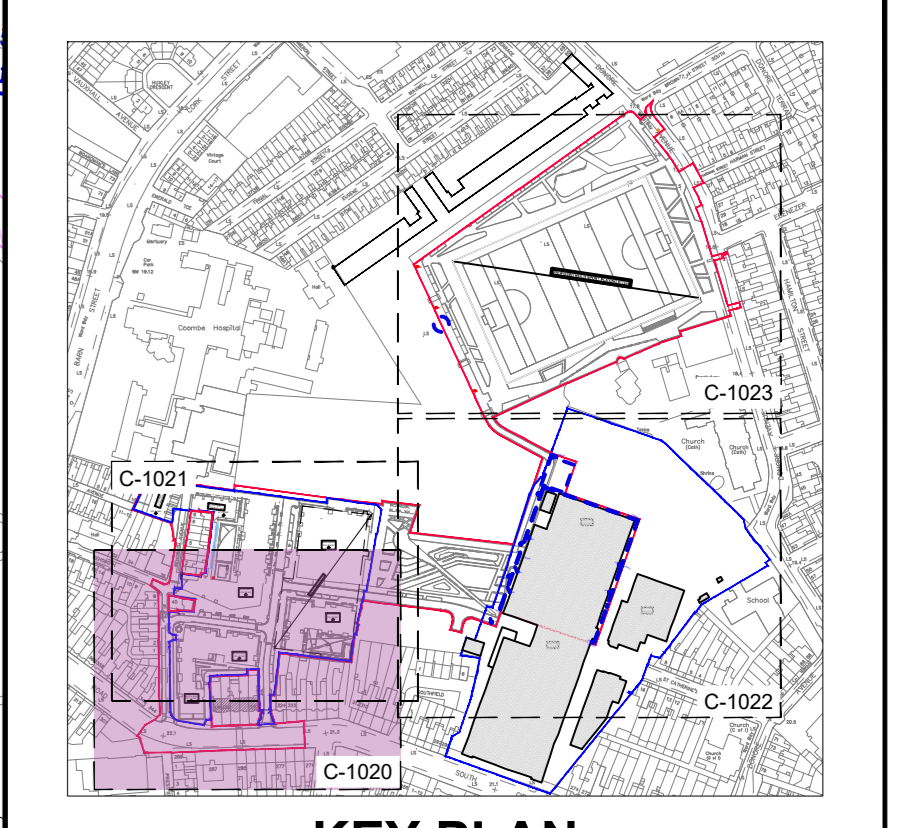


DRAINAGE NOTES

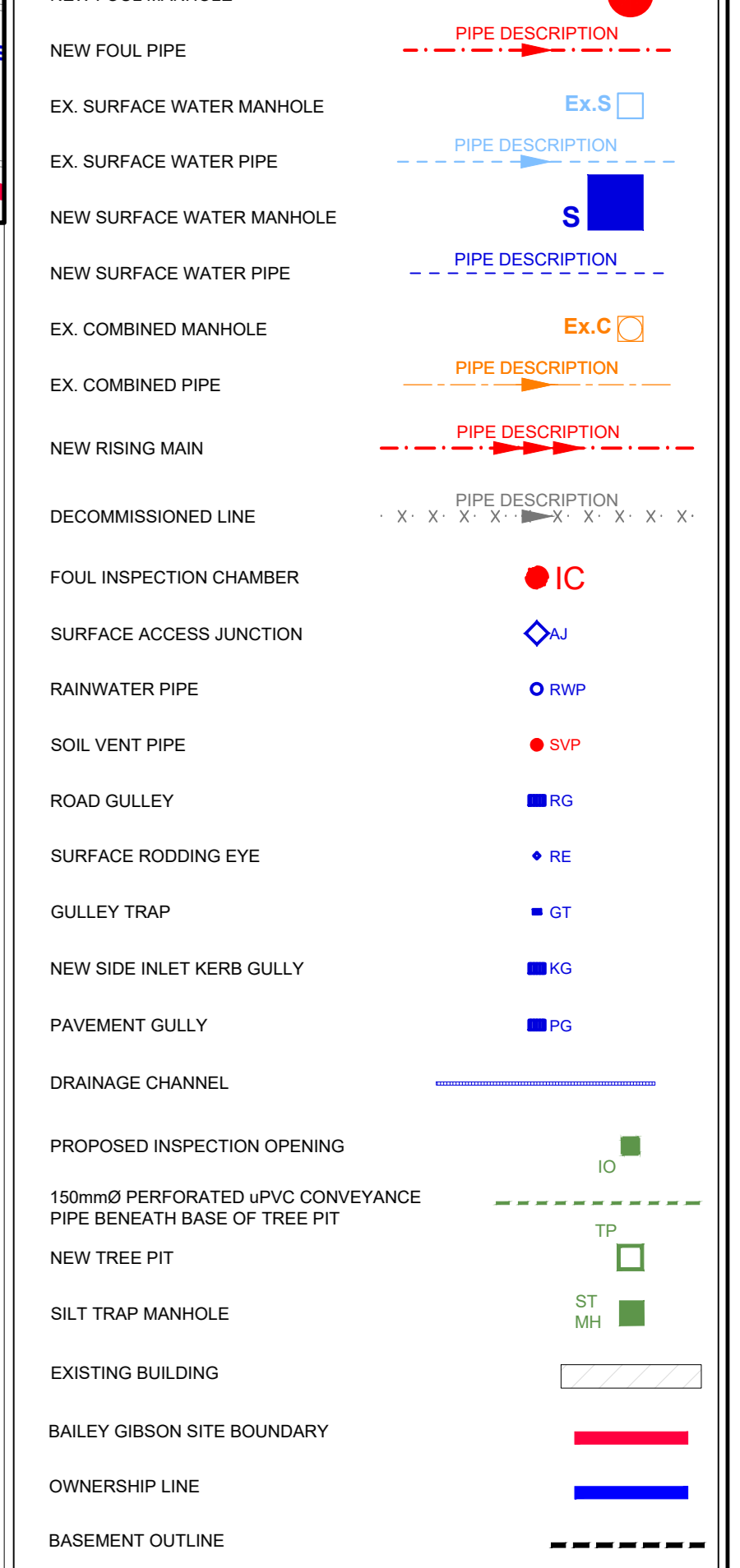
- SURFACE WATER DRAINS TO BE AS SPECIFIED ON DRAWING BGL-BMD-ZZ-0R-C-1020-1022
- FOUL DRAINS TO BE UNPLASTICISED PVC PIPES TO BS EN 1401 2006/012 CLASS SBN IN LINE WITH THE REQUIREMENTS OF IRISH WATER CODE OF PRACTICE FOR WASTEWATER
- PIPE DIAMETERS SHOWN ON DRAINAGE LAYOUTS ARE REQUIRED MINIMUM INTERNAL DIAMETERS (ID)
- ALL DRAINS WITH COVER LESS THAN 0.9M IN GARDENS, PATHWAYS AND 1.2M UNDER ROADS TO BE REDDED & 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 BS PART 1187 OR CAST IN SITU CLASS 30N / 20MM IN LINE WITH THE GREATER DUBLIN REGION 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
- 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 BS EN 124 2 2015
- MANHOLE COVERS IN TRAFFICKED AREAS TO BE MIN CLASS D400 TO BS EN 124 2 2015 DUCTILE IRON COVERS FRAMES. ALL OTHER AREAS TO BE MIN CLASS C250 MANHOLE COVERS IN CARPAGESWAYS 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 BS EN 124 2 2015. REFER TO SUPPORTING DOCUMENTATION AND BMD DRAWING BGL-BMD-ZZ-0R-C-1210
- DRAINS FROM AJN / ICN 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 PUTS / RWPS TO BE 100 DIA. UPVC PIPES UNLESS OTHERWISE SHOWN. FOUL DRAIN CONNECTIONS FROM PUTS (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 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 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 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 FLD 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

NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECTS DRAWINGS OF 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



CIVIL LEGEND



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: +18.99
1-HC1	+20.80	IN FROM 1-HC.0 +19.64 OUT: +19.64	1-F12	+20.66	IN FROM 1-F1.1 +18.94 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: +18.14	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: +18.70	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: +18.71	1-F16	+19.90	IN FROM 1-F1.5 +18.53 OUT: +18.53
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 IN FROM 1-S1.5 +18.51 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 +18.26 IN FROM 1-S1.7 +18.41 OUT: +18.28	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-F30	+20.80	IN FROM 1-HC3.1 +19.90 OUT: +19.00
1-S110	+19.91	IN FROM 1-S1.9 +17.96 OUT: +17.96	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-F62	+19.98	IN FROM 1-F6.1 +18.73 OUT: +18.73
1-S114	+19.30	IN FROM 1-S1.13 +17.43 OUT: +17.43	1-F63	+19.93	IN FROM 1-F6.2 +18.70 OUT: +18.70
1-S115	+19.20	IN FROM 1-S1.14 +17.37 OUT: +17.37	1-HC20	+20.80	OUT: +19.43
1-S116	+19.13	IN FROM 1-S1.15 +17.18 OUT: +17.18	1-HC30	+20.80	OUT: +19.11
1-S117	+18.65	IN FROM 1-S1.16 +17.02 OUT: +17.02	1-HC31	+20.80	IN FROM 1-HC3.0 +19.80 OUT: +19.45
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-S2.0 +19.29 OUT: +19.29			
1-S30	+21.71	IN FROM 1-HC3.0 +20.43 OUT: +20.43			
1-S31	+20.94	IN FROM 1-S3.0 +20.04 OUT: +19.07			
1-S40	+20.60	OUT: +18.63			
1-S50	+20.51	OUT: +19.54			
1-S51	+20.09	IN FROM 1-S5.0 +19.26 OUT: +19.22			
1-S52	+19.94	IN FROM 1-S5.1 +19.08 OUT: +19.05			
1-S53	+19.96	IN FROM 1-S5.2 +19.05 OUT: +19.02			
1-S60	+20.80	IN FROM 1-HC2.1 +19.28 OUT: +19.29			
1-S70	+19.19	OUT: +17.91			
1-S80	+19.17	IN FROM 1-S7.0 +18.26 OUT: +18.27			
1-S81	+19.85	IN FROM 1-S8.0 +17.45 OUT: +17.45			
1-S90	+19.00	OUT: +17.07			
1-S91	+18.65	IN FROM 1-S9.0 +15.98 OUT: +16.98			
1-S92	+18.25	IN FROM 1-S9.1 +16.82 OUT: +16.81			
1-S93	+18.48	IN FROM 1-S9.2 +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	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 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

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CLIENT: **CWTC MULTI FAMILY ICAY 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** SUBMITTAL: **S1** REVISION: **P01**

DRAWING TITLE: **PROPOSED DRAINAGE LAYOUT**

DATE: **16.03.22** DRAWING REFERENCE: **BGL-BMD-ZZ-0R-C-1020** DRAWING NO: **D2** REVISION: **PL6**