



LEGEND

| | |
|---------------------------------------|--|
| Red solid line | APPLICATION BOUNDARY |
| Green dashed line with '32' symbol | Ø32mm WATERMAIN |
| Blue dashed line with '54' symbol | Ø54mm WATERMAIN |
| Red dashed line with '75' symbol | Ø75mm WATERMAIN |
| Magenta dashed line with '100' symbol | Ø100mm WATERMAIN |
| Orange dashed line with '150' symbol | Ø150mm WATERMAIN |
| Purple dashed line with '150' symbol | Ø150mm WATERMAIN |
| Green dashed line with '200' symbol | Ø200mm WATERMAIN |
| Green dashed line with 'SV' symbol | SLUICE VALVES AS PER IRISH WATER STANDARD DETAIL STD-W-1415 |
| Green dashed line with 'AV' symbol | AIR VALVE AS PER IRISH WATER STANDARD DETAIL STD-W-2022 |
| Green dashed line with 'H' symbol | HYDRANTS AS PER IRISH WATER STANDARD DETAIL STD-W-1618 |
| Green dashed line with 'WCH' symbol | WASH OUT HYDRANTS AS PER IRISH WATER STANDARD DETAIL STD-W-30A |
| Green dashed line with 'M' symbol | SCOUR VALVE AS PER IRISH WATER STANDARD DETAIL STD-W-30 |
| Green dashed line with 'K' symbol | FLOW METER KIOSK AS PER STD-W-36 |
| Black dashed line with '9" symbol | 9" CAST IRON EXISTING WATERMAIN |
| Black dashed line with 'SV' symbol | EXISTING SLUICE VALVE |
| Black dashed line with 'H' symbol | EXISTING HYDRANT |

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| rev | date | description | by | chkd |
|-----|----------|-------------------------------|-----|------|
| 5 | 10-12-25 | LRD APPLICATION | GON | SWM |
| 4 | 07-11-25 | SODA APPLICATION | GON | SM |
| 3 | 05-11-25 | GENERAL APPLICATION | GON | EJD |
| 2 | 04-07-25 | WATERMAIN ARRANGEMENT UPDATED | GON | EJD |
| 1 | 01-07-25 | UPDATED LAYOUT | GON | EJD |
| 0 | 26-06-25 | LRD APPLICATION | PGC | ED |

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DUBLIN | CORK | GALWAY | WATERFORD

project ref: **SANDFORD ROAD, MILLTOWN**

drawing title: **SITE WATERMAIN LAYOUT**

client: **SANDFORD LIVING LIMITED**

purpose: P3 - PLANNING PERMISSION | acceptance: S - ISSUED

| designed by | author | ICD | scale | sheet size | A1P |
|-------------------------------------|--------|-----|-------|------------|-----|
| 190226-X-93-200-DTM-DR-DBFL-CE-1311 | | | 1:500 | A1P | 5 |

LIST OF IRISH WATER STANDARD DETAILS BROUGHT INTO THE CONTRACT

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|-----------|--|
| STD-W-04 | GENERAL PIPE CONNECTIONS (SHEET 1 OF 7) |
| STD-W-05 | GENERAL PIPE CONNECTIONS (SHEET 2 OF 7) |
| STD-W-06 | GENERAL PIPE CONNECTIONS (SHEET 3 OF 7) |
| STD-W-07 | GENERAL PIPE CONNECTIONS (SHEET 4 OF 7) |
| STD-W-08 | GENERAL PIPE CONNECTIONS (SHEET 5 OF 7) |
| STD-W-09 | GENERAL PIPE CONNECTIONS (SHEET 6 OF 7) |
| STD-W-10 | GENERAL PIPE CONNECTIONS (SHEET 7 OF 7) |
| STD-W-11 | TYPICAL SERVICE LAYOUT INDICATING SEPARATION DISTANCES |
| STD-W-12 | RESTRICTIONS ON TREES / SHRUBS PLANTING ADJACENT TO WATERMANS |
| STD-W-13 | TRENCH BACKFILL & BEDDING |
| STD-W-14 | SLUICE VALVE FOR DUCTILE IRON (D.I.) PIPE (<350MM DIA.) (SHEET 1 OF 2) |
| STD-W-15 | SLUICE VALVE FOR POLYETHYLENE (P.E.) PIPE (<350MM DIA.) (SHEET 2 OF 2) |
| STD-W-16 | ON-LINE HYDRANT FOR DUCTILE IRON (D.I.) PIPE (SHEET 1 OF 4) |
| STD-W-17 | OFF-LINE HYDRANT FOR DUCTILE IRON (D.I.) PIPE (SHEET 2 OF 4) |
| STD-W-18 | ON-LINE HYDRANT FOR POLYETHYLENE (P.E.) PIPE (SHEET 3 OF 4) |
| STD-W-19 | OFF-LINE HYDRANT FOR POLYETHYLENE (P.E.) PIPE (SHEET 4 OF 4) |
| STD-W-20 | ON-LINE AIR VALVE FOR DUCTILE IRON (D.I.) PIPE (SHEET 1 OF 4) |
| STD-W-21 | OFF-LINE AIR VALVE FOR DUCTILE IRON (D.I.) PIPE (SHEET 2 OF 4) |
| STD-W-22 | ON-LINE AIR VALVE FOR POLYETHYLENE (P.E.) PIPE (SHEET 3 OF 4) |
| STD-W-23 | OFF-LINE AIR VALVE FOR POLYETHYLENE (P.E.) PIPE (SHEET 4 OF 4) |
| STD-W-24 | PRESSURE REDUCING / SUSTAINING VALVE (P.R.V. / P.S.V.) CHAMBER |
| STD-W-26 | METER CHAMBER (Ø300MM DIA.) |
| STD-W-27 | MARKER POSTS / PLATES |
| STD-W-28 | WATER MAIN THRUST & SUPPORT BLOCKS |
| STD-W-30 | SCOUR CHAMBER & HEAD WALL ARRANGEMENTS |
| STD-W-30A | WASHOUT HYDRANT |
| STD-W-31 | TYPICAL DITCH / STREAM CROSSING FOR WATER MAIN |

- GENERAL NOTES**
- ALL DRAWINGS TO BE CHECKED BY CONTRACTOR ON SITE AND ENGINEER INFORMED OF DISCREPANCIES BEFORE WORK COMMENCES.
 - THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE ACCURACY OF EXISTING DRAINAGE LEVELS AND LOCATION OF EXISTING SERVICES ON SITE PRIOR TO COMMENCEMENT OF WORKS ON SITE.
 - ALL DIMENSIONS AND LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS ARE IN METERS AND ARE RELATED TO ORDNANCE DATUM. CO-ORDINATES RELATE TO ITM.
- DRAWING SPECIFIC NOTES**
- ALL WATERMANS VALVES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE IRISH WATER STANDARD DETAILS AND IRISH WATER CODE OF PRACTICE FOR WATER INFRASTRUCTURE. WATERMANS SHALL BE HDPE, PE100, SDR17 TO IS EN 12201 PART 2 2011 AND IS EN 12201-3 2011 ALL SLUING WATERMAIN MATERIAL TO ME ENGINEERS SPECIFICATION.
 - CONNECTION BETWEEN EXISTING AND PROPOSED WATERMANS TO BE CARRIED OUT IN ACCORDANCE WITH IRISH WATER STANDARD DETAILS STD-W-03 TO STD-W-10.
 - ANCHOR BLOCKS TO BE POSITIONED AT DEAD ENDS, TEES, BENDS AND AT EACH SIDE OF HYDRANTS AND VALVES IN ACCORDANCE WITH THE REQUIREMENTS OF IRISH WATER STANDARD DETAIL STD-W-28 (WATER MAIN THRUST AND SUPPORT BLOCKS). DISMANTLING JOINTS TO BE INSTALLED AT EACH SLUICE VALVE AS PER IRISH WATER STANDARD DETAIL STD-W-15. CONNECTION TO INDIVIDUAL HOUSES IN ACCORDANCE WITH IRISH WATER STD-W-03.
 - INSTALLATION OF SLUICE VALVES, AIR VALVES AND HYDRANTS SHALL BE IN ACCORDANCE WITH IRISH WATER'S STANDARD DETAILS STD-W-14 TO STD-W-23.
 - MARKER POSTS AND PLATES ARE TO BE PROVIDED IN ACCORDANCE WITH IRISH WATER STANDARD DETAIL STD-W-27.
 - CONNECTION TO INDIVIDUAL HOUSES IN ACCORDANCE WITH IRISH WATER STD-W-03.
 - CONNECTION TO EXISTING WATERMANS TO BE COORDINATED BY THE CONTRACTOR WITH IRISH WATER AND/OR THE LOCAL AUTHORITY.
 - CONTRACTOR TO LIAISE WITH IRISH WATER AND / OR THE LOCAL AUTHORITY AS REQUIRED REGARDING TESTING, CLEANSING AND STERILISATION OF WATERMANS.
 - WATERMANS TO BE PRESSURE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF IRISH WATER AND IGA 4-01-03. GUIDE TO TESTING OF PRESSURE PIPES AND FITTINGS FOR USE BY PUBLIC WATER SUPPLIERS, OCTOBER 2015. A FORMAL TEST REPORT SHALL BE SUBMITTED TO THE ENGINEER DETAILING THE TEST CARRIED OUT.
 - AT 90 DEG. TURNS USE 2 NO. 45 DEG. BENDS
 - COVER TO WATERMAIN TO BE 900MM
 - HYDRANT OUTLET TO BE 200MM BELOW GROUND LEVEL UNLESS REQUESTED OTHERWISE.
 - WHERE COVER TO PIPE IS LESS THAN 1200MM IN TRAFFICED AREAS, ENCASE PIPE IN 150 MM CONCRETE WITH MOVEMENT JOINTS
 - CONTRACTOR SHALL SATISFY THEMSELVES AS TO THE ACCURACY OF EXISTING SERVICES INFORMATION AND THE LOCATION OF EXISTING SERVICES ON SITE PRIOR TO COMMENCING INSTALLATION OF WATERMANS.
 - WATERMAIN DIAMETERS SHOWN ON PLAN REFER TO MINIMUM INTERNAL DIAMETER.