

REF.	COVER LEVEL	INVERT LEVEL	REMARKS
S1.0	+20.900	+19.475	
S1.1	+20.100	+18.600	
S1.2	+20.100	+18.572	
S1.3	+20.100	+17.903	
S1.4	+20.200	+17.848	
S1.5	+20.200	+17.781	
S1.6	+20.025	+17.696	
S2.0	+20.500	+19.070	
S2.1	+20.300	+18.730	
S2.2	+20.200	+18.338	
S3.0	+21.000	+20.050	
S3.1	+20.900	+19.450	
S3.2	+20.900	+19.300	
S3.3	+20.900	+18.600	HYDROBRAKE MANHOLE
S3.4	+20.400	+18.450	
S4.0	20.900	19.775	
S4.1	21.000	19.540	
S5.0	20.900	19.475	
S5.1	20.400	18.900	
S5.2	20.400	18.750	
S5.3	20.900	18.650	SILT TRAP MANHOLE
S6.0	20.700	19.275	
S6.1	20.650	19.400	HYDROBRAKE MANHOLE
S6.2	20.550	19.125	
S7.0	20.000	18.950	
S7.1	20.000	18.750	HYDROBRAKE MANHOLE
S7.2	20.000	18.350	HYDROBRAKE MANHOLE
S8.0	20.900	19.475	
S9.0	20.900	18.081	HYDROBRAKE MANHOLE
S10.0	20.400	18.750	
S10.1	20.400	18.730	
S11.0	20.500	19.100	
S11.1	20.300	18.761	
S11.2	20.200	18.664	
S11.3	20.100	18.416	

REF.	COVER LEVEL	INVERT LEVEL	REMARKS
F1.0	+20.500	+19.150	
F1.1	+20.200	+18.700	
F1.2	+20.200	+18.240	
F1.3	+20.200	+18.000	
F1.4	+20.200	+17.800	
F1.5	+20.200	+17.470	
F1.6	+20.000	+17.150	
F2.0	+20.900	+19.650	
F2.1	+20.400	+18.920	
F3.0	+20.400	+19.350	
F4.0	+21.000	+19.750	
F4.1	+21.000	+19.300	
F4.2	+21.000	+19.250	
F5.0	+21.000	+19.700	
F6.0	+20.700	+19.400	
F6.1	+20.500	+19.000	
F7.0	+20.500	+19.000	
F8.0	+20.000	+18.450	
F8.1	+20.000	+18.000	
F9.0	+20.100	+18.600	

**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.

**CIVIL LEGEND**

- EX FOUL MANHOLE: Ex.F
- EX FOUL PIPE: PIPE DESCRIPTION
- NEW FOUL MANHOLE: F
- NEW FOUL PIPE: PIPE DESCRIPTION
- NEW FOUL INSPECTION CHAMBER: IC
- EX SURFACE WATER MANHOLE: Ex.S
- EX SURFACE WATER PIPE: PIPE DESCRIPTION
- NEW SURFACE WATER MANHOLE: S
- NEW SURFACE WATER PIPE: PIPE DESCRIPTION
- NEW SURFACE WATER MANHOLE ON DIVERTED STORMWATER PIPE/VEGET: S
- DIVERTED EXISTING SURFACE WATER PIPE: PIPE DESCRIPTION
- EX COMBINED MANHOLE: Ex.C
- EX COMBINED PIPE: PIPE DESCRIPTION
- NEW COMBINED PIPE: PIPE DESCRIPTION
- DECOMMISSIONED LINE: X X X X X X X X X X
- NEW PERFORATED LAND DRAIN: LAND DRAIN
- NEW TREE PIT: TP
- NEW INSPECTION CHAMBER: IC
- NEW SILT TRAP MANHOLE: ST
- NEW FILTER STRIP: FILTER STRIP
- DENOTES SHALLOW SEWER TO BE CAST IN 150mm CONCRETE SURROUND: [Symbol]
- NEW INSPECTION OPENING: IO
- NEW SURFACE WATER INSPECTION CHAMBER: IC
- NEW SIDE INLET KERB GULLY: KG
- NEW ROAD GULLY: RG
- SITE BOUNDARY: [Symbol]
- SITE OWNERSHIP BOUNDARY: [Symbol]
- DCC LANDS BOUNDARY: [Symbol]

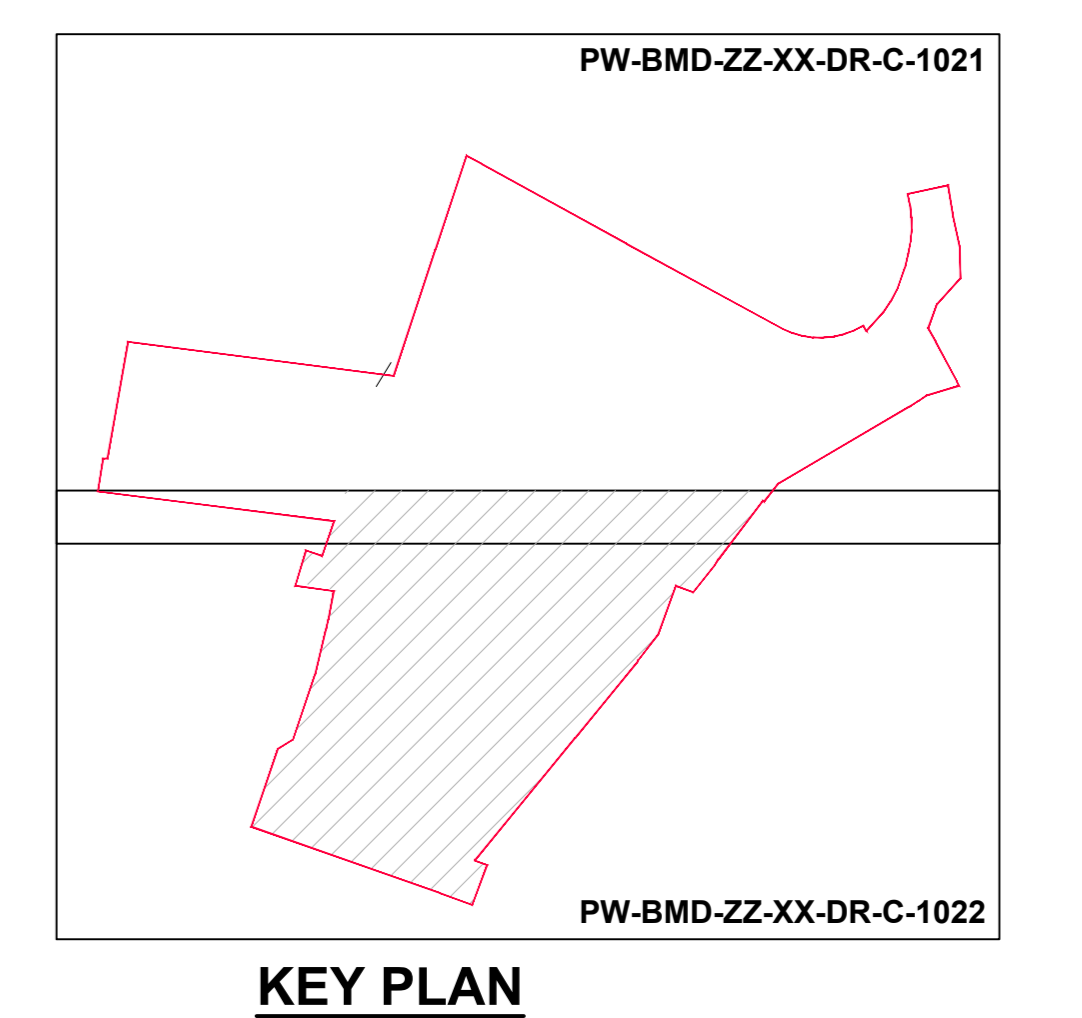
**FOUL SEWER DETAILS**  
ALL FOUL SEWER INFRASTRUCTURE IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST REVISION OF IRISH WATER - WASTEWATER INFRASTRUCTURE STANDARD DETAILS DOCUMENT IW-CDS-5030-01

**STORMWATER SEWER DETAILS**  
ALL STORMWATER INFRASTRUCTURE IS TO BE CONSTRUCTED TO DUBLIN CITY COUNCIL DRAINAGE DIVISION TAKING IN CHARGE STANDARDS.

**PIPE MATERIALS**  
UNLESS SPECIFICALLY NOTED OTHERWISE IN THE DRAINAGE LAYOUT THE PIPE MATERIAL WILL BE AS FOLLOWS:  
PIPE DIAMETER < 225mm: USE UPVC PIPE WORK  
PIPE DIAMETER 225mm: USE CONCRETE PIPE WORK  
PIPE MATERIAL TO BE IN ACCORDANCE WITH THE FOLLOWING:  
1. CONCRETE PIPES TO HAVE SPOUT & SOCKET JOINTS AND RUBBER RING FITTINGS TO IS EN 1916 (DIN EN 1916), PART 1, (DIN EN 1916 AND IS 62041), STRENGTH CLASS 150  
2. UPVC PIPES, JOINTS AND FITTINGS TO COMPLY WITH THE PROVISION OF IS EN 1401 - PART 1 AND IS 4660 (NOTE: UPVC PIPES NOT PERMITTED IN AREAS TO BE TAKEN IN CHARGE BY DUBLIN CITY COUNCIL)

**NOTE:**  
TREE AND SHRUB PLANTING IN THE VICINITY OF WATERWAYS AND DRAINS SHALL BE IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS STD-W12, STD-W12A, STD-WW09 AND STD-WW06A, WHERE THESE RESTRICTIONS CANNOT BE ACCOMMODATED, PROTECTION MEASURES SHALL BE PROVIDED APPROPRIATE TO THE PROPOSED TREES/SHRUB SIZE, SPECIES AND LOCATION RELATIVE TO THE SPECIES. SUCH MEASURES MAY INCLUDE ROOT PROTECTION BARRIERS, HIGH PERFORMANCE JOINTS OR FUSION WELDED JOINTS FOR PE REINFORCED WATER MAINS. FULL DETAILS OF THE PROPOSED PROTECTION MEASURES ARE TO BE SUBMITTED TO AND AGREED WITH IRISH WATER.

**PROPOSED FOUL AND SURFACE WATER DRAINAGE - SHEET 2**  
SCALE @ A2: 1:500



PL3	06.11.20	PLANNING ISSUE	
PL2	03.04.20	ISSUED FOR PLANNING	
PL1	31.03.20	ISSUED FOR PLANNING	
P1	08.01.20	PRELIMINARY ISSUE	

**ISSUE** DATE DESCRIPTION

**DRAWING STAGE** **PLANNING**

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**ACEI**  
The Institution of Structural Engineers

**CLIENT:** DBTR-SCR1 FUND, A SUB-FUND OF THE CWTC MULTI FAMILY ICAV

**PROJECT TITLE:** PLAYER WILLS SOUTH CIRCULAR ROAD

**PROJECT No:** 19117

**DRAWING TITLE:** PROPOSED FOUL AND SURFACE WATER DRAINAGE - SHEET 2

**DRAWING No:** PW-BMD-ZZ-XX-DR-C-1022 **DATE:** PL3