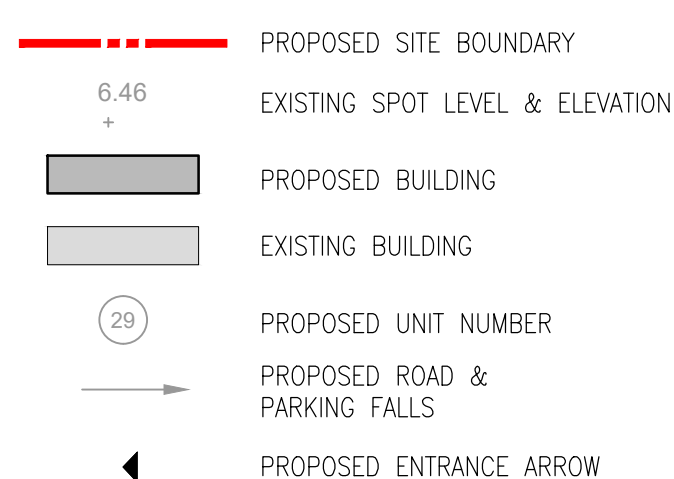
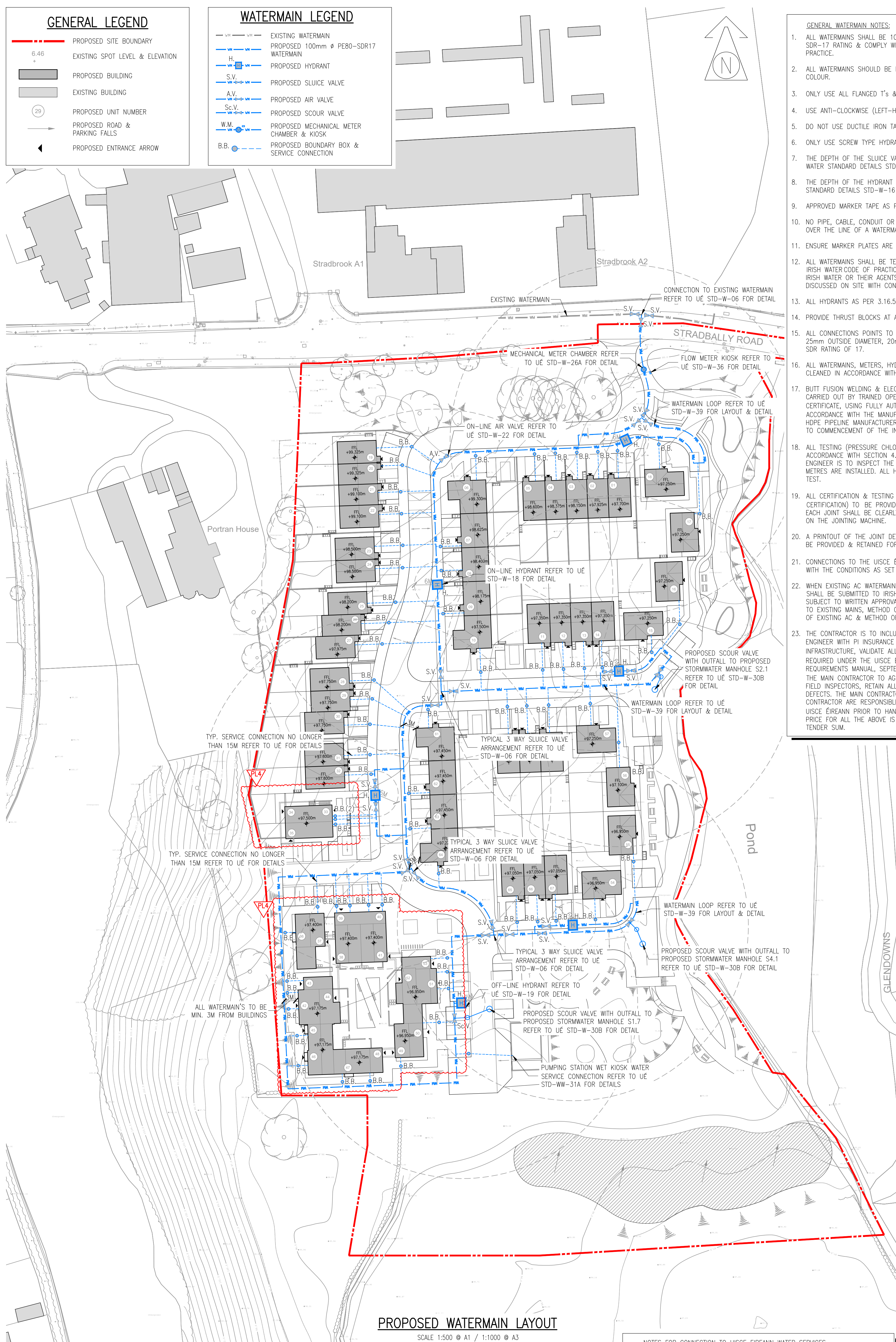
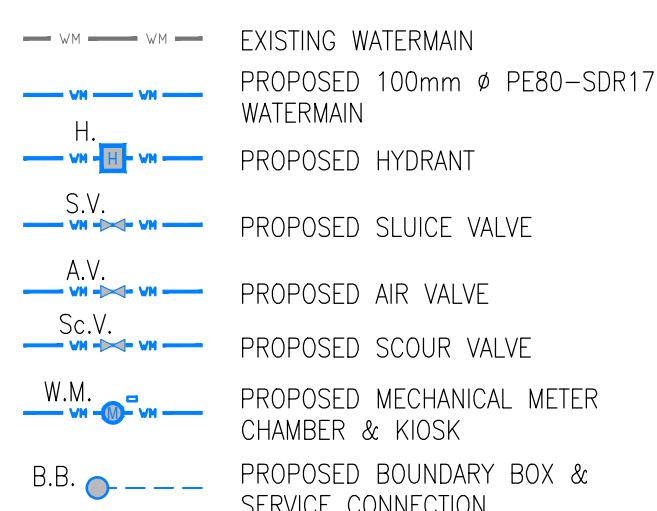


## GENERAL LEGEND



## WATERMAIN LEGEND



## PROPOSED WATERMAIN LAYOUT

SCALE 1:500 @ A1 / 1:1000 @ A3

## FIRE HYDRANT NOTES:

- FIRE HYDRANTS TO BE POSITIONED A MINIMUM OF 6m FROM PROPOSED BUILDINGS.
- FIRE HYDRANTS TO BE IN ACCORDANCE WITH THE FIRE OFFICER RECOMMENDATIONS.
- ALL FIRE HYDRANTS TO BE LOCATED IN ACCORDANCE WITH TECHNICAL GUIDANCE DOCUMENT B OF BUILDING REGULATIONS, 1997 & TECHNICAL GUIDANCE DOCUMENT B OF BUILDING REGULATIONS, 2006 STATUTORY INSTRUMENT 497 OF 1997.
- FINAL VERIFICATION SHOULD BE SOUGHT FROM THE FIRE AUTHORITY FOR AGREED LAYOUT OF ALL HYDRANTS & THE NUMBER OF WATER SUPPLY CONNECTIONS TO THE FIRE WATER RING MAIN.

## NOTES FOR CONNECTION TO UIUCE ÉIREANN WATER SERVICES

- CONTRACTOR TO LIAISE WITH UIUCE ÉIREANN PRIOR TO MOBILISATION ON SITE TO DETERMINE THE DURATION OF THE APPROVAL PROCESS & WHAT DOCUMENTATION & FEES ARE REQUIRED BY UIUCE ÉIREANN & THE LOCAL AUTHORITY & PROGRAM THIS INTO THE CONSTRUCTION PROGRAM.
- UIUCE ÉIREANN TO BE CONTACTED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WASTEWATER SEWER & WATERMAIN WORKS. ALL DETAILS TO BE AGREED WITH UIUCE ÉIREANN. UIUCE ÉIREANN TO BE GIVEN ADEQUATE NOTICE FOR ALL WASTEWATER SEWER & WATERMAIN CONNECTION WORKS.
- EXACT LOCATION & DEPTH OF THE EXISTING WASTEWATER SEWERS, RISING MAINS & WATERMANS SHOULD BE ESTABLISHED BY THE CONTRACTOR IN ADVANCE OF THE MAIN EXCAVATION WORKS FOR THE NEW WASTEWATER SEWER & WATERMAIN SO AS TO AVOID THE POSSIBILITY OF DAMAGE TO THE EXISTING WASTEWATER SEWERS, RISING MAINS & WATERMAIN DURING CONSTRUCTION WORKS. SLIT TRENCHES TO BE UNDERTAKEN.
- ALL EXISTING WASTEWATER SEWERS, RISING MAINS & WATERMANS TO BE ADEQUATELY PROTECTED. ANY WASTEWATER SEWERS, RISING MAINS & WATERMANS DAMAGED DURING THE COURSE OF CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT THEIR OWN COST.

## GENERAL WATERMAIN NOTES:

- ALL WATERMANS SHALL BE 100mm Ø PE100 WATERMAIN WITH AN SDR-11 OR SDR-17 RATING & COMPLY WITH SECTION 3.9 OF THE IRISH WATER CODE OF PRACTICE.
- ALL WATERMANS SHOULD BE LOOPED TO AVOID DEAD ENDS & SHALL BE BLUE IN COLOUR.
- ONLY USE ALL FLANGED T'S & ALL FLANGED VALVES.
- USE ANTI-CLOCKWISE (LEFT-HAND CLOSING) SLUICE VALVES.
- DO NOT USE DUCTILE IRON TAILS – USE FLANGE ADAPTORS WHERE APPLICABLE.
- ONLY USE SCREW TYPE HYDRANTS.
- THE DEPTH OF THE SLUICE VALVE SPINDLE CAP TO BE IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS STD-W-14 & STD-W-15.
- THE DEPTH OF THE HYDRANT OUTLET TO BE IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS STD-W-16 TO STD-W-19.
- APPROVED MARKER TAPE AS PER IRISH WATER CODE OF PRACTICE.
- NO PIPE, CABLE, CONDUIT OR OTHER SERVICE SHOULD BE LAID LONGITUDINALLY OVER THE LINE OF A WATERMAIN.
- ENSURE MARKER PLATES ARE IN PLACE.
- ALL WATERMANS SHALL BE TESTED IN ACCORDANCE WITH SECTION 4.11 OF THE IRISH WATER CODE OF PRACTICE IN THE PRESENCE OF A MEMBER OF STAFF FROM IRISH WATER OR THEIR AGENTS. DETAILS OF TESTING PROCEDURE TO BE DISCUSSED ON SITE WITH CONTRACTOR.
- ALL HYDRANTS AS PER 3.16.5 OF THE IRISH WATER CODE OF PRACTICE.
- PROVIDE THRUST BLOCKS AT ALL CHANGES IN DIRECTION.
- ALL CONNECTIONS POINTS TO BUILDING TO BE SERVICED WITH A MINIMUM OF 25mm OUTSIDE DIAMETER, 20mm INSIDE DIAMETER PE100 HDPE PIPE WITH AN SDR RATING OF 17.
- ALL WATERMANS, METERS, HYDRANTS & VALVES TO BE INSTALLED, TESTED & CLEANED IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
- BUTT FUSION WELDING & ELECTRO FUSION JOINTING OF PIPES SHALL ONLY BE CARRIED OUT BY TRAINED OPERATIVES IN POSSESSION OF A CURRENT TRAINING CERTIFICATE, USING FULLY AUTOMATIC APPROVED JOINTING MACHINE/RIGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE IDENTITY OF THE HDPE PIPELINE MANUFACTURER SHALL BE MADE KNOWN TO IRISH WATER PRIOR TO COMMENCEMENT OF THE INSTALLATION.
- ALL TESTING (PRESSURE CHLORINATION & BACTERIAL) TESTS TO BE IN ACCORDANCE WITH SECTION 4.10 OF THE IRISH WATER CODE OF PRACTICE. THE ENGINEER IS TO INSPECT THE PRESSURE TEST AFTER THE WATER CONTROL METRES ARE INSTALLED. ALL HYDRANTS & VALVES ARE TO BE INCLUDED IN THE TEST.
- ALL CERTIFICATION & TESTING (INCLUDING INDEPENDENT THIRD PARTY CERTIFICATION) TO BE PROVIDED TO CONFIRM QUALITY ASSURANCE COMPLIANCE. EACH JOINT SHALL BE CLEARLY MARKED WITH THE JOINT LOGGED AUTOMATICALLY ON THE JOINTING MACHINE.
- A PRINTOUT OF THE JOINT DETAILS, WITH A GPS LOCATION OF EACH JOINT, SHALL BE PROVIDED & RETAINED FOR QUALITY ASSURANCE PURPOSES.
- CONNECTIONS TO THE UIUCE ÉIREANN WATERMANS SHALL BE IN ACCORDANCE WITH THE CONDITIONS AS SET OUT IN THE CONNECTION OFFER AGREEMENT.
- WHEN EXISTING AC WATERMANS ARE PRESENT A SPECIFIC METHOD STATEMENT SHALL BE SUBMITTED TO IRISH WATER PRIOR TO WORKS TAKING PLACE & SUBJECT TO WRITTEN APPROVAL, DETAILING THE PROTECTION TO BE PUT IN PLACE TO EXISTING MAINS, METHOD OF REMOVAL OF EXISTING AC, METHOD OF DISPOSAL OF EXISTING AC & METHOD OF CONNECTION TO EXISTING AC.
- THE CONTRACTOR IS TO INCLUDE FOR THE EMPLOYMENT OF A CHARTERED ENGINEER WITH PI INSURANCE TO €6.5m TO WITNESS THE INSTALLATION OF ALL INFRASTRUCTURE, VALIDATE ALL TESTING & OTHER UIUCE ÉIREANN QA AS REQUIRED UNDER THE UIUCE ÉIREANN QUALITY ASSURANCE (QA) FIELD INSPECTION REQUIREMENTS MANUAL, SEPTEMBER 2017 VERSION 1. IT IS A REQUIREMENT OF THE MAIN CONTRACTOR TO AGREE THE REQUIRED QA WITH THE UIUCE ÉIREANN FIELD INSPECTORS, RETAIN ALL THE QA DOCUMENTS ON SITE & REPAIR ANY DEFECTS. THE MAIN CONTRACTORS CHARTERED ENGINEERS & THE MAIN CONTRACTOR ARE RESPONSIBLE FOR AGREEING ON SITE CONFORMANCE WITH UIUCE ÉIREANN PRIOR TO HAND OVER OF THE WORKS TO UIUCE ÉIREANN. THE PRICE FOR ALL THE ABOVE IS TO BE INCLUDED IN THE MAIN CONTRACTORS TENDER SUM.



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## NOTES:

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

| Issue register |          |                           |      |       |
|----------------|----------|---------------------------|------|-------|
| Rev.           | Date     | Description               | Own. | Chkd. |
| PL1            | 01.03.24 | PLANNING ISSUE            | GG   | TD    |
| PL2            | 31.07.24 | RSA COMMENTS INCORPORATED | GG   | TD    |
| PL3            | 09.08.25 | PLANNING UPDATE ISSUE     | GG   | TD    |
| PL4            | 19.08.25 | PLANNING UPDATE ISSUE     | GG   | TD    |
|                |          |                           |      |       |
|                |          |                           |      |       |
|                |          |                           |      |       |
|                |          |                           |      |       |

Status:

PLANNING

Drawing Title:

PROPOSED WATERMAIN LAYOUT

Date: 28.02.24

Scale: 1:500 @ A1 / 1:1000 @ A3

Drawn By: G.GOODSON

Checked By: T.DELANEY

Approved By: N.PATTERSON

Client:

LAOIS COUNTY COUNCIL

Job Description:

PROPOSED HOUSING DEVELOPMENT  
TYRRELLS LAND, PORTLOISE, CO. LAOIS

Project No:

23KK001

Drawing Ref:

C-010

Rev:

PL4

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