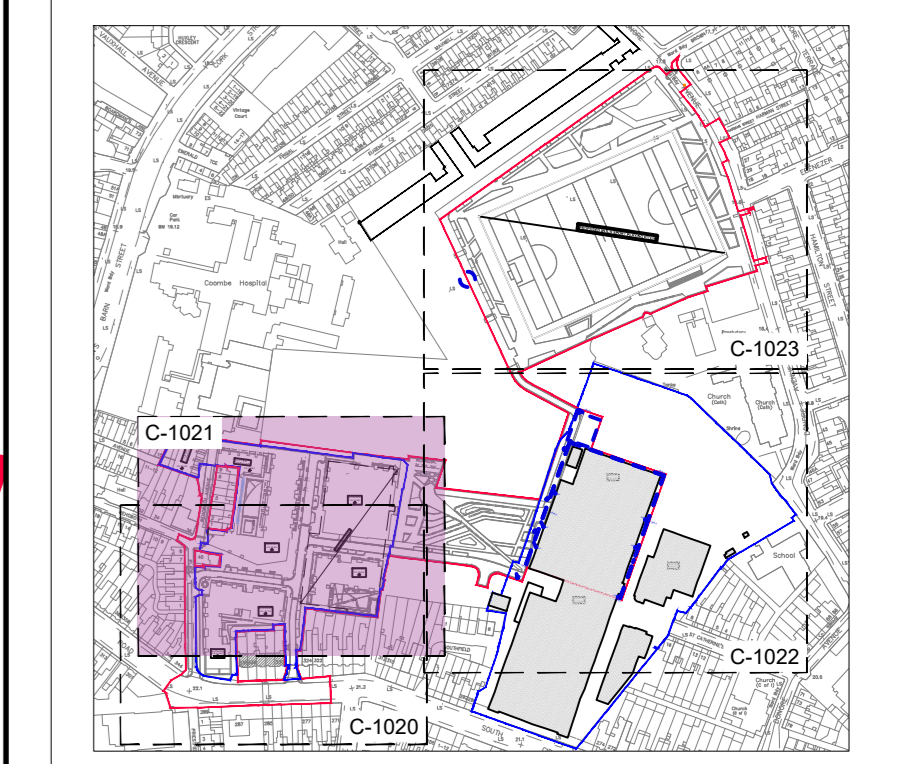


- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECTS DRAWINGS FIGURED DIMENSIONS ONLY (NOT SCALING) TO BE USED. WHERE A CONFLICT OF INFORMATION EXISTS OR IF IN ANY DOUBT - ASK.
- CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.



CIVIL LEGEND

- NEW FOUL MANHOLE: F ●
- NEW FOUL PIPE: —●—
- EX. SURFACE WATER MANHOLE: Ex.S □
- EX. SURFACE WATER PIPE: —□—
- NEW SURFACE WATER MANHOLE: S ●
- NEW SURFACE WATER PIPE: —S—
- EX. COMBINED MANHOLE: Ex.C □
- EX. COMBINED PIPE: —C—
- NEW RISING MAIN: —RM—
- DECOMMISSIONED LINE: x x x x x x x x
- FOUL INSPECTION CHAMBER: ● IC
- SURFACE ACCESS JUNCTION: ● AJ
- RAINWATER PIPE: ● RWP
- SOIL VENT PIPE: ● SVP
- ROAD GULLY: ● RG
- SURFACE RIDDING EYE: ● RE
- GULLY TRAP: ● GT
- NEW SIDE INLET KERB GULLY: ● K
- PAVEMENT THINK: ● PT
- DRAINAGE CHANNEL: —DC—
- PROPOSED INFILTRATION PIT: ● IP
- 150mm PERFORATED SPVC CONVEYANCE PIPE BENEATH BASE OF TREE PIT: ● T
- NEW TREE PIT: ● TP
- SILT TRAP MANHOLE: ● STM
- EXISTING BUILDING: [Hatched Area]
- BALILEY GIBSON SITE BOUNDARY: [Red Line]
- OWNERSHIP LINE: [Blue Line]
- BASEMENT OUTLINE: [Dashed Line]

| 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-S2.0 - +19.64 OUT: +19.94 | 1-F12 | +20.66 | IN FROM 1-F1.1 - +18.84 OUT: +18.94 |
| 1-S10 | +21.70 | IN FROM 1-S10.0 - +19.14 OUT: +19.14 | 1-F13 | +20.62 | IN FROM 1-F1.2 - +18.84 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 - +18.56 OUT: +18.56 | 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: +18.51 | 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 IN FROM 1-S1.8 - +18.26 IN FROM 1-S1.3 - +18.86 IN FROM 1-S10.1 - +18.41 OUT: +18.26 | 1-F19 | +20.30 | IN FROM 1-F1.8 - +17.85 OUT: +17.85 |
| 1-S18 | +19.99 | IN FROM 1-S1.7 - +18.13 OUT: +18.13 | 1-F20 | +20.10 | IN FROM 1-F1.9 - +17.60 OUT: +17.60 |
| 1-S19 | +20.47 | IN FROM 1-S1.8 - +18.09 OUT: +18.09 | 1-F21 | +19.85 | IN FROM 1-F1.10 - +17.22 OUT: +18.09 |
| 1-S10 | +19.91 | IN FROM 1-S1.9 - +17.96 OUT: +17.96 | 1-F22 | +19.43 | OUT: +17.00 |
| 1-S11 | +19.91 | IN FROM 1-S1.10 - +17.84 OUT: +17.84 | 1-F23 | +17.76 | IN FROM 1-F1.12 - +16.93 OUT: +16.93 |
| 1-S12 | +20.05 | IN FROM 1-S1.11 - +17.66 OUT: +17.70 | 1-F24 | +20.80 | IN FROM 1-F1.1 - +18.99 OUT: +18.99 |
| 1-S13 | +19.42 | IN FROM 1-S1.12 - +17.55 OUT: +17.55 | 1-F25 | +20.17 | OUT: +19.19 |
| 1-S14 | +19.30 | IN FROM 1-S1.13 - +17.43 OUT: +17.43 | 1-F26 | +20.45 | OUT: +19.02 |
| 1-S15 | +19.20 | IN FROM 1-S1.14 - +17.37 OUT: +17.37 | 1-F27 | +21.60 | IN FROM 1-F2.0 - +20.89 OUT: +19.82 |
| 1-S16 | +19.13 | IN FROM 1-S1.15 - +17.18 OUT: +17.18 | 1-F28 | +20.91 | IN FROM 1-F2.1 - +20.56 OUT: +19.56 |
| 1-S17 | +18.85 | IN FROM 1-S1.16 - +17.02 IN FROM 1-S1.1 - +17.37 OUT: +17.02 | 1-F29 | +20.78 | IN FROM 1-F2.1 - +19.43 OUT: +19.43 |
| 1-S18 | +18.59 | IN FROM 1-S1.17 - +16.82 OUT: +16.82 | 1-F30 | +20.80 | IN FROM 1-I-C3.1 - +18.99 OUT: +18.99 |
| 1-S19 | +18.23 | IN FROM 1-S1.18 - +16.57 OUT: +16.57 | 1-F31 | +20.17 | OUT: +19.19 |
| 1-S20 | +18.23 | IN FROM 1-S1.19 - +16.56 OUT: +16.56 | 1-F32 | +20.06 | IN FROM 1-F2.0 - +18.52 OUT: +18.52 |
| 1-S21 | +17.85 | IN FROM 1-S1.20 - +16.48 OUT: +16.48 | 1-F33 | +19.98 | IN FROM 1-F2.1 - +18.63 OUT: +18.63 |
| 1-S22 | +17.85 | IN FROM 1-S1.21 - +16.46 OUT: +16.46 | 1-F34 | +19.93 | IN FROM 1-F2.2 - +18.70 OUT: +18.70 |
| 1-S23 | +21.34 | OUT: +19.56 | 1-F35 | +19.93 | OUT: +19.15 |
| 1-S24 | +22.06 | OUT: +21.18 | 1-I-C20 | +20.80 | OUT: +20.11 |
| 1-S25 | +19.94 | IN FROM 1-S2.0 - +19.20 OUT: +19.20 | 1-I-C31 | +20.80 | IN FROM 1-I-C3.0 - +19.99 OUT: +19.45 |
| 1-S26 | +20.80 | IN FROM 1-I-C2.1 - +19.26 OUT: +19.26 | 1-I-C32 | +20.80 | IN FROM 1-I-C3.1 - +19.99 OUT: +19.57 |
| 1-S27 | +19.19 | OUT: +17.91 | 1-I-C33 | +20.80 | OUT: +18.78 |
| 1-S28 | +19.17 | IN FROM 1-S2.1 - +18.26 OUT: +18.26 | EX-F5 | +19.03 | IN FROM 1-F1.16 - +16.68 |
| 1-S29 | +18.65 | IN FROM 1-S2.2 - +17.45 OUT: +17.45 | | | |
| 1-S30 | +19.00 | OUT: +17.07 | | | |
| 1-S31 | +18.65 | IN FROM 1-S2.3 - +16.98 OUT: +16.98 | | | |
| 1-S32 | +18.25 | IN FROM 1-S2.4 - +16.82 OUT: +16.82 | | | |
| 1-S33 | +18.48 | IN FROM 1-S2.5 - +16.63 OUT: +16.63 | | | |
| 1-S34 | +19.55 | OUT: +17.89 | | | |
| 1-S35 | +19.80 | IN FROM 1-S30.0 - +17.68 OUT: +17.68 | | | |
| 1-S36 | +19.60 | IN FROM 1-S30.1 - +17.48 OUT: +17.48 | | | |
| 1-S37 | +19.80 | IN FROM 1-S30.2 - +17.30 OUT: +17.30 | | | |
| 1-S38 | +19.60 | IN FROM 1-S30.3 - +17.09 OUT: +17.09 | | | |
| 1-S39 | +18.42 | IN FROM 1-S30.4 - +16.82 OUT: +16.82 | | | |
| 1-S40 | +20.54 | OUT: +19.06 | | | |
| 1-S41 | +20.32 | IN FROM 1-S31.0 - +18.83 OUT: +18.83 | | | |
| 1-S42 | +20.30 | IN FROM 1-S31.1 - +18.75 OUT: +18.75 | | | |
| 1-S43 | +20.37 | IN FROM 1-S31.2 - +18.71 OUT: +18.71 | | | |
| 1-SCV10 | +19.95 | OUT: +18.46 | | | |

| PLG | DATE | PLANNING ISSUE | KS |
|-------|----------|---------------------------------------|----|
| 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 |

PLANNING

BM
Barrett Mannery
12 Mill Lane, London SE1 3AY, United Kingdom
Tel: 02044 084 3413 2722

ACEI
The Institution of Structural Engineers

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

PROJECT TITLE: BALILEY GIBSON SH-R-2
BM PROJECT NO: 19117

REFERENCE: BGL-BMD-ZZ-DR-C-1020-1022 & 1120-1122
SUBMITTAL: 51
REVISION: P01

DRAWING TITLE: PROPOSED DRAINAGE LAYOUT (SHEET 2 OF 4)

DRAWING REFERENCE: BGL-BMD-ZZ-DR-C-1021
STATUS: D2
REVISION: PL6

- 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 1.2M 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 CORKWORK TO IS PART 1987 OR CAST IN SITU CLASS 30N/20MM IN LINE WITH THE GREATER DUBLIN REGION CODE OF PRACTICE FOR DRAINAGE REFER TO SUPPORTING DOCUMENTATION AND BICE DRAWING BGL-BMD-ZZ-DR-C-1220 & 1222 ALL MANHOLES TO BE WATERIGHT 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 C16 / 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 BICE DRAWING BGL-SM-ZZ-DR-C-1221, INSPECTION OPENINGS (IO) ADJACENT TO TREE PITS TO BE BRITCLE 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-BMD-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 D.A. UPVC PERFORATED PIPES, BED & SURROUNDED IN 150mm THICK GRAVEL & WRAPPED IN TERRAM 1000 OR SIMILAR APPROVED GUTTEXILE
 - 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 LIST AND (PU / SVP / RWP) & STACKS TO BE PROVIDED BY THE ARCHITECT
 - CONNECTIONS FROM PU / RWPs TO BE 100 D.A. 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, RIVERS 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 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 NATES 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 DC 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 FOL 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

PROPOSED DRAINAGE LAYOUT
SCALE @ A0: 1:200
SCALE @ A1: 1:400

| 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 | |