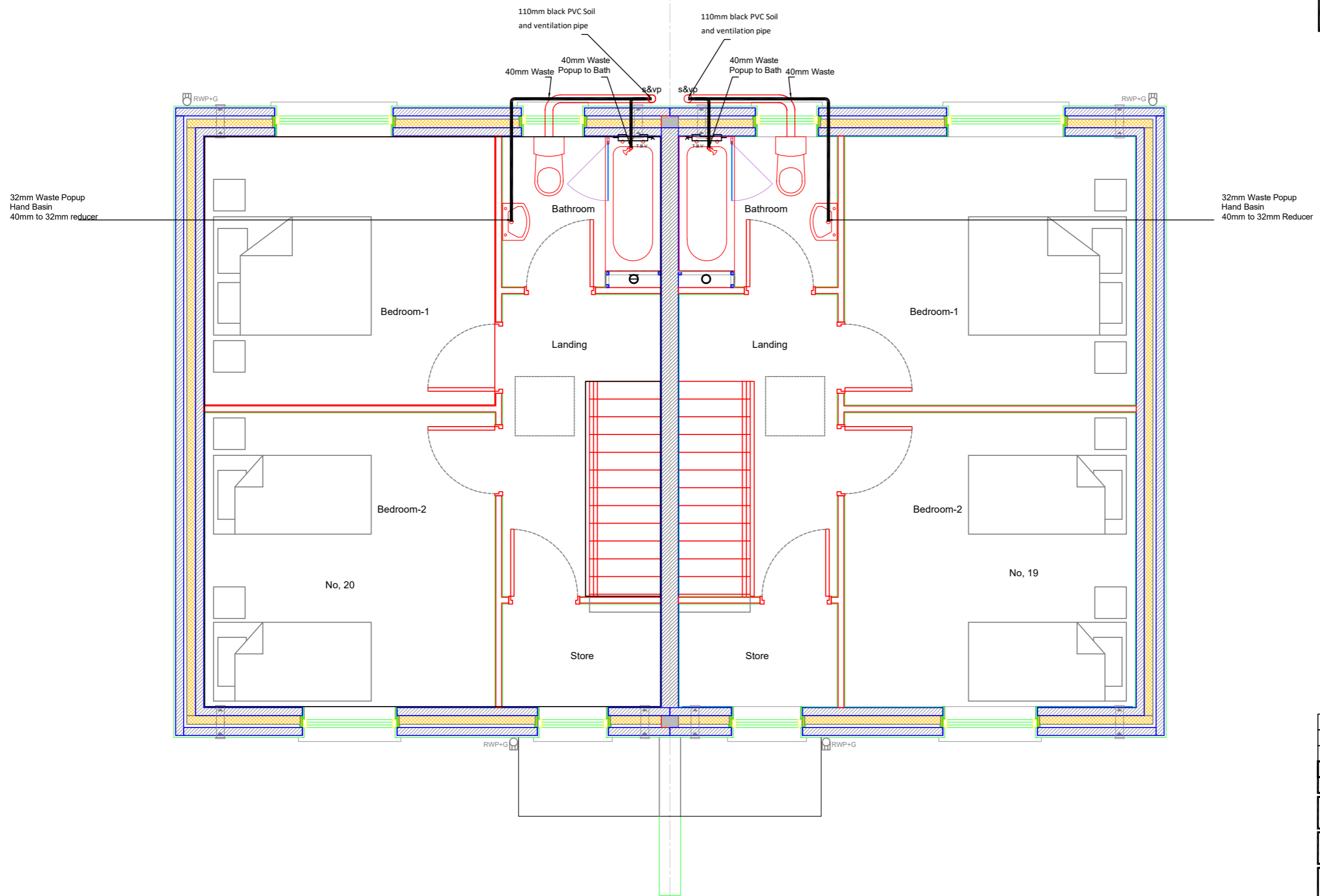
EIR
 See General Services
 information
 DR-CCC-ME-WD-205_1001

Red ESNB
 See General services
 information
 DR-CCC-ME-WD-205_1001

EIR
 See General Services
 information
 DR-CCC-ME-WD-205_1001

Red ESNB
 See General services
 information
 DR-CCC-ME-WD-205_1001

NOTE:
 1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.



Final Locations to be agreed on site
 The drawings detail the functional requirements and arrangements of the services

Rev. No.	Revision Description	Date
----------	----------------------	------

Project Stage: Planning






Project Title: Housing Development
 19 & 20 Dr. Croke Place, Kilbrin.

Drawing Title: Drain & Ducting

Comhairle Contae Chorcaí
 Ailtirí | Stiúrthóireacht Tithíochta
Cork County Council
 Architects | Housing Directorate
 County Hall, Cork
 Tel: (021) 4285433
 e-mail: architects.housing@corkcoco.ie

Job Reference: N2022014	Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Snr. Architect: R. Henry
Dwg. No.: DR-CCC-ME-PL-257	Sheet: A3
Date: Oct.2023	Scale: 1:50
Issue for: Planning	Rebuilding Ireland

Legend, Mechanical Extraction

-  Mechanical extraction unit
-  Flush mounted demand control extract grille
-  Humidity controlled demand ventilation
7000mm²/3500mm² equivalent area
-  Stainless steel kitchen extract hood
-  Mechanical extraction control

Calculated general ventilation rate based on occupancy of the dwelling [TGD F - 1.2.2.2]: @ 5 l/s plus 4 l/s person = 5 + (4*4) = 21

Calculated general ventilation rate based on internal floor area of the dwelling [TGD F - 1.2.2.2]: 83 m² at 0.3 l/s/m² (0.3 x 81) = 24.3 l/s

Continuous extract ventilation rate of the dwelling is: 24.3 l/s
Overall minimum boost extract ventilation rate requirement [TGD F - Table 1]: = Kitchen + Utility + Toilet + Bathroom l/s = 37l/s

25% capacity requirement over general ventilation rate of the dwelling [TGD F - 1.2.2.3]: = 30.375l/s
Total capacity of the system l/s = 37l/s

Room with MEV extract grid (s) Room general extract airflow rate (l/s) adjusted proportionally
Kitchen = 8.5 l/s
Utility = 5.3l/s
Toilet = 5.3l/s
Bathroom = 5.3l/s

A humidity sensitive air inlet and demand controlled extraction system to be installed

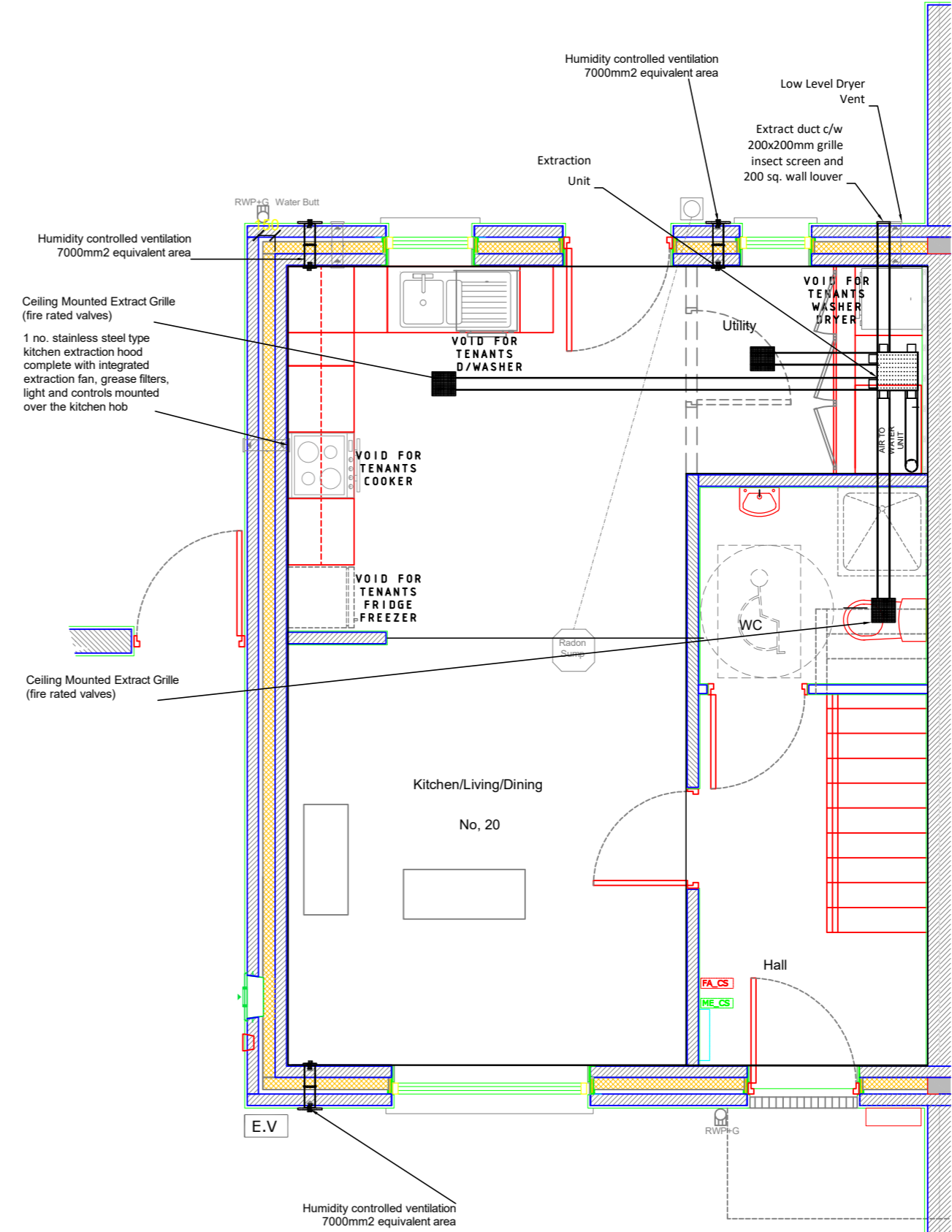
Total Ventilation 49,700mm²

Minimum total equivalent area of background ventilators providing general ventilation 42,000mm² + 7000mm² /10m > 70m²
Total area = 81m²
Background ventilators = 42,000mm² + 7,700mm² = 49,700mm²

Ventilation heat Loss calculations based on S.R. 50-1 2021 NSAI building services - codes of practice - part 1 water based heating systems in dwellings
Building fabric heat Loss calculations based on S.R. 50-1 2021 NSAI, building services - codes of practice - part 1 water based heating systems in dwellings
Heat emitters based on Low flow & return temperature annex H, S.R. 50-1 2021 NSAI building services - codes of practice - part 1 water based heating systems

Ventilation to; Buildings Regulations 2019 Technical Guidance Document F Ventilation

- NOTE:
1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.



- Notes
1. Final locations to be agreed on site
 2. Drawing to be read in conjunction with other relevant service drawings and specifications
 3. Soil and vent pipe-work below ground level shall be the remit of the main contractor
 4. Mechanical contractor shall be responsible for all connections to sanitary ware and fitting of same
 5. All exposed wastes, traps and supports within the toilet area must be metal manufacture and chrome plated
 6. Access/inspection covers at the base of stacks above floor level.


Rev. No.	Revision Description	Date

Project Stage: Tender






Project Title: Housing Development Planning

Drawing Title: Ventilation Ground Floor

Comhairle Contae Chorcaí
Ailtirí | Stiúrthóireacht Tithíochta
Cork County Council
Architects | Housing Directorate
County Hall, Cork
Tel: (021) 4285433
e-mail: architects.housing@corkcoco.ie

Job Reference: N2022014	Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry
Dwg. No.: DR-CCC-ME-PL-271	Sheet: A3
Date: Feb. 23	Scale: 1:50
Issue for: Planning	

Legend, Mechanical Extraction

-  Mechanical extraction unit
-  Flush mounted demand control extract grille
-  Humidity controlled demand ventilation
7000mm²/3500mm² equivalent area
-  Stainless steel kitchen extract hood
-  Mechanical extraction control

Calculated general ventilation rate based on occupancy of the dwelling [TGD F - 1.2.2.2]: @ 5 l/s plus 4 l/s person = 5 + (4*4) = 21

Calculated general ventilation rate based on internal floor area of the dwelling [TGD F - 1.2.2.2]: 83 m² at 0.3 l/s/m² (0.3 x 81) = 24.3 l/s

Continuous extract ventilation rate of the dwelling is: 24.3 l/s
Overall minimum boost extract ventilation rate requirement [TGD F - Table 1]: = Kitchen + Utility + Toilet + Bathroom l/s = 37l/s

25% capacity requirement over general ventilation rate of the dwelling [TGD F - 1.2.2.3]: = 30.375l/s
Total capacity of the system l/s = 37l/s

Room with MEV extract grid (s) Room general extract airflow rate (l/s) adjusted proportionally
Kitchen = 8.5 l/s
Utility = 5.3l/s
Toilet = 5.3l/s
Bathroom = 5.3l/s

A humidity sensitive air inlet and demand controlled extraction system to be installed

Total Ventilation 49,700mm²

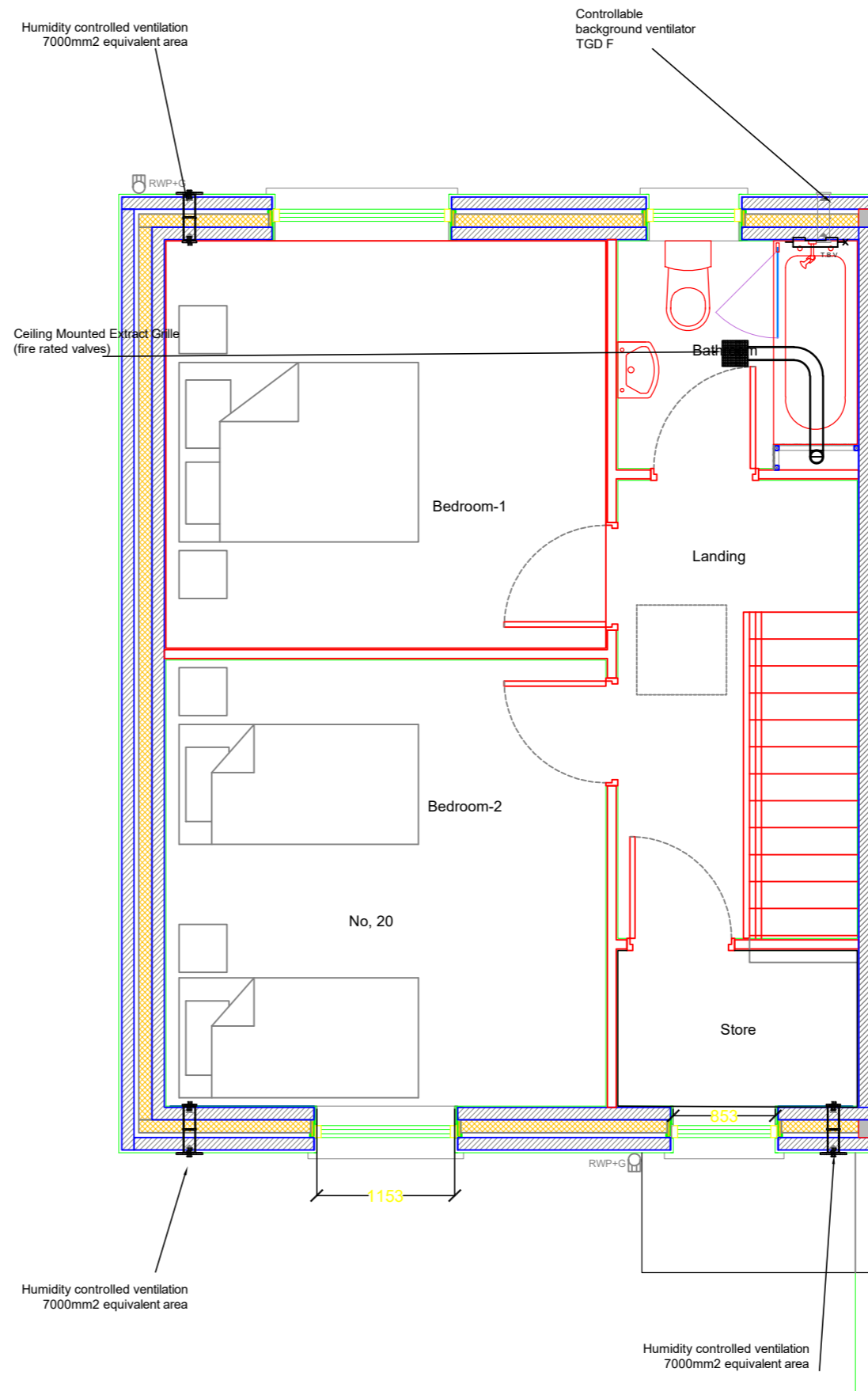
Minimum total equivalent area of background ventilators providing general ventilation 42,000mm² + 7000mm² /10m > 70m²
Total area = 81m²
Background ventilators = 42,000mm² + 7,700mm² = 49,700mm²

Ventilation heat Loss calculations based on S.R. 50-1 2021 NSAI building services - codes of practice - part 1 water based heating systems in dwellings
Building fabric heat Loss calculations based on S.R. 50-1 2021 NSAI, building services - codes of practice - part 1 water based heating systems in dwellings
Heat emitters based on Low flow & return temperature annex H, S.R. 50-1 2021 NSAI building services - codes of practice - part 1 water based heating systems

Ventilation to; Buildings Regulations 2019 Technical Guidance Document F Ventilation

- NOTE:
1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.

Final Locations to be agreed on site
The drawings detail the functional requirements and arrangements of the services



Rev. No.	Revision Description	Date

Project Stage: Planning






Project Title: Housing Development
19 & 20 Dr. Croke Place, Kilbrin.

Drawing Title: Ventilation First Floor

Comhairle Contae Chorcaí
Ailtirí | Stiúrthóireacht Tithíochta
Cork County Council
Architects | Housing Directorate
County Hall, Cork
Tel: (021) 4285433
e-mail: architects.housing@corkcoco.ie

Job Reference: N2022014	Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry
Dwg. No.: DR-CCC-ME-PL-272	Sheet: A3
Date: Oct.2023	Scale: 1:50
Issue for: Planning	Sheet: A3

Legend, Mechanical Extraction

-  Mechanical extraction unit
-  Flush mounted demand control extract grille
-  Humidity controlled demand ventilation
7000mm²/3500mm² equivalent area
-  Stainless steel kitchen extract hood
-  Mechanical extraction control

Calculated general ventilation rate based on occupancy of the dwelling [TGD F - 1.2.2.2]: @ 5 l/s plus 4 l/s person = 5 + (4*4) = 21

Calculated general ventilation rate based on internal floor area of the dwelling [TGD F - 1.2.2.2]: 83 m² at 0.3 l/s/m² (0.3 x 81) = 24.3 l/s

Continuous extract ventilation rate of the dwelling is: 24.3 l/s
Overall minimum boost extract ventilation rate requirement [TGD F - Table 1]: = Kitchen + Utility + Toilet + Bathroom l/s = 37l/s

25% capacity requirement over general ventilation rate of the dwelling [TGD F - 1.2.2.3]: = 30.375l/s
Total capacity of the system l/s = 37l/s

Room with MEV extract grid (s) Room general extract airflow rate (l/s) adjusted proportionally
Kitchen = 8.5 l/s
Utility = 5.3l/s
Toilet = 5.3l/s
Bathroom = 5.3l/s

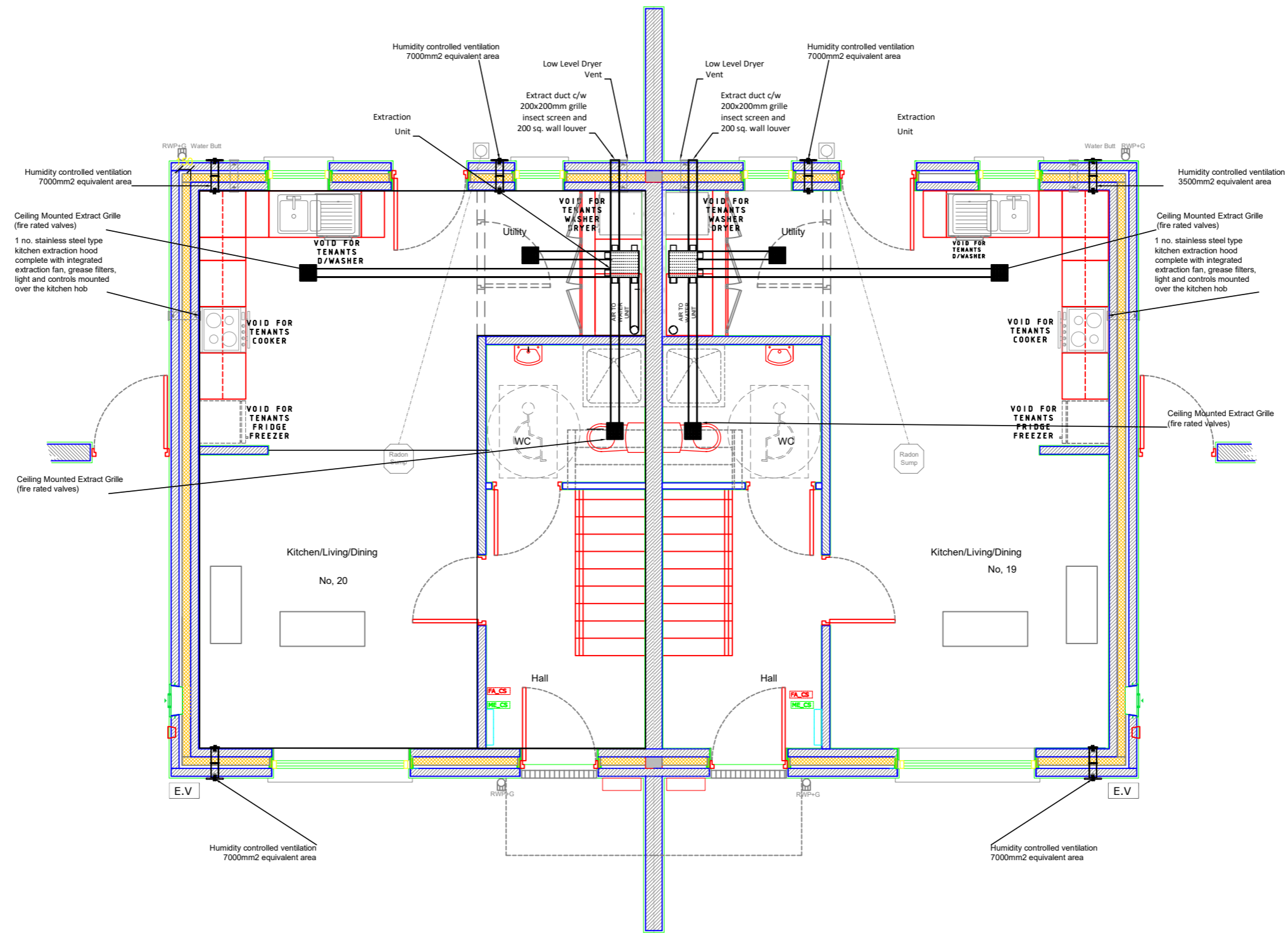
A humidity sensitive air inlet and demand controlled extraction system to be installed
Total Ventilation 49,700mm²

Minimum total equivalent area of background ventilators providing general ventilation 42,000mm² + 7000mm² /10m > 70m²
Total area = 81m²
Background ventilators = 42,000mm² + 7,700mm² = 49,700mm²

Ventilation heat Loss calculations based on S.R. 50-1 2021 NSAI building services - codes of practice - part 1 water based heating systems in dwellings
Building fabric heat Loss calculations based on S.R. 50-1 2021 NSAI, building services - codes of practice - part 1 water based heating systems in dwellings
Heat emitters based on Low flow & return temperature annex H, S.R. 50-1 2021 NSAI building services - codes of practice - part 1 water based heating systems

Ventilation to; Buildings Regulations 2019 Technical Guidance Document F Ventilation

- NOTE:
1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.



Final Locations to be agreed on site
The drawings detail the functional requirements and arrangements of the services

Rev. No.	Revision Description	Date

Project Stage: Planning






Project Title: Housing Development
19 & 20 Dr. Croke Place, Kilbrin.

Drawing Title: Ventilation Ground Floor 19 & 20

Comhairle Contae Chorcaí
Ailtirí | Stiúrthóireacht Tithíochta
Cork County Council
Architects | Housing Directorate
County Hall, Cork
Tel: (021) 4285433
e-mail: architects.housing@corkcoco.ie

Job Reference: N2022014	Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry
Dwg. No.: DR-CCC-PL-273	Sheet: A3
Date: Oct.2023	Scale: N/A
Issue for: Planning	Sheet: A3

Legend, Mechanical Extraction

-  Mechanical extraction unit
-  Flush mounted demand control extract grille
-  Humidity controlled demand ventilation
7000mm²/3500mm² equivalent area
-  Stainless steel kitchen extract hood
-  Mechanical extraction control

Calculated general ventilation rate based on occupancy of the dwelling [TGD F - 1.2.2.2]: @ 5 l/s plus 4 l/s person = 5 + (4*4) = 21

Calculated general ventilation rate based on internal floor area of the dwelling [TGD F - 1.2.2.2]: 83 m² at 0.3 l/s/m² (0.3 x 81) = 24.3 l/s

Continuous extract ventilation rate of the dwelling is: 24.3 l/s
Overall minimum boost extract ventilation rate requirement [TGD F - Table 1]: = Kitchen + Utility + Toilet + Bathroom l/s = 37l/s

25% capacity requirement over general ventilation rate of the dwelling [TGD F - 1.2.2.3]: = 30.375l/s
Total capacity of the system l/s = 37l/s

Room with MEV extract grid (s) Room general extract airflow rate (l/s) adjusted proportionally
Kitchen = 8.5 l/s
Utility = 5.3l/s
Toilet = 5.3l/s
Bathroom = 5.3l/s

A humidity sensitive air inlet and demand controlled extraction system to be installed

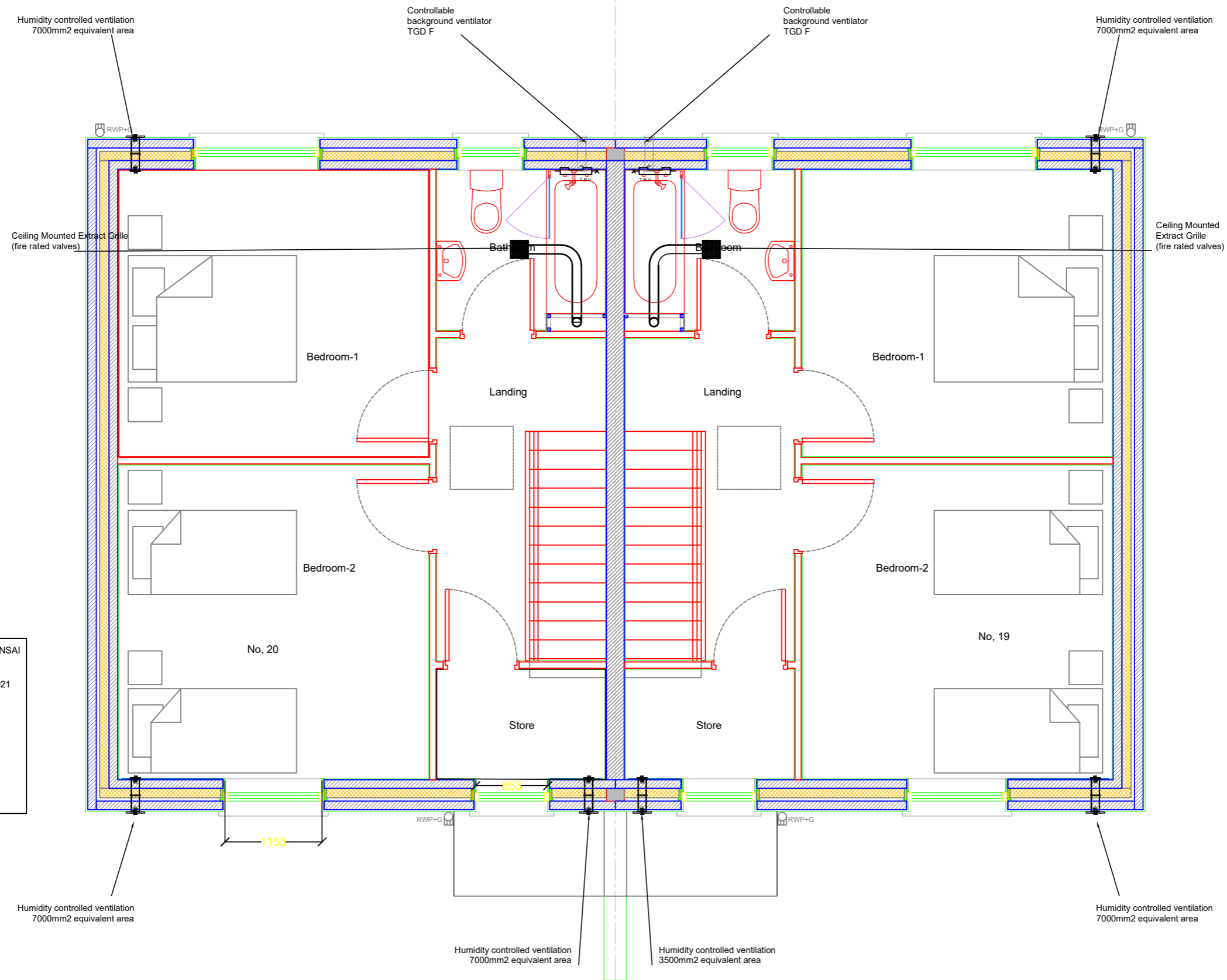
Total Ventilation 49,700mm²

Minimum total equivalent area of background ventilators providing general ventilation 42,000mm² + 7000mm² /10m > 70m²
Total area = 81m²
Background ventilators = 42,000mm² + 7,700mm² = 49,700mm²

Ventilation heat Loss calculations based on S.R. 50-1 2021 NSAI building services - codes of practice - part 1 water based heating systems in dwellings
Building fabric heat Loss calculations based on S.R. 50-1 2021 NSAI, building services - codes of practice - part 1 water based heating systems in dwellings
Heat emitters based on Low flow & return temperature annex H, S.R. 50-1 2021 NSAI building services - codes of practice - part 1 water based heating systems

Ventilation to; Buildings Regulations 2019 Technical Guidance Document F Ventilation

- NOTE:
1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.



Final Locations to be agreed on site
The drawings detail the functional requirements and arrangements of the services

Rev. No.	Revision Description	Date

Project Stage:	Planning
Project Title:	Housing Development 19 & 20 Dr. Croke Place, Kilbrin.
Drawing Title:	Ventilation First Floor 19 & 20

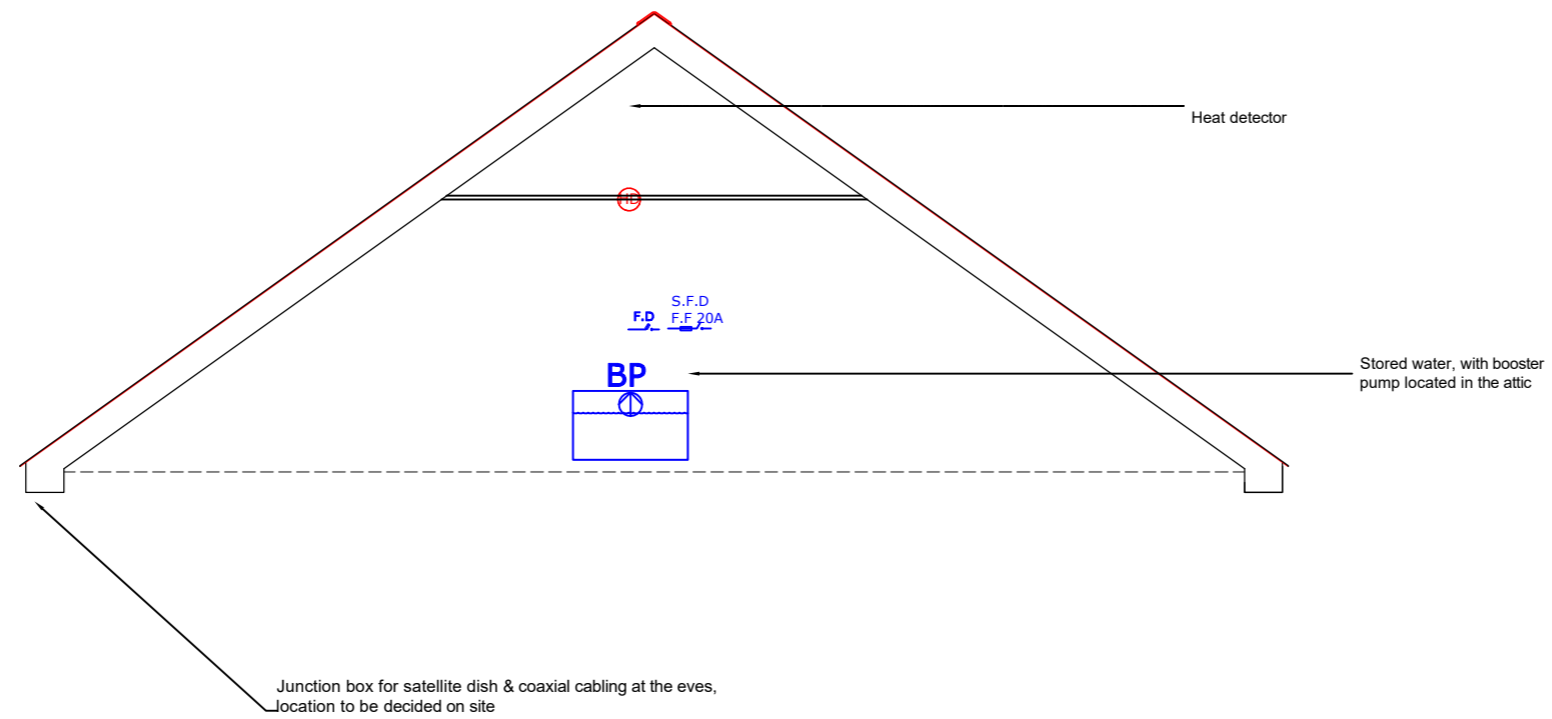
Comhairle Contae Chorcaí
Ailtirí | Stiúrthóireacht Tithíochta

Cork County Council
Architects | Housing Directorate

County Hall, Cork
Tel: (021) 4285433
e-mail: architects.housing@corkcoco.ie

Job Reference:	N2022014	Design Team:	Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry
Dwg. No.:	DR-CCC-ME-PL-274	Date:	Oct.2023
Date:	Oct.2023	Scale:	N/A
Issue for:	Planning	Sheet:	A3

NOTE:
 1. THIS DRAWING IS COPYRIGHT.
 2. THIS DRAWING MUST NOT BE SCALED.
 3. THE CONTRACTOR IS TO CHECK ALL DIMENSIONS ON SITE.
 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.



Final Locations to be agreed on site
 The drawings detail the functional requirements and arrangements of the services

Rev. No.	Revision Description	Date
----------	----------------------	------

Project Stage: Planning

Project Title: Housing Development
 19 & 20 Dr. Croke Place, Kilbrin.

Drawing Title: Attic

Comhairle Contae Chorcaí
 Ailtirí | Stiúrthóireacht Tithíochta
Cork County Council
 Architects | Housing Directorate
 County Hall, Cork
 Tel: (021) 4285433
 e-mail: architects.housing@corkcoco.ie

Job Reference: N2022014	Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Snr. Architect: R. Henry
Dwg. No.: DR-CCC-MEPL-286	Date: Oct. 2023
Scale: 1:50	Issue for: Planning
Sheet: A3	