N

1

NOTE:
All existing drainage (RWP,Vp, Ex. Manholes); cover, invert levels and exact location to be confirmed prior commencing any works on-site.
Contractor to confirm invert levels of existing foul and surface water drainage prior to commencement of works.

2

Existing Thames Water foul sewer present with 3 m easement either side of pipework.

3

Existing private foul drainage serving retaining buildings to be retained

EXISTING FW SEWER

3 m easement

ICFW (from GPR SURVEY)
CL=41.54
IL=39.94
SF0.3d

NEW FW INDIRECT CONNECTION
- SURVEY CONFIRMS EXISTING FOUL MH
- CONNECTION INTO FW MH REQUIRED. DISCUSSIONS WITH SOUTHERN WATER SHOULD BE DONE TO CONFIRM DESIGN.

FW04
CL=42.061
IL=41.528

FW03
CL=42.893
IL=41.694

FW06
CL=42.932
IL=41.865

SW03
CL=42.956
IL=42.118

SW02
CL=43.283
IL=42.566

AREA CONSIDERED FOR CALCLS (1 in 100 years + 40% CC.)

NEW BUILDING AREA + SOCIAL COURTYARD 0.267 hectares

DISCHAGE RATE 1.64 L/S
STORAGE = 250m³

NEW ACCESS ROAD + HARD INFORM OUTDOOR+TRIM R= 0.204 hectares

STORAGE = 219m³

SEN

SW04
CL=43.158
IL=41.775

MH36
CL=43.234
IL=42.033

NEW SCHOOL BUILDING

HARD INFORMAL & SOCIAL COURTYARD

Aco channel

TREE PIT FOR ROOT PROTECTION

RISK DEEP EXCAVATION

ATTENUATION TANK
~~160m³~~ x 1.60m DEEP
POROSITY = 95%
TOTAL STORAGE = ~~250m³~~
150
228

HYDRO-BRAKE
1.64 L/S (FRA) TO BE Awaiting for SW Response

NEW SW DIRECT CONNECTION
- SOUTHERN WATER SURVEY CONFIRMS EXISTING SW MH
- CONNECTION INTO SW MH REQUIRED. DISCUSSIONS WITH SOUTHERN WATER SHOULD BE DONE.
- MH IL TO BE CONFIRMED ON SITE

HB01
CL=42.629
IL=40.400

SW01 (3)
CL=43.400
IL=41.784

SW05
CL=42.181
IL=40.352

SW MH 4352
CL 41.490
IL 40.130

FW02
CL=43.374
IL=42.566

SW01
CL=43.400
IL=42.775

SW01.1
CL=43.400
IL=42.885

FW01
CL=43.378
IL=42.378

Concrete paving slabs laid as bridging above the pipes -Refer to detail

RETAINED BUILDING

BUILDING TO BE RETAINED. EX FW/SW DRAINAGE TO BE RETAINED AS WELL. MORE INVESTIGATION TO BE DONE.

ATTENUATION AT SUB BASE TANKED BELOW PERMEABLE ASPHALT

850m² x 0.75m DEEP
POROSITY = 30%
TOTAL STORAGE = 190m³

SW10.3
CL=43.438
IL=42.400

NURSERY BUILDING

RETAINED

CYCLE

SW2.0
CL=43.46
IL=42.760

SOFT INFORMAL & SOCIAL

SW10.4
CL=43.665
IL=42.285

EX FW DRAINAGE TO BE RETAINED

SW10.2
CL=43.606
IL=42.950

TRIM TRAIL

Perforated pipes

SW10.1
CL=43.66
IL=42.850

SOFT OUTDOOR PE

HARD INFORMAL & SOCIAL/ OUTDOOR PE

MAINTENANCE ACCESS

SW10
CL=43.603
IL=42.405

CATCHPIT Orifice Flow Control Chamber

SW09
CL=43.717
IL=42.300

(CATCHPIT)SW08
CL=43.572
IL=42.160

SW07
CL=43.528
IL=42.095

BINS

CATCHPIT Orifice Flow Control Chamber

Hydro-Brake
1.2 L/s

ATTENUATION SUB BASE TANKED BELOW PERMEABLE BLOCK PAVING

~~68m³~~ x 1.40m DEEP
POROSITY = 30%
TOTAL STORAGE = ~~29m³~~
45
19

SW06
CL=43.200
IL=42.000

EXISTING FW SEWER

SW11
CL=43.686
IL=42.480

SW12
CL=43.603
IL=42.575

SW10.5
CL=43.636
IL=41.850

EX.SW0.5
IL=41.730

SW2.1
CL=43.320
IL=42.555

SW2.2
CL=42.904
IL=42.325

EXSW12
CL=42.530
IL=41.09

HABITAT AREA

EX gully to be relocated to low point

Connect to the existing drainage Network to be retained

Connection to the Ex SW Drainage

Existing drainage Network to be retained

EXISTING ACCESS

Notes:

1. All dimensions are in millimetres unless otherwise stated.
2. All levels are in metres unless otherwise stated.
3. This drawing should be read in conjunction with all relevant architects, structural engineers and m&e engineers drawings and specification.
4. For setting out of rainwater and foul water drain points refer to architects and M.E.P. drawings.
5. All above ground pipework to MEP specification and design. Refer to MEP package for information. When transitioning materials between above and below ground, use Flexseal flexible drain coupling or other suitable coupling.
6. Layout based on Landscape architect layout 2119-MAC-XX-XX-DR-L-00003 and survey UM22-1317-RD10_Rawdata, 2190563-GREENWAY-GPR-01(00), Greenway_CCTV_A
7. CCTV Surveys and Site visit required to asses existing services if required.

LEGEND

- Site Boundary
- Ex.FWMH — Existing FW drain & Manhole
- Ex.SWMH — Existing SW drain & Manhole
- Proposed FW drain
- Proposed SW drain
- Proposed filter drain
- Existing pipe & Manhole to be abandoned
- Proposed Gully
- Proposed Ø 450 FW IC
- Proposed Ø 450 SW IC
- Proposed Ø 250 FW IC
- SVP — Proposed SVP
- RWP — Proposed RWP
- RE — Rodding eye
- Proposed attenuation tank
- Proposed permeable block paving - Car park with storage sub base
- Proposed MUGA pitch (permeable asphalt) with storage sub base
- Proposed Grass pitch
- 3 m sewer easement

Rev.	Date	Drawn	Chk	Amendment
P02	03.02.23	CC	JB	Updated
P01	22.12.22	CC	JB	CP Issue

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REDS10

L2710 - Greenway Academy

PROPOSED DRAINAGE LAYOUT

Status : S3 REVIEW & COMMENT

Scales : 1:250 @ A1		Date : JUL 22	
Drawn : CC	Engineer : CC	Checked : JB	

Drawing No.
SRP1029-PJC-XX-XX-D-C-7005 P01