NEW SURFACE WATER MANHOLE				
MANHOLE	COVER LEVEL	INVERT LEVEL	'E' EASTING	'N' NORTHING
Ex. S 790	+44.08	IN FROM S1.4: +42.88	717725.8801	728980.5629
S1.0	+44.75	OUT: +43.55	717772.7152	728953.9161
S1.1	+44.84	IN FROM S1.0: +43.48 OUT: +43.48	717763.0919	728948.3473
S1.2	+44.59	IN FROM S1.1: +43.09 OUT: +43.09	717750.6581	728973.7749
S1.3	+44.59	IN FROM S1.2: +43.06 OUT: +43.06	717746.7607	728974.7507
S1.4	+44.54	IN FROM S1.3: +42.96 OUT: +42.96	717732.7842	728970.0202

NEW FOUL DRAINAGE MANHOLE				
MANHOLE	COVER LEVEL	INVERT LEVEL	'E' EASTING	'N' NORTHING
F1.0	+44.89	OUT: +43.30	717758.8714	728945.8350
F1.1	+44.59	IN FROM F1.0: +43.11 OUT: +43.11	717748.0812	728972.6134
F1.2	+44.65	IN FROM F1.1: +43.00 IN FROM F2.0: +43.23 OUT: +43.00	717733.1405	728966.6366
F1.3	+44.31	IN FROM F1.2: +42.88	717715.2036	728963.0993
F2.0	+44.93	OUT: +43.44	717734.6111	728937.6594

NOTE:
EXISTING SEWER TO BE UPGRADED BY IRISH WATER TO 450 DIAMETER FROM NEW F1.5 TO PROPOSED IW UPGRADE @LARCHFIELD RD. (80M APPROXIMATE) AND FUNDED BY DEVELOPER

GROUND LEVEL BUILDING OUTLINE

11cu.m PROPRIETARY RAINWATER HARVESTING TANK

INDICATIVE LOCATION OF SERVICE CONNECTION TO INTERNAL NETWORK

236 BED UNITS (1 no. RESIDENT PER UNIT)

CONNECTION TO PUBLIC SURFACE WATER SYSTEM

EXISTING FOUL NETWORK DOWNSTREAM OF CONNECTION POINT TO BE UPGRADED BY IRISH WATER AND FUNDED BY DEVELOPER

MANHOLE WITH MD-SHE-0060-1600-1000-1600 HYDROBRAKE (60mm diam.) LIMITING MAX DISCHARGE TO QBAR = 1.6l/s

CONNECT TO 225mm VITRIFIED CLAY @ I.L = 42.65

100mm HDPE WATERMAIN TO CONNECT TO 6" CAST IRON WATERMAIN - SIZING BASED ON 241 BED UNITS EQUIVALENT TO 90 RESIDENTIAL DWELLINGS PER SECTION 3.7 OF WATER CODE OF PRACTICE

FIN DRAIN OVER FLOW FROM PERMEABLE PAVING IL +43.375

PERMEABLE PAVING BUILDUP TO ATTENUATE RUNOFF PRODUCED ON PARKING BAY AND ROAD SURFACE

ATTENUATION TANK WITH 171m³ STORAGE VOLUME TO PROVIDE 150m³ IN CRITICAL EVENT. EITHER 0.9m dp x 10m x 19m CONCRETE TANK OR EQUIVALENT LINED STORMTECH SYSTEM TO BE PROVIDED. IL: +43.09

NOTE:
LAUNDRY BUILDING WITH NO RESIDENTIAL UNITS

NOTE:
ROOF TO DRAIN TO DOWN PIPES LOCATED ON COURTYARD SIDE OF BUILDINGS

Ex.F 7902 CL:+43.71 IL:+42.25

225mm VITRIFIED CLAY

Ex.F 7904 CL:+44.09 IL:+43.23

Ex.S 7901 CL:+44.68 IL:+42.68

EX. S 7900

6" CAST IRON

100mm NOMINAL BORE

100mm HDPE WATERMAIN

Ex.F 7901 CL:+45.56 IL:N/A

Ex.S 8814 CL:+45.91 IL:+44.31

Ex.F

DRAINAGE & WATERMAINS PLAN LAYOUT

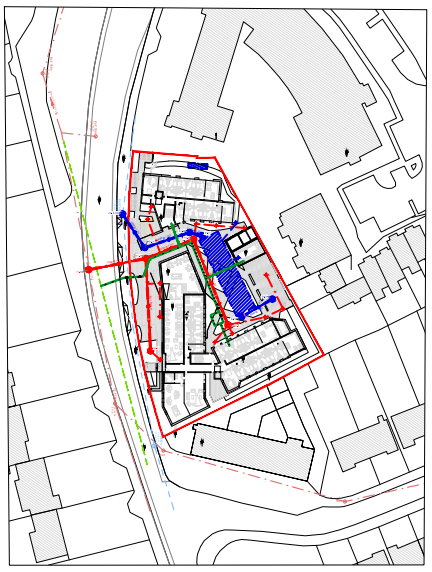
SCALE @ A1: 1:250
SCALE @ A3: 1:500

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.

CIVIL LEGEND

- EX. FOUL MANHOLE — Ex.F
- EX. FOUL PIPE — PIPE DESCRIPTION
- NEW FOUL MANHOLE — F
- NEW FOUL PIPE — PIPE DESCRIPTION
- EX. SURFACE WATER MANHOLE — Ex.S
- EX. SURFACE WATER PIPE — PIPE DESCRIPTION
- NEW SURFACE WATER MANHOLE — S
- NEW SURFACE WATER PIPE — PIPE DESCRIPTION
- EX. COMBINED MANHOLE — Ex.C
- EX. COMBINED PIPE — PIPE DESCRIPTION
- NEW COMBINED MANHOLE — C
- NEW COMBINED PIPE — PIPE DESCRIPTION
- NEW RISING MAIN — PIPE DESCRIPTION
- DECOMMISSIONED LINE — PIPE DESCRIPTION
- FOUL ACCESS JUNCTION — AJ
- SURFACE ACCESS JUNCTION — AJ
- RAINWATER PIPE — RWP
- SOIL VENT PIPE — SVP
- ROAD GULLEY — RG
- BACK INLET GULLEY TRAP — BIGT
- FOUL RODDING EYE — RE
- SURFACE RODDING EYE — RE
- GULLEY TRAP — GT
- SITE BOUNDARY



KEY PLAN

SCALE @ A1: 1:1500
SCALE @ A3: 1:3000

ISSUE	DATE	DESCRIPTION	DRN.	P.E. / P.D.
PL3	15.02.22	RED LINE BOUNDARY REVISED	MC / TMH	BM / BM
PL2	08.02.22	REVISED PLANNING APPLICATION	MC / TMH	BM / BM
PL1	01.07.20	ISSUE FOR IRISH WATER REVIEW	TMH / TMH	TMH / BM

DRAWING STAGE
PLANNING

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CLIENT
ORCHID RESIDENTIAL LTD

PROJECT TITLE
GOATSTOWN STUDENT ACCOMMODATION

BM PROJECT No.
19289

MODEL REFERENCE
19289-BMD-ZZ-XX-DR-C-1020

MODEL REV. | SUITABILITY

DRAWING TITLE
DRAINAGE & WATERMAINS PLAN LAYOUT

DRAWING No.
19289-BMD-ZZ-XX-DR-C-1020

ISSUE
PL3