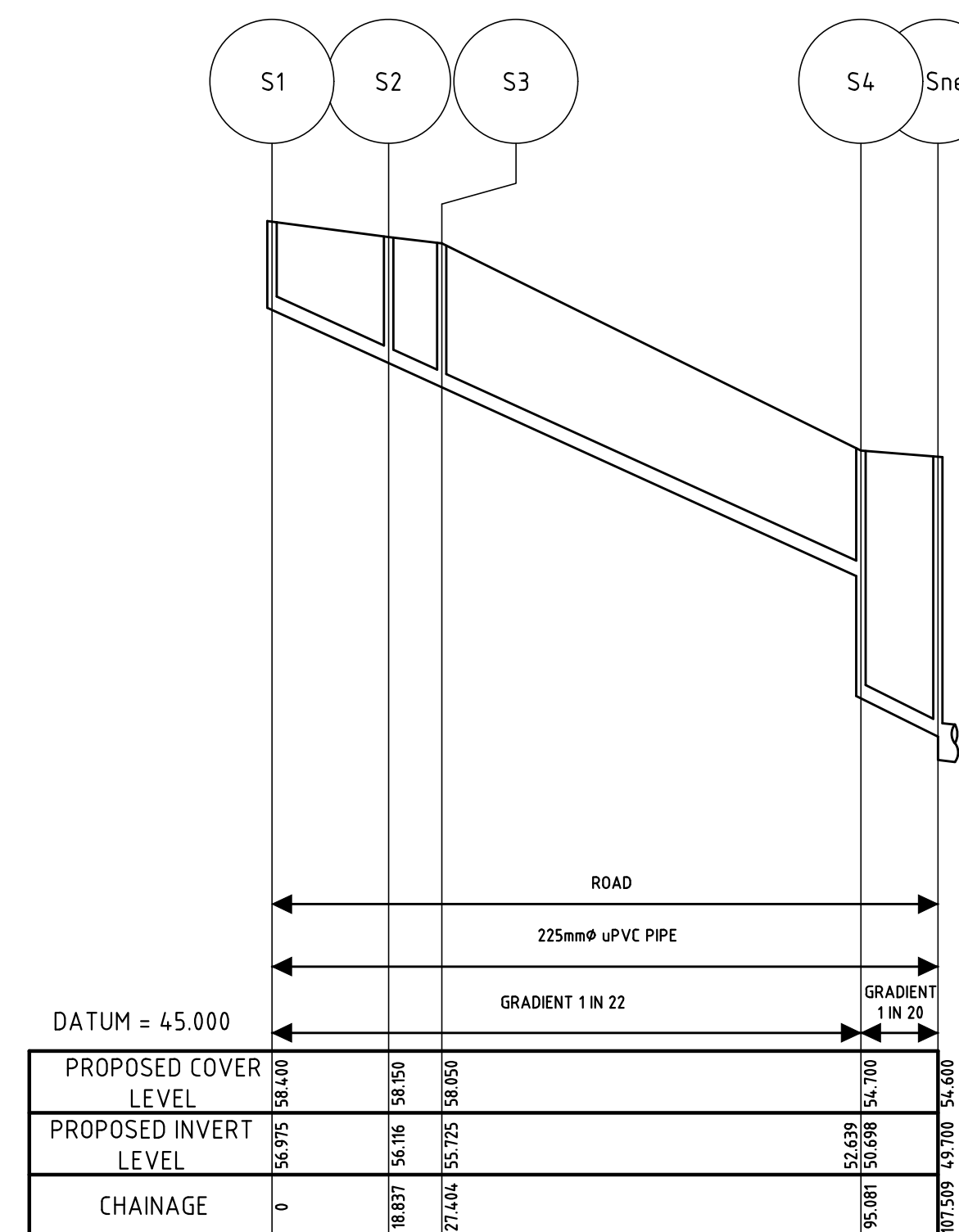


**PROPOSED FOUL SEWER SECTIONS**  
**F1-Fnew**  
 HORIZONTAL SCALE 1:1000  
 VERTICAL SCALE 1:100



**PROPOSED STORM SEWER SECTIONS**  
**S1-Snew**  
 HORIZONTAL SCALE 1:1000  
 VERTICAL SCALE 1:100

**NOTES**

INDIVIDUAL WASTEWATER CONNECTION TO EACH DWELLING WILL BE AS PER STANDARD DETAIL STD-WW-02.

REFER TO SECTION 3.2 FOR SERVICE CONNECTION GRADIENTS.

THE INSPECTION CHAMBER WILL BE IN COMPLIANCE WITH STD-WW-03 AND STD-WW-13 AND WILL BE LOCATED WITHIN 1M OF EACH SITE BOUNDARY.

PIPE MATERIALS SHALL COMPLY WITH SECTION 3.13 OF THE IRISH WATER CODE OF PRACTICE.

PIPE MATERIALS WILL BE UNPLASTICISED PVC FOR THE MAIN SEWERS AS PER SECTION 3.13.3 OF THE IRISH WATER CODE OF PRACTICE.

MANHOLES WILL CONFORM TO STANDARD DETAILS STD-WW-09, STD-WW-10, STD-WW-11 AND/OR STD-WW-12 AS APPROPRIATE.

SEPARATION DISTANCES FROM FOUL SEWERS TO STRUCTURES AND OTHER UTILITIES WILL COMPLY WITH SECTION 3.5 OF THE IRISH WATER CODE OF PRACTICE.

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 TO BE REEDED 2000 OR SIMILAR.

REFER TO DETAILS STD-W-11 FOR TYPICAL SERVICES LAYOUT DISTANCES & STD-WW-05 FOR WASTEWATER TYPICAL SERVICES LAYOUT AND 3.21 IRISH WATER WASTEWATER CODE OF PRACTICE.

REFER TO SECTION 3.5.16 OF THE WASTE WATER IRISH WATER CODE OF PRACTICE FOR UNAVOIDABLE SERVICES CROSSOVER.

MANHOLE COVERS LOCATED IN GRASS AREAS TO HAVE 200mm ALL ROUND CONCRETE PLINTH AND 100mm DEEP FORMED CONCRETE, 20mm AGGREGATE, BEDDED IN CLAUSE 804 MATERIAL.

REFER TO 3.5.13 OF THE IRISH WATER CODE OF PRACTICE FOR STAGGERED MANHOLE SYSTEMS DETAILS.

EXTERNAL FACE OF PROPOSED MANHOLE CHAMBER TO BE A MINIMUM OF 0.5m FROM KERB 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

**WATER INFRASTRUCTURE**

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:

- IGN TEST REPORTS - WATERMAIN PRESSURE TESTING
- SERVICE CONNECTION TEST RESULTS
- ELECTROBUTT 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)

**WASTE WATER INFRASTRUCTURE**

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 FOR WASTEWATER COLLECTION INFRASTRUCTURE WOULD BE AS FOLLOWS:

- AIR TESTS AND WATER TESTS COMPLETION RESULTS FOR SEWERS
- WATER RETAINING TESTS COMPLETION RESULTS FOR MANHOLES AND PUMPING STATION STRUCTURES
- PRESSURE TESTING COMPLETION RESULTS OF RISING MAINS COMPLETE WITH A HARD COPY PRINTOUT FROM THE LOGGER OF THE RELAXATION CURVE AS PROOF OF THE OUTCOME OF THE TEST. (IGN 4-01-03 COMPLIANT REPORT)
- A PRINTOUT OF THE JOINT DETAILS, WITH A GPS LOCATION OF EACH JOINT (HDPE WELDING)
- PUMPING STATIONS - TESTING & COMMISSIONING REPORTS

**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. SITE ADDITION COMPATIBLE WITH INFONEET.

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 "CSG" 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.

REV.	DATE	DESCRIPTION	APPROVED

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**ISO 9001 CERTIFICATION EUROPE**

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**CLIENT**

**Comhairle Chontae Liatroma Leitrim County Council**

**PROJECT TITLE**

**PROPOSED HOUSING DEVELOPMENT AT CARRICK ON SHANNON, CO. LEITRIM**

**DRAWING TITLE**

**STORM & FOUL SEWER SECTIONS**

SCALE	DRAWN	CHECKED	APPROVED
1:100	LIAM MCELGUNN	MARC MCBRIDE	ALAN TRAYNOR
	DATE	DATE	DATE
	JUNE 2020	JUNE 2020	JUNE 2020

DRAWING No. **20-053-101**