



LEGEND:

SITE BOUNDARY

LEGEND

- EXISTING FOUL SEWER
- EXISTING SURFACE WATER SEWER
- PROPOSED STORM SEWER
- PROPOSED FOUL SEWER
- PROPOSED SURFACE WATER SEWER OVERFLOW
- UNDERCROFT PARKING LEVEL DRAINAGE
- PROPOSED FOUL INSPECTION CHAMBER
- PROPOSED SW INSPECTION CHAMBER
- PIPE DIAMETER AND GRADIENT
- PROPOSED MANHOLE NUMBER, COVER AND INVERT LEVELS
- BACKDROP INVERT LEVEL
- PROPOSED BIO RETENTION
- KERB GULLY
- ROAD GULLY
- PROPOSED PERMEABLE PAVING
- PROPOSED TREE PIT
- SITE BOUNDARY EXTENTS

NOTE: LOCATIONS AND LEVELS OF ALL EXISTING SERVICES ON SITE TO BE SURVEYED AND VERIFIED PRIOR TO COMMENCEMENT OF CONSTRUCTION WORKS.

- NOTES**
- ALL LEVELS ARE TO MAIN HEAD ORDNANCE DATUM.
 - REFER TO DRAWING BD-CSC-ZZ-G3-DR-C-0109 FOR MANHOLE DETAILS.
 - REFER TO DRAWING BD-CSC-ZZ-G3-DR-C-0110 FOR PIPE BEDDING DETAILS.
 - ALL WORKS IN CONFINED SPACES SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH THE PROVISIONS ON "SAFE WORK" IN CONFINED SPACES' CODE OF PRACTICE FOR WORKING IN CONFINED SPACES, PUBLISHED BY THE HEALTH & SAFETY AUTHORITY.
 - ALL SITE DEVELOPMENT WORKS SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH THE CONSTRUCTION DRAWINGS.
 - ALL DRAINAGE WORKS SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY, IN PARTICULARS, SPEC. 502. THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS AND THE IRISH WATER CODE OF PRACTICE AND STANDARD DETAILS.
 - THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTATION, INCLUDING DRAWINGS AND SPECIFICATIONS.
 - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR LOCATING, PROTECTING AND MAINTAINING ALL EXISTING SERVICES WITHIN THE SITE BOUNDARY AND IN THE AREAS AFFECTED BY THE WORKS. THE ENGINEER HAS PROVIDED INFORMATION ON KNOWN SERVICES BUT DOES NOT GUARANTEE THAT THIS INFORMATION PROVIDED BY THE THIRD PARTIES, IS CORRECT OR THAT THESE ARE THE ONLY SERVICES ON THE SITE.
 - SURFACE SHORT LENGTHS OF PIPE OR ROCKER PIPES SHALL BE INSTALLED TO PROVIDE A FLEXIBLE JOINT WITHIN 100MM OF THE OUTER FACE OF THE MANHOLE ON ALL SENDS AND BRANCHES.
 - WHERE ROCK IS MET IN TRENCHES IT SHALL BE EXCAVATED AND TRIMMED TO 20MM BELOW THE UNDERSIDE OF PIPELINE.
 - GRANULAR MATERIAL 5MM - 20MM NOMINAL SIZE GRADED AGGREGATE (TO COMPLY WITH TABLE 1 OF BS3) TO BE USED FOR BEDDING, HAUNCHING AND SURROUND TO PIPES WHERE SPECIFIED.
 - CONCRETE MIX (M20) TO BE USED FOR BEDDING, HAUNCHING AND SURROUND WHERE SPECIFIED.
 - WHERE RIGID PIPES WITH FLEXIBLE JOINTS ARE USED WITH CONCRETE BEDS FOR DRAIN AND WASTEWATER, VERTICAL MOVEMENT JOINTS SHALL BE PROVIDED IN THE BEDS AT MAX INTERVALS OF 5M AND ALIGNED WITH CHASE PIPE SOCKETS JOINTS TO BE MINIMUM 10M WIDE AND FILLED WITH FLEXCELL OR SIMILAR APPROVED MATERIAL.
 - SURFACE WATER AND FOUL DRAINS SHALL BE SURROUNDED BY 150 THICKNESS OF C15/20 CONCRETE. COVER TO PIPE IS LESS THAN -1.5M IN ROADS AND DRIVEWAYS -0.5M IN OPEN SPACES AND PATHS NOT NEAR CARRIAGEWAYS.
 - ALL PIPE RUNS SHALL BE LAID IN STRAIGHT LINES BOTH VERTICALLY AND HORIZONTALLY TO THE SPECIFIED GRADIENTS BETWEEN MANHOLES. NO DEVIATIONS OR BENDS SHALL BE PERMITTED.
 - REFER TO THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS' FOR DETAILS OF SURFACE WATER MANHOLE STANDARDS AND IRISH WATER CODE OF PRACTICE AND STANDARD DETAILS FOR DETAILS OF FOUL MANHOLE STANDARDS.
 - THE CONTRACTOR SHALL CARRY OUT A CCTV SURVEY REPORT OF THE COMPLETED STORM & FOUL NETWORK TO THE SATISFACTION OF THE LOCAL AUTHORITY AND REPORT TO BE ISSUED ON PRACTICAL COMPLETION.
 - THE LOCAL AUTHORITY MUST BE NOTIFIED AT LEAST 10 WORKING DAYS IN ADVANCE OF COMMENCEMENT OF WORKS.
 - PRIOR TO COMMENCEMENT OF CONSTRUCTION OUTFALL LEVELS FOR THE FOUL AND SURFACE WATER MANHOLES SHALL BE VERIFIED ON SITE.
 - PROPOSED FOUL SERVICES WILL BE EITHER CONCRETE, THERMOSTATIC STRUCTURED MANHOLE PIPES OR IMPLANTED PVC IN ACCORDANCE WITH SECTION 3.11 OF THE IRISH WATER WASTEWATER CODE OF PRACTICE. PROPOSED STORM DRAWING TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF FINCAL CO. CD.
 - PHYSICAL SERVICE LAYOUT DISTANCES (HORIZONTAL AND VERTICAL) AS PER IRISH WATER DETAIL STD-WM-02.
 - THE EXTERNAL FACE OF PROPOSED MANHOLE CHAMBERS IN PUBLIC ROADS SHALL BE A MINIMUM OF 0.5M FROM THE PROPOSED PUBLIC ROAD KERB LINE IN ACCORDANCE WITH SECTION 1.23 OF THE IRISH WATER WASTEWATER CODE OF PRACTICE.
 - INSPECTION CHAMBERS TO EACH JOINT/JUNCTION TO BE IN ACCORDANCE WITH IRISH WATER DETAIL STD-WM-02 AND STD-WM-03.
 - APPROPRIATE MEASURES ADHERING TO SECTION 3.21 OF THE IRISH WATER WASTEWATER CODE OF PRACTICE WILL BE PROVIDED TO DRAINAGE INFRASTRUCTURE IN CLOSE PROXIMITY TO PLANTING TO PREVENT ANY DAMAGE TO INFRASTRUCTURE IN ROOT PRESSURE OR NEGATIVE IMPACTS TO PLANTING SUCH AS DAMAGE OF TREE ROOTS.
- PIPE MATERIALS**
- ALL FOUL SEWER PIPE MATERIALS SHALL BE PVC OR IN COMPLIANCE WITH SECTION 3.11 OF THE IRISH WATER CODE OF PRACTICE FOR MANHOLES.
- PROPOSED SW SERVICES 450mm DIAMETER OR LARGER TO BE CONCRETE (EN12450/2002), THERMOSTATIC STRUCTURED MANHOLE DETAIL (EN12450/2002) TO PIPE DIAMETERS 225mm OR 375mm OR SIMILAR APPROVED.

PLANNING DRAWING.
NOT FOR CONSTRUCTION.
 ALL LEVELS GIVEN ARE
RELATIVE TO ORDNANCE DATUM.
 THIS DRAWING HAS BEEN ISSUED FOR INFORMATION
 PURPOSES ONLY AND MUST NOT BE USED
 FOR CONSTRUCTION UNDER ANY CIRCUMSTANCES

NOTES

- For setting out refer to Architect's drawings.
- This drawing to be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and Specifications.
- DO NOT SCALE THIS DRAWING. Use figured dimensions only.
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P1	01.03.2021	Site Layout Revised	JS	OS	
P2	17.06.2021	RED LINED AMENDED	DD	OS	

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PROPOSED DRAINAGE LAYOUT
 SHEET 2 OF 2

BD-CSC-ZZ-G3-DR-C-0104

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