A0

LEGEND:

- EXISTING SURFACE WATER DRAINAGE
- NEW SW DRAINAGE
- EXISTING FOUL SEWER
- NEW FOUL SEWER
- EXISTING WATERMAIN
- NEW WATERMAIN WITH PROPOSED SLUICE VALVES AND FIRE HYDRANTS (SV, HYDRANT)
- DENOTED PROPOSED BUILDING
- TOPOGRAPHICAL SURVEY INFORMATION SHOWN FOR REFERENCE

PUMP STATION MANHOLE WITH DUTY STANDBY/DUTY ASSIST OPERATION PUMPS CL=95.50 IL=91.70

5.2x5.2x1.0dp 24hr FOUL STORAGE TANK

FMH25 CL=95.34 IL=91.70

SMH09 CL=95.20 IL=94.02

SMH10 CL=95.40 IL=93.85

OUTFALL TO EXISTING OPEN CHANNEL CL=95.20 IL=93.77

FMH24 CL=95.00 IL=91.85

SMH08 CL=93.90 IL=94.23

FMH19 CL=95.90 IL=92.08

PROPOSED 9m WIDE ACCESS ROAD WITH 1.8m GRASS VERGING & 1.5m WIDE FOOTPATHS THROUGHOUT.

SMH07 CL=97.70 IL=94.50

FMH18 CL=97.70 IL=92.72

MH F05 CL=98.50 IL=93.85

MH F06 CL=97.85 IL=92.85

NEW MH SW25 CL=98.52 IL=94.75

SURFACE WATER SPUR FOR POSSIBLE FUTURE DEVELOPMENT

NEW MH SW26 CL=97.85 IL=94.55

SMH06 CL=97.78 IL=94.59

FUTURE POTENTIAL CONNECTIVITY TO ADJACENT LANDS.

NOTE: ROAD TO ABUT BOUNDARY.

MH F04 CL=98.80 IL=95.80

FMH17 CL=97.78 IL=92.94

FOUL SPUR FOR POSSIBLE FUTURE DEVELOPMENT. ASSUMED FLOW 4 l/s

NEW MH SW24 CL=98.300 IL=95.410

SMH05 CL=97.00 IL=94.84

FMH16 CL=97.00 IL=93.56

NEW MH SW6 CL=99.150 IL=97.450

NEW MH SW7 CL=99.000 IL=97.500

NEW MH SW8 CL=98.800 IL=97.125

LANDSCAPING

1.2m PERIMETER PATH

FMH14 CL=97.40 IL=93.90

SMH04 CL=97.40 IL=95.14

SMH03 CL=97.70 IL=95.26

MH F03 CL=99.50 IL=97.50

NEW MH SW4 CL=98.100 IL=97.400

NEW MH SW5 CL=100.750 IL=98.420

NEW MH SW9 CL=98.650 IL=96.930

NEW MH SW11 CL=99.100 IL=97.500

CARS IN UPPER CARPARK

ROLLD SHUTTER DOOR

NEW MH SW10 CL=98.200 IL=96.730

NEW HYDROBRAKE MH SW23 CL=98.700 HYDROBRAKE IL=95.865 FLOW RESTRICTED TO: Q=5.76 l/s

WAREHOUSE (20m CLEAR INTERNAL HEIGHT) FFL=+99.40

NEW MH SW4 CL=100.750 IL=98.790

NEW MH SW8 CL=99.400 IL=96.850

Area Hatched Grey as per Granted Planning Permission Reg. Ref. SD18A/0265

Area Hatched Grey as per Granted Planning Permission Reg. Ref. SD18A/0265

PROPOSED 7.5m WIDE ACCESS ROAD WITH 1.8m GRASS VERGING & 1.5m WIDE FOOTPATHS THROUGHOUT.

NEW MH SW5 CL=99.400 IL=96.800

NEW MH SW2 CL=99.100 IL=97.050

FMH13 CL=00.00 IL=95.50 (TBC)

SMH02 CL=99.15 IL=95.50

NEW MH SW3 CL=100.750 IL=96.325

NEW MH SW20 CL=98.340 IL=96.260

MH F01 CL=99.25 IL=96.35

10NO. VAN LOADING LEVEL ENTRY DOORS

3NO. VANS LOADING

CARS OUT UPPER CARPARK

NEW MH SW3 CL=99.750 IL=96.870

WATER HOLDING TANK FOR FIRE FIGHTING PURPOSES (SPRINKLER TANK)

PROPOSED UNDERGROUND 1940m³ STORMTECH ATTENUATION SYSTEM BASE OF TANK @ +95.70 HIGH WATER LEVEL @ +97.95

NEW MH SW22 CL=98.650 IL=96.110

KLARGESTER CLASS 1 BYPASS PETROL INTERCEPTOR REF: NSBE030 100mm INTERNAL DROP

SURFSEP SILT TRAP SWORDS OR SIMILAR APPROVED

NEW MH SW21 CL=98.500 IL=96.240

NEW MH SW19 CL=99.100 IL=96.400

10NO. VAN PARKING SPACES

VAN PARKING SPACES: 7.5m x 2.5m

NEW MH SW16 CL=99.150 IL=96.650

MH F02 CL=99.60 IL=97.42

NEW MH SW3 CL=99.750 IL=96.870

FUTURE POTENTIAL CONNECTIVITY TO ADJACENT LANDS.

NOTE: ROAD TO ABUT BOUNDARY.

HGV TURNABOUT LOCATION

FMH12 CL=100.00 IL=95.50

98.60

98.00

MC-4500 CHAMBERS SHALL MEET ASTM F 2418-05"STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".

ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL AROUND CLEAN, CRUSHED, ANGULAR STONE IN A & B LAYERS

GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES. LESS THAN 35% FINES. COMPACT IN 150mm LAYERS.

NOTE: COVER TO PROPRIETARY ATTENUATION SYSTEM AS PER MANUFACTURER SPECIFICATION, I.E. 600mm MIN, 2.4m MAX

2 - 5 CM WASHED, CRUSHED, ANGULAR STONE

MIN GL. 98.35

CONCRETE YARD

97.95

600mm MIN

400

1525

300

95.70

230

305min

MC-4500 END CAP

ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL AROUND CLEAN, CRUSHED, ANGULAR STONE IN A & B LAYERS

STORMTECH CHAMBER DETAIL AT SECTION A-A
(NTS)

TRAFFICKED AREA

NON TRAFFICKED AREA

TOPSOIL & SEEDED TO Cl.612

Cl.803 MATERIAL COMPACTED IN 225mm LAYERS TO ROAD FORMATION LEVEL

SELECTED EXCAVATED MATERIAL COMPACTED IN 150mm LAYERS

PIPE WIDTH	TRENCH WIDTH
150ø	600mm
225ø	700mm
300ø	750mm

COVER 1200 OR GREATER USE GRANULAR BED & SURROUND OVER 1200 BUT LESS THAN 2000 USE CONCRETE BED & SURROUND

COVER 1200 OR GREATER USE GRANULAR BED & SURROUND COVER LESS THAN 1200 USE CONCRETE BED & SURROUND

SELECTED EXCAVATED MATERIAL: FREE FROM STONES GREATER THAN 25mm IN SIZE, BUILDING RUBBLE, TREE ROOTS, VEGETABLE MATTER & LUMPS OF CLAY GREATER THAN 75mm IN SIZE.

150

PIPE ø

150

GRANULAR BED & SURROUND (5-20mm PEA GRAVEL) THOROUGHLY COMPACTED IN 75mm LAYERS

OUTLINE OF 150mm GRADE 20 CONC. BED & SURROUND WITH 20mm FLEXCEL JOINTS AT Max. 5m CENTERS

TRENCH WIDTH

uPVC PIPE TO IS424, BS4660, 5481, 5955 & SR7 1981

TYPICAL MAIN DRAINAGE TRENCH
(NTS)

FOR WATERMAIN DETAILS, FOUL SEWER DETAILS, AND ALL ASSOCIATED WORKS DETAILS REFER TO IRISH WATER DETAILS AND IRISH WATER CODE OF PRACTICE FOR WATER AND WASTEWATER INFRASTRUCTURE:

- IW-CDS-5020-1
- IW-CDS-5020-3
- IW-CDS-5030-1
- IW-CDS-5030-3

WASTEWATER PIPE MATERIALS:

All sewer pipe materials to be in compliance with section 3.13 of the Irish Water "Code of Practice for Wastewater Infrastructure" Ref. IW-CDS-5030-03

WATERMAIN PIPE MATERIALS:

All watermain pipe material to comply with section 3.9 of the Irish Water "Code of Practice for Wastewater Infrastructure" Ref. IW-CDS-5020-03

Work	Date	By	Chk.	App.	Revision
PL4	02-07-21	BK	PK		ISSUED FOR PLANNING

Drawing Status: PLANNING

Job Title: INDUSTRIAL DEVELOPMENT AT SITE C, COLLEGE LANE, GREENOGUE RATHCOOLE, Co. DUBLIN

Drawing Title: DRAINAGE & WATERMAIN LAYOUT

Architect/Client: JORDANSTOWN PROPERTIES LTD

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Drn. BK	Checked PK	Approved PK
Scales: 1:500 @ A0		Date: JULY 2021

Job No.	Drawing No.	Rev.
D1658	D3	PL4