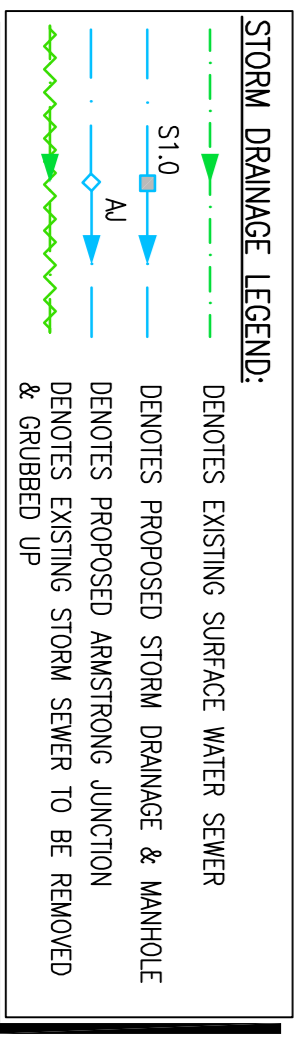


**GENERAL DRAINAGE NOTES:**

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. ALL LEVELS ARE IN METRES ABOVE DATUM UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR MUST CONTACT THE RELEVANT AUTHORITIES PRIOR TO CONSTRUCTION WORK, & SATISFY HIMSELF IN RESPECT TO THE LOCATION OF ALL EXISTING SERVICES.
4. ALL SEWER & DRAIN PIPES ARE CLASS 'C' UPVC UNLESS OTHERWISE STATED.
5. ALL BEDDING TO SEWERS IS CLASS 'B' UNLESS OTHERWISE NOTED.
6. ALL MANHOLES CAN BE EITHER PRECAST CONCRETE RING MANHOLES OR BLOCKWORK UNLESS OTHERWISE STATED.
7. 600mm MAX. LENGTH ROCKER PIPES ARE TO BE PROVIDED ON SEWER WHERE:
  - (A) A PIPE ENTERS A MANHOLE OR PUMPING STATION.
  - (B) A PIPE LEAVES A MANHOLE.
  - (C) A PIPE ENTERS CONCRETE ENCASEMENT.
  - (D) A PIPE LEAVES CONCRETE ENCASEMENT.
  - (E) ANY OTHER LOCATION AS DIRECTED BY THE ENGINEER.
8. ALL SEWER ROCKER PIPES ARE TO BE FORMED BY CUTTING & TRIMMING A LENGTH OF SPROUT & SOCKET PIPE TO FORM A SPROUT AT THE CUT END, THEREBY FORMING SPROUT & SOCKET JOINTS AT BOTH ENDS OF THE ROCKER PIPE.
9. WHERE SEWER PIPES OR RISING MAINS CONNECT TO EXISTING MANHOLES, THE CONTRACTOR IS REQUIRED TO:
  - (A) CONTACT THE RELEVANT AUTHORITIES PRIOR TO COMMENCING WORK.
  - (B) MAKE GOOD THE EXISTING CHAMBER WALL AT THE PROPOSED POINT OF PENETRATION & ADJUST THE EXISTING BENCHING TO THE SATISFACTION OF THE ENGINEER.
  - (C) THE CONTRACTOR IS REQUIRED TO:
10. WHERE SEWER PIPES, RISING MAINS OR ROAD GULLY DRAINS CROSS EXISTING ROADS, THE CONTRACTOR IS REQUIRED TO:
  - (A) CONTACT THE RELEVANT AUTHORITIES PRIOR TO COMMENCING WORK.
  - (B) MAKE GOOD THE EXISTING ROAD TO ITS ORIGINAL SPECIFICATION AS APPROVED BY THE ENGINEER.
11. MINIMUM FALLS INDICATED ON DRAINAGE PIPES, LEVELS TO BE REVISED IF MANHOLE LOCATIONS ARE MODIFIED BY CONTRACTOR.
12. CONCRETE PROTECTION TO BE PROVIDED AROUND ALL PIPES UNO.
13. ALL BRANCH & PERIMETER DRAINAGE ARE TO BE DETAILED BY ARCHITECT.
14. PROPERTY ACCESS JUNCTIONS TO BE USED TO DEPTHS OF 600mm OR LESS.
15. 450x450mm INSPECTION CHAMBERS TO BE USED AT DEPTHS OF 600-1000mm.
16. MANHOLES TO DETAILS TO BE USED AT DEPTHS OVER 1000mm.
17. ROAD GULLIES TO BE PROVIDED SO THAT MAX AREA CONTRIBUTING TO A SINGLE GULLY IS 180m<sup>2</sup>.
18. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS FOR HOUSING AREAS, DEPARTMENT OF THE ENVIRONMENT.
19. ALL STORM MANHOLE BASES TO BE PRECAST CONCRETE PRE-BRENCHED OFF SITE.

**TESTING OF SEWERS:**

1. FOUL & SURFACE WATER SEWERS TO BE TESTED EITHER BY WATER OR AIR TEST. IF THE AIR TEST IS CARRIED OUT & THE RESULTS SHOW A FAILURE THEN A WATER TEST SHALL BE SUBSEQUENTLY CARRIED OUT TO DETERMINE ACCEPTANCE OR REJECTION.
2. WATER TESTS CARRIED OUT SHALL BE TESTED IN UNDER A HEAD OF WATER IN ACCORDANCE WITH BS 8301 1995, & CARRIED OUT FOR A MINIMUM OF 30 MINUTES.
3. THE CONTRACTOR IS TO ENGAGE AN ENGINEER WITH PROFESSIONAL INDEMNITY INSURANCE TO SUPERVISE ALL AIR/WATER TESTS ON MAINS BEFORE BACKFILLING.
4. ON COMPLETION OF ALL SEWERS DRAINS & GULLIES ALL SEWERS SHALL BE FLUSHED OUT & LEFT FREE FROM DEFECT & OBSTRUCTION & SUBSEQUENTLY A CCTV SURVEY SHALL BE CARRIED OUT BY AN INDEPENDENT CONTRACTOR OF THE AS BUILT DRAINAGE. THE CCTV SURVEY SHALL INCLUDE A REPORT & DVD & SHALL BE SUBMITTED TO THE ENGINEER & ARCHITECT PRIOR TO PRACTICAL COMPLETION.
5. ON COMPLETION OF ALL SEWERS, DRAINS & GULLIES AN AS-BUILT SURVEY MUST BE SUBMITTED INCLUDING LOCATION OF MANHOLES RELATIVE TO THE BUILDING OUTLINE, COVER, INVERT LEVELS & PIPE DIAMETERS TO THE ENGINEER & ARCHITECT FOR THEIR REVIEW PRIOR TO PRACTICAL COMPLETION.



**NOTES:**

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS' SERVICE ENGINEERS' DRAWINGS & SPECIFICATIONS.
2. ALL LEVELS ARE STRUCTURAL UNLESS NOTED OTHERWISE.
3. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT BUILDING REGULATIONS.
4. DO NOT SCALE - WORK TO FIGURE DIMENSIONS ONLY.

**STORM DRAINAGE NOTES:**

1. ALL PERIMETER DRAINAGE TO ARCHITECTS DETAILS.
2. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH RECOMMENDATIONS FOR SITE DEVELOPMENT WORKS FOR HOUSING AREAS, DEPARTMENT OF THE ENVIRONMENT.
3. ALL GULLIES TO BE CONNECTED TO MAIN STORM DRAIN WITH 150mm Ø STORM PIPE @ 1:80 GRADIENT.
4. CONCRETE PROTECTION WILL BE PROVIDED OVER PIPES WHERE THE DEPTH OF COVER TO PIPES UNDER ROADS IS LESS THAN 1200mm & 900mm UNDER GRASS/PAVED AREAS.

QUALITY STANDARD  
BS 8000:2000  
100% Compliant

ENGINEERS IRELAND  
REGISTERED  
ACCREDITED COMPANY

Rev.	Date	Description	Drawn	Checked	Approved
01	24.11.17	PROGRESS ISSUE	CF	PF	NR
02	24.11.17	PROGRESS ISSUE	CF	PF	NR
03	12.01.18	PART 8 ISSUE	CF	PF	NR

<p>Client: <b>KILDARE COUNTY COUNCIL</b></p>	
<p>Job Description: <b>SOCIAL HOUSING UNITS CASTLEFIN, SALINS, Co. KILDARE</b></p>	
<p><b>PART 8 ISSUE</b></p>	
<p><b>PROPOSED STORM LAYOUT</b></p>	
<p>Project No: <b>16KK042</b></p>	<p>Revision No: <b>C-020</b></p>
<p>Date: <b>10.10.17</b></p>	<p>Scale: <b>A1 - 1:500 / A3 - 1:1000</b></p>
<p>Drawn By: <b>CZUCCO</b></p>	<p>Checked By: <b>FRUNCHERON</b></p>
<p>Approved By: <b>NPATTERSON</b></p>	<p>Per: <b>PL1</b></p>

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