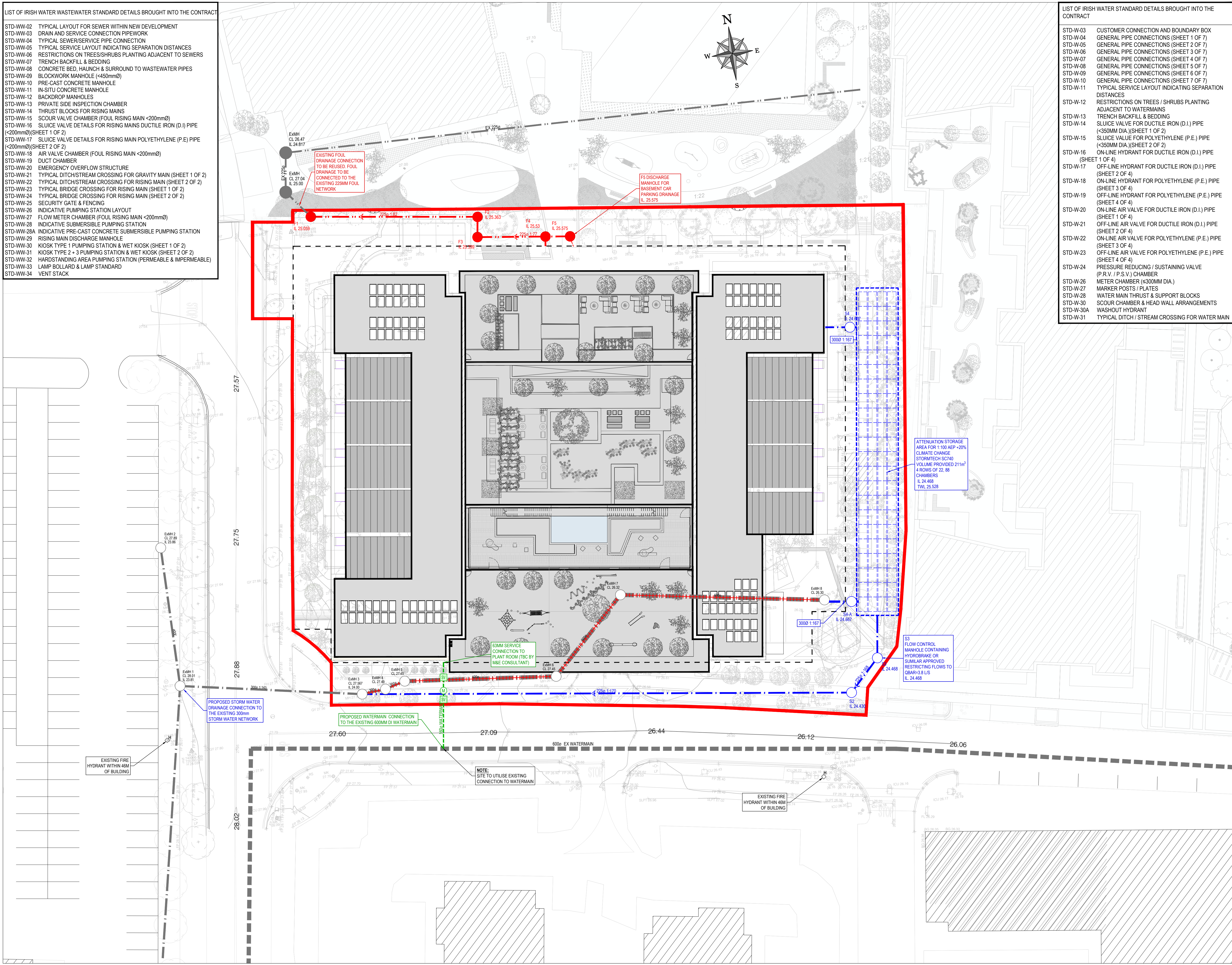
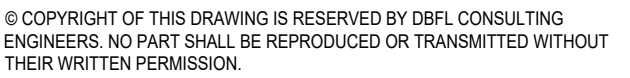


STD-WW-02	TYPICAL LAYOUT FOR SEWER WITH NEW DEVELOPMENT
STD-WW-03	DRAIN AND SERVICE CONNECTION PIPEWORK
STD-WW-04	TYPICAL SERVICE/SERVICE PIPE CONNECTION
STD-WW-05	TYPICAL SEWER LAYOUT INDICATING SEPARATION DISTANCES
STD-WW-06	RESTRICTIONS ON TREES/SHRUBS PLANTING ADJACENT TO SEWERS
STD-WW-07	TRENCH BACKFILL & BEDDING
STD-WW-08	CONCRETE BED, HAUNCH & SURROUND TO WASTEWATER PIPES
STD-WW-09	BLOCKWORK MANHOLE (<450mmØ)
STD-WW-10	PRE-CAST CONCRETE MANHOLE
STD-WW-11	IN-SITU CONCRETE MANHOLE
STD-WW-12	BACKDROP MANHOLES
STD-WW-13	PRIVATE SITE INSPECTION CHAMBER
STD-WW-14	THRUST BLOCKS FOR RISING MAINS
STD-WW-15	SCOUR VALVE CHAMBER (FOUL RISING MAIN <200mmØ)
STD-WW-16	SLUICE VALVE DETAILS FOR RISING MAINS DUCTILE IRON (D.I.) PIPE (<200mmØ) (SHEET 1 OF 2)
STD-WW-17	SLUICE VALVE DETAILS FOR RISING MAIN POLYETHYLENE (P.E.) PIPE (<200mmØ) (SHEET 2 OF 2)
STD-WW-18	AIR VALVE CHAMBER (FOUL RISING MAIN <200mmØ)
STD-WW-19	DUCT CHAMBER
STD-WW-20	EMERGENCY OVERFLOW STRUCTURE
STD-WW-21	TYPICAL DITCH/STREAM CROSSING FOR GRAVITY MAIN (SHEET 1 OF 2)
STD-WW-22	TYPICAL DITCH/STREAM CROSSING FOR RISING MAIN (SHEET 2 OF 2)
STD-WW-23	TYPICAL BRIDGE CROSSING FOR RISING MAIN (SHEET 1 OF 2)
STD-WW-24	TYPICAL BRIDGE CROSSING FOR RISING MAIN (SHEET 2 OF 2)
STD-WW-25	SECURITY GATE & FENCING
STD-WW-26	INDICATIVE PUMPING STATION LAYOUT
STD-WW-27	FLOW METER CHAMBER (FOUL RISING MAIN <200mmØ)
STD-WW-28	INDICATIVE SUBMERSIBLE PUMPING STATION
STD-WW-28A	INDICATIVE PRE-CAST CONCRETE SUBMERSIBLE PUMPING STATION
STD-WW-29	RISING MAIN DISCHARGE MANHOLE
STD-WW-30	KIOSK TYPE 1 PUMPING STATION & WET KIOSK (SHEET 1 OF 2)
STD-WW-31	KIOSK TYPE 2 + 3 PUMPING STATION & WET KIOSK (SHEET 2 OF 2)
STD-WW-32	HARDSTANDING AREA PUMPING STATION (PERMEABLE & IMPERMEABLE)
STD-WW-33	LAMP BOLLARD & LAMP STANDARD
STD-WW-34	VENT STACK



LIST OF IRISH WATER STANDARD DETAILS BROUGHT INTO THE CONTRACT	
STD-W-03	CUSTOMER CONNECTION AND BOUNDARY BOX
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 WATERMAINS
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 (<300MM DIA.)
STD-W-27	MARKER POSTS / PLATES
STD-W-28	WATER MAIN THREAT & 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



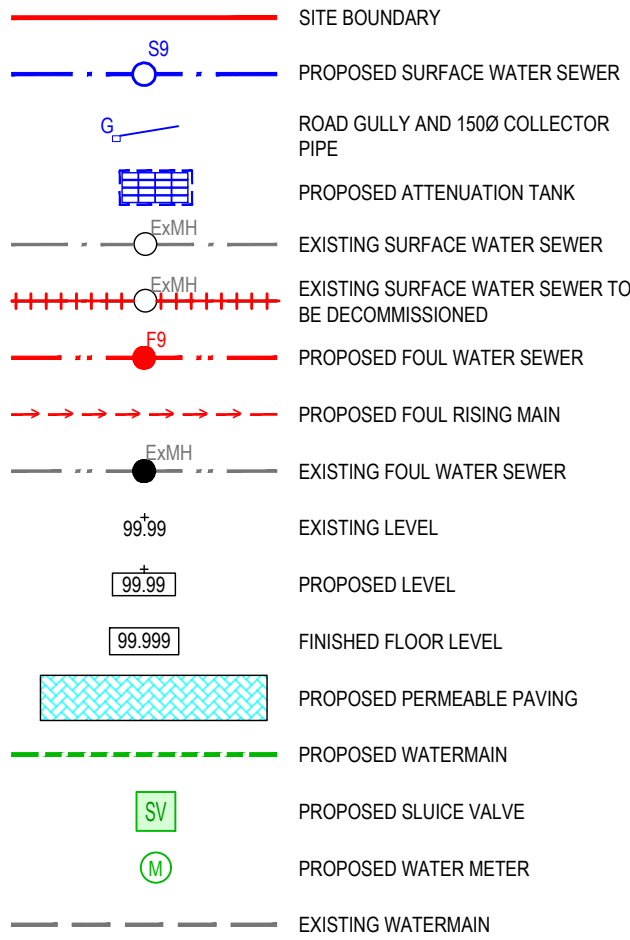
NO CHANGES OF WHATSOEVER NATURE ARE TO BE MADE TO ANY DETAILS SET OUT OR CONTAINED IN ANY DBFL SPECIFICATIONS OR DRAWINGS UNLESS THE EXPRESS CONSENT HAS BEEN OBTAINED IN ADVANCE, IN WRITING, FROM DBFL.

NOTES:

GENERAL NOTES

- ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CIVIL ENGINEERING SPECIFICATION AND STANDARD DRAWING FOR THE PROJECT.
 - ALL DIMENSIONS IN METRES UNLESS SPECIFIED OTHERWISE.
 - ALL CO-ORDINATES ARE TO IRISH TRANSVERSE METHOR.
 - THE CONTRACTOR SHALL PROVIDE A DRAINAGE NETWORK TO COMPLY WITH ALL TEMPORARY TRAFFIC & OPERATIONS MANAGEMENT SHALL TEMPORARILY FULFIL THE CIVIL ENGINEERING SPECIFICATION REQUIREMENTS FOR THE PROJECT.
 - THE CONTRACTOR MUST USE DIRECTLY WITH LOCAL AUTHORITY DEPARTMENTS AS DIRECTED IN THE CIVIL ENGINEERING SPECIFICATION FOR THE PROJECT.
 - ALL VEHICULAR & PEDESTRIAN, CYCLE & PRIVATE ACCESSES WITHIN AND SURROUNDING THE WORKS EXTENTS MUST BE MAINTAINED THROUGHOUT THE WORKS IN ACCORDANCE WITH THE CONTRACTORS APPROVED TEMPORARY TRAFFIC MANAGEMENT PLAN & CONSTRUCTION MANAGEMENT PLAN.
- 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 METERS AND ARE REFERRED TO ORDINANCE DATUM. CO-ORDINATES RELATED TO ITM.
 - ALL POLE SEWERS, MANHOLES AND CONNECTIONS TO BE PROTECTED AGAINST COLLAPSE BY THE INSTALLATION OF PRACTICE FOR WASTEWATER INFRASTRUCTURE AND IRISH WATER WASTEWATER INFRASTRUCTURE STANDARD DETAILS.
 - FOR SEWER LAYOUTS TO BE INSTALLED TO 100mm UPGRADE TO EN ISO 14691/2009/21, STIFFNESS CLASS BKNM2 IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
 - FOR 750MM DIA. 8 BAR CONCRETE TO EN ISO 1918 & IS 2004 OR UP TO EN ISO 14691/2009/21, STIFFNESS CLASS BKNM2 MIN. JETTING CAPABILITY OF 0.8 BAR IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
 - ALL PUBLIC SURFACE WATER SEWERS TO BE MINIMUM 225 DIA. CONCRETE TO EN ISO 1918 & IS 2004 OR UP TO EN ISO 14691/2009/21, STIFFNESS CLASS BKNM2 IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
 - ALL UNDERGROUND WATER CONNECTIONS TO BE MINIMUM 150mm DIA. CONCRETE TO EN ISO 14691/2009/21 IN ACCORDANCE WITH THE GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS.
 - LOCATION AND INVERT LEVELS OF EXISTING MANHOLES OR OUTFALL POINTS WHERE APPLICABLE TO BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF DRAINAGE WORKS.
 - ALL COVER LEVELS TO MATCH FINDING
 - VERGEMENT GRADIENTS TO FOLLOW CYCLOTRACK LEVELS UNLESS OTHERWISE STATED.
 - CONTRACTOR TO INCLUDE FOR CCTV SURVEY OF ALL SEWERS OVER COVER.
 - ALL POLE SEWERS TO BE AIR TESTED IN ACCORDANCE WITH IRISH WATER SPECIFICATIONS.
 - ALL GULLIES TO BE SET INTO GRASS AREAS THEY SHALL BE SURROUNDED BY A CONCRETE PAVEMENT, 200MM ALL ROUND AND 100MM DEEP FORMED WITH C20/25 CONCRETE, 20MM GRANULATE SURF, BEDDING AND SUB-BASE.
 - CONTRACTOR TO ENSURE GULLIES ARE PROVIDED AT LOW POINTS.
 - ALL MAINLAINS TO BE FITTED IN ACCORDANCE WITH IRISH WATERS CODE OF PRACTICE FOR WATER INFRASTRUCTURE

LEGEND



P01	14-12-21	SHD PLANNING STAGE 2		JLB	BCM
rev	date	description		by	chkd.
client approval		A - Approved			
		B - Approved with comments			
		C - Do not use			
suitability		issue purpose			
S0 - WORK IN PROGRESS		PLANNING			



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project re

ROSEMOUNT HOUSE

SITE SERVICES LAYOUT

client

WALLS CONSTRUCTION LTD

designed by BK	author JVS	scale 1:250	sheet size A1
drawing no. 210100-DBFL-CS-SP-DR-C-1011			revision P01