



	STORMWATER SEWER				
	MANHOLE REF	MANHOLE TYPE (AS PER IRISH WATER CODE OF PACTICE)	COVER LEVEL	INVERT LEVEL IN	
	S1	1.2m	100.475	99.538	
	S2	1.2m	100.200	99.365	
[S3	1.2m	100.150	99.178	
[S4	1.2m	100.100	99.161	

FOUL SEWER				
MANHOLE REF	MANHOLE TYPE (AS PER IRISH WATER CODE OF PACTICE)	COVER LEVEL	INVERT LEVEL IN	
F1	1.2m	100.450	99.507	
F2	1.2m	100.300	98.872	
F3	1.2m	100.400	98.750	

HORIZONTAL SCALE 1:500 VERTICAL SCALE 1:100

VERTICAL SCALE 1:100

REFER TO SECTION 3.2 FOR SERVICE CONNECTION GRADIENTS.

PIPE MATERIALS SHALL BE IN COMPLIANCE WITH SECTION 3.9 OF THE CODE OF PRACTICE. COMPLIANCE WITH STANDARD DETAILS DRAWINGS STD-W-11, STD-W-12 & STD-W-12A SHALL BE ADHERED TO REGARDING SEPARATION DISTANCES FROM OTHER SERVICES, BOUNDARY WALLS & TREES. SCOUR CHAMBER TO BE CONSTRUCTED AS PER IRISH WATER STANDARD DETAIL DRAWING STD-W-30. BYPASS FLOW METER TO BE CONSTRUCTED AS PER IRISH WATER STANDARD DETAIL DRAWING STD-W-26F. CONFIRMATION BY A CHARTERED ENGINEER AND TEST RESULT CERTIFICATES & REPORTS INDICATING THAT THE WATER INFRASTRUCTURE HAS UNDERGONE APPROPRIATE ON-SITE TESTING, OFF SITE TESTING AND COMMISSIONING. THE APPROPRIATE SITE TESTS FOE WATER COLLECTION INFRASTRUCTURE WOULD BE AS FOLLOWS: IGN TEST REPORTS – WATERMAIN PRESSURE TESTING SERVICE CONNECTION TEST RESULTS ELECTRO/BUTT FUSION WELD TEST RESULT REPORTS (DESTRUCTIVE TESTING) PRINTOUT OF THE JOINT DETAILS, WITH A GPS LOCATION OF EACH ELECTROFUSION & BUTT FUSION JOINT • TESTING COMPLETION RESULTS FOR BOOSTER PUMP PLANT (IF APPROPRIATE) TO BE REROOT 2000 OR SIMILAR. SWABBING & FLUSHNG RECORDS DISINFECTION TEST REPORTS (ACCREDITED LABORATORY REPORT) WATER QUALITY SAMPLING RESULTS (ACCREDITED LABORATORY REPORT) AS CONSTRUCTED DRAWINGS: AS CONSTRUCTED RECORD DRAWINGS (IN HARD COPY AND DIGITAL FORMAT) SHALL SHOW THE LOCATION, LAYOUT PLANS, LONGITUDINAL SECTIONS AND DETAILS OF THE WORKS AND THE DEVELOPMENT IN FULL. PLAN SCALES SHOULD BE IN COMMON USE, ie 1:200, 1:500, 1:1000 OR 1:2500 AS APPROPRIATE. DRAWINGS SHOULD BE PREPARED USING AN ELECTRONIC SYSTEM AND SUBMITTED IN STANDARD "CAD COMPATIBLE (DWG/DXF)" FILE FORMAT. THESE DRAWINGS SHALL CONTAIN THE FOLLOWING INFORMATION: LOCATIONS OF ALL VALVES, HYDRANTS, SCOUR VALVES OR WASHOUT HYDRANTS, METERS, DUCTS, TAPPING LOCATIONS, WATER MAIN AND SERVICE PIPES, BOUNDARY BOXES, ETC., COMPLETE WITH LEGENDS TO IRISH WATER'S REQUIREMENTS. • DETAILED PIPE MATERIAL TYPES, SIZES, CONNECTION DETAILED PLANS OF PIPE BRANCHES, SHOWING VALVE LOCATIONS, ETC. LOCATIONS OF ASSETS ARE TO BE TO +/- 100MM ACCURACY IN THE HORIZONTAL PLANE TO THE CENTRE OF THE ASSET, WITH DIMENSIONS RELATING TO FIXED IRISH NATIONAL GRID (ING) CO-ORDINATES. COVER LEVEL FOR WATER MAIN FITTINGS AND INTERMITTENT WATER MAIN INVERT LEVELS RELATING TO FIXED ORDNANCE SURVEY DATUM (MALIN HEAD) TO AI ACCURACY OF +/- 20MM. LONGITUDINAL SECTIONS, TO AN EXAGGERATED VERTICAL SCALE, (SUCH AS 1:1000 HORIZONTAL AND 1:100 VERTICAL) SHOWING INSTALLED LEVELS, COMPLETED GROUNI STATION STRUCTURES LEVELS, INVERT LEVELS, PIPE SIZES, BEDDING, HAUNCH AND SURROUND DETAILS BACKFILL DETAILS, TOGETHER WITH CHAMBER LOCATIONS, CHAINAGES, GRADIENTS COPY PRINT OUT FROM THE LOGGER OF THE RELAXATION CURVE AS PROOF OF THE PIPE MATERIALS, ETC. ALL CHAMBERS FOR WATER SUPPLY FITTINGS SHALL BE OUTCOME OF THE TEST. (IGN 4-01-03 COMPLIANT REPORT) IDENTIFIED AND PROVIDED WITH LOCATION CO-ORDINATES TO IRISH NATIONAL GRID (ING) DETAILS OF ANY SERVICES AND STRUCTURES ON THE SITE, ESPECIALLY THOSE IN WELDING) CLOSE PROXIMITY TO THE WORKS INCLUDING OFFSET MEASUREMENT TO THE WATER SUPPLY SYSTEM. DWELLING AND BUILDING NUMBERS. CONSTRUCTION DETAILS OF PUMP STATION AS WELL AS MECHANICAL, ELECTRICAL AND INSTRUMENTATION EQUIPMENT DETAILS. DETAILS OF SERVICES AND STRUCTURES ON THE SITE, EXISTING AND PROPOSED ESPECIALLY THOSE IN CLOSE PROXIMITY TO THE WORKS INCLUDING OFFSETS MEASUREMENTS TO THE WORKS. SUBMITTED IN CD OR DVD FORMAT WITH A HARD COPY OF THE SURVEY REPORT. S2 S3 S4 T1 18/08/2023 ISSUED FOR TENDER JOR APPROVED REV. DATE DESCRIPTION COPYRIGHT RESERVED- THIS DRAWING IS NOT TO BE USED FOR A PURPOSE OTHER THAN THAT FOR WHICH IT HAS BEEN ISSUED BY ALAN TRAYNOR CONSULTING ENGINEERS. NOR IS IT TO BE COPIED OR REPRODUCED IN ANY MATTER WITHOUT WRITTEN CONSENT. Alan Traynor 💦 Consulting Engineers Ltd Unit 6, Belturbet Business Park, Creeny, Belturbet, Co.Cavan H14AY94 (+353) 499522236 9001 2nd Floor, 67-70 Meath St, Dublin 8 D08XY53 EL: (+353) 19697881 Email: info@alantraynor.com Website: www.alantaynor.com CLIENT CAVAN COUNTY COUNCIL GRASS AREA PROJECT TITLE PROPOSED RESIDENTIAL DEVELOPMENT AT ASHGROVE, DERRYLURGAN, GRADIENT 1 IN 100 BALLYJAMESDUFF, CO. CAVAN DRAWING TITLE PROPOSED SITE SERVICE LAYOUT FOUL AND SURFACE WATER SEWERS SCALE DRAWN CHECKED APPROVED ALAN TRAYNOR AODHAGAN O'REILLY LIAM McELGUNN 1:200 DATE DATE DATE JULY 2023 ILII Y 2023 JULY 2023 DRAWING No. T1 23-105-100

NOTES

WATER INFRASTRUCTURE

STANDARD DETAILS.

ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH IRISH WATER DOCUMENTS

WATER BOUNDARY BOXES TO BE IN COMPLIANCE WITH THE IW CODE OF PRACTICE AND

IW-CDS-5020-01 (STANDARD DETAILS) & IW-CDS-5020-03 (CODE OF PRACTICE).

THE INSPECTION CHAMBER WILL BE IN COMPLIANCE WITH STD-WW-03 AND STD-WW-13 AND PIPE MATERIALS SHALL COMPLY WITH SECTION 3.13. OF THE IRISH WATER CODE OF COMPLIANCE WITH STANDARD DETAILS DRAWINGS STD-WW-5, STD-WW-6 & STD-WW-6A SHALL BE ADHERED TO REGARDING SEPARATION DISTANCES FROM OTHER SERVICES, SEPARATION DISTANCES FROM FOUL SEWERS TO STRUCTURES AND OTHER UTILITIES WILL REFER TO STD-W-12A, STD-WW-06, STD-WW-06A & 3.26 OF THE IRISH WATER CODE OF PRACTICE FOR PLANTING RESTRICTIONS OF WATER AND WASTE WATER. ROOT PROTECTION REFER TO SECTION 3.5.16 OF THE WASTE WATER IRISH WATER CODE OF PRACTICE FOR UNAVOIDABLE SERVICES CROSSOVER. AND 100mm DEEP FORMED C碧 CONCRETE, 20mm AGGREGATE, BEDDED IN CLAUSE 804 EXTERNAL FACE OF PROPOSED MANHOLE CHAMBER TO BE A MINIMUM OF 0.5m FROM KERB CONFIRMATION BY A CHARTERED ENGINEER AND TEST RESULT CERTIFICATES INDICATING THAT THE WASTEWATER INFRASTRUCTURE HAS UNDERGONE APPROPRIATE ON-SITE TESTING AND COMMISSIONING. THE APPROPRIATE SITE TESTS FOE WASTEWATER PRESSURE TESTING COMPLETION RESULTS OF RISING MAINS COMPLETE WITH A HARD A PRINTOUT OF THE JOINT DETAILS, WITH A GPS LOCATION OF EACH JOINT (HDPE REPORTING AND DELIVERING - THE FINAL REPORTS AND DELIVERABLES TO IRISH WATER SHALL INCLUDE THE FOLLOWING ITEMS: A- CCTV SURVEY FOOTAGE: FILES IN "XML" FORMAT SUBMITTED TO IRISH IN ACCORDANCE WITH MSCC, 5TH ADDITION, COMPATIBLE WITH INFONET. C - MANHOLE SURVEY REPORTS: REPORTS SUBMITTED IDENTIFYING THAT NO DEFECTS EXIST. REPORTS SUBMITTED IN "CSC" FORMAT ON CD OR DVD WITH A HARD COPY OF THE SURVEY REPORTS. MANHOLE REFERENCING SHALL BE CONSISTENT WITH THE AS CONSTRUCTED DRAWINGS __ TO IRISH NATIONAL GRID COORDINATES (ING)) TO +/- 100mm ACCURACY IN THE HORIZONTAL PLANE, WITH DIMENSIONS RELATING TO FIXED ORDNANCE SURVEY CO-ORDINATES.

WILL BE LOCATED WITHIN 1M OF EACH SITE BOUNDARY. PIPE MATERIALS WILL BE UNPLASTICISED PVC FOR THE MAIN SEWERS AS PER SECTION 3.13.3 OF THE IRISH WATER CODE OF PRACTICE. BOUNDARY WALLS & TREES. MANHOLES WILL CONFORM TO STANDARD DETAILS STD-WW-09, STD-WW-10, STD-WW-11 AND/OR STD-WW-12 AS APPROPRIATE. COMPLY WITH SECTION 3.5 OF THE IRISH WATER CODE OF PRACTICE. REFER TO DETAILSTD-W-11 FOR TYPICAL SERVICES LAYOUT DISTANCES & STD-WW-05 FOR WASTEWATER TYPICAL SERVICES LAYOUT AND 3.21 IRISH WATER WASTEWATER CODE OF MANHOLE COVERS LOCATED IN GRASS AREAS TO HAVE 200mm ALL ROUND CONCRETE PLINTH REFER TO 3.5.13 OF THE IRISH WATER CODE OF PRACTICE FOR STAGGERED MANHOLE SYSTEMS DETAILS. LINE AND EXTERNAL FACE OF SEWERS ARE A MINIMUM OF 1M FROM KERB LINE. SEE SECTION 3.5.15 OF IRISH WATER WASTEWATER CODE OF PRACTICE COLLECTION INFRASTRUCTURE WOULD BE AS FOLLOWS: AIR TESTS AND WATER TESTS COMPLETION RESULTS FOR SEWERS WATER RETAINING TESTS COMPLETION RESULTS FOR MANHOLES AND PUMPING PUMPING STATIONS – TESTING & COMMISSIONING REPORTS WASTEWATER INFRASTRUCTURE - CCTV & MANHOLE SURVEY REPORTS B - CCTV REPORTS: REPORTS SUBMITTED IDENTIFYING THAT NO DEFECTS EXIST. REPORTS D - CERTIFICATION FROM THE CUSTOMERS CONSULTANT ENGINEER: CONFIRMATION THAT A QUALITY CONTROL REGIME HAS BEEN IMPLEMENTED WITH THE RESULT THAT NO DEFECTS EXIST IN EITHER THE SEWERS OR THE MANHOLES.