ALL RAINWATER PIPES TO BE CONNECTED TO DRAINAGE NETWORK & DISCHARGE TO SOAKAWAY TO REAR GARDEN OF EACH INDIVIDUAL DWELLING.

INDIVIDUAL HOUSE SOAKAWAY CONSISTING OF 1.2MØ CONCRETE RING PLACED IN A 2.4M SQUARE PIT SURROUNDED WITH POROUS MATERIAL WITH AN EFFECTIVE DEPTH OF 0.6m TYPICAL

NOTE: ALL FOUL NETWORK DETAILS AS PER DOCUMENT IW-CDS-5030-01 ISSUED BY IRISH WATER.

FOUL LINE AS SHOWN ON IW LAYOUT BUT NOT LOCATED ON SITE INDICATED THUS

HYDROBRAKE MANHOLE:
Q_{MAX}= 4.21 l/s
MAXIMUM DISCHARGE @ 1 TO 100 YEAR EVENT = 8.21 l/s
MAX. VOLUME RETAINING = 255.5m³
ATTENUATION VOLUME PROVIDED = 255.7m³
MAX. WATER LEVEL = +88.900m
HYDROBRAKE TYPE Md6 Ø116mm

HYDROBRAKE MANHOLE:
Q_{MAX}= 1.74 l/s
MAXIMUM DISCHARGE @ 1 TO 100 YEAR EVENT = 3.40 l/s
MAX. VOLUME RETAINING = 109.6m³
ATTENUATION VOLUME PROVIDED = 110.4m³
MAX. WATER LEVEL = +90.550m
HYDROBRAKE TYPE Md6 Ø75mm

PETROL INTERCEPTOR - TYPE KLARGESTER NSBP006

OFF-LINE STORMTECH (MODEL: SC740) UNDERGROUND ATTENUATION TANK.
TANK AREA SIZE 9.5x16.4m.
OVERALL DEPTH OF TANK 1.06m
(INCLUDING STONE ABOVE AND BELOW CHAMBERS).
TANK IL +89.450

DOWNSTREAM DEFENDER TO BE INSTALLED HERE

SPUR LEFT FOR FUTURE ATTENUATION CONNECTION

DISCHARGE OF STORM WATER INTO TRIOGUE RIVER. HEADWALL DETAIL TO LCC REQUIREMENTS

DISCHARGE OF STORM WATER LEVEL TRIOGUE RIVER @ 1 AT 1000Y FLOOD EVENT +89.34

NEW CONNECTION TO EXISTING FOUL PUBLIC NETWORK AT EX FMH2.
INVERT LEVEL OF MANHOLE = +87.70m
INVERT LEVEL OF NEW CONNECTION = +87.78m

FOUL SEWER LINE AS INDICATED ON EXISTING UTILITIES DRAWINGS, BUT NOT FOUND DURING SURVEY ON 21.04.2020 INDICATED THUS

PROPOSED Ø300 FOUL SEWER DIVERSION BETWEEN EX FM AND EX FM2 TO ALLOW MIN. CLEARANCE OF MIN. 3m FROM PROPOSED NEW STRUCTURE

EXISTING FOUL LINE AND MANHOLES AS SURVEYED ON 21.04.2020

ONLINE STORMTECH (MODEL: SC740) UNDERGROUND ATTENUATION TANK.
TANK AREA SIZE 13.4x26.7m.
OVERALL DEPTH OF TANK 1.06m
(INCLUDING STONE ABOVE AND BELOW CHAMBERS)
TANK IL +87.80

PETROL INTERCEPTOR - TYPE KLARGESTER NSBE015

PUBLIC PARK

TRIOGUE RIVER

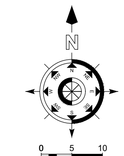
RAILWAY EMBANKMENT

STATION

CHURCH

RAILWAY STREET

MILLBROOK



NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEERS & ARCHITECT'S DRAWINGS.FIGURED DIMENSIONS ONLY (NOT SCALING) TO BE USED. WHERE A CONFLICT OF INFORMATION EXISTS OR IF IN ANY DOUBT - ASK.
2. CONSULTANTS TO BE INFORMED IMMEDIATELY OF ANY DISCREPANCIES BEFORE WORK PROCEEDS.

NOT FOR CONSTRUCTION

DRAINAGE LEGEND

EX. FOUL MANHOLE
EX. FOUL PIPE 225Ø@1:150
NEW FOUL MANHOLE F1.0
NEW FOUL PIPE 225Ø@1:150
EX. SURFACE WATER MANHOLE
EX. SURFACE WATER PIPE 225Ø@1:150
NEW SURFACE WATER MANHOLE S1.0
NEW SURFACE WATER PIPE 225Ø@1:150
INDIVIDUAL PROPERTY FOUL CONNECTION WITH BOUNDARY MH
ROAD GULLEY RG
PROPOSED BUILDINGS
PROPOSED FINISHED FLOOR OR ROAD LEVELS +100.00

FOUL DRAINAGE NOTES:

1. THE MINIMUM SIZE FOR A GRAVITY FOUL SERVICE CONNECTION SHALL BE 100mm DIAMETER.
2. THE MINIMUM SIZE OF GRAVITY FOUL SEWER SHALL BE 225mm DIAMETER IN GENERAL.
3. THE MINIMUM SIZE FOR RISING MAINS SHALL NOT BE LESS THAN 80mm & THE DESIRED MINIMUM SIZE OF RISING MAIN SHALL BE 100mm DIAMETER.
4. PIPE MATERIALS TO BE AS FOLLOWS
   4.1. CONCRETE SEWER PIPES WITH SPIGOT AND SOCKET JOINTS AND RUBBER RING FITTINGS SHALL COMPLY WITH IS EN 1916 (2002), BS 5911, PART 1 (2002-2010) AND IS 6 (2004) OR EQUIVALENT STANDARD, STRENGTH CLASS 120 WITH MINIMUM CRUSHING LOADS IN ACCORDANCE WITH TABLE 8 OF BS 5911-1 (2002-2010). ALL PIPES AND FITTINGS SHALL HAVE GASKET TYPE JOINTS OF SPIGOT AND SOCKET OR REBATED FORM. (PIPE DIAMETERS 225mm AND ABOVE)
   4.2. THERMOPLASTIC STRUCTURED WALL PIPES SHALL COMPLY WITH THE PROVISIONS OF IS EN 13476 (2007/2009). PIPES TO BE OF STIFFNESS CLASS 8KN/M₂ AND TO BE CAPABLE OF DEMONSTRATING A JETTING RESISTANCE OF 2,600 PSI (180 BAR) WITHOUT DAMAGE WHEN TESTED IN ACCORDANCE WITH SECTION 3.3 OF WIS 4-35-01 (2008). (SEWER DIAMETERS 225MM UP TO 450MM, SERVICE CONNECTIONS OF 100MM DIAMETER).
   4.3. UNPLASTICISED PVC PIPES AND FITTINGS SHALL COMPLY WITH THE PROVISIONS IS EN 1401 2009/2012. PIPES TO BE APPLICATION AREA CODE "UD", STIFFNESS LASS 8KN/M₂. PROVISION FOR JETTING SHALL BE BASED ON THE WRC SEWER JETTING CODE OF PRACTICE, JUNE 1997. PIPES TO BE CAPABLE OF RESISTING A MAXIMUM JETTING PUMP PRESSURE OF 2,600PSI (180 BAR) WITHOUT DAMAGE. (SEWER DIAMETERS 225MM UP TO 450MM, SERVICE CONNECTIONS OF 100MM DIAMETER).
5. EACH PROPERTY SHALL HAVE A SEPARATE WASTE WATER SERVICE CONNECTION. A CONNECTION SHALL NOT BE TAKEN FROM AN EXISTING SERVICE CONNECTION.
6. AN INSPECTION CHAMBER SHOULD BE LOCATED AT OR WITHIN 1m OF THE PROPERTY BOUNDARY AT THE UPSTREAM END OF EACH SERVICE CONNECTION ON THE PRIVATE SIDE OF THE CURTILAGE, IF PRACTICABLE, CONSULT WITH IRISH WATER ON ALTERNATIVE LOCATIONS.
7. ANY PIPE AND ASSOCIATED ACCESS UPSTREAM OF THE POINT OF CONNECTION TO A PUBLIC SEWER WITHIN THE CONFINES OF A PRIVATE BOUNDARY IS A PRIVATE DRAIN AND SHOULD BE CONSTRUCTED IN ACCORDANCE WITH BUILDING REGULATIONS.
8. CONCRETE SURROUND TYPE 'D' IN ACCORDANCE WITH IRISH WATER STANDARD DETAIL DRAWING 'STD-WW-08' (IW-CDS-5030-01 REV 03 DEC 2017) SHALL BE PROVIDED WHERE MINIMUM PIPE COVER OF 1.2M ON ROADWAYS IS NOT ACHIEVED.
9. ABSOLUTE MINIMUM DEPTH OF COVER ABOVE EXTERNAL CROWN OF THE PIPE SHALL BE 750MM.
10. FOR ALL OTHER DETAILS CONTRACTOR TO FOLLOW 'WASTEWATER INFRASTRUCTURE STANDARD DETAILS, CONNECTIONS AND DEVELOPER SERVICES. CONSTRUCTION REQUIREMENTS FOR SELF-LAY DEVELOPMENTS. DECEMBER 2017 (REVISION 03) DOCUMENT IW-CDS-5030-01 ISSUED BY IRISH WATER.
11. EXISTING MH LVLS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION

ISSUE	DATE	DESCRIPTION	DRW	ORG
PL06	02.06.20	REVISED FOR PLANNING	A.W	J.R
PL05	29.05.20	REVISED FOR PLANNING	A.W	J.R
PL04	26.05.20	REVISED AS PER IRISH WATER COMMENTS	A.W	J.R
P02	21.04.20	FOUL SEWER LINE SURVEY REVISED	A.W	J.R
P01	08.04.20	FOUL SEWER SURVEY UPDATED	A.W	J.R

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CLIENT: ARDAIN DEVELOPMENTS

PROJECT: PROPOSED RESIDENTIAL DEVELOPMENT AT RAILWAY ST. PORTLAOISE, CO. LAOIS

TITLE: FOUL AND STORM DRAINAGE LAYOUT

DATE: 27.02.2020
SCALE @ A1: 1:500
DRAWING TITLE: 17.168-210
REVISION: PL06

DWG LOCATION: Z:\DRAWINGS\2017\17.168 RAILWAY STREET SITE\01 JRASSC\00 CURRENT\17.168 CIVIL3D

ORIGINAL SIZE - A1 / 0mm / 50mm / 100mm / 150mm / 200mm