G.O. DRAINAGE SERVICES LTD

53 PREMIER AVENUE GRAYS RM16 2SJ TEL:01375 373302 MOB:07792 815977 E-MAIL: godrainage@aol.com

PHOTOS

CLIENT.	ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD	LOCATION.	1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA
DATE	06/09/21	JOB.	CV.02173

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INSPECTION REPORT

CLIENT.	LOCATION.
ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD	1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

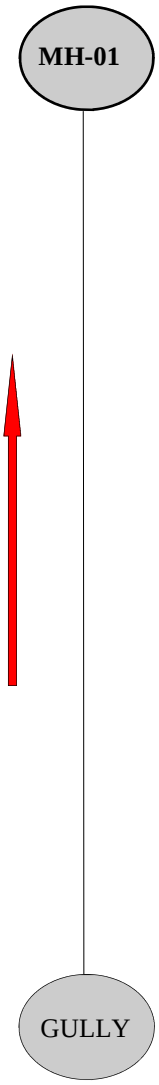
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	01	06/09/21	COMBINED	910mm	UPSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No. 01 CONNECTION– 1

FINISH

FH. GULLY



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
000.3	LL	LINE OF DRAIN DEVIATES LEFT (SLIGHT)
000.6	LD	LINE OF DRAIN DEVIATES DOWN (SHARP)
000.6	FH	FINISH OF SURVEY (GULLY)

END OF RUN NO.01

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INSPECTION REPORT

CLIENT. ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD

LOCATION. 1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

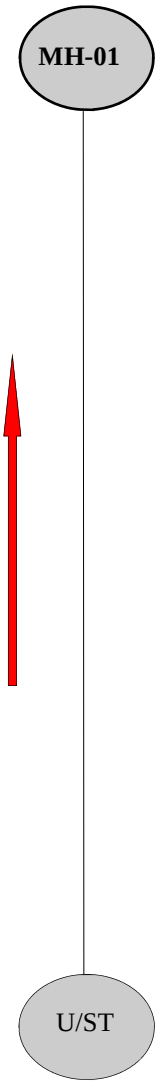
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	02	06/09/21	COMBINED	910mm	UPSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No. 01 CONNECTION- 2

FINISH

FH. UPSTREAM



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
000.3	LL	LINE OF DRAIN DEVIATES LEFT (SLIGHT)
002.9	LU	LINE OF DRAIN DEVIATES UP (SHARP)
002.9	FH	FINISH OF SURVEY

END OF RUN NO.02

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INSPECTION REPORT

CLIENT. ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD

LOCATION. 1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

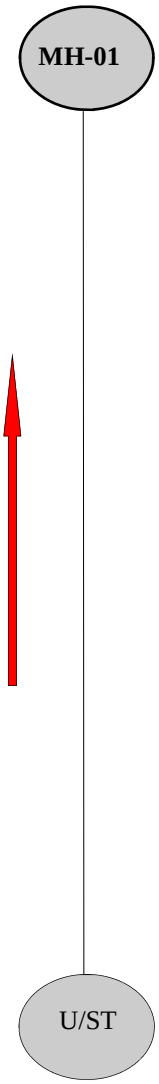
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	03	06/09/21	COMBINED	910mm	UPSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No. 01 CONNECTION- 3

FINISH

FH. UPSTREAM



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
000.3	LL	LINE OF DRAIN DEVIATES LEFT (SLIGHT)
003.2	LU	LINE OF DRAIN DEVIATES UP (SHARP)
003.2	FH	FINISH OF SURVEY

END OF RUN NO.03

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INSPECTION REPORT

CLIENT. ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD

LOCATION. 1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

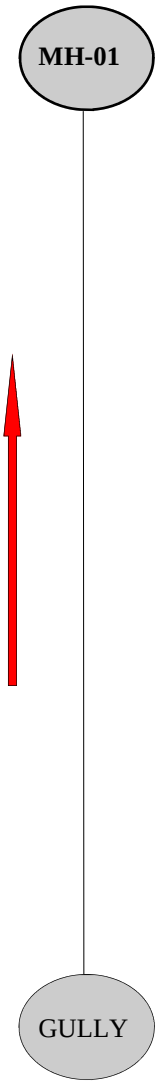
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	04	06/09/21	COMBINED	960mm	UPSTREAM	150mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No. 01 CONNECTION- 4

FINISH

FH. GULLY



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
000.4	SC	DIMENSION OF DRAIN CHANGES TO 100mm
001.0	LU	LINE OF DRAIN DEVIATES UP (SHARP)
002.0	LD	LINE OF DRAIN DEVIATES DOWN (SHARP)
002.0	FH	FINISH OF SURVEY (GULLY)

END OF RUN NO.04

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INSPECTION REPORT

CLIENT. ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD

LOCATION. 1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

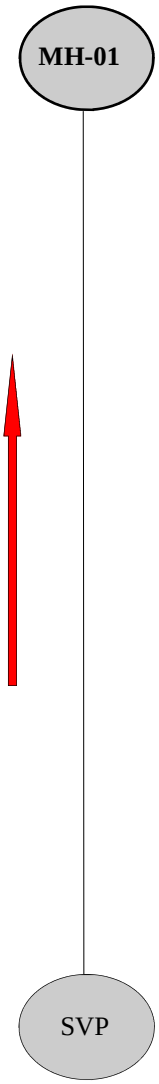
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	05	06/09/21	COMBINED	910mm	UPSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No. 01 CONNECTION– 5

FINISH

FH. SOIL VENT PIPE



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
000.3	LU	LINE OF DRAIN DEVIATES UP (SHARP)
000.3	FH	FINISH OF SURVEY (SOIL VENT PIPE)

END OF RUN NO.05

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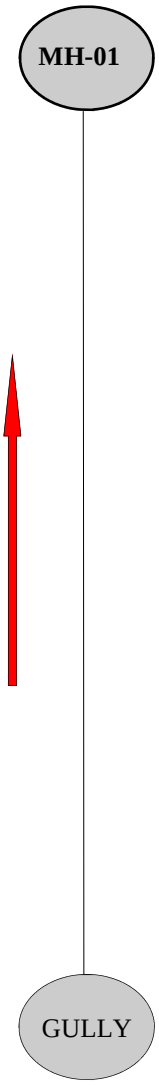
INSPECTION REPORT

CLIENT.	LOCATION.
ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD	1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	06	06/09/21	COMBINED	910mm	UPSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START: ST. MANHOLE No. 01 CONNECTION- 6

FINISH: FH. GULLY



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
000.3	LR	LINE OF DRAIN DEVIATES RIGHT (SLIGHT)
004.3	LD	LINE OF DRAIN DEVIATES DOWN (SHARP)
004.3	FH	FINISH OF SURVEY (GULLY)

END OF RUN NO.06

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INSPECTION REPORT

CLIENT.	LOCATION.
ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD	1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

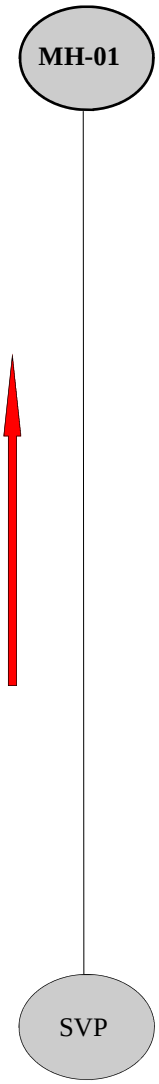
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	07	06/09/21	COMBINED	910mm	UPSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No. 01 CONNECTION- 7

FINISH

FH. SOIL VENT PIPE



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
000.3	LR	LINE OF DRAIN DEVIATES RIGHT (SLIGHT)
003.2	LU	LINE OF DRAIN DEVIATES UP (SHARP)
003.2	FH	FINISH OF SURVEY (SOIL VENT PIPE)

END OF RUN NO.07

G.O. DRAINAGE SERVICES LTD

53 PREMIER AVENUE GRAYS RM16 2SJ TEL:01375 373302 MOB:07792 815977 E-MAIL: godrainage@aol.com

INSPECTION REPORT

CLIENT.	LOCATION.
ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD	1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

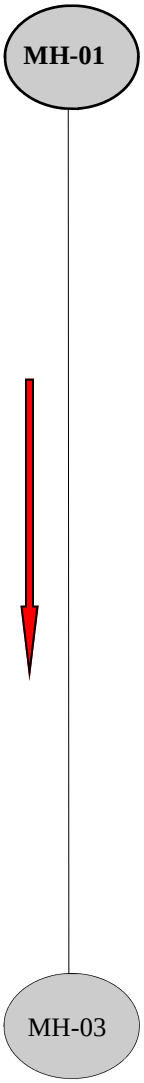
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	08	06/09/21	COMBINED	960mm	DOWNSTREAM	150mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No. 01 CONNECTION- X

FINISH

FH. MANHOLE NO.03



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
002.7	JN	JUNCTION AT 02 O'CLOCK,DIAMETER 100mm
012.4	MH	MANHOLE NO.03
012.4	FH	FINISH OF SURVEY

END OF RUN NO.08

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INSPECTION REPORT

CLIENT.	LOCATION.
ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD	1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

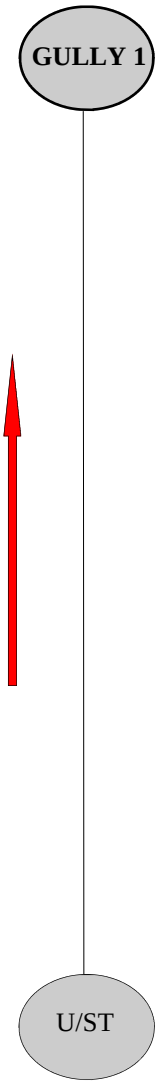
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	09	06/09/21	COMBINED	N/A	UPSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START

ST. GULLY No. 1 CONNECTION– 1

FINISH

FH. UPSTREAM



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
002.4	LU	LINE OF DRAIN DEVIATES UP (SHARP)
002.4	FH	FINISH OF SURVEY

END OF RUN NO.09

G.O. DRAINAGE SERVICES LTD

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INSPECTION REPORT

CLIENT.	LOCATION.
ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD	1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

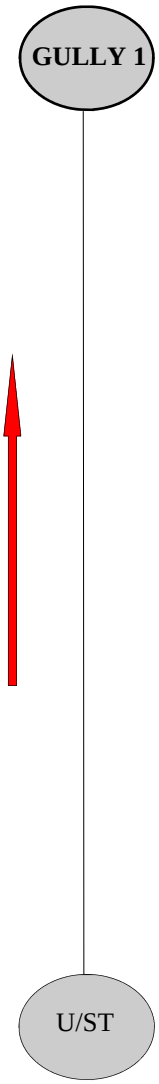
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	10	06/09/21	COMBINED	N/A	UPSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START

ST. GULLY No. 1 CONNECTION– 1

FINISH

FH. UPSTREAM



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
001.2	DEE	ATTACHED DEPOSITS,ENCRUSTATION FROM 09 TO 03 O'CLOCK 30%
001.2	SA	SURVEY ABANDONED DUE TO ABOVE

END OF RUN NO.10

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INSPECTION REPORT

CLIENT. ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD

LOCATION. 1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

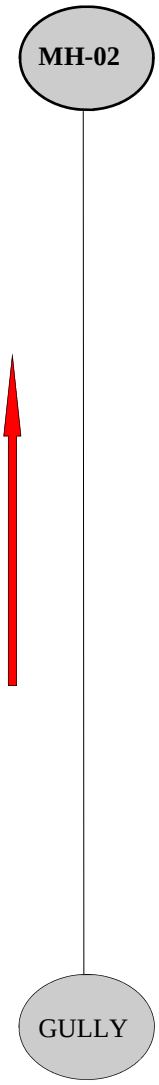
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	11	06/09/21	COMBINED	810mm	UPSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No. 02 CONNECTION- 1

FINISH

FH. GULLY



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
000.3	LU	LINE OF DRAIN DEVIATES UP (SHARP)
000.3	FH	FINISH OF SURVEY (GULLY)

END OF RUN NO.11

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INSPECTION REPORT

CLIENT. ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD

LOCATION. 1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

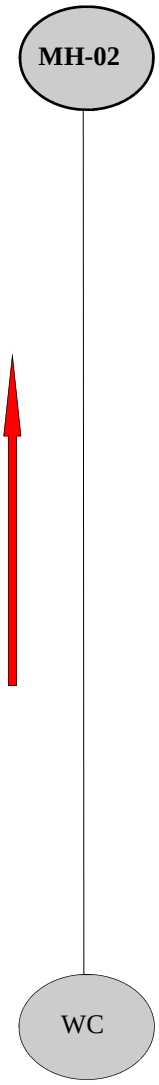
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	12	06/09/21	COMBINED	850mm	UPSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No. 02 CONNECTION- 2

FINISH

FH. WC



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
001.0	LL	LINE OF DRAIN DEVIATES LEFT (SLIGHT)
001.6	JN	JUNCTION AT O'CLOCK,DIAMETER 100mm
001.9	JN	JUNCTION AT O'CLOCK,DIAMETER 100mm
002.6	LL	LINE OF DRAIN DEVIATES LEFT (SLIGHT)
003.8	LU	LINE OF DRAIN DEVIATES UP (SHARP)
003.8	FH	FINISH OF SURVEY (WC)

END OF RUN NO.12

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INSPECTION REPORT

CLIENT.	LOCATION.
ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD	1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

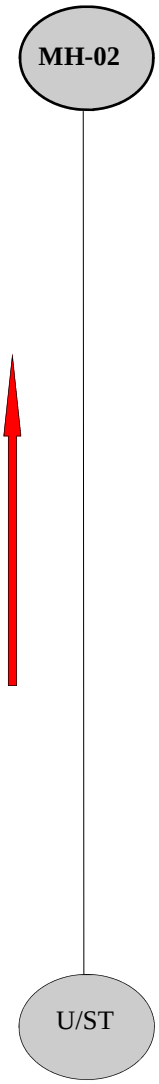
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	13	06/09/21	COMBINED	810mm	UPSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No. 02 CONNECTION- 3

FINISH

FH. UPSTREAM



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
000.3	LL	LINE OF DRAIN DEVIATES LEFT (SLIGHT)
000.3	FH	FINISH OF SURVEY (UNABLE TO PASS)

END OF RUN NO.13

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INSPECTION REPORT

CLIENT. ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD

LOCATION. 1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

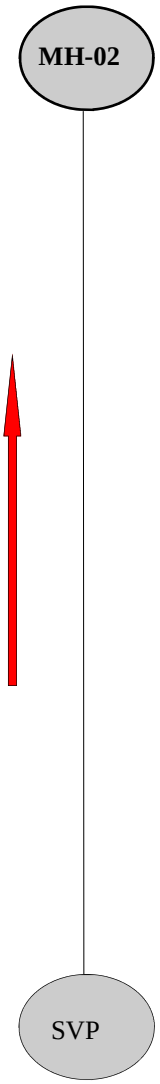
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	14	06/09/21	COMBINED	810mm	UPSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No. 02 CONNECTION- 4

FINISH

FH. SOIL VENT PIPE



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
000.3	LR	LINE OF DRAIN DEVIATES RIGHT (SLIGHT)
003.1	LU	LINE OF DRAIN DEVIATES UP (SHARP)
003.1	FH	FINISH OF SURVEY (SOIL VENT PIPE)

END OF RUN NO.14

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INSPECTION REPORT

CLIENT.	LOCATION.
ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD	1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

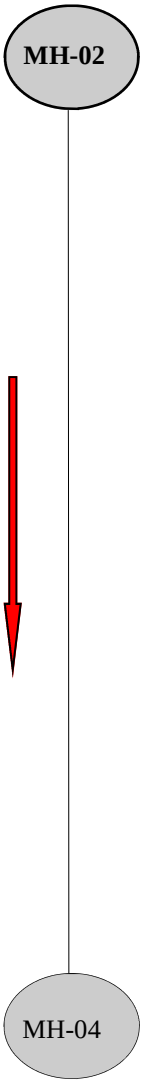
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	15	06/09/21	COMBINED	860mm	DOWNSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No. 02 CONNECTION- X

FINISH

FH. MANHOLE NO.04



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
012.9	SC	DIMENSION OF DRAIN CHANGES TO 150mm
013.7	MH	MANHOLE NO.04
013.7	FH	FINISH OF SURVEY

END OF RUN NO.15

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INSPECTION REPORT

CLIENT.	LOCATION.
ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD	1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

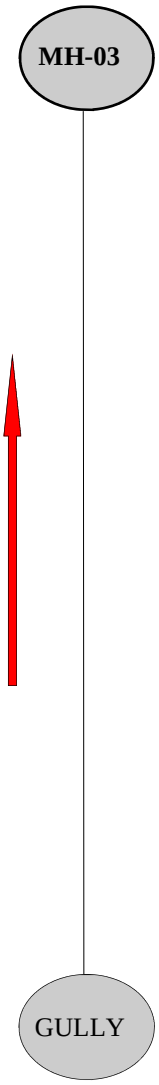
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	16	06/09/21	COMBINED	1710mm	UPSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No. 03 CONNECTION- 3

FINISH

FH. GULLY



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
001.5	LU	LINE OF DRAIN DEVIATES UP (SHARP)
001.5	FH	FINISH OF SURVEY (GULLY)

END OF RUN NO.16

G.O. DRAINAGE SERVICES LTD

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INSPECTION REPORT

CLIENT. ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD

LOCATION. 1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	17	06/09/21	COMBINED	1720mm	DOWNSTREAM	150mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No. 03 CONNECTION- X

FINISH

FH. MANHOLE NO.04

CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
007.3	MH	MANHOLE NO.04
007.3	FH	FINISH OF SURVEY

MH-03

END OF RUN NO.17

MH-04

G.O. DRAINAGE SERVICES LTD

53 PREMIER AVENUE GRAYS RM16 2SJ TEL:01375 373302 MOB:07792 815977 E-MAIL: godrainage@aol.com

INSPECTION REPORT

CLIENT. ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD

LOCATION. 1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

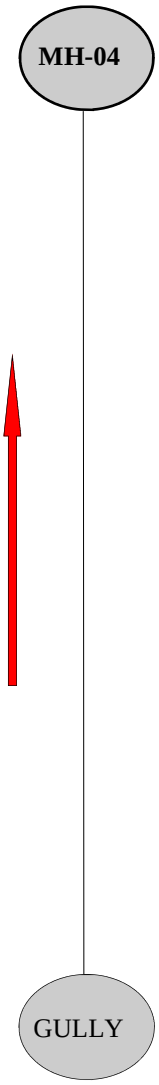
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	18	06/09/21	COMBINED	1800mm	UPSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No. 04 CONNECTION– 1

FINISH

FH. GULLY



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
002.6	LR	LINE OF DRAIN DEVIATES RIGHT (SLIGHT)
002.6	LU	LINE OF DRAIN DEVIATES UP (SHARP)
003.0	LD	LINE OF DRAIN DEVIATES DOWN (SHARP)
003.0	FH	FINISH OF SURVEY (GULLY)

END OF RUN NO.18

G.O. DRAINAGE SERVICES LTD

53 PREMIER AVENUE GRAYS RM16 2SJ TEL:01375 373302 MOB:07792 815977 E-MAIL: godrainage@aol.com

INSPECTION REPORT

CLIENT.	LOCATION.
ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD	1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

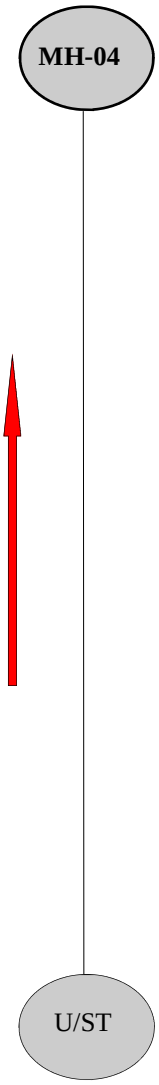
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	19	06/09/21	COMBINED	1800mm	UPSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No. 04 CONNECTION- 2

FINISH

FH. UPSTREAM



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
000.3	DES	SETTLED DEPOSITS FINE 10%
003.4	LR	LINE OF DRAIN DEVIATES RIGHT (SLIGHT)
004.8	JN	JUNCTION AT 09 O'CLOCK,DIAMETER 100mm
004.9	FH	FINISH OF SURVEY (BLOCKED OFF)

END OF RUN NO.19

G.O. DRAINAGE SERVICES LTD

53 PREMIER AVENUE GRAYS RM16 2SJ TEL:01375 373302 MOB:07792 815977 E-MAIL: godrainage@aol.com

INSPECTION REPORT

CLIENT. ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD

LOCATION. 1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

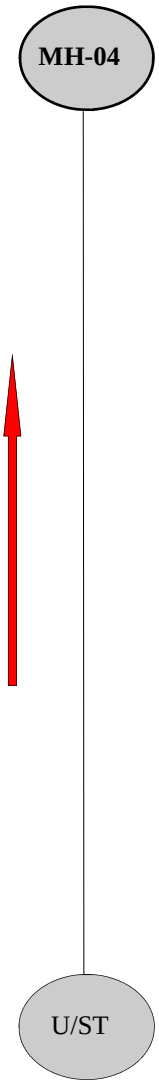
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	20	06/09/21	COMBINED	1800mm	UPSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No. 04 CONNECTION- 3

FINISH

FH. UPSTREAM



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
000.3	DES	SETTLED DEPOSITS FINE 10%
003.3	LR	LINE OF DRAIN DEVIATES RIGHT (SLIGHT)
003.9	JN	JUNCTION AT 09 O'CLOCK,DIAMETER 100mm
004.0	FH	FINISH OF SURVEY (BLOCKED OFF)

END OF RUN NO.20

G.O. DRAINAGE SERVICES LTD

53 PREMIER AVENUE GRAYS RM16 2SJ TEL:01375 373302 MOB:07792 815977 E-MAIL: godrainage@aol.com

INSPECTION REPORT

CLIENT. ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD

LOCATION. 1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

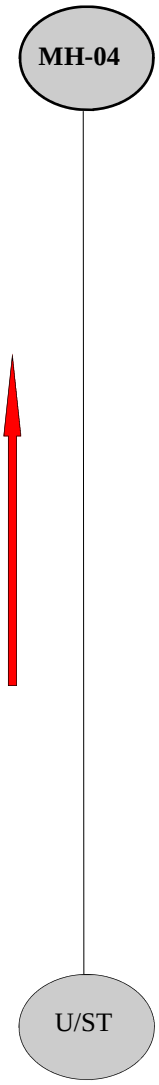
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	21	06/09/21	COMBINED	1800mm	UPSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No.04 CONNECTION- 5

FINISH

FH. UPSTREAM



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
001.2	LU	LINE OF DRAIN DEVIATES UP (SHARP)
001.2	FH	FINISH OF SURVEY

END OF RUN NO.21

G.O. DRAINAGE SERVICES LTD

53 PREMIER AVENUE GRAYS RM16 2SJ TEL:01375 373302 MOB:07792 815977 E-MAIL: godrainage@aol.com

INSPECTION REPORT

CLIENT. ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD

LOCATION. 1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

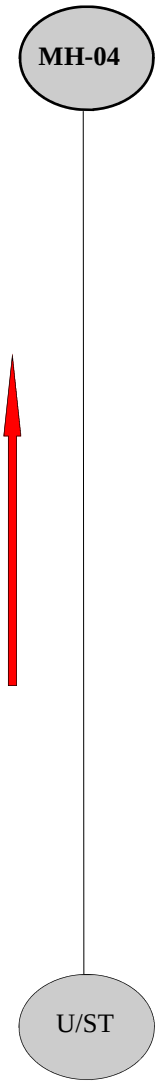
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	22	06/09/21	COMBINED	1800mm	UPSTREAM	100mm	CAST IRON	DRY	NO	GO	1

START

ST. MANHOLE No. 04 CONNECTION- 6

FINISH

FH. UPSTREAM



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
000.3	LU	LINE OF DRAIN DEVIATES UP (SHARP)
000.3	FH	FINISH OF SURVEY

END OF RUN NO.22

G.O. DRAINAGE SERVICES LTD

53 PREMIER AVENUE GRAYS RM16 2SJ TEL:01375 373302 MOB:07792 815977 E-MAIL: godrainage@aol.com

INSPECTION REPORT

CLIENT.	LOCATION.
ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD	1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA

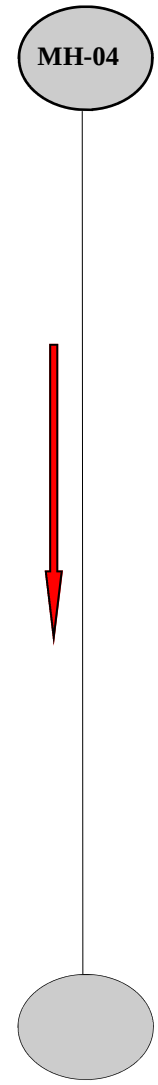
JOB NO.	RUN NUMBER	DATE	SEWER USE	DEPTH	DIRECTION	PIPE SIZE	MATERIAL	WEATHER	CLEANED	OPERATOR	PAGE
CV.2173	23	06/09/21	COMBINED	1990mm	DOWNSTREAM	100mm	V/CLAY	DRY	NO	GO	1

START

ST. MANHOLE No. 04 CONNECTION- X

FINISH

FH. MAIN SEWER



CHAINAGE	CODE	OBSERVATION
000.0	ST	START OF SURVEY
000.0	WL	WATER LEVEL 05%
000.4	JN	JUNCTION AT 06 O'CLOCK,DIAMETER 225mm
000.4	SC	DIMENSION OF DRAIN CHANGES TO 225mm
009.2	FH	FINISH OF SURVEY (MAIN SEWER)

END OF RUN NO.23

G.O. DRAINAGE SERVICES LTD

53 PREMIER AVENUE GRAYS RM16 2SJ TEL:01375 373302 MOB:07792 815977 E-MAIL: godrainage@aol.com

SUMMARY AND RECOMMENDATIONS

CLIENT. ELLIOTTWOOD 241 THE BROADWAY LONDON SW19 1SD	LOCATION. 1-6 TRAVISTOCK SQUARE LONDON WC1H 9NA
DATE 06/09/21	JOB. CV.02173

RUN NO.01 NO WORK NEEDED

RUN NO.02 NO WORK NEEDED

RUN NO.03 NO WORK NEEDED

RUN NO.04 NO WORK NEEDED

RUN NO.05 NO WORK NEEDED

RUN NO.06 NO WORK NEEDED

RUN NO.07 NO WORK NEEDED

RUN NO.08 NO WORK NEEDED

RUN NO.09 NO WORK NEEDED

RUN NO.10 NO WORK NEEDED

RUN NO.11 NO WORK NEEDED

RUN NO.12 NO WORK NEEDED

RUN NO.13 NO WORK NEEDED

RUN NO.14 NO WORK NEEDED

RUN NO.15 NO WORK NEEDED

RUN NO.16 NO WORK NEEDED

RUN NO.17 NO WORK NEEDED

RUN NO.18 NO WORK NEEDED

RUN NO.19 NO WORK NEEDED

RUN NO.20 NO WORK NEEDED

RUN NO.21 NO WORK NEEDED

RUN NO.22 NO WORK NEEDED

RUN NO.23 NO WORK NEEDED

DRAIN & PIPEWORK CCTV SURVEYS

-

DRAINS

PIPEWORK

CULVERTS

DUCTS

CHUTES

CHIMNEY FLUES

TANKS

HIGH PRESSURE WATER JETTING

-

SEWER & DRAIN BLOCKAGES

DESCALING

SILT REMOVAL

ROOT CUTTING

GREASE REMOVAL

REMEDIAL WORKS

-

G.O. DRAINAGE SERVICES LTD

Appendix D– Existing Run-Off Calculations

Modified Ration Method for Brownfield Runoff
Project Number: 2200531
Project Name: Tavis House
Date: 07/02/2022

Area (Ha) 0.145

Storm Return Period	Existing Discharge (L/S)
1yr	12.5
30yr	31.4
100yr	40.0
100yr+40%	56.1

Q= 2.78 * Cv * Cr * I * A

Q = flow rate (l/s)
Cv = Volumetric Runoff Coefficient
Cr = Routing Coefficient
I - Rainfall intensity
A = Area (Ha)

Under summer rainfall conditions Cv ranges from 0.6 - 0.9, for fully impermeable areas value of 0.75 should be used.

The routing coeffcieint varies between 1 and 2 and accounts for the effect of rainfall characterisitcs and catchment shape on the peak runoff magnitude.
The SuDS manual recoomends a fixed value for Cr of 1.3 for design.

Rainfall intensity is calculated following Walling Procedure Volume 4 and is as follows:

Determination of M5-60 min and r
60 minute, 5 year storm (M5-60) has a rainfall depth M5-60 20.000
Ratio r 0.4

Determination of M5-D
M5-D = Z1 (M5-60min)
Z1 is taken from A3.a or A.3b for values between 0.12 and 0.45 and for durations between 5 minutes and 48 hours read to 0.01.

Assuming 1yr 15min, 30yr 15 min, 100yr 15min

Z1 0.64
M5-15 12.8 mm

Determination of MT-D
MT-D is obtained from the relationship:
MT-D = Z2(M5-D)

Taken from Table A1 for 1yr return period 15min storm
Z2 = 0.62
M1-15= 7.9

Taken from Table A1 for 30yr return period 15min storm
Z2= 1.56
M30-15= 20.0

Taken from Table A1 for 100yr return period 15min storm
Z2= 1.99
M100-15= 25.5

Determination of point rainfall intensities
i= 31.744 mm/hr

i= 79.872 mm/hr

i= 101.888 mm/hr

Application of areal reduction factor
From chart A4 where area is greater than 1km2
ARF= 1

Average 1yr intensity
31.7

Average 30yr intensity
79.9

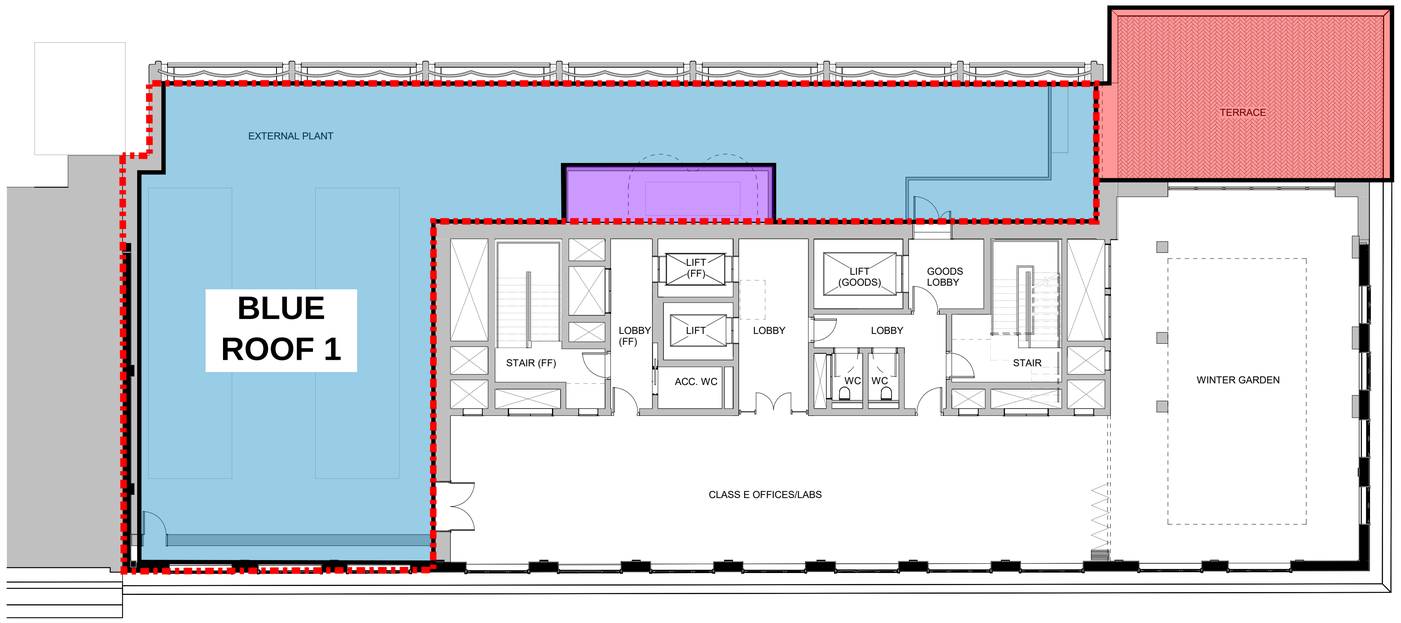
Average 100yr intensity
101.9

Average 100yr+40% intensity
142.6

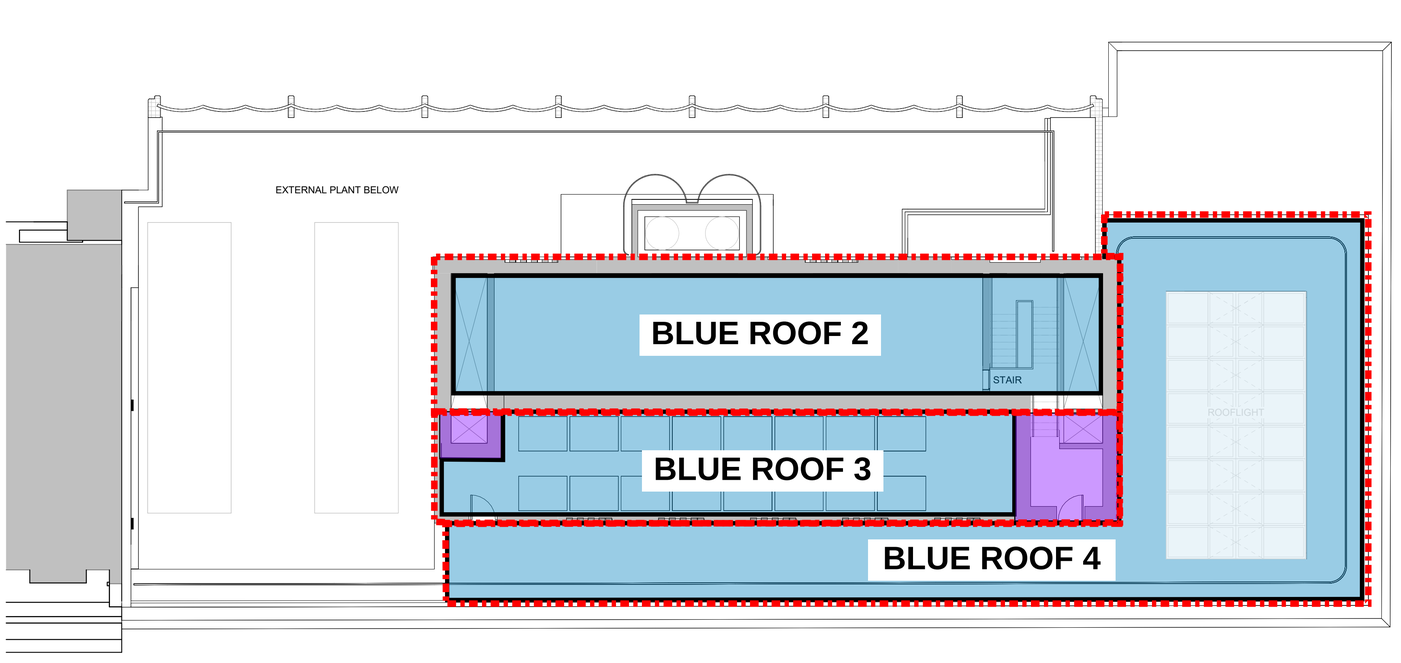
Appendix E – Proposed Drainage Drawings

0 2 4 8m

8th Floor



9th Floor & Above



8th Floor Calculations

Blue Roof 1

Blue Roof coverage = 280m2
Blue Roof catchment = 310m2

In the existing scenario 310m2 would have generated the following surface water run-off rates:

- 1 in 1 year storm = 2.7 l/s
- 1 in 30 year storm = 6.7 l/s
- 1 in 100 year storm = 8.6 l/s
- 1 in 100 year+40% cc = 12.0 l/s

In the proposed scenario 310m2 can be attenuated with a blue roof and run-off from this area discharged to:

- 1 in 100 year+40% cc = 0.84 l/s

Via 2 number flow restricted outlets 97mm deep system

9th Floor & Above Calculations

Blue Roof 2

Blue Roof coverage = 100m2
Blue Roof catchment = 137m2

In the existing scenario 137m2 would have generated the following surface water run-off rates:

- 1 in 1 year storm = 1.2 l/s
- 1 in 30 year storm = 3.0 l/s
- 1 in 100 year storm = 3.8 l/s
- 1 in 100 year+40% cc = 5.3 l/s

In the proposed scenario 137m2 can be attenuated with a blue roof and run-off from this area discharged to:

- 1 in 100 year+40% cc = 0.37 l/s

Via 2 number flow restricted outlets 97mm deep system

Blue Roof 3

Blue Roof coverage = 72m2
Blue Roof catchment = 98m2

In the existing scenario 98m2 would have generated the following surface water run-off rates:

- 1 in 1 year storm = 0.8 l/s
- 1 in 30 year storm = 2.1 l/s
- 1 in 100 year storm = 2.7 l/s
- 1 in 100 year+40% cc = 3.8 l/s

In the proposed scenario 98m2 can be attenuated with a blue roof and run-off from this area discharged to:

- 1 in 100 year+40% cc = 0.26 l/s

Via 2 number flow restricted outlets 97mm deep system

Blue Roof 4

Blue Roof coverage = 136m2
Blue Roof catchment = 195m2

In the existing scenario 136m2 would have generated the following surface water run-off rates:

- 1 in 1 year storm = 1.7 l/s
- 1 in 30 year storm = 4.2 l/s
- 1 in 100 year storm = 5.4 l/s
- 1 in 100 year+40% cc = 7.5 l/s

In the proposed scenario136m2 can be attenuated with a blue roof and run-off from this area discharged to:

- 1 in 100 year+40% cc = 0.53 l/s

Via 2 number flow restricted outlets 97mm deep system

Total Blue Roof Coverage = 588m2

This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.

Do not scale from this drawing.

Legend

- Extent of Blue Roof System
- Higher Roof to Cascade Down Into Blue Roof Below
- Blue Roof Catchments
- Blue Roof Not Proposed

rev	date	by	chk	description
P1	15/03/24	KTr	PDa	Preliminary

Drawing title
Proposed Blue Roof Extent

scale (s)	date	drawn
1:50@ A1; 1:100@A3	March 2024	KTr

elliottwood engineering a better society
Elliott Wood Partnership Ltd
Central London • Wimbledon • Nottingham
Consulting Structural and Civil Engineers
(020) 7499 5888 • elliottwood.co.uk

Project
Tavis House,
1-6 Tavistock Square, London,
WC1H 9NA

Drawing status	Status	Revision
Preliminary	S2	P1

Project no.	Originator	Zone	Level	Type	Role	drg no.
2200531	EWP	ZZ	00	DR	C	5000

Appendix F– Blue Roof Calculations

ACO Blue Roof Calculator Version 1.0.0.46

Project Title: 1-6 Tavistock Square

Design Number:

Notes / Reference: Blue Roof 1

Design Storm Event	1:100
Climate Change	40 %
Runoff Coefficient	1.00
Location	WC1
Roof Area m²	310.0
Additional Contributing Areas (m²)	
Total Catchment Area (m²)	**310.0**
Net Roof Area (m²)	280.0
Permitted Outflow (l/s)	0.840
Blue or Blue/Green Roof	Unknown
If B/G, Green Roof Type	Extensive
a. Permanent reservoir above or in storage void	None
b. Required Reservoir Depth (mm)	

Required Net Storm Storage Volume (m³)	15.63
Actual Depth (mm)	62
Porosity	90 %
Selected depth of storage tank (mm)	85
Provided Storage Volume (m³)	21.42
Utilisation	73.0 %

Structural Load Calculations

Item	kN/m²
Weight of Product (Tank / Cell)	0.116
Weight of Product (Tray)	0.000
Geotextile	0.005
Weight of Permanent Storage	0.000
Weight of Stormwater Storage	0.788

R: 0.41 l/s

M5-60: 20.60 mm/h

DURATION (mins)	INTENSITY (mm/h)	REQUIRED STORAGE VOLUME (m³)
5 mins	216.82	5.35
10 mins	177.12	8.65
15 mins	142.89	10.32
30 mins	93.64	13.00
1 hour	58.55	15.13
2 hours	34.96	15.63
4 hours	20.36	13.15
6 hours	14.77	9.33
10 hours	9.96	0.65
24 hours	4.96	0.00
48 hours	2.79	0.00

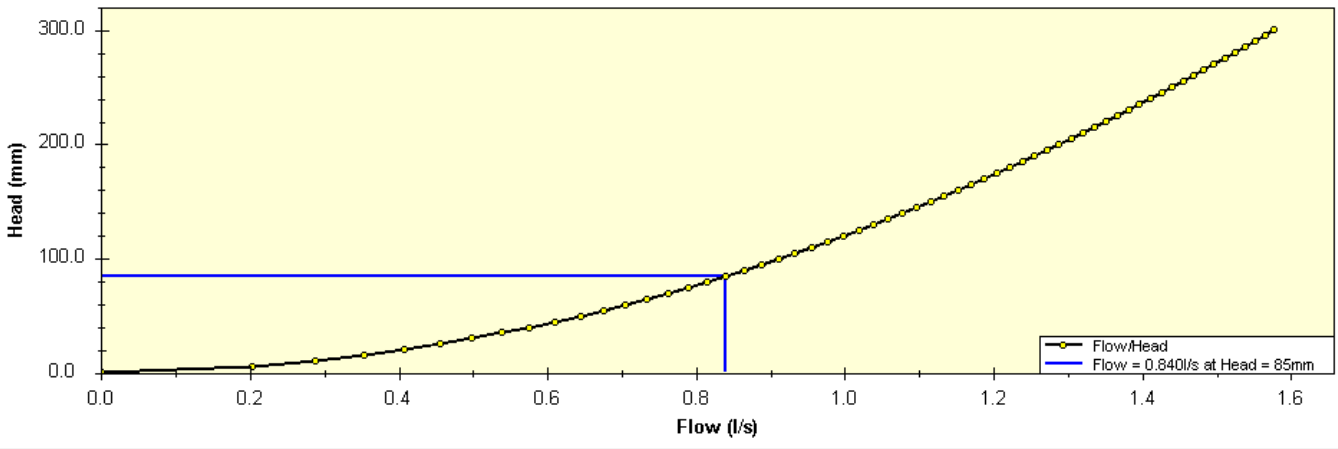
Required aperture / outlet plate size: 36 mm

Half Empty Time: 176 mins

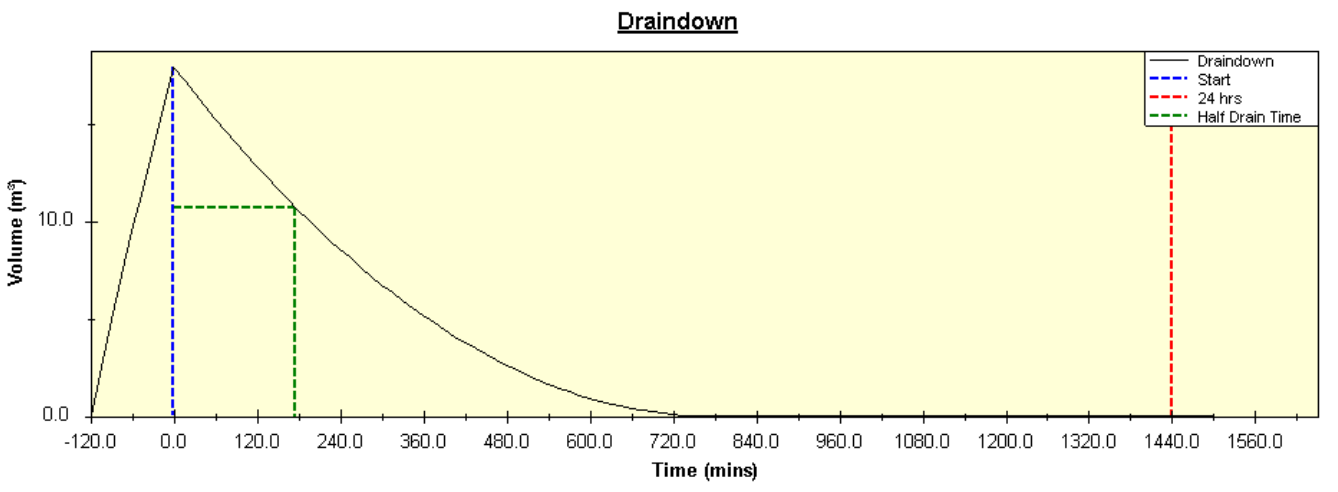
Project Status: PASS

Level & Draindown Graphs

Flow / Head



Draindown



ACO Blue Roof Calculator Version 1.0.0.46

Project Title: 1-6 Tavistock Square

Design Number:

Notes / Reference: Blue Roof 2

Design Storm Event	1:100
Climate Change	40 %
Runoff Coefficient	1.00
Location	WC1
Roof Area m²	137.0
Additional Contributing Areas (m²)	
Total Catchment Area (m²)	**137.0**
Net Roof Area (m²)	100.0
Permitted Outflow (l/s)	0.370
Blue or Blue/Green Roof	Unknown
If B/G, Green Roof Type	Extensive
a. Permanent reservoir above or in storage void	None
b. Required Reservoir Depth (mm)	

Required Net Storm Storage Volume (m³)	6.91
Actual Depth (mm)	77
Porosity	90 %
Selected depth of storage tank (mm)	85
Provided Storage Volume (m³)	7.65
Utilisation	90.4 %

Structural Load Calculations

Item	kN/m²
Weight of Product (Tank / Cell)	0.116
Weight of Product (Tray)	0.000
Geotextile	0.005
Weight of Permanent Storage	0.000
Weight of Stormwater Storage	0.788

R: 0.41 l/s

M5-60: 20.60 mm/h

DURATION (mins)	INTENSITY (mm/h)	REQUIRED STORAGE VOLUME (m³)
5 mins	216.82	2.36
10 mins	177.12	3.82
15 mins	142.89	4.56
30 mins	93.64	5.75
1 hour	58.55	6.69
2 hours	34.96	6.91
4 hours	20.36	5.83
6 hours	14.77	4.15
10 hours	9.96	0.33
24 hours	4.96	0.00
48 hours	2.79	0.00

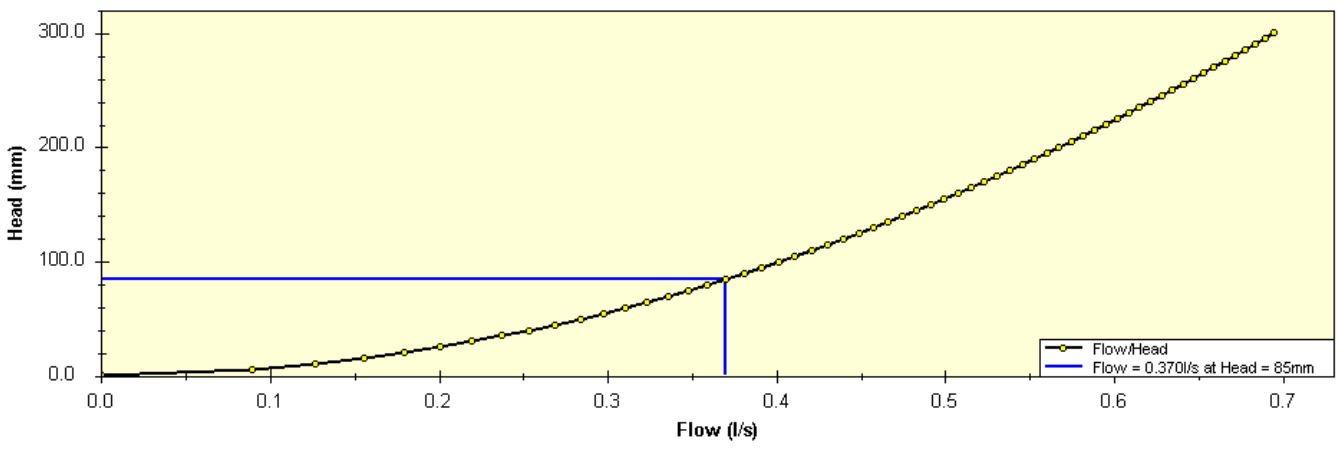
Required aperture / outlet plate size: 24 mm

Half Empty Time: 206 mins

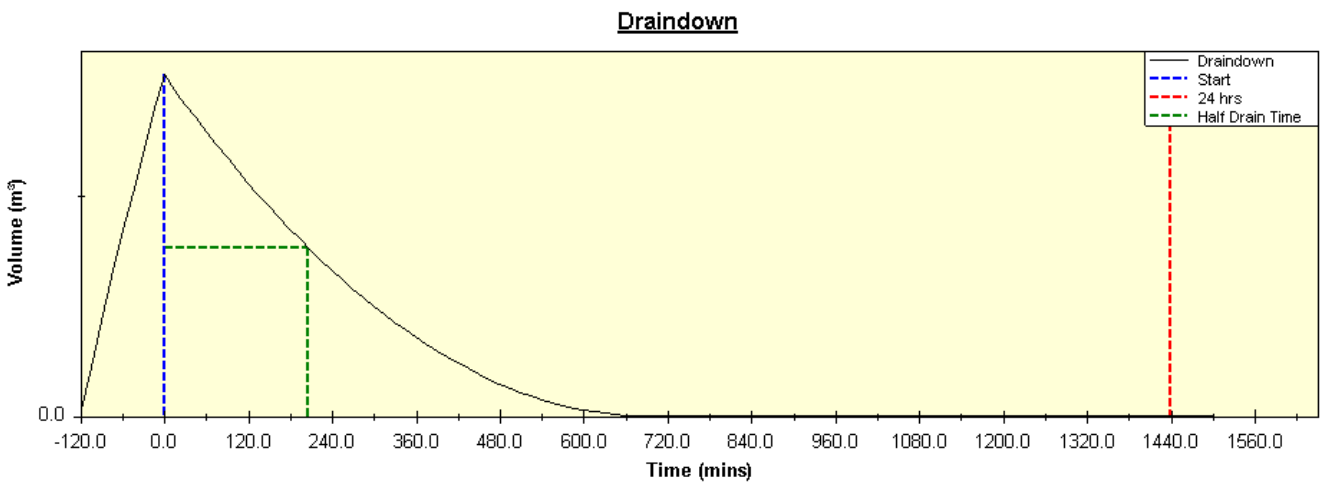
Project Status: PASS

Level & Draindown Graphs

Flow / Head



Draindown



ACO Blue Roof Calculator Version 1.0.0.46

Project Title: 1-6 Tavistock Square

Design Number:

Notes / Reference: Blue Roof 3

Design Storm Event	1:100
Climate Change	40 %
Runoff Coefficient	1.00
Location	WC1
Roof Area m²	98.0
Additional Contributing Areas (m²)	
Total Catchment Area (m²)	**98.0**
Net Roof Area (m²)	72.0
Permitted Outflow (l/s)	0.260
Blue or Blue/Green Roof	Unknown
If B/G, Green Roof Type	Extensive
a. Permanent reservoir above or in storage void	None
b. Required Reservoir Depth (mm)	

Required Net Storm Storage Volume (m³)	4.98
Actual Depth (mm)	77
Porosity	90 %
Selected depth of storage tank (mm)	85
Provided Storage Volume (m³)	5.51
Utilisation	90.4 %

Structural Load Calculations

Item	kN/m²
Weight of Product (Tank / Cell)	0.116
Weight of Product (Tray)	0.000
Geotextile	0.005
Weight of Permanent Storage	0.000
Weight of Stormwater Storage	0.788

R: 0.41 l/s

M5-60: 20.60 mm/h

DURATION (mins)	INTENSITY (mm/h)	REQUIRED STORAGE VOLUME (m³)
5 mins	216.82	1.69
10 mins	177.12	2.74
15 mins	142.89	3.27
30 mins	93.64	4.12
1 hour	58.55	4.80
2 hours	34.96	4.98
4 hours	20.36	4.24
6 hours	14.77	3.07
10 hours	9.96	0.40
24 hours	4.96	0.00
48 hours	2.79	0.00

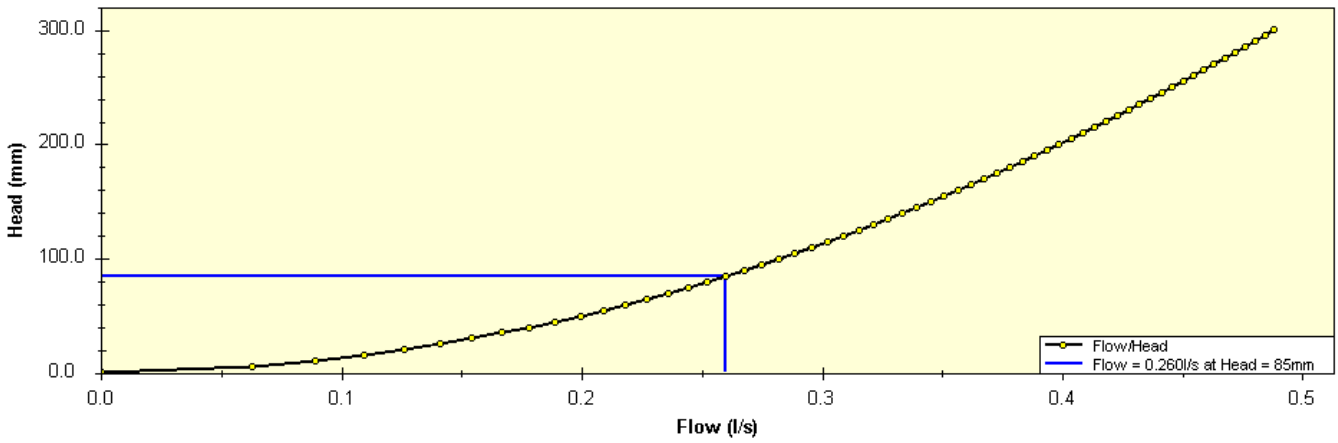
Required aperture / outlet plate size: 21 mm

Half Empty Time: 210 mins

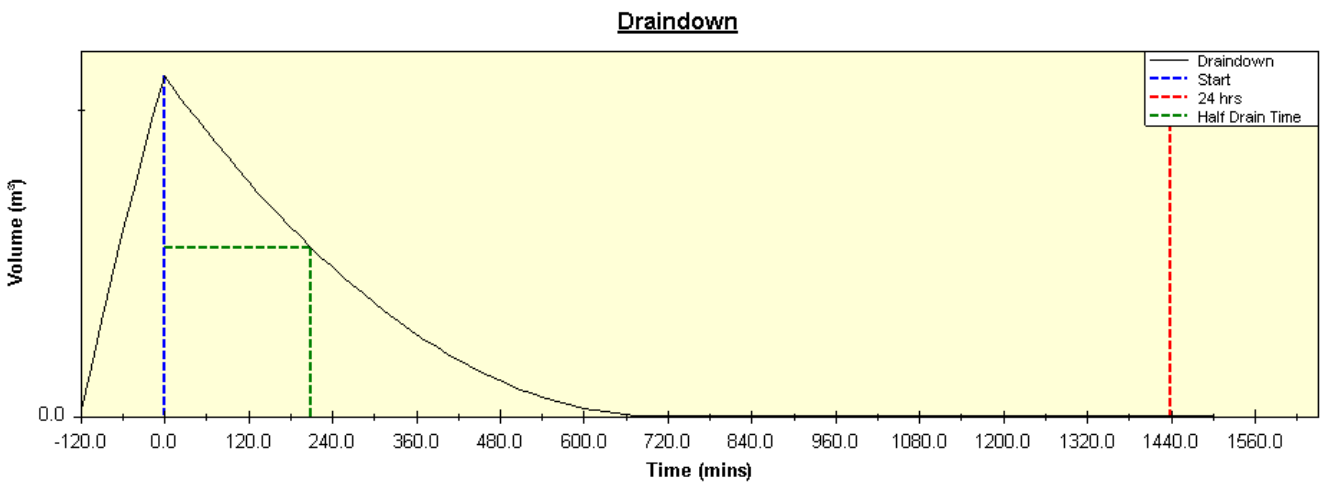
Project Status: PASS

Level & Draindown Graphs

Flow / Head



Draindown



ACO Blue Roof Calculator Version 1.0.0.46

Project Title: 1-6 Tavistock Square

Design Number:

Notes / Reference: Blue Roof 4

Design Storm Event	1:100
Climate Change	40 %
Runoff Coefficient	1.00
Location	WC1
Roof Area m²	195.0
Additional Contributing Areas (m²)	
Total Catchment Area (m²)	**195.0**
Net Roof Area (m²)	136.0
Permitted Outflow (l/s)	0.530
Blue or Blue/Green Roof	Unknown
If B/G, Green Roof Type	Extensive
a. Permanent reservoir above or in storage void	None
b. Required Reservoir Depth (mm)	

Required Net Storm Storage Volume (m³)	9.82
Actual Depth (mm)	80
Porosity	90 %
Selected depth of storage tank (mm)	85
Provided Storage Volume (m³)	10.40
Utilisation	94.4 %

Structural Load Calculations

Item	kN/m²
Weight of Product (Tank / Cell)	0.116
Weight of Product (Tray)	0.000
Geotextile	0.005
Weight of Permanent Storage	0.000
Weight of Stormwater Storage	0.788

R: 0.41 l/s

M5-60: 20.60 mm/h

DURATION (mins)	INTENSITY (mm/h)	REQUIRED STORAGE VOLUME (m³)
5 mins	216.82	3.36
10 mins	177.12	5.44
15 mins	142.89	6.49
30 mins	93.64	8.18
1 hour	58.55	9.51
2 hours	34.96	9.82
4 hours	20.36	8.25
6 hours	14.77	5.84
10 hours	9.96	0.35
24 hours	4.96	0.00
48 hours	2.79	0.00

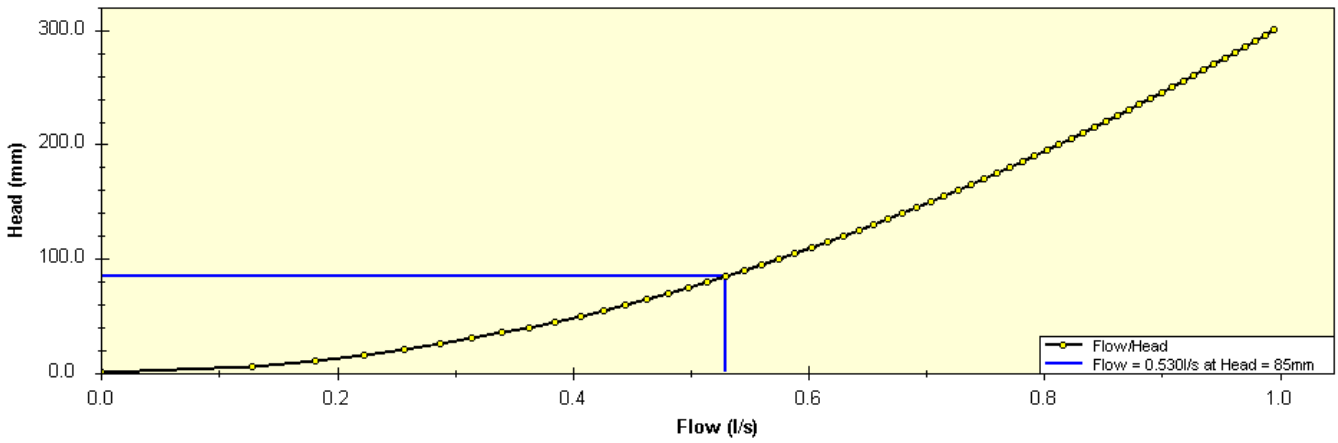
Required aperture / outlet plate size: 29 mm

Half Empty Time: 209 mins

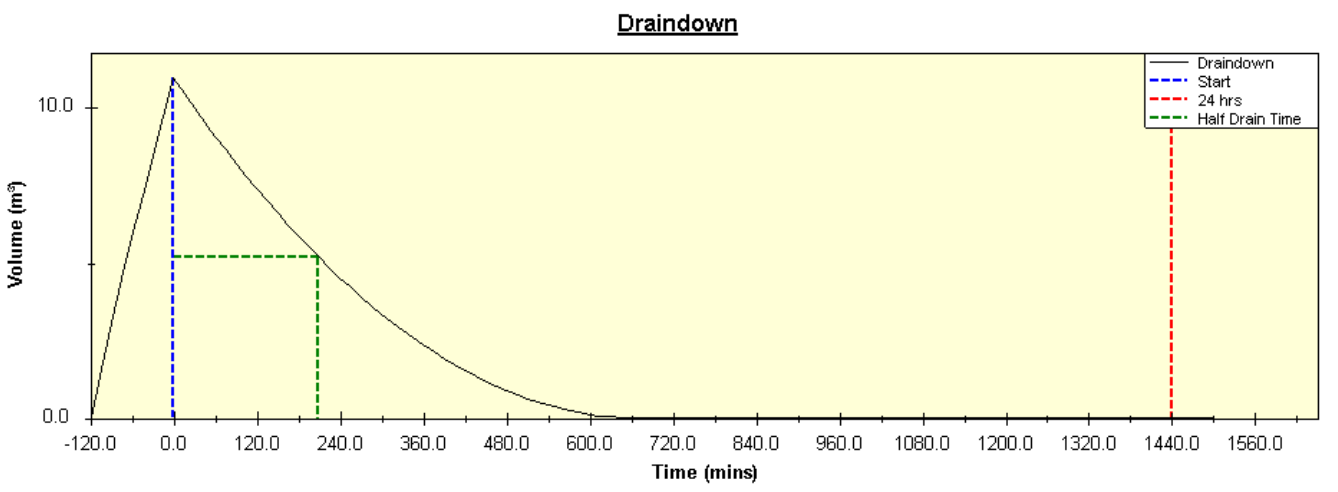
Project Status: PASS

Level & Draindown Graphs

Flow / Head



Draindown



Appendix G – Pro Formas

Pro-forma for any schemes in flood risk areas & all major development - Camden LLFA

All yellow boxes **must** be completed on this and all relevant tabs
Complete peach cells with source document and section/page references, required to support/justify responses
Do not edit grey cells
Please note guidelines / notes in column M
Complete all relevant tabs

Introduction: This Proforma is intended to help you understand the Sustainable Drainage and Flood Risk considerations that the Lead Local Flood Authority (LLFA) and Local Planning Authority (LPA) will take into account when considering an application in Camden, as well as helping us to consider the application. This does not replace the need also to provide where required a Drainage Statement, Flood Risk Assessment, and GLA-Camden SuDS Pro-forma, and observe the detailed guidance in ' Camden Planning Guidance (CPG) Water & Flooding'. Any information provided should be referenced to the relevant section of submitted supporting documents. This summary page will help provide key details on the application. Note that certain cells on this and other tabs will be populated automatically from previous answers given.

A. Application details

Planning reference (if known)	2021/6105/P			
Scheme name	Tavis House			
Scheme address	Tavis House, 1-6 Tavistock Square, London			
Postcode	WC1H 9NA			
Scale of development as registered	Minor			
Scale - policy subcategory		Residential parts	Minor - other	Non-residential parts
Type(s) of development	Non-residential	new/re-build and refurb/change o		
Site area, hectares		*100%*		
Of which total permeable area, to nearest 0.0001 ha	0	#DIV/0!		
Of which total impermeable area, to nearest 0.0001 ha	0.145	#DIV/0!		

	Existing	Proposed				
	TOTAL pre-development	For demolition	New-build incl. infills, re-build, extensions	Retained (refurbished or change of use)	TOTAL post-development	Net UPLIFT post-development
Total floor area of development (GIA)	6903	3378	1571	3525	5096	-1807
of which residential					0	0
of which non- residential					0	0
Number of residential units	0					
List all use class(es)	E					

Drainage Statement document details	2200531-EWP-ZZ-XX-TN-0001
Flood Risk Assessment document details	2200531-EWP-ZZ-XX-RP-C-0001

B. Flood Risk and SuDS - Policy & Documents Filter

Recommendation (Council to complete)			
	Site area 1 hectare or greater?	*CHECK SITE DETAILS*	
	Major application?	*No*	
	In Critical Drainage Area?	Yes	
	In or bordering (<50m) Local Flood Risk Zone(s)?	Yes	
	Name of LFRZ(s):	Group3_003	
	On Historically Flooded Street 1975 or 2002?	No	
	Name of HFS(s):	N/A	
	Area at risk of flooding (surface water)?	*Yes*	
	Elevated groundwater susceptibility or <50m of GW in	No	
	In area with recorded sewer flooding incident?	No	
	In street with historical underground watercourse?	No	
	Area at risk of flooding (other relevant types)?	*No*	
	Basement proposed - new, enlarged or change of use	Existing	
	IF YES, list proposed basement uses (all spaces):	E	
Approve/Condition/Refuse	*IF YES, are habitable or vulnerable use(s) included?*	No	
Approve/Condition/Refuse	*IF NO, is other (non-basement) vulnerable developme*	N/A	
	Vulnerable development in flood-prone area?	*CHECK SITE DETAILS*	
	Site-specific Flood Risk Assessment (FRA) required?	*CHECK SITE DETAILS*	
Approve/Condition/Refuse	Site-specific FRA submitted?	Yes	**If Yes, go to Flood Risk Proposals tab**
	Drainage Statement (DS) required?	*CHECK SITE DETAILS*	
Approve/Condition/Refuse	DS submitted?	Yes	**If Yes, go to Flood Risk Proposals tab**
	Sustainable drainage (SuDS) proposals required?	*Yes*	
Approve/Condition/Refuse	SuDS proposals submitted?	Yes	**If Yes, go to SuDS Proposals tab**
	FRA/DS/SuDS supporting evidence required?	*Yes*	
Approve/Condition/Refuse	Supporting evidence submitted?	Yes	**If Yes, go to Flood Risk Proposals &/or SuDS Proposals t**

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1. Project & Site Details

Project / Site Name (including sub-catchment / stage / phase where appropriate)	Tavis House
Address & post code	Tavis House, 1-6 Tavistock Square, London, WC1H 9NA
OS Grid ref. (Easting, Northing)	E 529973
	N E: 182345
LPA reference (if applicable)	2021/6105/P
Brief description of proposed work	Refurbishment and extension of the existing building to provide new entrances, a new roof top pavilion, roof top plant equipment and enclosures, rear extension and cycle parking associated with Class E.
Total site Area	1450 m^2
Total existing impervious area	1450 m^2
Total proposed impervious area	1450 m^2
Is the site in a surface water flood risk catchment (ref. local Surface Water Management Plan)?	Yes
Existing drainage connection type and location	Site connects to combined Thames Water sewer beneath Tavistock Square.
Designer Name	Keri Trimmer
Designer Position	Associate Civil Engineer

2. Proposed Discharge Arrangements

2a. Infiltration Feasibility

Superficial geology classification	Lynch Hill Gravel Member
Bedrock geology classification	London Clay Formation
Site infiltration rate	N/A m/s
Depth to groundwater level	5.2 m below ground level
Is infiltration feasible?	No

2b. Drainage Hierarchy

	Feasible (Y/N)	*Proposed (Y/N)*
1 store rainwater for later use	N	N
2 use infiltration techniques, such as porous surfaces in non-clay areas	N	N
3 attenuate rainwater in ponds or open water features for gradual release	N	N
4 attenuate rainwater by storing in tanks or sealed water features for gradual release	Y	Y
5 discharge rainwater direct to a watercourse	N	N
6 discharge rainwater to a surface water sewer/drain	N	N
7 discharge rainwater to the combined sewer.	Y	Y

2c. Proposed Discharge Details

Proposed discharge location	Retain existing sewer connection.
Has the owner/regulator of the discharge location been	Yes

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3. Drainage Strategy

3a. Discharge Rates & Required Storage

	Greenfield (GF) runoff rate (l/s)	*Existing discharge rate (l/s)*	*Required storage for GF rate (m^3)*	*Proposed discharge rate (l/s)*
Qbar	N/A			
1 in 1	N/A	12.5	N/A	8.1
1 in 30	N/A	31.4	N/A	17.4
1 in 100	N/A	40	N/A	21.6
1 in 100 + CC				29.5
Climate change allowance used		40%		
3b. Principal Method of Flow Control		Blue Roof over 8th / 9th floor terraces and roof		

3c. Proposed SuDS Measures

	Catchment area (m^2)	*Plan area (m^2)*	*Storage vol. (m^3)*
Rainwater harvesting	0		0
Infiltration systems	0		0
Green roofs	0	0	0
Blue roofs	740	588	57
Filter strips	0	0	0
Filter drains	0	0	0
Bioretention / tree pits	0	0	0
Pervious pavements	0	0	0
Swales	0	0	0
Basins/ponds	0	0	0
Attenuation tanks	0		0
Total	**740**	**588**	**57**

4. Supporting Information

4a. Discharge & Drainage Strategy	*Page/section of drainage report*
Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results	1.5
Drainage hierarchy (2b)	N/A
Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location	Appendix B
Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations	Appendix D / Appenidx F
Proposed SuDS measures & specifications (3b)	1.10.

4b. Other Supporting Details	*Page/section of drainage report*
Detailed Development Layout	Appendix D
Detailed drainage design drawings, including exceedance flow routes	Appendix E
Detailed landscaping plans	Refer to Architects Drawings
Maintenance strategy	1.11
Demonstration of how the proposed SuDS measures improve:	N/A
a) water quality of the runoff?	
b) biodiversity?	
c) amenity?	