



**NOTES**

**WATER INFRASTRUCTURE**  
 ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH IRISH WATER DOCUMENTS IW-CDS-5030-01 (STANDARD DETAILS) & IW-CDS-5030-03 (CODE OF PRACTICE).  
 WATER BOUNDARY BOXES TO BE IN COMPLIANCE WITH THE IW CODE OF PRACTICE AND STANDARD DETAILS.  
 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 FOR WATER COLLECTION INFRASTRUCTURE WOULD BE AS FOLLOWS:  
 • ION 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)  
 • SWABBING & FLUSHING 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 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 (INGI) CO-ORDINATES.  
 • COVER LEVEL FOR WATER MAIN FITTINGS AND INTERMITTENT WATER MAIN INVERT LEVELS RELATING TO FIXED ORDNANCE SURVEY DATUM (MALIN HEAD) TO AN ACCURACY OF +/- 20MM.  
 • LONGITUDINAL SECTIONS, TO AN EXAGGERATED VERTICAL SCALE, (SUCH AS 1:1000 HORIZONTAL AND 1:100 VERTICAL) SHOWING INSTALLED LEVELS, COMPLETED GROUND LEVELS, INVERT LEVELS, PIPE SIZES, BEDDING, HAUNCH AND SURROUND DETAILS, BACKFILL DETAILS, TOGETHER WITH CHAMBER LOCATIONS, CHAINAGES, GRADIENTS, PIPE MATERIALS, ETC. ALL CHAMBERS FOR WATER SUPPLY FITTINGS SHALL BE IDENTIFIED AND PROVIDED WITH LOCATION CO-ORDINATES TO IRISH NATIONAL GRID (INGI) DETAILS OF ANY SERVICES AND STRUCTURES ON THE SITE, ESPECIALLY THOSE IN 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.

**WASTEWATER INFRASTRUCTURE - CCTV & MANHOLE SURVEY REPORTS**  
 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  
 B - CCTV REPORTS: REPORTS SUBMITTED IDENTIFYING THAT NO DEFECTS EXIST. REPORTS SUBMITTED IN CD OR DVD FORMAT WITH A HARD COPY OF THE SURVEY REPORT.  
 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 (INGI) TO +/- 100mm ACCURACY IN THE HORIZONTAL PLANE, WITH DIMENSIONS RELATING TO FIXED ORDNANCE SURVEY CO-ORDINATES.  
 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.

**PLANNING DRAWING**

REV.	DATE	DESCRIPTION	APPROVED

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ISO 9001 CERTIFICATION EUROPE

CLIENT  
**CAVAN COUNTY COUNCIL**

PROJECT TITLE  
**PROPOSED DEVELOPMENT AT MOONEYS HALL AND FAIR GREEN AN BONNAN BUI WAY, BLACKLION, CO. CAVAN**

DRAWING TITLE  
**PROPOSED SITE SERVICES FOUL WATER SEWER, SURFACE WATER SEWER & WATERMAIN LAYOUT**

SCALE	DRAWN	CHECKED	APPROVED
1:250	CONOR MURPHY	LIAM MCELGUNN	ALAN TRAYNOR
	DATE	DATE	DATE
	SEPTEMBER 2023	SEPTEMBER 2023	SEPTEMBER 2023
DRAWING No.	REV.		
23-242-100			

FOUL SEWER			
MANHOLE REF	MANHOLE TYPE (AS PER IRISH WATER CODE OF PRACTICE)	COVER LEVEL	INVERT LEVEL
F1	1.2m	53.000	51.850
F2	1.2m	53.115	51.775
F3	1.2m	53.150	51.740
F4	1.2m	53.150	51.579
FEXT	Existing	52.840	51.515

STORM WATER SEWER				
MANHOLE REF	MANHOLE TYPE (AS PER IRISH WATER CODE OF PRACTICE)	COVER LEVEL	INVERT LEVEL IN	INVERT LEVEL OUT
S1	1.2m	53.000	52.395	-
S2	1.2m	53.150	52.324	-
S3	1.2m	53.150	52.299	-
S4	1.2m	53.150	52.277	-
S5	1.2m	53.150	52.161	52.096
S6	1.2m	52.810	52.054	-
SNEW	OUTFALL	-	52.000	-

**LEGEND**

- PROPOSED STORM MANHOLE
- PROPOSED STORM SEWER
- PROPOSED ROAD GULLY
- PROPOSED PERFORATED PIPE
- PROPOSED INSPECTION CHAMBER
- PROPOSED ACO CHANNEL
- PROPOSED PERMEABLE PAVING
- EXISTING STORM STORM MANHOLE
- EXISTING STORM SEWER
- PROPOSED FOUL MANHOLE
- PROPOSED FOUL SEWER
- IRISH WATER INSPECTION CHAMBER
- EXISTING STORM STORM MANHOLE
- EXISTING FOUL SEWER
- PROPOSED WATERMAIN CONNECTION
- WATER BOUNDARY BOX
- EXISTING WATERMAIN
- EXISTING HYDRANT
- FINISHED FLOOR LEVELS
- FINISHED ROAD LEVELS
- SITE BOUNDARY