

Malcolm McCabe
70 Sir John Rogersons Quay
Dublin
Co. Dublin

Uisce Éireann
Bosca OP 448
Oifig Sheachadta na
Cathrach Theas
Cathair Chorcaí

Irish Water
PO Box 448,
South City
Delivery Office,
Cork City.

www.water.ie

2 June 2022

**Re: Design Submission for 326-328 South Circular Road, Dublin, Co. Dublin (the “Development”)
(the “Design Submission”) / Connection Reference No: CDS22003138**

Dear Malcolm McCabe,

Many thanks for your recent Design Submission.

We have reviewed your proposal for the connection(s) at the Development. Based on the information provided, which included the documents outlined in Appendix A to this letter, Irish Water has no objection to your proposals.

This letter does not constitute an offer, in whole or in part, to provide a connection to any Irish Water infrastructure. Before you can connect to our network you must sign a connection agreement with Irish Water. This can be applied for by completing the connection application form at www.water.ie/connections. Irish Water’s current charges for water and wastewater connections are set out in the Water Charges Plan as approved by the Commission for Regulation of Utilities (CRU)(https://www.cru.ie/document_group/irish-waters-water-charges-plan-2018/).

You the Customer (including any designers/contractors or other related parties appointed by you) is entirely responsible for the design and construction of all water and/or wastewater infrastructure within the Development which is necessary to facilitate connection(s) from the boundary of the Development to Irish Water’s network(s) (the “**Self-Lay Works**”), as reflected in your Design Submission. Acceptance of the Design Submission by Irish Water does not, in any way, render Irish Water liable for any elements of the design and/or construction of the Self-Lay Works.

If you have any further questions, please contact your Irish Water representative:

Name: Dario Alvarez

Email: dalvarez@water.ie

Yours sincerely,



Yvonne Harris
Head of Customer Operations

Appendix A

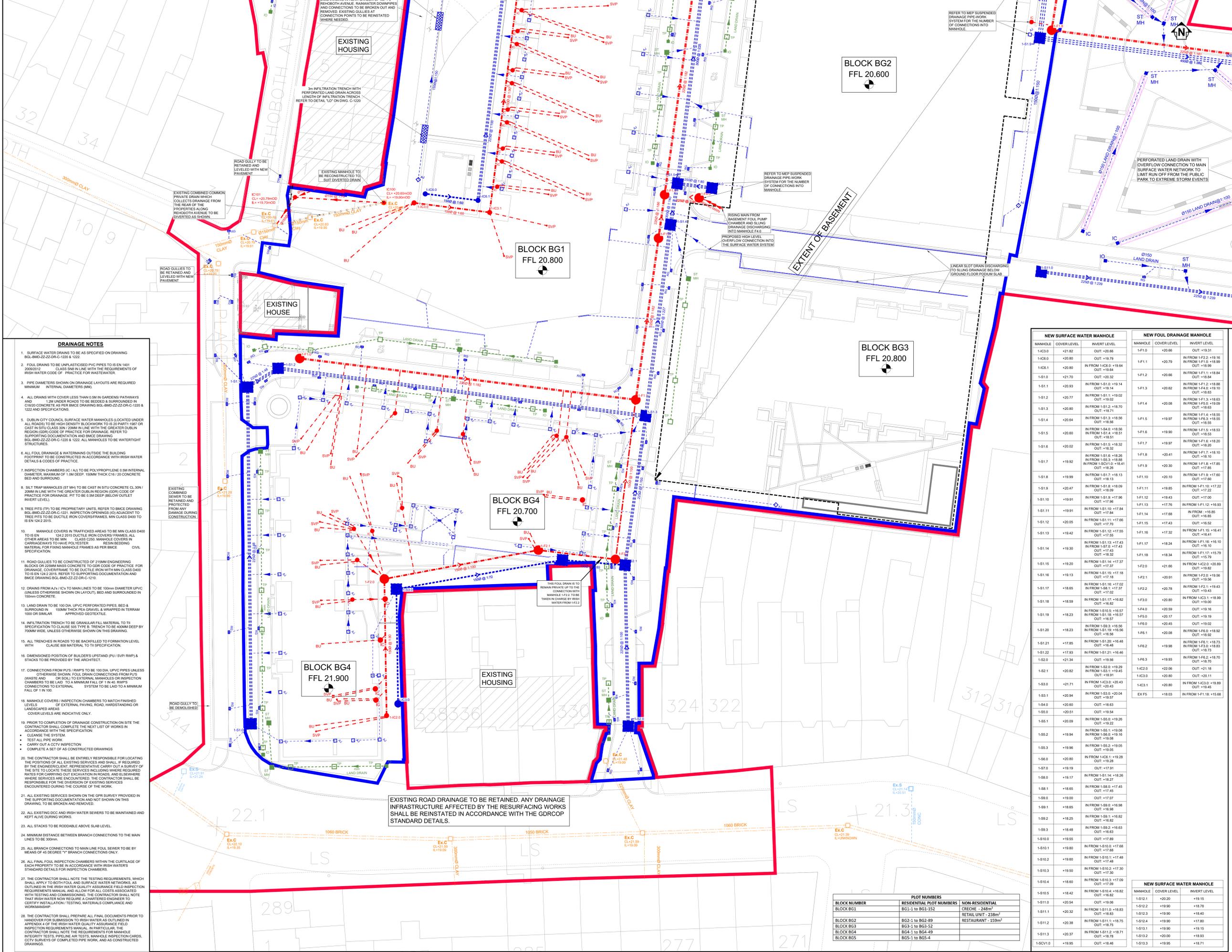
Document Title & Revision

- [BGL-BMD-ZZ-00-DR-C-1030 Rev. PL6]
- [BGL-BMD-ZZ-00-DR-C-1031 Rev. PL6]
- [BGL-BMD-ZZ-00-DR-C-1032 Rev. PL6]
- [BGL-BMD-ZZ-00-DR-C-1020 Rev. PL6]
- [BGL-BMD-ZZ-00-DR-C-1021 Rev. PL6]
- [BGL-BMD-ZZ-00-DR-C-1022 Rev. PL6]
- [BGL-BMD-ZZ-00-DR-C-1120 Rev. PL4]
- [BGL-BMD-ZZ-00-DR-C-1121 Rev. PL4]

Standard Details/Code of Practice Exemption: N/A

For further information, visit www.water.ie/connections

Notwithstanding any matters listed above, the Customer (including any appointed designers/contractors, etc.) is entirely responsible for the design and construction of the Self-Lay Works. Acceptance of the Design Submission by Irish Water will not, in any way, render Irish Water liable for any elements of the design and/or construction of the Self-Lay Works.



NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECTS DRAWINGS. DIMENSIONS ONLY (NOT SCALING) TO BE USED. WHERE A CONFLICT OF INFORMATION EXISTS OR IF ANY DOUBT - ASK.
- CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.

KEY PLAN
SCALE @ A0: 1:1000
SCALE @ A2: 1:10000

CIVIL LEGEND

- NEW FOUL MANHOLE: F (Red circle)
- NEW FOUL PIPE: (Red dashed line)
- EX. SURFACE WATER PIPE: Ex.S (Blue square)
- EX. SURFACE WATER PIPE: (Blue dashed line)
- NEW SURFACE WATER MANHOLE: S (Blue square)
- NEW SURFACE WATER PIPE: (Blue dashed line)
- EX. COMBINED MANHOLE: Ex.C (Orange square)
- EX. COMBINED PIPE: (Orange dashed line)
- NEW RISING MAIN: (Red dashed line)
- DECOMMISSIONED LINE: (Red dashed line with 'x' marks)
- FOUL INSPECTION CHAMBER: IC (Red circle)
- SURFACE ACCESS JUNCTION: AJ (Blue square)
- RAINWATER PIPE: (Blue dashed line)
- SOIL VENT PIPE: (Blue dashed line)
- ROAD GULLY: (Blue dashed line)
- SURFACE RIDDING EYE: (Blue dashed line)
- GULLY TRAP: (Blue dashed line)
- NEW SIDE INLET KERB GULLY: (Blue dashed line)
- PAVEMENT GULLY: (Blue dashed line)
- DRAINAGE CHANNEL: (Blue dashed line)
- PROPOSED INSPECTION OPENING: IO (Green square)
- 150mm PERFORATED PVC CONVEYANCE PIPE BENEATH BASE OF TREE PIT: (Green dashed line)
- NEW TREE PIT: (Green square)
- SILT TRAP MANHOLE: ST (Green square)
- EXISTING BUILDING: (Grey outline)
- BAILEY GIBSON SITE BOUNDARY: (Red solid line)
- OWNERSHIP LINE: (Blue solid line)
- BASEMENT OUTLINE: (Black dashed line)

NEW SURFACE WATER MANHOLE			NEW FOUL DRAINAGE MANHOLE		
MANHOLE	COVER LEVEL	INVERT LEVEL	MANHOLE	COVER LEVEL	INVERT LEVEL
1-HC0	+21.82	OUT: +20.66	1-F10	+20.86	OUT: +19.31
1-HC0	+20.80	OUT: +19.79	1-F11	+20.79	IN FROM 1-F2.0 +19.16 OUT: +19.89
1-HC1	+20.80	IN FROM 1-HC.0 +19.64 OUT: +19.64	1-F12	+20.66	IN FROM 1-F1.1 +18.84 OUT: +18.84
1-S10	+21.70	OUT: +20.32	1-F13	+20.62	IN FROM 1-F1.2 +18.88 OUT: +18.83
1-S11	+20.93	IN FROM 1-S1.0 +19.14 OUT: +19.14	1-F14	+20.08	IN FROM 1-F1.3 +18.63 OUT: +18.63
1-S12	+20.77	IN FROM 1-S1.0 +19.02 OUT: +19.02	1-F15	+19.97	IN FROM 1-F1.4 +18.55 OUT: +18.55
1-S13	+20.80	IN FROM 1-S1.2 +19.70 OUT: +19.70	1-F16	+19.90	IN FROM 1-F1.5 +18.33 OUT: +18.33
1-S14	+20.64	IN FROM 1-S1.3 +18.56 OUT: +18.56	1-F17	+19.97	IN FROM 1-F1.6 +18.20 OUT: +18.20
1-S15	+20.80	IN FROM 1-S1.4 +18.55 OUT: +18.51	1-F18	+20.41	IN FROM 1-F1.7 +18.10 OUT: +18.10
1-S16	+20.02	IN FROM 1-S1.5 +18.32 OUT: +18.32	1-F19	+20.30	IN FROM 1-F1.8 +17.85 OUT: +17.85
1-S17	+19.92	IN FROM 1-S1.6 +18.20 OUT: +18.20	1-F20	+21.66	IN FROM 1-F2.0 +19.56 OUT: +19.56
1-S18	+19.99	IN FROM 1-S1.7 +18.13 OUT: +18.13	1-F21	+20.91	IN FROM 1-F2.1 +19.43 OUT: +19.43
1-S19	+20.47	IN FROM 1-S1.8 +18.00 OUT: +18.00	1-F22	+20.76	IN FROM 1-F2.2 +19.30 OUT: +19.30
1-S110	+19.91	IN FROM 1-S1.9 +17.96 OUT: +17.96	1-F30	+20.80	IN FROM 1-HC3.1 +18.90 OUT: +18.90
1-F113	+17.76	IN FROM 1-F1.12 +16.93 OUT: +16.93	1-F40	+20.59	OUT: +19.16
1-S111	+19.91	IN FROM 1-S1.10 +17.84 OUT: +17.84	1-F50	+20.17	OUT: +19.19
1-S112	+20.05	IN FROM 1-S1.11 +17.66 OUT: +17.66	1-F60	+20.45	OUT: +18.92
1-S113	+19.42	IN FROM 1-S1.12 +17.55 OUT: +17.55	1-F61	+20.08	IN FROM 1-F6.0 +18.92 OUT: +18.92
1-S114	+19.30	IN FROM 1-S1.13 +17.43 OUT: +17.43	1-F62	+19.98	IN FROM 1-F6.1 +18.73 OUT: +18.73
1-S115	+19.20	IN FROM 1-S1.14 +17.37 OUT: +17.37	1-F63	+19.93	IN FROM 1-F6.2 +18.70 OUT: +18.70
1-S116	+19.13	IN FROM 1-S1.15 +17.18 OUT: +17.18	1-HC30	+20.80	OUT: +20.11
1-S117	+18.65	IN FROM 1-S1.16 +17.02 OUT: +17.02	1-HC31	+20.80	IN FROM 1-HC3.0 +18.90 OUT: +18.45
1-S118	+18.59	IN FROM 1-S1.17 +16.82 OUT: +16.82	EX.FS	+18.03	IN FROM 1-F1.18 +15.68
1-S119	+18.23	IN FROM 1-S1.18 +16.57 OUT: +16.57			
1-S120	+18.23	IN FROM 1-S1.19 +16.56 OUT: +16.56			
1-S121	+17.85	IN FROM 1-S1.20 +16.48 OUT: +16.48			
1-S122	+17.93	IN FROM 1-S1.21 +16.46 OUT: +16.46			
1-S20	+21.34	OUT: +19.56			
1-S21	+20.82	IN FROM 1-S21.1 +19.45 OUT: +19.45			
1-S30	+21.71	IN FROM 1-HC3.0 +20.43 OUT: +20.43			
1-S31	+20.94	IN FROM 1-S30.0 +20.04 OUT: +20.04			
1-S40	+20.60	OUT: +18.63			
1-S50	+20.51	OUT: +19.54			
1-S51	+20.09	IN FROM 1-S50.0 +19.26 OUT: +19.26			
1-S52	+19.94	IN FROM 1-S51.0 +19.08 OUT: +19.08			
1-S53	+19.96	IN FROM 1-S52.0 +19.05 OUT: +19.05			
1-S60	+20.80	IN FROM 1-HC2.1 +19.28 OUT: +19.28			
1-S70	+19.19	OUT: +17.91			
1-S80	+19.17	IN FROM 1-S71.0 +18.26 OUT: +18.27			
1-S81	+18.65	IN FROM 1-S80.0 +17.45 OUT: +17.45			
1-S82	+19.00	OUT: +17.07			
1-S91	+18.65	IN FROM 1-S90.0 +16.56 OUT: +16.58			
1-S92	+18.25	IN FROM 1-S91.0 +16.82 OUT: +16.82			
1-S93	+18.48	IN FROM 1-S92.0 +16.63 OUT: +16.63			
1-S100	+19.55	OUT: +17.89			
1-S101	+19.80	IN FROM 1-S10.0 +17.68 OUT: +17.68			
1-S102	+19.60	IN FROM 1-S10.1 +17.48 OUT: +17.48			
1-S103	+19.50	IN FROM 1-S10.2 +17.30 OUT: +17.30			
1-S104	+18.80	IN FROM 1-S10.3 +17.09 OUT: +17.09			
1-S105	+18.42	IN FROM 1-S10.4 +16.82 OUT: +16.82			
1-S110	+20.54	OUT: +19.06			
1-S111	+20.32	IN FROM 1-S11.0 +18.83 OUT: +18.83			
1-S112	+20.38	IN FROM 1-S11.1 +18.75 OUT: +18.75			
1-S113	+20.37	IN FROM 1-S11.2 +18.71 OUT: +18.71			
1-SCV1.0	+18.95	OUT: +18.46			

BLOCK NUMBER	PLOT NUMBERS	RESIDENTIAL PLOT NUMBERS	NON-RESIDENTIAL
BLOCK BG1	BG1-1 to BG1-152	CRECHE - 248m ²	RETAIL UNIT - 238m ²
BLOCK BG2	BG2-1 to BG2-89		RESTAURANT - 159m ²
BLOCK BG3	BG3-1 to BG3-52		
BLOCK BG4	BG4-1 to BG4-49		
BLOCK BG5	BG5-1 to BG5-4		

- DRAINAGE NOTES**
- SURFACE WATER DRAINS TO BE AS SPECIFIED ON DRAWING BGL-BMD-ZZ-0R-C-1020-1022
 - FOUL DRAINS TO BE UNPLASTICISED PVC PIPES TO IS EN 1401 2006/012 CLASS SBN IN LINE WITH THE REQUIREMENTS OF IRISH WATER CODE OF PRACTICE FOR WASTEWATER
 - PIPE DIAMETERS SHOWN ON DRAINAGE LAYOUTS ARE REQUIRED MINIMUM INTERNAL DIAMETERS (ID)
 - ALL DRAINS WITH COVER LESS THAN 0.9M IN GARDENS/PATHWAYS AND 1.2M UNDER ROADS TO BE REDECKED & SURROUNDED IN C15/20 CONCRETE AS PER BMD DRAWING BGL-BMD-ZZ-0R-C-1220 & 1222 AND SPECIFICATIONS
 - DUBLIN CITY COUNCIL SURFACE WATER MANHOLES LOCATED UNDER ALL ROADS TO BE HIGH DENSITY BLOCKWORK TO IS 20 PART 1/847 OR CAST IN SITU CLASS 30N / 20MM IN LINE WITH THE GREATER DUBLIN REGION GDR CODE OF PRACTICE FOR DRAINAGE. REFER TO SUPPORTING DOCUMENTATION AND BMD DRAWING BGL-BMD-ZZ-0R-C-1220 & 1222. ALL MANHOLES TO BE WATER TIGHT STRUCTURES
 - ALL FOUL DRAINAGE & WATERMANS OUTSIDE THE BUILDING FOOTPRINT TO BE CONSTRUCTED IN ACCORDANCE WITH IRISH WATER DETAILS & CODES OF PRACTICE
 - INSPECTION CHAMBERS (IC / AJ) TO BE POLYPROPYLENE 0.9M INTERNAL DIAMETER. MAXIMUM OF 1.0M DEEP. 150MM THICK C18 / 20 CONCRETE BED AND SURROUNDED IN C15/20 CONCRETE
 - SILT TRAP MANHOLES (ST MH) TO BE CAST IN SITU CONCRETE CL 30N / 20MM IN LINE WITH THE GREATER DUBLIN REGION (GDR) CODE OF PRACTICE FOR DRAINAGE. PIT TO BE 0.5M DEEP (BELOW OUTLET INVERT LEVEL)
 - TREE PITS (TP) TO BE PROPRIETARY UNITS. REFER TO BMD DRAWING BGL-BMD-ZZ-0R-C-1221. INSPECTION OPENINGS (IO) ADJACENT TO TREE PITS TO BE DUCTILE IRON COVER FRAMES. MIN CLASS D400 TO IS EN 124 2 2015.
 - MANHOLE COVERS IN TRAFFICKED AREAS TO BE MIN CLASS D400 TO IS EN 124 2 2015 DUCTILE IRON COVERS FRAMES. ALL OTHER AREAS TO BE MIN CLASS C250 MANHOLE COVERS IN CARPAGES/WAYS TO HAVE POLYESTER RESIN BEDDING MATERIAL FOR FONG MANHOLE FRAMES AS PER BMD CIVIL SPECIFICATION.
 - ROAD GULLIES TO BE CONSTRUCTED OF 215MM ENGINEERING BLOCKS OR 25MM MASS CONCRETE TO GDR CODE OF PRACTICE FOR DRAINAGE. COVER FRAMES TO BE DUCTILE IRON WITH MIN CLASS D400 TO IS EN 124 2 2015. REFER TO SUPPORTING DOCUMENTATION AND BMD DRAWING BGL-BMD-ZZ-0R-C-1210.
 - DRAINS FROM AJV / ICV TO MAIN LINES TO BE 100MM DIAMETER UPVC UNLESS OTHERWISE SHOWN ON LAYOUT. BED AND SURROUNDED IN 150MM CONCRETE
 - LAND DRAIN TO BE 100 DIA. UPVC PERFORATED PIPES, BED & SURROUNDED IN 150MM THICK PEA GRAVEL & WRAPPED IN TERRAM 1000 OR SIMILAR APPROVED GEOTEXTILE
 - INFILTRATION TRENCH TO BE GRANULAR FILL MATERIAL TO T1 SPECIFICATION TO CLAUSE 505 TYPE B. TRENCH TO BE 400MM DEEP BY 700MM WIDE, UNLESS OTHERWISE SHOWN ON THIS DRAWING.
 - ALL TRENCHES IN ROADS TO BE BACKFILLED TO FORMATION LEVEL WITH CLAUSE 809 MATERIAL TO T1 SPECIFICATION.
 - DIMENSIONED POSITION OF BUILDERS UPSTAND (PU) (SVP RWP) & STACKS TO BE PROVIDED BY THE ARCHITECT
 - CONNECTIONS FROM PUS / RWPS TO BE 100 DIA. UPVC PIPES UNLESS OTHERWISE SHOWN. FOUL DRAIN CONNECTIONS FROM PUS (WASTE AND / OR SOL) TO EXTERNAL MANHOLES OR INSPECTION CHAMBERS TO BE LAID TO A MINIMUM FALL OF 1 IN 40. RWPS CONNECTIONS TO EXTERNAL SYSTEM TO BE LAID TO A MINIMUM FALL OF 1 IN 100.
 - MANHOLE COVERS / INSPECTION CHAMBERS TO MATCH FINISHED LEVELS OF EXTERNAL PAVING, ROAD, HARDSTANDING OR UNDEVELOPED AREAS. COVER LEVELS ARE INDICATIVE ONLY.
 - PRIOR TO COMPLETION OF DRAINAGE CONSTRUCTION ON SITE THE CONTRACTOR SHALL COMPLETE THE NEXT LIST OF WORKS IN ACCORDANCE WITH THE SPECIFICATION:
 - CLEANSE THE SYSTEM
 - TEST ALL PIPE WORK
 - CARRY OUT A CCTV INSPECTION
 - COMPLETE A SET OF AS CONSTRUCTED DRAWINGS
 - THE CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR LOCATING THE POSITIONS OF ALL EXISTING SERVICES AND SHALL, IF REQUIRED BY THE ENGINEER/CLIENT, REPRESENTATIVE CARRY OUT A SURVEY OF THE SITE TO LOCATE THESE SERVICES INCLUDING WHERE REQUIRED WATER FOR CHERRYING IN EXCAVATION IN PLOTS AND ELSEWHERE WHERE SERVICES ARE ENCOUNTERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIVERSION OF EXISTING SERVICES ENCOUNTERED DURING THE COURSE OF THE WORK.
 - ALL EXISTING SERVICES SHOWN ON THE GPR SURVEY PROVIDED IN THE SUPPORTING DOCUMENTATION AND NOT SHOWN ON THIS DRAWING TO BE BROKEN AND REMOVED.
 - ALL EXISTING DCC AND IRISH WATER SEWERS TO BE MAINTAINED AND KEPT ALIVE DURING WORKS.
 - ALL STACKS TO BE RODDABLE ABOVE SLAB LEVEL.
 - MINIMUM DISTANCE BETWEEN BRANCH CONNECTIONS TO THE MAIN LINES TO BE 300mm.
 - ALL BRANCH CONNECTIONS TO MAIN LINE FOUL SEWER TO BE BY MEANS OF 45 DEGREE 'Y' BRANCH CONNECTIONS ONLY.
 - ALL FINAL FOUL INSPECTION CHAMBERS WITHIN THE CURTLAGGE OF EACH PROPERTY TO BE IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS FOR INSPECTION CHAMBERS.
 - THE CONTRACTOR SHALL NOTE THE TESTING REQUIREMENTS, WHICH SHALL APPLY TO BOTH FOUL AND SURFACE WATER NETWORKS, AS OUTLINED IN THE IRISH WATER QUALITY ASSURANCE FIELD INSPECTION REQUIREMENTS MANUAL AND ALLOW FOR ALL COSTS ASSOCIATED WITH TESTING AND COMMISSIONING. THE CONTRACTOR SHALL NOTE THAT IRISH WATER NOW REQUIRE A CHARTERED ENGINEER TO CERTIFY INSTALLATION TESTING, MATERIALS COMPLIANCE AND WORKMANSHIP.
 - THE CONTRACTOR SHALL PREPARE ALL FINAL DOCUMENTS PRIOR TO HANDOVER FOR SUBMISSION TO IRISH WATER AS OUTLINED IN APPENDIX 4 OF THE IRISH WATER QUALITY ASSURANCE FIELD INSPECTION REQUIREMENTS MANUAL. IN PARTICULAR, THE CONTRACTOR SHALL NOTE THE REQUIREMENTS FOR MANHOLE INTEGRITY TESTS, PIPELINE AIR TESTS, MANHOLE INSPECTION CARDS, CCTV SURVEYS OF COMPLETED PIPE WORK, AND AS CONSTRUCTED DRAWINGS.

PROPOSED DRAINAGE LAYOUT
SCALE @ A0: 1:200
SCALE @ A2: 1:400

PLANNING

PL6	31.05.22	PLANNING ISSUE	KS
PL5	16.03.22	UPDATED AS PER IW COMMENTS	TN
PL4	24.02.22	IW DIVERSIONS TEAM COMMENTS	TN
PL3	20.01.22	ISSUED FOR IW DESIGN VETTING	TN
PL2	10.12.21	ISSUED FOR IW DESIGN VETTING	TN
PL1	09.11.21	ISSUED FOR PRE-APPLICATION SUBMISSION	TN

ISSUE DATE DESCRIPTION BY

Project Engineer: DIARMID O'RAFFERTY Project Director: DIARMID KENNEDY

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ACEI
The Institution of Structural Engineers

CLIENT
CWTC MULTI FAMILY ICV ACTING SOLELY IN RESPECT OF ITS SUB FUND DBTR SCR1 FUND

PROJECT TITLE
BAILEY GIBSON DRH 2

BM PROJECT NO.
19117

REFERENCE
BGL-BMD-ZZ-0R-C-1020-1022 & 1120-1121

SUBMITALITY
S1

REVISION
P01

DRAWING TITLE
PROPOSED DRAINAGE LAYOUT

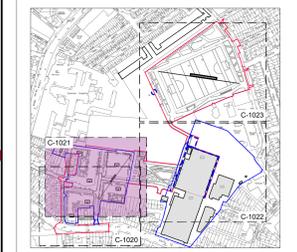
(SHEET 1 OF 4)

DRAWING NUMBER
BGL-BMD-ZZ-0R-C-1020

DATE
D2

REVISION
PL6

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- CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.



KEY PLAN
SCALE @ A2: 1:5000
SCALE @ A3: 1:10000

CIVIL LEGEND

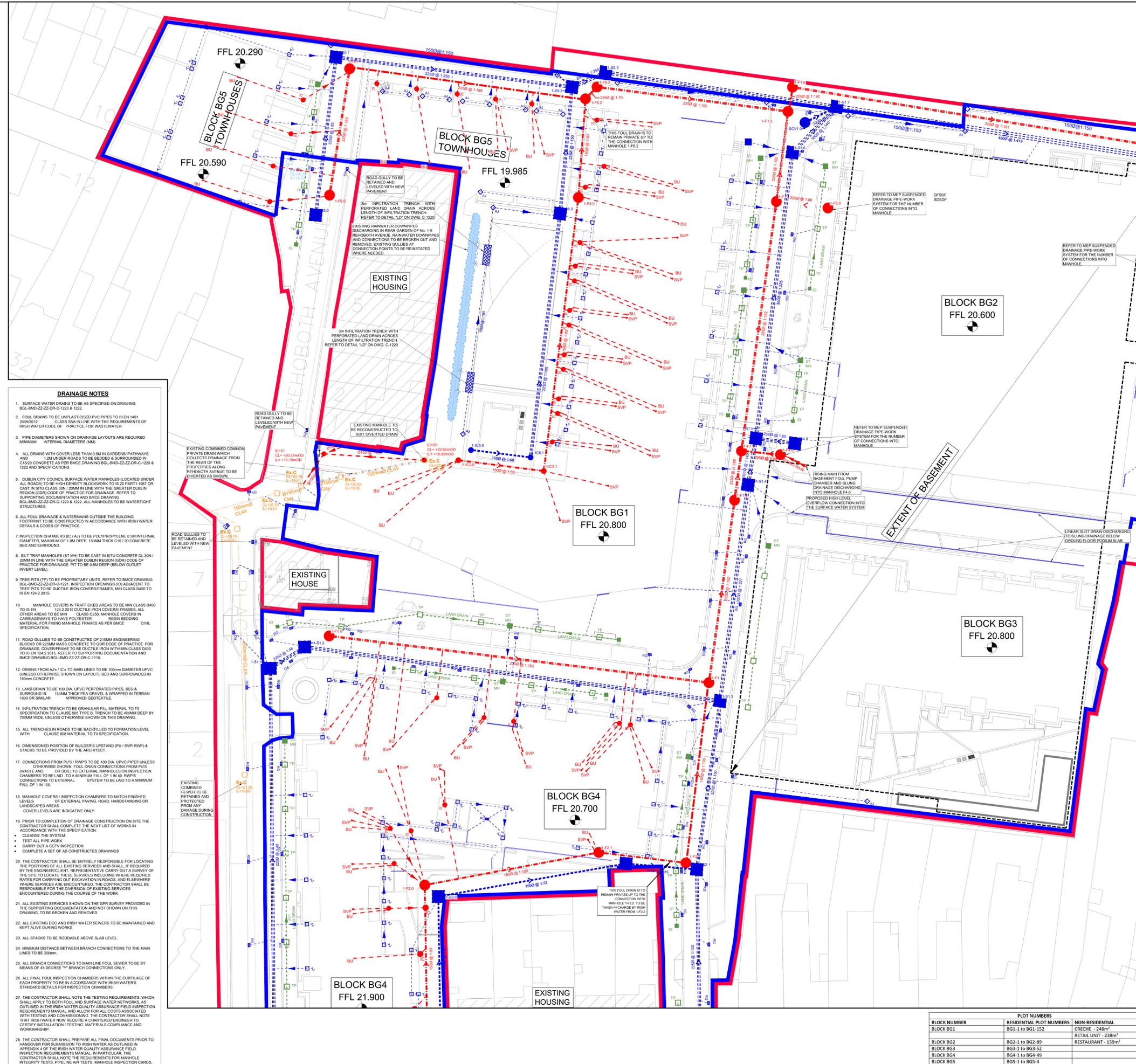
- NEW FOUL MANHOLE
- NEW FOUL PIPE
- EX. SURFACE WATER MANHOLE
- EX. SURFACE WATER PIPE
- NEW SURFACE WATER MANHOLE
- NEW SURFACE WATER PIPE
- EX. COMBINED MANHOLE
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- NEW SIDE INLET KERB GULLY
- PAVEMENT THICK
- DRAINAGE CHANNEL
- PROPOSED INFILTRATION TRENCH
- 150mm PERFORATED UPVC CONVEYANCE PIPE BENEATH BASE OF TREE PIT
- NEW TREE PIT
- SILT TRAP MANHOLE
- EXISTING BUILDING
- BAILEY GIBSON SITE BOUNDARY
- OWNERSHIP LINE
- BASEMENT OUTLINE

NEW SURFACE WATER MANHOLE			NEW FOUL DRAINAGE MANHOLE		
MANHOLE	COVER LEVEL	INVERT LEVEL	MANHOLE	COVER LEVEL	INVERT LEVEL
1-I-C30	+21.82	OUT: -20.66	1-F10	+20.66	OUT: -19.31
1-I-C60	+20.80	OUT: -19.79	1-F11	+20.79	IN FROM 1-F2.2 -19.16 OUT: -18.99
1-I-C51	+20.80	IN FROM 1-I-C6.6 -19.64 OUT: -19.84	1-F12	+20.66	IN FROM 1-F1.2 -18.84 OUT: -18.99
1-S10	+21.70	IN FROM 1-S10.2 -19.14 OUT: -19.14	1-F13	+20.62	IN FROM 1-F4.0 -19.10 OUT: -18.63
1-S11	+20.93	IN FROM 1-S1.1 -19.02 OUT: -19.02	1-F14	+20.08	IN FROM 1-F1.3 -18.63 IN FROM 1-F5.0 -19.09 OUT: -18.63
1-S12	+20.77	IN FROM 1-S1.2 -18.70 OUT: -18.71	1-F15	+19.97	IN FROM 1-F1.4 -18.55 IN FROM 1-F6.3 -18.55 OUT: -18.55
1-S13	+20.80	IN FROM 1-S1.3 -18.70 OUT: -18.70	1-F16	+19.90	IN FROM 1-F1.5 -18.53 OUT: -18.53
1-S14	+20.64	IN FROM 1-S1.4 -18.56 OUT: -18.56	1-F17	+19.97	IN FROM 1-F1.6 -18.20 OUT: -18.33
1-S15	+20.00	IN FROM 1-S1.5 -18.32 OUT: -18.32	1-F18	+20.41	IN FROM 1-F1.7 -18.10 OUT: -18.10
1-S16	+20.02	IN FROM 1-S1.6 -18.26 OUT: -18.26	1-F19	+20.30	IN FROM 1-F1.8 -17.65 OUT: -17.65
1-S17	+19.92	IN FROM 1-S1.7 -18.13 OUT: -18.13	1-F20	+21.60	IN FROM 1-F2.0 -19.56 OUT: -19.56
1-S18	+19.99	IN FROM 1-S1.8 -18.09 OUT: -18.09	1-F21	+20.91	IN FROM 1-F2.1 -19.43 OUT: -19.43
1-S19	+20.47	IN FROM 1-S1.9 -17.84 OUT: -17.84	1-F22	+20.78	IN FROM 1-F2.2 -19.43 OUT: -19.43
1-S110	+19.91	IN FROM 1-S1.10 -17.84 OUT: -17.84	1-F30	+20.80	IN FROM 1-I-C3.1 -18.99 OUT: -18.99
1-S111	+19.91	IN FROM 1-S1.11 -17.66 OUT: -17.66	1-F40	+20.59	OUT: -19.16
1-S112	+20.05	IN FROM 1-S1.12 -17.55 OUT: -17.55	1-F50	+20.17	OUT: -19.19
1-S113	+19.42	IN FROM 1-S1.13 -17.43 OUT: -17.43	1-F60	+20.45	OUT: -19.02
1-S114	+19.30	IN FROM 1-S1.14 -17.37 OUT: -17.37	1-F61	+20.06	IN FROM 1-F5.0 -18.72 IN FROM 1-F3.0 -18.63 OUT: -18.73
1-S115	+19.20	IN FROM 1-S1.15 -17.18 OUT: -17.18	1-F62	+19.98	IN FROM 1-F6.2 -18.70 OUT: -18.70
1-S116	+19.13	IN FROM 1-S1.16 -17.02 OUT: -17.02	1-F63	+19.93	IN FROM 1-F6.3 -18.70 OUT: -18.70
1-S117	+18.85	IN FROM 1-S1.17 -16.82 OUT: -16.82	1-I-C20	+22.06	OUT: -20.11
1-S118	+18.59	IN FROM 1-S1.18 -16.57 OUT: -16.57	1-I-C30	+20.80	IN FROM 1-I-C3.0 -19.99 OUT: -19.99
1-S119	+18.23	IN FROM 1-S1.19 -16.57 OUT: -16.57	1-I-C31	+20.80	IN FROM 1-I-C3.1 -19.99 OUT: -19.99
1-S120	+18.23	IN FROM 1-S1.20 -16.48 OUT: -16.48	EX-F5	+18.03	IN FROM 1-F1.18 -16.68
1-S121	+17.85	IN FROM 1-S1.21 -16.46 OUT: -16.46	1-S50	+20.51	OUT: -19.26
1-S122	+17.85	IN FROM 1-S1.22 -16.46 OUT: -16.46	1-S51	+20.09	IN FROM 1-S5.0 -19.26 OUT: -19.22
1-S20	+21.34	OUT: -19.56	1-S52	+19.94	IN FROM 1-S5.1 -19.08 IN FROM 1-S5.2 -19.16 OUT: -19.08
1-S21	+20.92	IN FROM 1-S2.0 -19.20 OUT: -19.20	1-S53	+19.96	IN FROM 1-S5.3 -19.05 OUT: -19.05
1-S30	+21.71	IN FROM 1-I-C3.0 -20.43 OUT: -19.43	1-S60	+20.80	IN FROM 1-S6.0 -19.26 OUT: -19.26
1-S31	+20.94	IN FROM 1-S3.0 -20.04 OUT: -19.57	1-S70	+19.19	OUT: -17.91
1-S40	+20.60	OUT: -18.63	1-S80	+19.17	IN FROM 1-S8.0 -18.26 OUT: -17.45
1-S50	+20.51	OUT: -19.26	1-S81	+18.65	IN FROM 1-S8.1 -17.45 OUT: -17.45
1-S51	+20.09	IN FROM 1-S5.0 -19.26 OUT: -19.22	1-S90	+19.00	OUT: -17.07
1-S52	+19.94	IN FROM 1-S5.1 -19.08 IN FROM 1-S5.2 -19.16 OUT: -19.08	1-S91	+18.65	IN FROM 1-S9.0 -16.98 OUT: -16.98
1-S53	+19.96	IN FROM 1-S5.3 -19.05 OUT: -19.05	1-S92	+18.25	IN FROM 1-S9.1 -16.82 OUT: -16.82
1-S60	+20.80	IN FROM 1-S6.0 -19.26 OUT: -19.26	1-S93	+18.48	IN FROM 1-S9.2 -16.63 OUT: -16.63
1-S70	+19.19	OUT: -17.91	1-S100	+19.55	OUT: -17.89
1-S80	+19.17	IN FROM 1-S8.0 -18.26 OUT: -17.45	1-S101	+19.80	IN FROM 1-S10.0 -17.68 OUT: -17.68
1-S81	+18.65	IN FROM 1-S8.1 -17.45 OUT: -17.45	1-S102	+19.60	IN FROM 1-S10.1 -17.48 OUT: -17.48
1-S90	+19.00	OUT: -17.07	1-S103	+19.50	IN FROM 1-S10.2 -17.30 OUT: -17.30
1-S91	+18.65	IN FROM 1-S9.0 -16.98 OUT: -16.98	1-S104	+19.60	IN FROM 1-S10.3 -17.09 OUT: -17.09
1-S92	+18.25	IN FROM 1-S9.1 -16.82 OUT: -16.82	1-S105	+18.42	IN FROM 1-S10.4 -16.82 OUT: -16.82
1-S93	+18.48	IN FROM 1-S9.2 -16.63 OUT: -16.63	1-S110	+20.54	OUT: -19.06
1-S100	+19.55	OUT: -17.89	1-S111	+20.32	IN FROM 1-S11.0 -18.83 OUT: -18.83
1-S101	+19.80	IN FROM 1-S10.0 -17.68 OUT: -17.68	1-S112	+20.30	IN FROM 1-S11.1 -18.75 OUT: -18.75
1-S102	+19.60	IN FROM 1-S10.1 -17.48 OUT: -17.48	1-S113	+20.37	IN FROM 1-S11.2 -18.71 OUT: -18.71
1-S103	+19.50	IN FROM 1-S10.2 -17.30 OUT: -17.30	1-SCV10	+19.95	OUT: -18.45
1-S104	+19.60	IN FROM 1-S10.3 -17.09 OUT: -17.09			
1-S105	+18.42	IN FROM 1-S10.4 -16.82 OUT: -16.82			
1-S110	+20.54	OUT: -19.06			
1-S111	+20.32	IN FROM 1-S11.0 -18.83 OUT: -18.83			
1-S112	+20.30	IN FROM 1-S11.1 -18.75 OUT: -18.75			
1-S113	+20.37	IN FROM 1-S11.2 -18.71 OUT: -18.71			
1-SCV10	+19.95	OUT: -18.45			

BLOCK NUMBER	PLOT NUMBERS	NON-RESIDENTIAL
BLOCK BG1	RESIDENTIAL PLOT NUMBERS BG1-1 to BG1-152	CRECHE - 248m ²
BLOCK BG2	BG2-1 to BG2-89	RESTAURANT - 159m ²
BLOCK BG3	BG3-1 to BG3-52	
BLOCK BG4	BG4-1 to BG4-49	
BLOCK BG5	BG5-1 to BG5-4	

PROPOSED DRAINAGE LAYOUT
SCALE @ A2: 1:200
SCALE @ A3: 1:400

- DRAINAGE NOTES**
- SURFACE WATER DRAINS TO BE AS SPECIFIED ON DRAWING BGL-BMD-ZZ-DR-C-1021 & 1022
 - FOUL DRAINS TO BE UNPLASTICISED PVC PIPES TO IS EN 1401 2009/2012 CLASS SBN IN LINE WITH THE REQUIREMENTS OF IRISH WATER CODE OF PRACTICE FOR WASTEWATER
 - PIPE DIAMETERS SHOWN ON DRAINAGE LAYOUTS ARE REQUIRED MINIMUM INTERNAL DIAMETERS (MM)
 - ALL DRAINS WITH COVER LESS THAN 0.5M IN GARDENS; PATHWAYS AND 1.5M UNDER ROADS TO BE BEDDED & SURROUNDED IN C1250 CONCRETE AS PER BICE DRAWING BGL-SM-ZZ-DR-C-1220 & 1222 AND SPECIFICATIONS
 - DUBLIN CITY COUNCIL SURFACE WATER MANHOLES LOCATED UNDER ALL ROADS TO BE HIGH BENTONITE WORKING TO IS 20 PART 1/987 OR CAST IN SITU CLASS 30M / 200M IN LINE WITH THE GREATER DUBLIN REGION CODE OF PRACTICE FOR DRAINAGE. REFER TO SUPPORTING DOCUMENTATION AND BICE DRAWING BGL-SM-ZZ-DR-C-1220 & 1222. ALL MANHOLES TO BE WATER TIGHT STRUCTURES.
 - ALL FOUL DRAINAGE & WATERMANS OUTSIDE THE BUILDING FOOTPRINT TO BE CONSTRUCTED IN ACCORDANCE WITH IRISH WATER DETAILS & CODES OF PRACTICE
 - INSPECTION CHAMBERS (IC / AJ) TO BE POLYPROPYLENE 0.5M INTERNAL DIAMETER. MAXIMUM OF 1.0M DEEP. 150MM THICK C16 / 20 CONCRETE BED AND SURROUND.
 - SILT TRAP MANHOLES (ST MH) TO BE CAST IN SITU CONCRETE. CL. 30M / 200M IN LINE WITH THE GREATER DUBLIN REGION (GDR) CODE OF PRACTICE FOR DRAINAGE. PIT TO BE 0.5M DEEP (BELOW OUTLET INVERT LEVEL)
 - TREE PITS (TP) TO BE PROPRIETARY UNITS. REFER TO BICE DRAWING BGL-SM-ZZ-DR-C-1221. INSPECTION OPENINGS (IO) ADJACENT TO TREE PITS TO BE BRITTLE IRON COVERFRAMES, MIN CLASS D400 TO IS EN 1242 2015.
 - MANHOLE COVERS IN TRAFFICKED AREAS TO BE MIN CLASS D400 TO IS EN 1242 2015 DUCTILE IRON COVERS FRAMES. ALL OTHER AREAS TO BE MIN CLASS C500 MANHOLE COVERS IN CARPAGESWAYS TO HAVE POLYESTER RESIN BEDDING MATERIAL FOR FIXING MANHOLE FRAMES AS PER BICE CIVIL SPECIFICATION.
 - ROAD GULLIES TO BE CONSTRUCTED OF 215MM ENGINEERING BLOCKS OR 225MM MASS CONCRETE TO GDR CODE OF PRACTICE FOR DRAINAGE. COVERFRAMES TO BE DUCTILE IRON WITH MIN CLASS D400 TO IS EN 1242 2015. REFER TO SUPPORTING DOCUMENTATION AND BICE DRAWING BGL-SM-ZZ-DR-C-1210.
 - DRAINS FROM AJ / ICs TO MAIN LINES TO BE 100mm DIAMETER UPVC UNLESS OTHERWISE SHOWN ON LAYOUT. BED AND SURROUNDED IN 150mm CONCRETE.
 - LAND DRAIN TO BE 100 DIA. UPVC PERFORATED PIPES, BED & SURROUNDED IN 150mm THICK PE4 GRAVEL & WRAPPED IN TERRAM 1000 OR SIMILAR APPROVED GUTTEXULE.
 - INFILTRATION TRENCH TO BE GRANULAR FILL MATERIAL TO T1 SPECIFICATION TO CLAUSE 505 TYPE B. TRENCH TO BE 400MM DEEP BY 100MM WIDE, UNLESS OTHERWISE SHOWN ON DRAWING.
 - ALL TRENCHES IN ROADS TO BE BACKFILLED TO FORMATION LEVEL WITH CLAUSE 800 MATERIAL TO T1 SPECIFICATION.
 - DIMENSIONS POSITION OF BUILDERS LIPSTAND (PU / SVP / RWP) & STACKS TO BE PROVIDED BY THE ARCHITECT
 - CONNECTIONS FROM PU / RWPs TO BE 100 DIA. UPVC PIPES UNLESS OTHERWISE SHOWN. FOUL CONNECTIONS FROM PVS (WASTE AND / OR SOU) TO EXTERNAL MANHOLES OR INSPECTION CHAMBERS TO BE LAID TO A MINIMUM FALL OF 1 IN 40. RAIN CONNECTIONS TO EXTERNAL SYSTEM TO BE LAID TO A MINIMUM FALL OF 1 IN 100.
 - MANHOLE COVERS / INSPECTION CHAMBERS TO MATCH FINISHED LEVELS OF EXTERNAL PAVING, ROADS, HARDSTANDING OR LANDSCAPED AREAS. COVER LEVELS ARE INDICATIVE ONLY.
 - PRIOR TO COMPLETION OF DRAINAGE CONSTRUCTION ON SITE THE CONTRACTOR SHALL COMPLETE THE NEXT LIST OF WORKS IN ACCORDANCE WITH THE SPECIFICATION
 - CLEANSE THE SYSTEM
 - TEST ALL PIPE WORK
 - CARRY OUT CCTV INSPECTION
 - COMPLETE A SET OF AS CONSTRUCTED DRAWINGS
 - THE CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR LOCATING THE POSITIONS OF ALL EXISTING SERVICES AND SHALL, IF REQUIRED, BY THE ENGINEER/CLIENT, REPRESENTATIVE CARRY OUT A SURVEY OF THE SITE TO LOCATE THESE SERVICES INCLUDING WHERE REQUIRED RATES FOR CARRYING OUT EXCAVATION IN PLACE, AND ELSEWHERE WHERE SERVICES ARE ENCOUNTERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIVERSION OF EXISTING SERVICES ENCOUNTERED DURING THE COURSE OF THE WORK.
 - ALL EXISTING SERVICES SHOWN ON THE GPS SURVEY PROVIDED IN THE SUPPORTING DOCUMENTATION AND NOT SHOWN ON THIS DRAWING TO BE BROKEN AND REMOVED.
 - ALL EXISTING DCS AND IRISH WATER SEWERS TO BE MAINTAINED AND KEPT ALIVE DURING WORKS.
 - ALL STACKS TO BE RODDABLE ABOVE SLAB LEVEL.
 - MINIMUM DISTANCE BETWEEN BRANCH CONNECTIONS TO THE MAIN LINES TO BE 300mm.
 - ALL BRANCH CONNECTIONS TO MAIN LINE FOUL SEWER TO BE BY MEANS OF 45 DEGREE 'Y' BRANCH CONNECTIONS ONLY.
 - ALL FINAL FOUL INSPECTION CHAMBERS WITHIN THE CURTLEGE OF EACH PROPERTY TO BE IN ACCORDANCE WITH IRISH WATER'S STANDARD DETAILS FOR INSPECTION CHAMBERS.
 - THE CONTRACTOR SHALL NOTE THE TESTING REQUIREMENTS, WHICH SHALL APPLY TO BOTH FOUL AND SURFACE WATER NETWORKS, AS OUTLINED IN THE IRISH WATER QUALITY ASSURANCE FLD INSPECTION REQUIREMENTS MANUAL, AND ALLOW FOR ALL COSTS ASSOCIATED WITH TESTING AND COMMISSIONING. THE CONTRACTOR SHALL NOTE THAT IRISH WATER NOW REQUIRE A CHARTERED ENGINEER TO CERTIFY INSTALLATION TESTING, MATERIALS COMPLIANCE AND WORKMANSHIP.
 - THE CONTRACTOR SHALL PREPARE ALL FINAL DOCUMENTS PRIOR TO HANDOVER FOR SUBMISSION TO IRISH WATER AS OUTLINED IN APPENDIX 4 OF THE IRISH WATER QUALITY ASSURANCE FIELD INSPECTION REQUIREMENTS MANUAL. IN PARTICULAR, THE CONTRACTOR SHALL NOTE THE REQUIREMENTS FOR MANHOLE INTEGRITY TESTS, PIPELINE AIR TESTS, MANHOLE INSPECTION CARDS, CCTV SURVEYS OF COMPLETED PIPE WORK, AND AS CONSTRUCTED DRAWINGS.



PLANNING

Client: CWTC MULTI FAMILY ICAV ACTING SOLELY IN RESPECT OF ITS SUB FUND DBTR SCR1 FUND

Project Title: BAILEY GIBSON DR-C

Project No: 19117

Reference: BGL-BMD-ZZ-DR-C-1020-1022 & 1120-1122

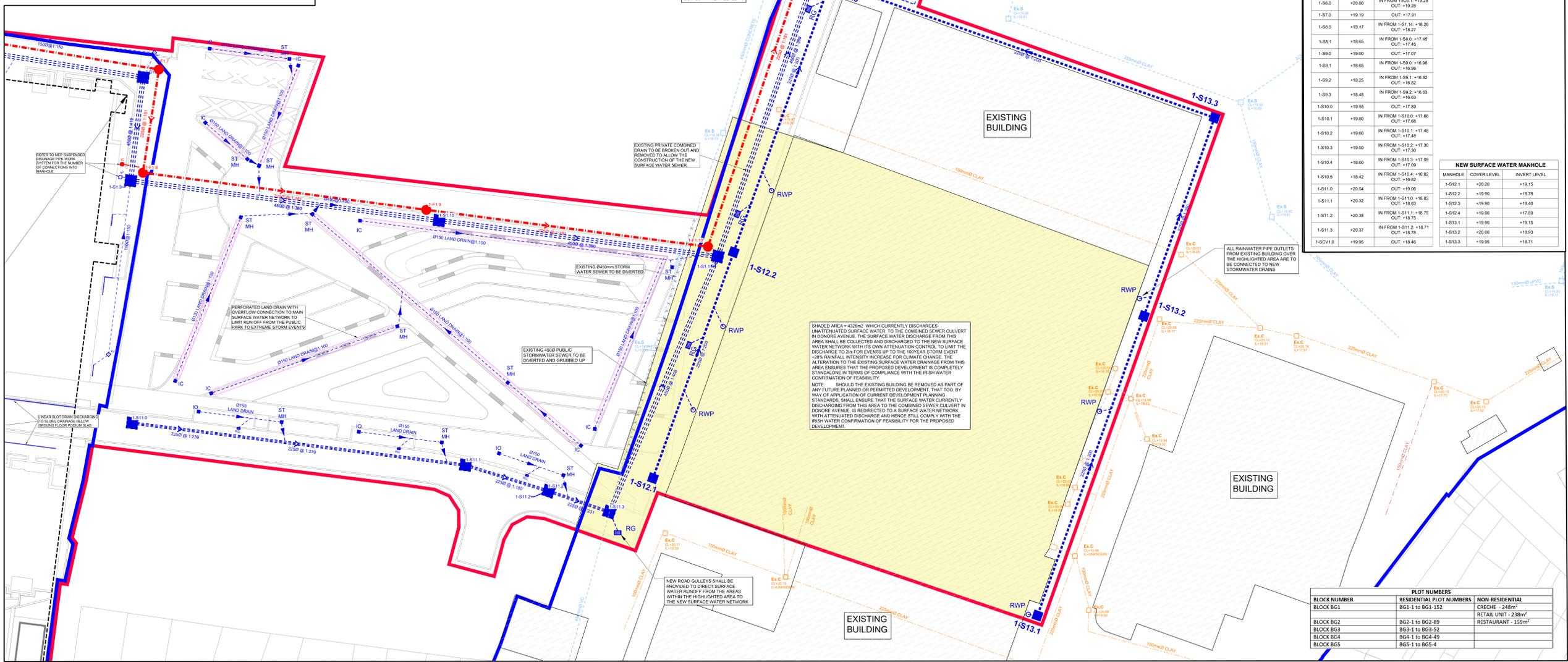
Sheet: 51 of 901

Author: PL6

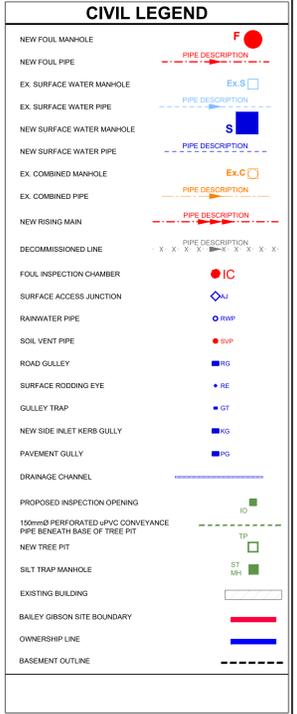
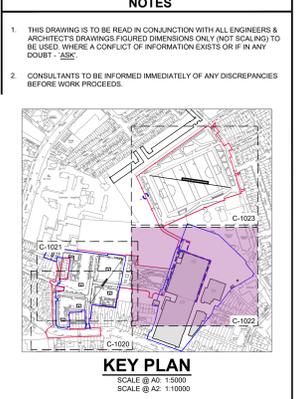
Check: D2

Revision: PL6

- ### 1. DRAINAGE NOTES
- SURFACE WATER DRAINS TO BE AS SPECIFIED ON DRAWING BGL-BMD-ZZ-DR-C-1220 & 1222.
 - FOUL DRAINS TO BE UNPLASTICISED PVC PIPES TO IS EN 1401 2009/2011 CLASS S8E IN LINE WITH THE REQUIREMENTS OF IRISH WATER CODE OF PRACTICE FOR WASTEWATER.
 - PIPE DIAMETERS SHOWN ON DRAINAGE LAYOUTS ARE REQUIRED MINIMUM INTERNAL DIAMETERS (MM).
 - ALL DRAINS WITH COVER LESS THAN 0.5M IN GARDENS/PATHWAYS AND 1.2M UNDER ROADS TO BE REDDED & SURROUNDED IN C16/20 CONCRETE AS PER BMCE DRAWING BGL-BMD-ZZ-DR-C-1220 & 1222 AND SPECIFICATIONS.
 - DUBLIN CITY COUNCIL SURFACE WATER MANHOLES (LOCATED UNDER ALL ROADS) TO BE HIGH DENSITY BLOCKWORK TO IS 20 PART 1/197 OR CAST IN SITU CLASS 30N/200M IN LINE WITH THE GREATER DUBLIN REGION (GDR) CODE OF PRACTICE FOR DRAINAGE. REFER TO SUPPORTING DOCUMENTATION AND BMCE DRAWING BGL-BMD-ZZ-DR-C-1220 & 1222. ALL MANHOLES TO BE WATERTIGHT STRUCTURES.
 - ALL FOUL DRAINAGE & WATERMANS OUTSIDE THE BUILDING FOOTPRINT TO BE CONSTRUCTED IN ACCORDANCE WITH IRISH WATER DETAILS & CODES OF PRACTICE.
 - INSPECTION CHAMBERS (IC / AJ) TO BE POLYPROPYLENE 0.5M INTERNAL DIAMETER, MAXIMUM OF 1.0M DEEP. 150MM THICK C16 / 20 CONCRETE BED AND SURROUND.
 - SILT TRAP MANHOLES (ST MH) TO BE CAST IN SITU CONCRETE CL 30N/200M IN LINE WITH THE GREATER DUBLIN REGION (GDR) CODE OF PRACTICE FOR DRAINAGE. PIT TO BE 0.5M DEEP (BELOW OUTLET INVERT LEVEL).
 - TREE PITS (TP) TO BE PROPRIETARY UNITS. REFER TO BMCE DRAWING BGL-BMD-ZZ-DR-C-1221. INSPECTION OPENINGS (IO) ADJACENT TO TREE PITS TO BE DUCTILE IRON COVERS/FRAMES. MIN CLASS D400 TO IS EN 1242 2015.
 - MANHOLE COVERS IN TRAFFICKED AREAS TO BE MIN CLASS D400 TO IS EN 1242 2015 DUCTILE IRON COVERS/FRAMES. ALL OTHER AREAS TO BE MIN CLASS 2500 MANHOLE COVERS IN CARRIAGEWAYS TO HAVE POLYESTER RESIN BEDDING MATERIAL FOR FLOORING MANHOLE FRAMES AS PER BMCE CIVIL SPECIFICATION.
 - ROAD GULLIES TO BE CONSTRUCTED OF 150MM ENGINEERING BLOCKS OR 225MM MASS CONCRETE TO GDR CODE OF PRACTICE FOR DRAINAGE. COVER FRAME TO BE DUCTILE IRON WITH MIN CLASS D400 TO IS EN 1242 2015. REFER TO SUPPORTING DOCUMENTATION AND BMCE DRAWING BGL-BMD-ZZ-DR-C-1210.
 - DRAINS FROM A/J TO MAIN LINES TO BE 100mm DIAMETER UPVC UNLESS OTHERWISE SHOWN ON LAYOUT, BED AND SURROUNDED IN 150mm CONCRETE.
 - LAND DRAIN TO BE 100 DIA. UPVC PERFORATED PIPES, BED & SURROUND IN 150MM THICK PEA GRAVEL & WRAPPED IN TERRAM 1000 OR SIMILAR APPROVED GEOTEXTILE.
 - INFILTRATION TRENCH TO BE GRANULAR FILL MATERIAL, TO TB SPECIFICATION TO CLAUSE 505 TYPE B. TRENCH TO BE 400MM DEEP BY 700MM WIDE, UNLESS OTHERWISE SHOWN ON THIS DRAWING.
 - ALL TRENCHES IN ROADS TO BE BACKFILLED TO FORMATION LEVEL WITH CLAUSE 808 MATERIAL TO TB SPECIFICATION.
 - DIMENSIONED POSITIONS OF BUILDERS UPSTAND (PU / SVP/ RWP) STACKS TO BE PROVIDED BY THE ARCHITECT.
 - CONNECTIONS FROM PUS / RWPS TO BE 100 DIA. UPVC PIPES UNLESS OTHERWISE SHOWN. FOUL DRAIN CONNECTIONS FROM PUS (WASTE AND OR SOL) TO EXTERNAL MANHOLES OR INSPECTION CHAMBERS TO BE LAID TO A MINIMUM FALL OF 1 IN 40. RWP CONNECTIONS TO EXTERNAL SYSTEMS TO BE LAID TO A MINIMUM FALL OF 1 IN 100.
 - MANHOLE COVERS / INSPECTION CHAMBERS TO MATCH FINISHED LEVELS OF EXTERNAL PAVING, ROAD, HARDSTANDING OR LANDSCAPED AREAS COVER LEVELS ARE INDICATIVE ONLY.
 - PRIOR TO COMPLETION OF DRAINAGE CONSTRUCTION ON SITE THE CONTRACTOR SHALL COMPLETE THE NEXT LIST OF WORKS IN ACCORDANCE WITH THE SPECIFICATION.
 - RELEASE THE SYSTEM.
 - TEST ALL PIPE WORK.
 - CARRY OUT A CCTV INSPECTION.
 - COMPLETE A SET OF AS CONSTRUCTED DRAWINGS.
 - THE CONTRACTOR SHALL BE ENTIRELY RESPONSIBLE FOR LOCATING THE POSITIONS OF ALL EXISTING SERVICES AND SHALL IF REQUIRED BY THE ENGINEER/CLIENT, REPRESENTATIVE CARRY OUT A SURVEY OF THE SITE TO LOCATE THESE SERVICES INCLUDING WHERE REQUIRED RATES FOR CARRYING OUT EXCAVATION IN ROADS, AND ELSEWHERE WHERE SERVICES ARE ENCOUNTERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIVERSION OF EXISTING SERVICES ENCOUNTERED DURING THE COURSE OF THE WORK.
 - ALL EXISTING SERVICES SHOWN ON THE GPR SURVEY PROVIDED IN THE SUPPORTING DOCUMENTATION AND NOT SHOWN ON THIS DRAWING, TO BE BROKEN AND REMOVED.
 - ALL EXISTING OCC AND IRISH WATER SEWERS TO BE MAINTAINED AND KEPT ALIVE DURING WORKS.
 - ALL STACKS TO BE REDDED ABOVE SLAB LEVEL.
 - MINIMUM DISTANCE BETWEEN BRANCH CONNECTIONS TO THE MAIN LINES TO BE 300mm.
 - ALL BRANCH CONNECTIONS TO MAIN LINE FOUL SEWER TO BE BY MEANS OF 45 DEGREE 'Y' BRANCH CONNECTIONS ONLY.
 - ALL ANNUAL FOUL INSPECTION CHAMBERS WITHIN THE CURTAGE OF EACH PROPERTY TO BE IN ACCORDANCE WITH IRISH WATER'S STANDARD DETAILS FOR INSPECTION CHAMBERS.
 - THE CONTRACTOR SHALL NOTE THE TESTING REQUIREMENTS, WHICH SHALL APPLY TO BOTH FOUL AND SURFACE WATER NETWORKS, AS OUTLINED IN THE IRISH WATER QUALITY ASSURANCE FIELD INSPECTION REQUIREMENTS MANUAL, AND ALLOW FOR ALL COSTS ASSOCIATED WITH TESTING AND COMMISSIONING. THE CONTRACTOR SHALL NOTE THAT IRISH WATER NOW REQUIRE A CHARTERED ENGINEER TO CERTIFY INSTALLATION / TESTING, MATERIALS COMPLIANCE AND WORKMANSHIP.
 - THE CONTRACTOR SHALL PREPARE ALL FINAL DOCUMENTS PRIOR TO HANDOVER FOR SUBMISSION TO IRISH WATER AS OUTLINED IN APPENDIX 4 OF THE IRISH WATER QUALITY ASSURANCE FIELD INSPECTION REQUIREMENTS MANUAL. IN PARTICULAR, THE CONTRACTOR SHALL NOTE THE REQUIREMENTS FOR MANHOLE INTEGRITY TESTS, PIPELINE AIR TESTS, MANHOLE INSPECTION CARDS, CCTV SURVEYS OF COMPLETED PIPE WORK, AND AS CONSTRUCTED DRAWINGS.

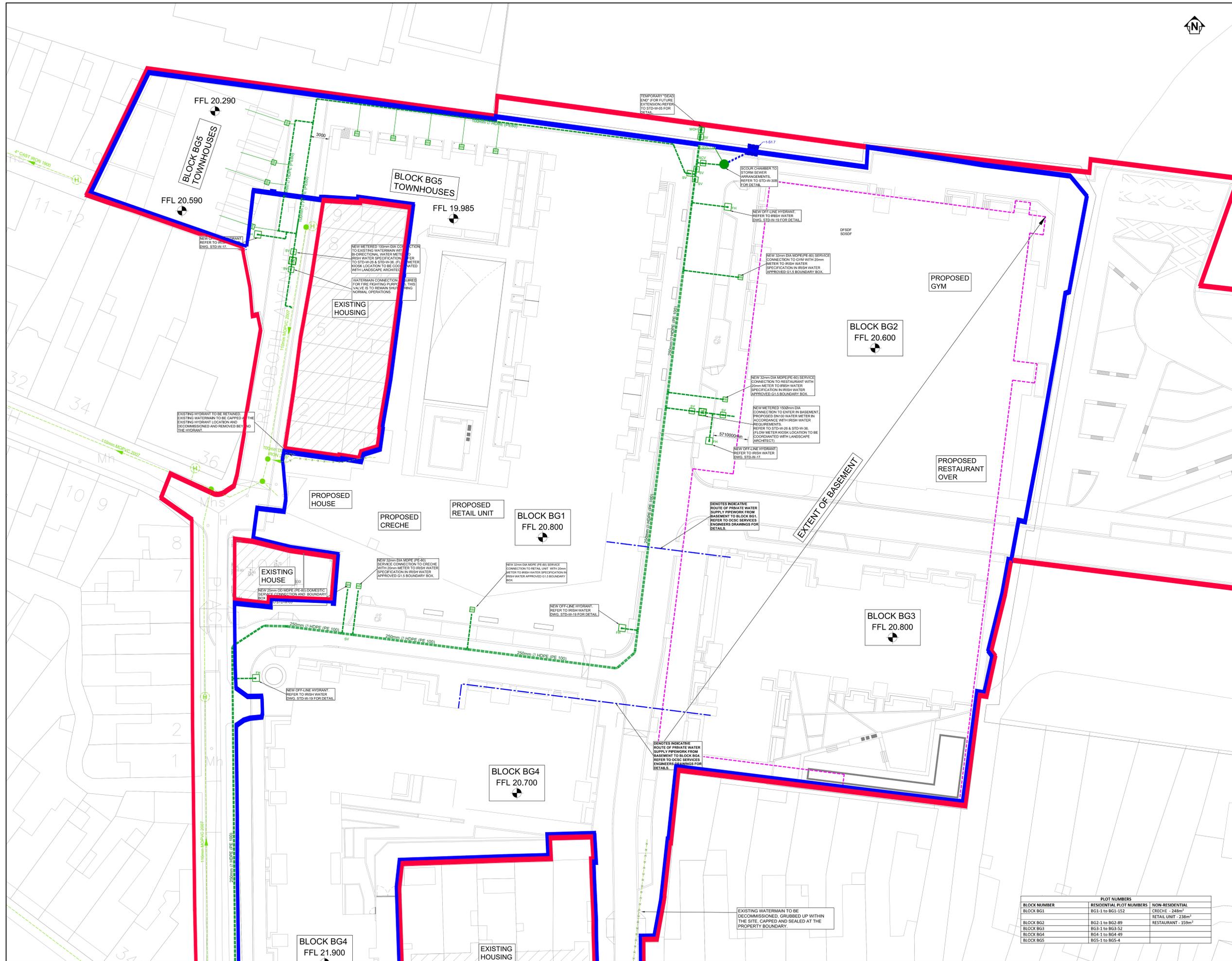


NEW SURFACE WATER MANHOLE			NEW FOUL DRAINAGE MANHOLE		
MANHOLE	COVER LEVEL	INVERT LEVEL	MANHOLE	COVER LEVEL	INVERT LEVEL
1-I-C3.0	+21.82	OUT: +20.66	1-F1.0	+20.66	OUT: +19.31
1-I-C6.0	+20.80	OUT: +19.79	1-F1.1	+20.79	IN FROM 1-F2.2 +18.16 OUT: +18.99
1-I-C6.1	+20.80	IN FROM 1-I-C6.0 +19.64 OUT: +20.32	1-F1.2	+20.66	IN FROM 1-F1.1 +18.84 OUT: +18.84
1-S1.0	+21.70	IN FROM 1-S1.0 +19.14 OUT: +18.14	1-F1.3	+20.62	IN FROM 1-F1.2 +18.88 OUT: +18.83
1-S1.1	+20.93	IN FROM 1-S1.1 +18.02 OUT: +18.84	1-F1.4	+20.08	IN FROM 1-F1.3 +18.63 OUT: +18.63
1-S1.2	+20.77	IN FROM 1-S1.2 +18.70 OUT: +18.71	1-F1.5	+19.97	IN FROM 1-F1.4 +18.55 OUT: +18.55
1-S1.3	+20.80	IN FROM 1-S1.3 +18.56 OUT: +18.51	1-F1.6	+19.90	IN FROM 1-F1.5 +18.53 OUT: +18.53
1-S1.4	+20.64	IN FROM 1-S1.4 +18.51 OUT: +18.52	1-F1.7	+19.97	IN FROM 1-F1.6 +18.50 OUT: +18.50
1-S1.5	+20.60	IN FROM 1-S1.5 +18.32 OUT: +18.32	1-F1.8	+20.41	IN FROM 1-F1.7 +18.10 OUT: +18.10
1-S1.6	+20.02	IN FROM 1-S1.6 +18.28 OUT: +18.28	1-F1.9	+20.30	IN FROM 1-F1.8 +17.85 OUT: +17.85
1-S1.7	+19.92	IN FROM 1-S1.7 +18.13 OUT: +18.13	1-F1.10	+20.10	IN FROM 1-F1.9 +17.60 OUT: +17.60
1-S1.8	+19.99	IN FROM 1-S1.8 +18.09 OUT: +18.09	1-F1.11	+19.85	IN FROM 1-F1.10 +17.22 OUT: +17.22
1-S1.9	+20.47	IN FROM 1-S1.9 +17.96 OUT: +17.96	1-F1.12	+19.43	IN FROM 1-F1.11 +17.00 OUT: +17.00
1-S1.10	+19.91	IN FROM 1-S1.10 +17.84 OUT: +17.84	1-F1.13	+17.76	IN FROM 1-F1.12 +16.93 OUT: +16.93
1-S1.11	+19.91	IN FROM 1-S1.11 +17.84 OUT: +17.84	1-F1.14	+17.68	IN FROM 1-F1.13 +16.85 OUT: +16.85
1-S1.12	+20.05	IN FROM 1-S1.12 +17.66 OUT: +17.66	1-F1.15	+17.43	IN FROM 1-F1.14 +16.52 OUT: +16.52
1-S1.13	+19.42	IN FROM 1-S1.13 +17.55 OUT: +17.55	1-F1.16	+17.32	IN FROM 1-F1.15 +16.41 OUT: +16.41
1-S1.14	+19.30	IN FROM 1-S1.14 +17.43 OUT: +17.43	1-F1.17	+18.24	IN FROM 1-F1.16 +16.10 OUT: +16.10
1-S1.15	+19.20	IN FROM 1-S1.15 +17.37 OUT: +17.37	1-F1.18	+18.34	IN FROM 1-F1.17 +15.79 OUT: +15.79
1-S1.16	+19.13	IN FROM 1-S1.16 +17.18 OUT: +17.18	1-F2.0	+21.66	IN FROM 1-I-C2.0 +20.89 OUT: +19.82
1-S1.17	+18.65	IN FROM 1-S1.17 +17.02 OUT: +17.02	1-F2.1	+20.91	IN FROM 1-F2.0 +19.56 OUT: +19.56
1-S1.18	+18.59	IN FROM 1-S1.18 +16.82 OUT: +16.82	1-F2.2	+20.78	IN FROM 1-F2.1 +19.43 OUT: +19.43
1-S1.19	+18.23	IN FROM 1-S1.19 +16.57 OUT: +16.57	1-F3.0	+20.80	IN FROM 1-I-C3.0 +18.99 OUT: +18.99
1-S1.20	+18.23	IN FROM 1-S1.20 +16.56 OUT: +16.56	1-F4.0	+20.59	OUT: +19.16
1-S1.21	+17.85	IN FROM 1-S1.21 +16.48 OUT: +16.48	1-F5.0	+20.17	OUT: +19.19
1-S1.22	+17.93	IN FROM 1-S1.22 +16.46 OUT: +16.46	1-F6.0	+20.45	OUT: +19.02
1-S2.0	+21.34	OUT: +19.56	1-F6.1	+20.08	IN FROM 1-F6.0 +18.92 OUT: +18.92
1-S2.1	+20.82	IN FROM 1-S2.0 +19.29 OUT: +19.29	1-F6.2	+19.98	IN FROM 1-F6.1 +18.73 OUT: +18.73
1-S2.2	+20.82	IN FROM 1-S2.1 +19.45 OUT: +19.45	1-F6.3	+19.93	IN FROM 1-F6.2 +18.70 OUT: +18.70
1-S3.0	+21.71	IN FROM 1-I-C3.0 +20.43 OUT: +20.43	1-I-C2.0	+22.06	OUT: +21.18
1-S3.1	+20.94	IN FROM 1-S3.0 +20.04 OUT: +19.57	1-I-C3.0	+20.80	OUT: +20.11
1-S4.0	+20.60	OUT: +18.63	1-I-C3.1	+20.80	IN FROM 1-I-C3.0 +19.89 OUT: +19.89
1-S5.0	+20.51	OUT: +19.54	EX F5	+18.03	IN FROM 1-F1.18 +15.68 OUT: +15.68
1-S5.1	+20.09	IN FROM 1-S5.0 +19.28 OUT: +19.28			
1-S5.2	+19.94	IN FROM 1-S5.1 +19.08 OUT: +19.08			
1-S5.3	+19.96	IN FROM 1-S5.2 +19.05 OUT: +19.05			
1-S6.0	+20.80	IN FROM 1-S5.1 +19.28 OUT: +19.28			
1-S7.0	+19.19	IN FROM 1-S1.14 +18.28 OUT: +18.27			
1-S8.0	+19.17	IN FROM 1-S8.0 +17.45 OUT: +17.45			
1-S8.1	+18.65	IN FROM 1-S8.0 +17.45 OUT: +17.45			
1-S9.0	+19.00	OUT: +17.07			
1-S9.1	+18.65	IN FROM 1-S9.0 +16.98 OUT: +16.98			
1-S9.2	+18.25	IN FROM 1-S9.1 +16.82 OUT: +16.82			
1-S9.3	+18.48	IN FROM 1-S9.2 +16.63 OUT: +16.63			
1-S10.0	+19.55	OUT: +17.89			
1-S10.1	+19.80	IN FROM 1-S10.0 +17.68 OUT: +17.68			
1-S10.2	+19.60	IN FROM 1-S10.1 +17.48 OUT: +17.48			
1-S10.3	+19.50	IN FROM 1-S10.2 +17.30 OUT: +17.30			
1-S10.4	+18.60	IN FROM 1-S10.3 +17.09 OUT: +17.09			
1-S10.5	+18.42	IN FROM 1-S10.4 +16.82 OUT: +16.82			
1-S11.0	+20.54	OUT: +19.06			
1-S11.1	+20.32	IN FROM 1-S11.0 +18.83 OUT: +18.83			
1-S11.2	+20.38	IN FROM 1-S11.1 +18.75 OUT: +18.75			
1-S11.3	+20.37	IN FROM 1-S11.2 +18.71 OUT: +18.71			
1-S10V.0	+19.95	OUT: +18.46			



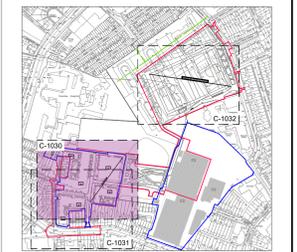
PL6	31.05.22	PLANNING ISSUE	KS
PL5	16.03.22	UPDATED AS PER IW COMMENTS	TN
PL4	24.02.22	IW DIVERSIONS TEAM COMMENTS	TN
PL3	20.01.22	ISSUED FOR IW DESIGN VETTING	TN
PL2	10.12.21	ISSUED FOR IW DESIGN VETTING	TN
PL1	09.11.21	ISSUED FOR PRE-APPLICATION SUBMISSION	TN
ISSUE	DATE	DESCRIPTION	BY
Project Engineer: CIARAN O'RAFFERTY Project Director: CIARAN KENNEDY			
BM STAGE			
PLANNING			
Dublin Office: 30 South Street, S5-6 Lower South Street, Dublin 2, Ireland. Tel: (01) 877 3500 Fax: (01) 877 3164 London Office: 17 Mill Street, London SE11 2AY, United Kingdom. Tel: (02044) 084 5413 2722 Consulting Engineers, Civil, Structural, Project Management E-mail: info@bm.ie Web: www.bm.ie			
BM BARRETT MANDRY The Institution of Structural Engineers ACEI Chartered Engineer			
CLIENT: CWTC MULTI FAMILY ICAV ACTING SOLELY IN RESPECT OF ITS SUB FUND DBTR SCR1 FUND			
PROJECT TITLE: BAILEY GIBSON SHD 2		BM PROJECT No: 19117	
REFERENCE: BGL-BMD-ZZ-00-DR-C-1020-1022 & 1120-1122	SUBMITTAL: 81	REVISION: P01	
DRAWING TITLE: PROPOSED DRAINAGE LAYOUT (SHEET 3 OF 4)			
DRAWING REFERENCE: BGL-BMD-ZZ-00-DR-C-1022	STATUS: D2	REVISION: PL6	

PROPOSED DRAINAGE LAYOUT
SCALE @ A0: 1:200
SCALE @ A2: 1:500



NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECTS DRAWINGS FIGURED DIMENSIONS ONLY (NOT SCALING) TO BE USED, WHERE A CONFLICT OF INFORMATION EXISTS OR IN ANY DOUBT - ASK.
- CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.



CIVIL LEGEND

NEW WATERMAIN	---
EXISTING WATERMAIN	---
DECOMMISSIONED LINE	xxxxxx
SLUICE VALVE	SV
AIR VALVE	AV
HYDRANT	H
I/W APPROVED BOUNDARY BOX	---
SCOUR VALVE CHAMBER	SCV
WASHOUT HYDRANT	WH
FIRE HYDRANT	FH
ELECTROMAGNETIC METER CHAMBER	M
EXISTING BUILDING	---
BAILEY GIBSON SITE BOUNDARY	---
OWNERSHIP LINE	---
BASEMENT OUTLINE	---
PRIVATE WATER SUPPLY	---

WATERMAIN NOTES

- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS & MANUFACTURERS DRAWINGS & SPECIFICATIONS.
- ALL PIPE DIAMETERS ARE NOMINAL.
- WHERE CONNECTION IS REQUIRED TO AN EXISTING PUBLIC WATERMAIN, THE CONTRACTOR MUST ISSUE DETAILED DOCUMENTATION FOR APPROVAL TO THE RELEVANT LOCAL AUTHORITY AND IRISH WATER. THIS DOCUMENTATION MUST BE ISSUED AT LEAST 40 WORKING DAYS IN ADVANCE OF THE PLANNED WORKS OR AS AGREED WITH THE LOCAL AUTHORITY AND IRISH WATER.
- ALL THRUST BLOCKS MUST BE CAST AGAINST UNDISTURBED GROUND. FLEXIBLE PIPES SHOULD BE WRAPPED IN ONE LAYER OF 1000 GAUGE POLYETHYLENE TO AVOID DIRECT CONTACT WITH THE CONCRETE. MARKER POSTS AND PLATES TO BE PROVIDED FOR ALL VALVES, METERS AND HYDRANTS.
- CALCINATION AND BACTERIOLOGICAL TESTS TO BE UNDERTAKEN BY EXTERNAL TESTER AND TEST CERTIFICATION TO BE SUBMITTED TO ENGINEER.
- MARKER POSTS AND PLATES TO BE PROVIDED FOR ALL VALVES.
- IN ADVANCE OF TESTING OF THE WATERMANS, THE CONTRACTOR MUST PRESENT TO THE ENGINEER A CALIBRATION CERTIFICATE FOR THE APPARATUS TO BE USED IN THE TEST.
- ALL DETAILS TO BE AGREED WITH LOCAL AUTHORITY.
- ALL EXISTING WATERMANS TO BE ADEQUATELY PROTECTED. ANY WATERMANS DAMAGED DURING THE COURSE OF CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT THEIR COST.
- COVERS OF ALL HYDRANT CHAMBERS TO BE PAINTED YELLOW WITH THE EXCEPTION OF HYDRANT THAT ARE NOT FOR FIRE SERVICES PURPOSES.
- ALL RECOVER PIPES SHALL BE NO MORE THAN 150mm FROM THEIR ASSOCIATED CHAMBER.
- WHERE PIPE RUN IS LOCATED ADJACENT TO FOUNDATION AND IS AT A LEVEL BELOW UNDERSEAL OF THE FOUNDATION, PIPE TRENCH TO BE BACKFILLED TO FORMATION LEVEL WITH CLASS 1/20 CONCRETE.
- PROVIDE ANCHORING BLOCKS ON ALL BENCHES EQUAL TO OR IN EXCESS OF 22.5° DEAD ENDS AND TEES ON ALL PIPES.
- TRENCHES IN EXISTING SURFACES TO BE SAW CUT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING OUT WATERMANS & SLUICE VALVES TO ENSURE NO CLASHES WITH SERVICE DUCTS OR PIPES.

NOTES FOR CONNECTION TO IRISH WATER SERVICES

- CONTRACTOR TO USE WITH IRISH WATER PRIOR TO MOBILISATION ON SITE TO DETERMINE THE DURATION OF THE APPROVAL PROCESS AND WHAT DOCUMENTATION AND FEES ARE REQUIRED BY IRISH WATER AND THE LOCAL AUTHORITY AND PROGRAM THIS INTO THE CONSTRUCTION PROGRAM. CONTRACTOR TO CONFIRM EXTENT OF NOTICE REQUIRED BY IRISH WATER TO INSPECT WORKS AND ALSO PROGRAM INTO THE CONSTRUCTION PROGRAM.
- IRISH WATER TO BE CONTACTED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY FOUL SEWER AND WATERMAIN WORKS. ALL DETAILS TO BE AGREED WITH IRISH WATER. IRISH WATER TO BE GIVEN 40 WORKING DAYS NOTICE FOR ALL FOUL SEWER AND WATERMAIN CONNECTION WORKS.
- EXACT LOCATION AND DEPTH OF THE EXISTING FOUL SEWERS, RISING MAINS AND WATERMANS SHOULD BE ESTABLISHED BY THE CONTRACTOR IN ADVANCE OF THE MAIN EXCAVATION FOR THE NEW FOUL SEWER AND WATERMAIN SO AS TO AVOID THE POSSIBILITY OF DAMAGE TO THE EXISTING FOUL SEWER, RISING MAINS AND WATERMAIN DURING CONSTRUCTION WORKS. ALL TRENCHES TO BE UNDERSEAL.
- ALL EXISTING FOUL SEWERS, RISING MAINS AND WATERMANS TO BE ADEQUATELY PROTECTED. ANY FOUL SEWERS, RISING MAINS OR WATERMANS DAMAGED DURING THE COURSE OF CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT THEIR OWN COST.
- THE CONTRACTOR SHALL APPLY FOR A ROAD OPENING LICENSE AND PAY THE REQUIRED ROAD OPENING LICENSE FEE. THIS FEE IS A NON-NEGOTIABLE AND NON-REFUNDABLE FEE. THE CONTRACTOR SHALL BE DEEMED TO HAVE INCLUDED IN HIS TENDER PRICE FOR ALL REQUIREMENTS SUCH AS CONTRIBUTION FOR CONNECTIONS TO PUBLIC INFRASTRUCTURE, LICENSE APPLICATION, PAYMENT OF FEES, STATUTORY TIME PERIODS, TRAFFIC MANAGEMENT PLANS AND APPLICATION, REINSTATEMENT, ETC.
- ALL WATERMAIN EXTENSIONS CONSTRUCTED TO ALLOW FOR FUTURE CONNECTION TO FUTURE PHASES ARE TO BE TERMINATED IN BLANK ENDS WITH A SUITABLE THRUST BLOCK INSTALLED.

PL#	DATE	DESCRIPTION	BY
PL6	31.05.22	PLANNING ISSUE	KS
PL5	16.03.22	UPDATED AS PER IW COMMENTS	TN
PL4	24.02.22	IW DIVERSIONS TEAM COMMENTS	TN
PL3	20.01.22	ISSUED FOR IW DESIGN VETTING	TN
PL2	10.12.21	ISSUED FOR IW DESIGN VETTING	TN
PL1	09.11.21	ISSUED FOR PRE-APPLICATION SUBMISSION	TN

Project Engineer: CIARAN O'RAFFERTY Project Director: CIARAN KENNEDY

PLANNING

BM
 BARRITT MANNING
 Dublin Office: 20th Floor, 100 Lower Sackville Street, Dublin 2, Ireland. Tel: (01) 673 3200 Fax: (01) 673 3164
 London Office: 17 Mark Lane, London EC3N 1AY, United Kingdom. Tel: (0204) 084 5413 2722
 Consulting Engineers, Civil, Structural, Project Management E-mail: bm@bm.co.uk Web: www.bm.co.uk

The Institution of Structural Engineers
ACEI
 Chartered Institution of Building Services Engineers

CLIENT: CWTC MULTI FAMILY ICV ACTING SOLELY IN RESPECT OF ITS SUB FUND DBTR SCR1 FUND

PROJECT TITLE	BAILEY GIBSON SHD 2	BM PROJECT NO.	19117
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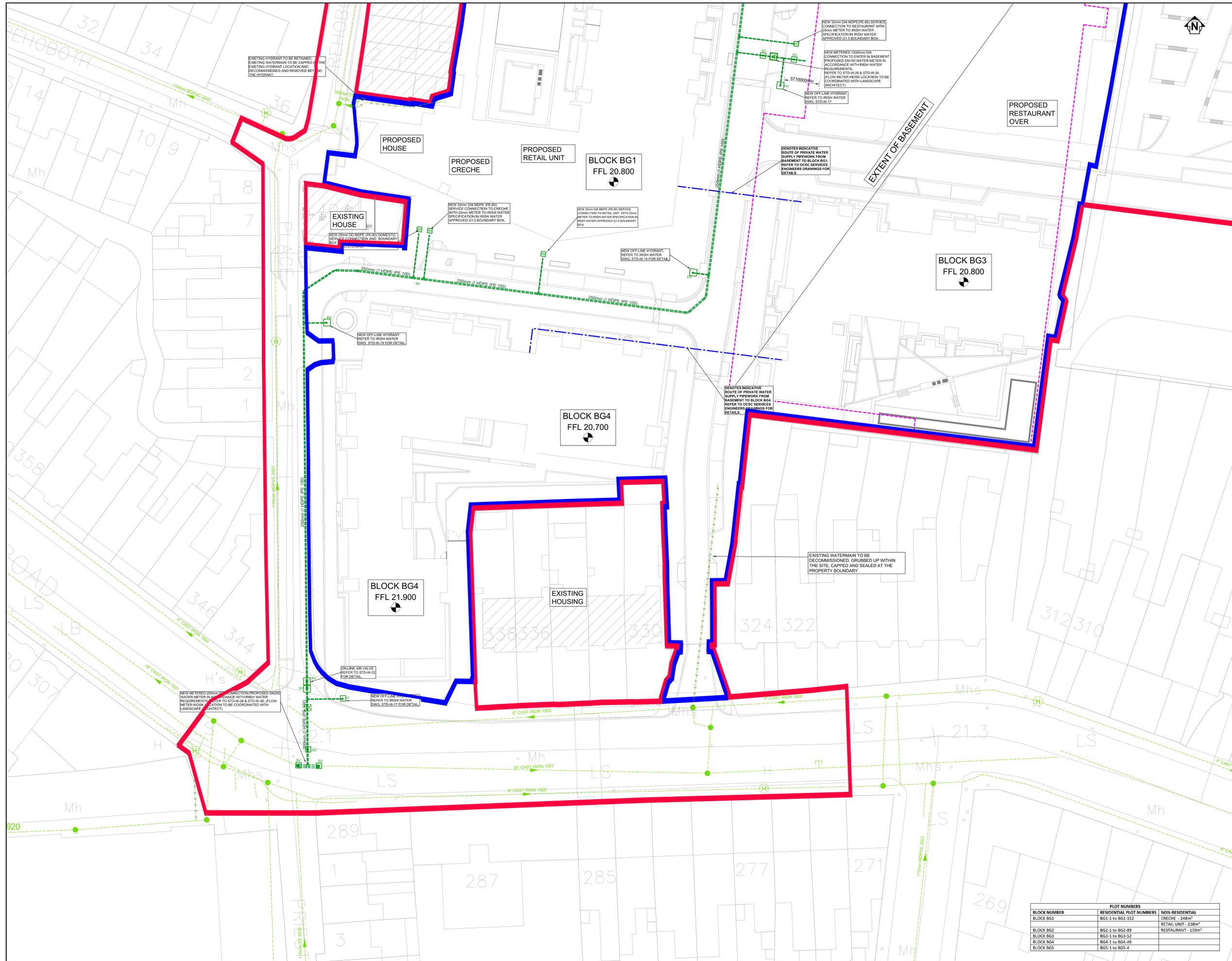
REFERENCE	BGL-BMD-ZZ-00-DR-C-1030-1031	SUBMITTAL	81	REVISION	FOUR
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DRAWING TITLE: PROPOSED WATERMAIN LAYOUT (SHEET 1 OF 3)

DRAWING REFERENCE	BGL-BMD-ZZ-00-DR-C-1030	STATUS	D2	REVISION	PL6
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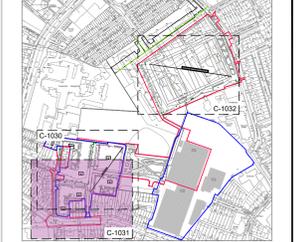
BLOCK NUMBER	RESIDENTIAL PLOT NUMBERS	NON-RESIDENTIAL
BLOCK BG1	BG1-1 to BG1-152	CRECHE - 248m ²
BLOCK BG2	BG2-1 to BG2-89	RETAIL UNIT - 238m ²
BLOCK BG3	BG3-1 to BG3-52	RESTAURANT - 159m ²
BLOCK BG4	BG4-1 to BG4-49	
BLOCK BG5	BG5-1 to BG5-4	

PROPOSED WATERMAIN LAYOUT
 SCALE @ A0: 1:200
 SCALE @ A2: 1:400



NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECTS DRAWINGS FIGURED DIMENSIONS ONLY (NOT SCALING) TO BE USED. WHERE A CONFLICT OF INFORMATION EXISTS OR IF IN ANY DOUBT - ASK.
- CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.



KEY PLAN
SCALE @ A0: 1:5000
SCALE @ A2: 1:10000

CIVIL LEGEND

- NEW WATERMAIN
- EXISTING WATERMAIN
- DECOMMISSIONED LINE
- SLUDGE VALVE
- AIR VALVE
- HYDRANT
- I/W APPROVED BOUNDARY BOX
- SCOUR VALVE CHAMBER
- WASHOUT HYDRANT
- FIRE HYDRANT
- ELECTROMAGNETIC METER CHAMBER
- EXISTING BUILDING
- BAILEY GIBSON SITE BOUNDARY
- OWNERSHIP LINE
- BASEMENT OUTLINE
- PRIVATE WATER SUPPLY

WATERMAIN NOTES

- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS & MANUFACTURERS DRAWINGS & SPECIFICATIONS.
- ALL PIPE DIAMETERS ARE NOMINAL.
- WHERE CONNECTION IS REQUIRED TO AN EXISTING PUBLIC WATERMAIN, THE CONTRACTOR MUST ISSUE DETAILED DOCUMENTATION FOR APPROVAL TO THE RELEVANT LOCAL AUTHORITY AND IRISH WATER. THIS DOCUMENTATION MUST BE ISSUED AT LEAST 42 WORKING DAYS IN ADVANCE OF THE PLANNED WORKS OR AS AGREED WITH THE LOCAL AUTHORITY AND IRISH WATER.
- ALL THRUST BLOCKS MUST BE CAST AGAINST UNDISTURBED GROUND. FLEXIBLE PIPES SHOULD BE WRAPPED IN ONE LAYER OF 1000 GAUGE POLYTHENE TO AVOID DIRECT CONTACT WITH THE CONCRETE. MARKER POSTS AND PLATES TO BE PROVIDED FOR ALL VALVES, METERS AND HYDRANTS.
- CHLORINATION AND BACTERIOLOGICAL TESTS TO BE UNDERTAKEN BY EXTERNAL TESTER AND TEST CERTIFICATION TO BE SUBMITTED TO ENGINEER.
- MARKER POSTS AND PLATES TO BE PROVIDED FOR ALL VALVES.
- IN ADVANCE OF TESTING OF THE WATERMANS, THE CONTRACTOR MUST PRESENT TO THE ENGINEER A CALIBRATION CERTIFICATE FOR THE APPARATUS TO BE USED IN THE TEST.
- ALL DETAILS TO BE AGREED WITH LOCAL AUTHORITY.
- ALL EXISTING WATERMANS TO BE ADEQUATELY PROTECTED. ANY WATERMANS DAMAGED DURING THE COURSE OF CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT THEIR COST.
- COVERS OF ALL HYDRANT CHAMBERS TO BE PAINTED YELLOW WITH THE EXCEPTION OF HYDRANT THAT ARE NOT FOR FIRE SERVICES PURPOSES.
- ALL ROCKER PIPES SHALL BE NO MORE THAN 150mm FROM THEIR ASSOCIATED CHAMBER.
- WHERE PIPE RUN IS LOCATED ADJACENT TO FOUNDATION AND IS AT A LEVEL BELOW UNDERBASE OF THE FOUNDATION, PIPE TRENCH TO BE BACKFILLED TO FORMATION LEVEL WITH CLASS 15/20 CONCRETE.
- PROVIDE ANCHORING BLOCKS ON ALL BENDS EQUAL TO OR IN EXCESS OF 22.5° DEAD ENDS AND TEES ON ALL PIPES.
- TRENCHES IN EXISTING SURFACES TO BE SAW CUT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING OUT WATERMANS & SLUDGE VALVES TO ENSURE NO CLASHES WITH SERVICE DUCTS OR PIPES.

NOTES FOR CONNECTION TO IRISH WATER SERVICES

- CONTRACTOR TO USE WITH IRISH WATER PRIOR TO MOBILISATION ON SITE TO DETERMINE THE DURATION OF THE APPROVAL PROCESS AND WHAT DOCUMENTATION AND FEES ARE REQUIRED BY IRISH WATER AND THE LOCAL AUTHORITY AND PROGRAM THIS INTO THE CONSTRUCTION PROGRAM. CONTRACTOR TO CONFIRM EXTENT OF NOTICE REQUIRED BY IRISH WATER TO INSPECT WORKS AND ALSO PROGRAM INTO THE CONSTRUCTION PROGRAM.
- IRISH WATER TO BE CONTACTED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY FOUL SEWER AND WATERMAIN WORKS. ALL DETAILS TO BE AGREED WITH IRISH WATER. IRISH WATER TO BE GIVEN 40 WORKING DAYS NOTICE FOR ALL FOUL SEWER AND WATERMAIN CONNECTION WORKS.
- EXACT LOCATION AND DEPTH OF THE EXISTING FOUL SEWERS, RISING MAINS AND WATERMANS SHOULD BE ESTABLISHED BY THE CONTRACTOR IN ADVANCE OF THE MAIN EXCAVATION FOR THE NEW FOUL SEWER AND WATERMAIN SO AS TO AVOID THE POSSIBILITY OF DAMAGE TO THE EXISTING FOUL SEWER, RISING MAINS AND WATERMANS DURING CONSTRUCTION WORKS. SILT TRENCHES TO BE UNDERTAKEN.
- ALL EXISTING FOUL SEWERS, RISING MAINS AND WATERMANS TO BE ADEQUATELY PROTECTED. ANY FOUL SEWERS, RISING MAINS OR WATERMANS DAMAGED DURING THE COURSE OF CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT THEIR OWN COST.
- THE CONTRACTOR SHALL APPLY FOR A ROAD OPENING LICENSE AND PAY THE REQUIRED ROAD OPENING LICENSE FEE. THIS FEE IS A NON-NEGOTIABLE AND NON-REFUNDABLE FEE. THE CONTRACTOR SHALL BE DEEMED TO HAVE INCLUDED IN HIS TENDER PRICE FOR ALL REQUIREMENTS SUCH AS CONTRIBUTION FOR CONNECTIONS TO PUBLIC INFRASTRUCTURE, LICENSE APPLICATION, PAYMENT OF FEES, STATUTORY TIME PERIODS, TRAFFIC MANAGEMENT PLANS AND APPLICATION, REINSTATEMENT ETC.
- ALL WATERMAIN EXTENSIONS CONSTRUCTED TO ALLOW FOR FUTURE CONNECTION TO FUTURE PHASES ARE TO BE TERMINATED IN BLANK END WITH A SUITABLE THRUST BLOCK INSTALLED.

PL6	31.05.22	PLANNING ISSUE	KS
PL5	16.03.22	UPDATED AS PER IW COMMENTS	TN
PL4	24.02.22	IW DIVERSIONS TEAM COMMENTS	TN
PL3	20.01.22	ISSUED FOR IW DESIGN VETTING	TN
PL2	10.12.21	ISSUED FOR IW DESIGN VETTING	TN
PL1	09.11.21	ISSUED FOR PRE-APPLICATION SUBMISSION	TN

Project Engineer: CIARAN O'RAFFERTY Project Director: CIARAN KENNEDY

PLANNING

BM BARKETT MANDRY
 Dublin Office: 30 North Wall, S5-56 Lower Saddleth Street, Dublin 2, Ireland. Tel: (01) 873 3500 Fax: (01) 873 3164
 London Office: 12 Mill Street, London SE11 2AY, United Kingdom. Tel: (0204) 084 5413 2722
 Consulting Engineers, Civil, Structural, Project Management E-mail: info@bm.co.uk Web: www.bm.co.uk

ACEI The Institution of Structural Engineers
 Chartered Institution of Structural Engineers

CLIENT: CWTC MULTI FAMILY ICAY ACTING SOLELY IN RESPECT OF ITS SUB FUND DBTR SCR1 FUND

PROJECT TITLE	BM PROJECT NO.
BAILEY GIBSON SHD 2	19117

REFERENCE	SUBMITALTY	REVISION
BGL-BMD-ZZ-00-DR-C-1031-1031	81	P01

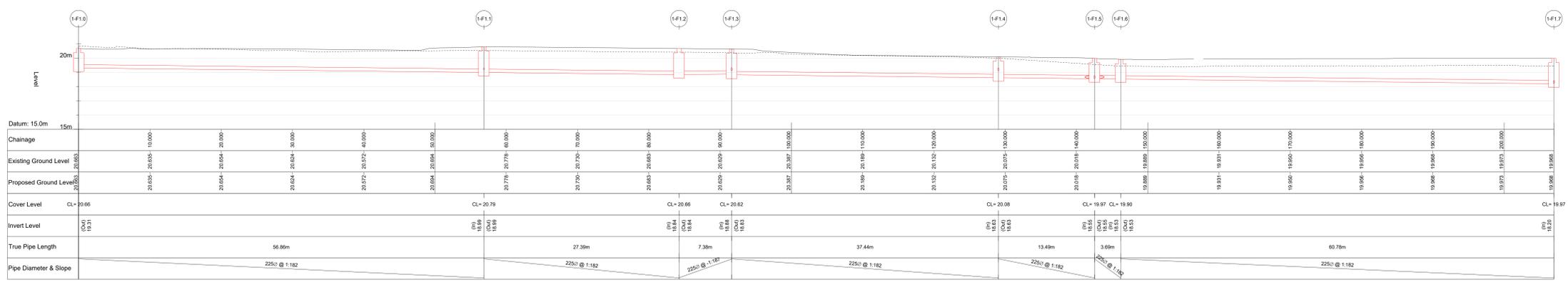
DRAWING TITLE: PROPOSED WATERMAIN LAYOUT (SHEET 2 OF 3)

DRAWING REFERENCE	STATUS	REVISION
BGL-BMD-ZZ-00-DR-C-1031	D2	PL6

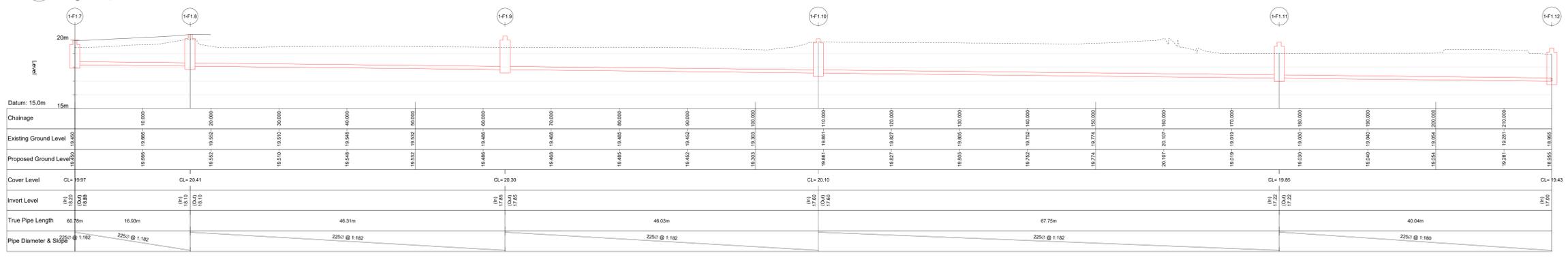
BLOCK NUMBER	PLOT NUMBERS	RESIDENTIAL PLOT NUMBERS	NON-RESIDENTIAL
BLOCK BG1	BG1-1 to BG1-152		CRECHE - 248m ²
BLOCK BG2	BG2-1 to BG2-89		RETAIL UNIT - 238m ²
BLOCK BG3	BG3-1 to BG3-52		RESTAURANT - 159m ²
BLOCK BG4	BG4-1 to BG4-49		
BLOCK BG5	BG5-1 to BG5-4		

PROPOSED WATERMAIN LAYOUT
SCALE @ A0: 1:200
SCALE @ A2: 1:400

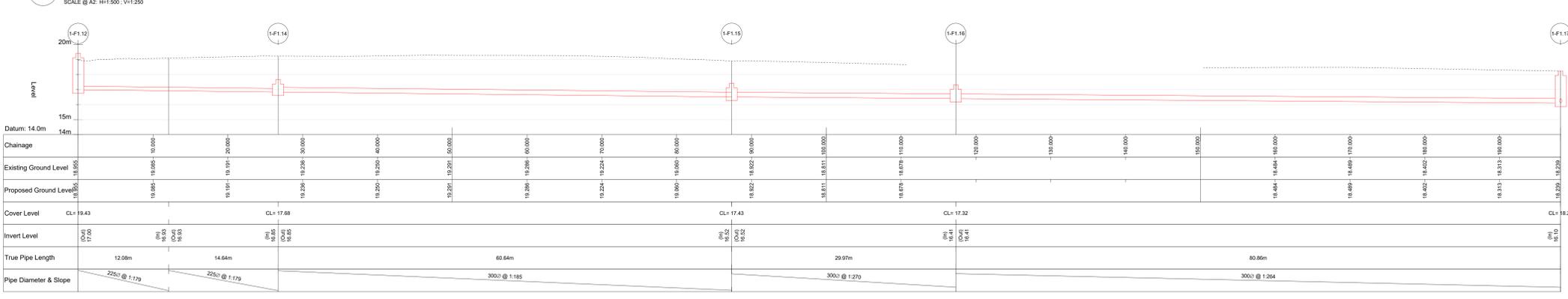
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECTS DRAWINGS FIGURED DIMENSIONS ONLY (NOT SCALING) TO BE USED. WHERE A CONFLICT OF INFORMATION EXISTS OR IF IN ANY DOUBT - ASK.
- CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.



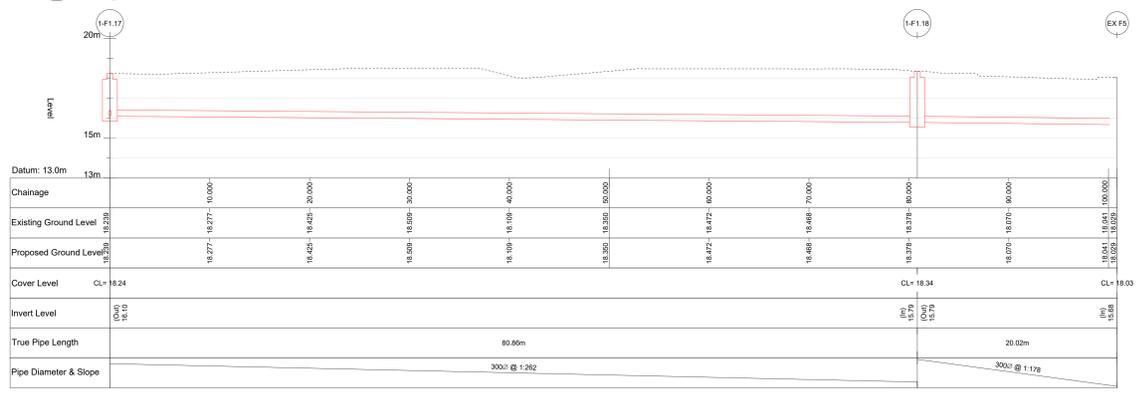
F1 SECTION
SCALE @ A0: H:1:250; V:1:125
SCALE @ A2: H:1:500; V:1:250



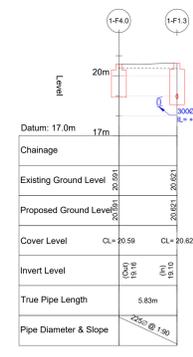
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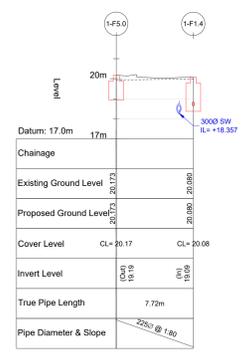
F1 SECTION
SCALE @ A0: H:1:250; V:1:125
SCALE @ A2: H:1:500; V:1:250



F1 SECTION
SCALE @ A0: H:1:250; V:1:125
SCALE @ A2: H:1:500; V:1:250



F4 SECTION
SCALE @ A0: H:1:250; V:1:125
SCALE @ A2: H:1:500; V:1:250



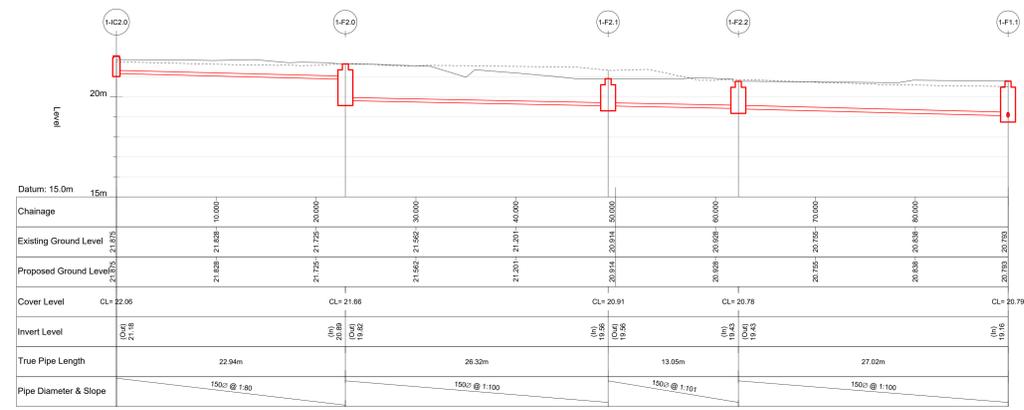
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SCALE @ A2: H:1:500; V:1:250

ISSUE	DATE	DESCRIPTION	BY
PL4	31.05.22	PLANNING ISSUE	KS
PL3	24.02.22	W DIVERSIONS TEAM COMMENTS	TN
PL2	20.01.22	ISSUED FOR W DESIGN VETTING	TN
PL1	10.12.21	ISSUED FOR W DESIGN VETTING	TN

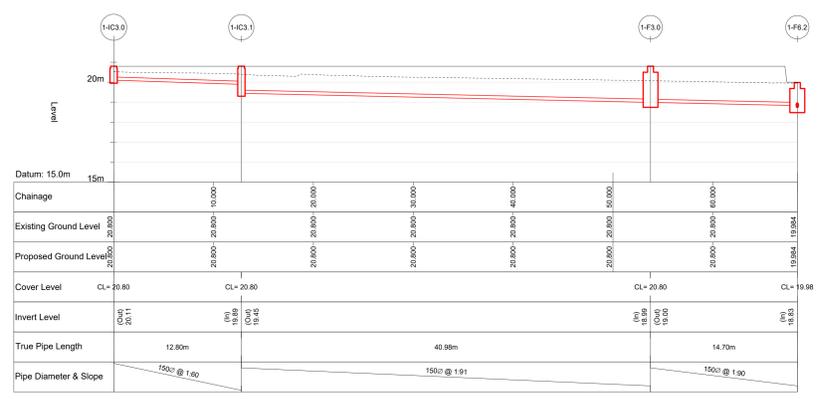
PROJECT ENGINEER	DIARAN O'RAFFERTY	PROJECT DIRECTOR	DIARAN KENNEDY
PLANNING			
BM <small>Barrett Mawhood</small> Dublin Office: 55-56 Lower Saddlewell Street, Dublin 2, Ireland. Tel: (01) 677 3300 Fax: (01) 677 3164 London Office: 12 Mill Street, London SE1 2AY, United Kingdom. Tel: (0204) 084 5413 2722 Consulting Engineers, Civil, Structural, Project Management E-mail: info@bm.co.uk Web: www.bm.co.uk			
CLIENT: CWTC MULTI FAMILY ICVA ACTING SOLELY IN RESPECT OF ITS SUB FUND DBTR SCR1 FUND PROJECT TITLE: BAILEY GIBSON SHD 2 BM PROJECT No: 19117 REFERENCE: BGL-BMD-ZZ-00-DR-C-1020-1022 & 1120-1122 SUITABILITY: S1 REVISION: P01 DRAWING TITLE: FOUL DRAINAGE LONG SECTIONS (SHEET 1 OF 2) DRAWING REFERENCE: BGL-BMD-ZZ-DR-C-1120 STATUS: D2 REVISION: PL4			

NOTES

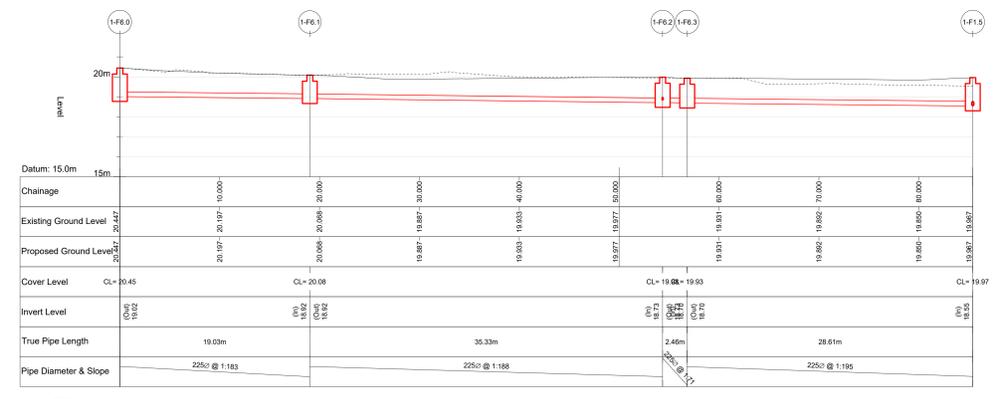
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECTS DRAWINGS & DIMENSIONS ONLY (NOT SCALING) TO BE USED. WHERE A CONFLICT OF INFORMATION EXISTS OR IF IN ANY DOUBT - ASK.
2. CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.



F2 SECTION
SCALE @ A0: H=1:250, V=1:125
SCALE @ A2: H=1:500, V=1:250



F3 SECTION
SCALE @ A0: H=1:250, V=1:125
SCALE @ A2: H=1:500, V=1:250



F6 SECTION
SCALE @ A0: H=1:250, V=1:125
SCALE @ A2: H=1:500, V=1:250

PL4	31.05.22	PLANNING ISSUE	KS
PL3	24.02.22	W DIVERSIONS TEAM COMMENTS	TN
PL2	20.01.22	ISSUED FOR W DESIGN VETTING	TN
PL1	10.12.21	ISSUED FOR W DESIGN VETTING	TN

Project Engineer: CIARAN O'RAFFERTY | Project Director: CIARAN KENNEDY

BM STAGE

PLANNING

BM Dublin Office: Sandwell House, 55-56 Lower Sandwell Street, Dublin 2, Ireland. Tel: (01) 877 3200 Fax: (01) 877 3164
London Office: 12 Mill Street, London SE1 2AY, United Kingdom. Tel: (0044) (0)4 5413 2722
Consulting Engineers, Civil, Structural, Project Management & more@bm.co.uk Web: www.bm.co.uk



CLIENT: CWTC MULTI FAMILY ICVA ACTING SOLELY IN RESPECT OF ITS SUB FUND DBTR SCR1 FUND

PROJECT TITLE: BAILEY GIBSON SHD 2 | BM PROJECT No: 19117

REFERENCE	SUITABILITY	REVISION
BGL-BMD-ZZ-00-DR-C-1020-1022 & 1120-1122	S1	P01

DRAWING TITLE: FOUL DRAINAGE LONG SECTIONS (SHEET 2 OF 2)

DRAWING REFERENCE	STATUS	REVISION
BGL-BMD-ZZ-DR-C-1121	D2	PL4