

MANHOL	E SCHE	DULE							
MANHOLE No.	APPROX. COVER LEVEL	INVERT LEVEL IN	INVERT LEVEL OUT	DEPTH (mm)	PIPE SIZE OUT (mm)	GRADIENT OUT	TYPE/COMMENT		COVER
							SIZE/DIA.	TYPE	
NCMH1	100.53	98.05	98.05	2480	150¢	1:100 MINIMUM	1200¢	P.C. RING (DETAIL 1)	750×600 DUCTILE IRON 'C250'
NSMH1	100.53	98.15	98.15	2380	150 <i>ø</i>	1:100	1200¢	P.C. RING WITH FLOW CONTROL (DETAIL 1a)	750×600 DUCTILE IRON 'C250'
NSMH2	100.64	100.00	100.00	640	150 <i>ø</i>	1:6	450 <i>ø</i>	UIC (DETAIL 3)	450¢ PLASTIC 'B125'
NSMH3	100.64	99.70	99.70	940	150 <i>ø</i>	1:100	450¢	UIC (DETAIL 3)	450Ø PLASTIC 'B125'
NSMH4	100.00	98.85	98.85	1150	150¢	1:100	450¢	UIC (DETAIL 3a)	450¢ PLASTIC 'B125'
NSMH5	100.53	99.33	99.33	1200	150¢	1:2	600ø	BACKWASH DISCHARGE CHAMBER (DETAIL 2)	600¢ PLASTIC 'B125'
NSMH6	96.16	95.26	95.26	900	150 <i>ø</i>	1:100	450 <i>ø</i>	UIC CATCHPIT (DETAIL 4)	450¢ PLASTIC 'B125'
NSMH7	96.16	95.29	95.29	870	100ø	1:100	450 <i>ø</i>	UIC (DETAIL 3a)	450¢ PLASTIC 'B125'
NSMH8	96.16	95.32	95.32	840	100ø	1:100	450 <i>ø</i>	UIC (DETAIL 3a)	450¢ PLASTIC 'B125'
NSMH9	96.16	95.29	95.29	870	100¢	1:100	450 <i>ø</i>	UIC (DETAIL 3a)	450¢ PLASTIC 'B125'
NSMH10	96.16	95.32	95.32	840	100¢	1:100	450 <i>ø</i>	UIC (DETAIL 3a)	450¢ PLASTIC 'B125'
NSMH11	96.16	95.35	95.35	810	100¢	1:100	450 <i>ø</i>	UIC (DETAIL 3a)	450¢ PLASTIC 'B125'
							ı		
NFMH1	100.57	99.70	99.70	870	100¢	1:70	600ø	BACKWASH DISCHARGE CHAMBER (DETAIL 2)	600Ø PLASTIC 'B125'
NFMH2	100.57	99.65	99.65	920	100ø	1:70	600ø	BACKWASH DISCHARGE CHAMBER (DETAIL 2) <	600Ø PLASTIC 'B125'
NFMH3	100.57	99.60	99.60	970	100ø	1:70	600ø	BACKWASH DISCHARGE CHAMBER (DETAIL 2)	600Ø PLASTIC 'B125'
NFMH4	100.57	99.65	99.65	920	100¢	1:70	600ø	BACKWASH DISCHARGE CHAMBER (DETAIL 2)	600¢ PLASTIC 'B125'
NFMH5	100.57	99.70	99.70	870	100ø	1:70	600ø	BACKWASH DISCHARGE CHAMBER (DETAIL 2)	600Ø PLASTIC 'B125'
NFMH6	100.57	99.75	99.75	820	100ø	1:70	600ø	BACKWASH DISCHARGE CHAMBER (DETAIL 2)	600¢ PLASTIC 'B125'

MANHOLE COVERS TO BS EN 124

LIGHT DUTY PEDESTRIAN ONLY

MEDIUM DUTY | LIGHT VEHICLES

HEAVY DUTY | CARRIAGEWAY < 0.5m FROM KERB

HEAVY DUTY | CARRIAGEWAY & HARD SHOULDERS

CLASS A

CLASS B

CLASS C

CLASS D

ALL CATCHPIT MANHOLES ARE 200mm DEEPER THAN INVERT LEVELS SHOWN TO ALLOW FOR SILT PIT

**ANNOTATIONS** 

P.C. RING

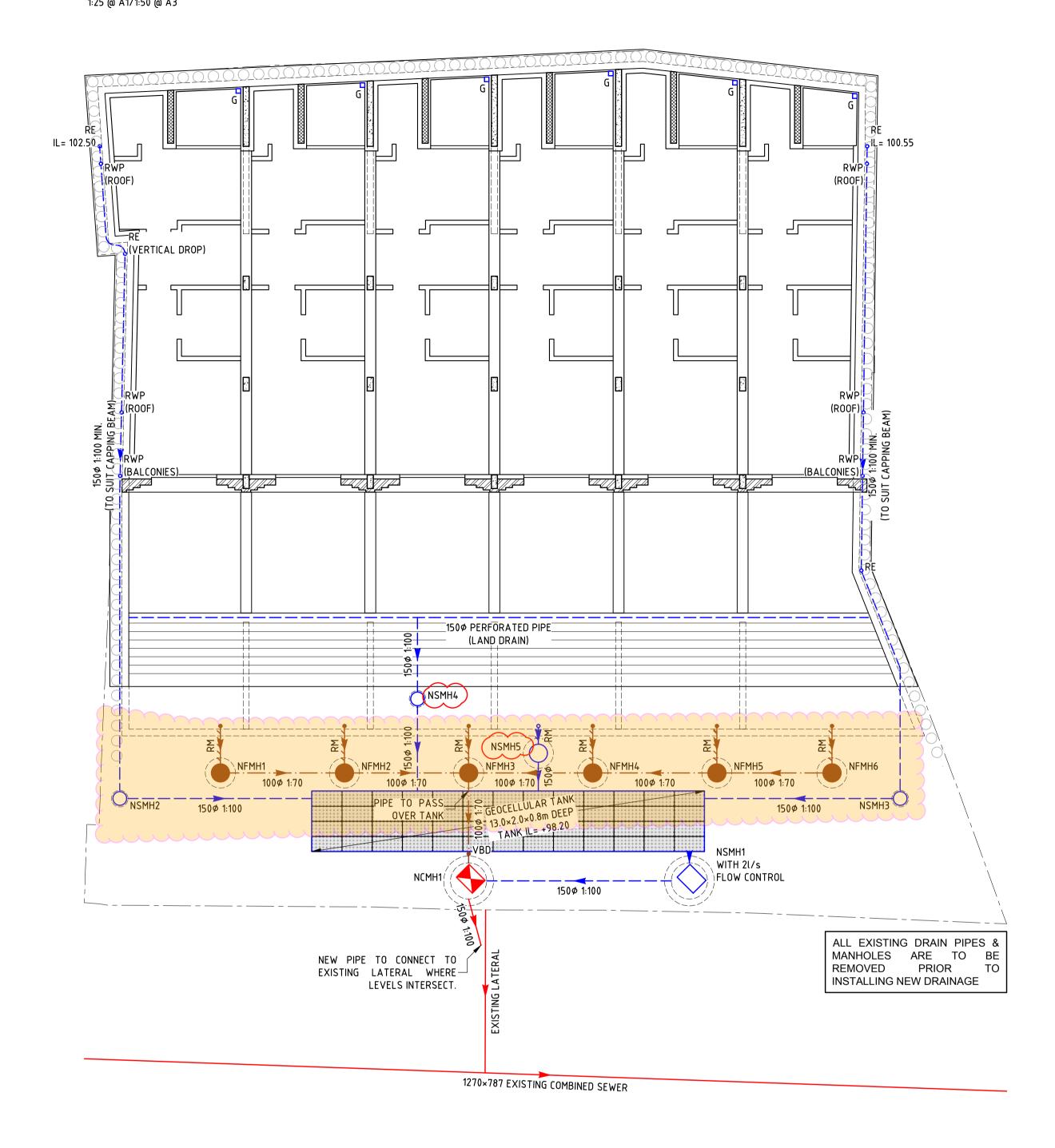
UNIVERSAL INSPECTION CHAMBER

NON-ENTRY INSPECTION CHAMBER

CHAMBER CONSTRUCTION

TRADITIONAL BRICK OR PRECAST CONCRETE

# LOWER GROUND FLOOR DRAINAGE



PUMP CHAMBER SCHEDULE							
TANK N°	STORAGE CAPACITY (I)	PUMP CAPACITY (I/s)	APPROX. RISE (m)	LOCATION	CONSTRUCTION TYPE		
NFPC1	1000	3.0	4.5	BURIED IN COURTYARD	SIMILAR TO DETAIL 3a		
NFPC2	1000	3.0	4.5	BURIED IN COURTYARD	SIMILAR TO DETAIL 3a		
NFPC3	1000	3.0	4.5	BURIED IN COURTYARD	SIMILAR TO DETAIL 3a		
NFPC4	1000	3.0	4.5	BURIED IN COURTYARD	SIMILAR TO DETAIL 3a		
NFPC5	1000	3.0	4.5	BURIED IN COURTYARD	SIMILAR TO DETAIL 3a		
NFPC6	1000	3.0	4.5	BURIED IN COURTYARD	SIMILAR TO DETAIL 3a		
NSPC1	1000	6.0	4.5	BURIED IN COURTYARD	SIMILAR TO DETAIL 3a		

#### DRAWING NOTES

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- ALL MATERIALS AND WORKMANSHIP ARE TO COMPLY WITH THE RELEVANT CURRENT BRITISH STANDARDS' AND, WHERE REQUIRED BY THE EMPLOYER, TO NHBC

#### DRAINAGE NOTES

#### NOTATION KEY

SOIL AND VENT PIPE RAIN WATER PIPE STUB STACK AIR ADMITTANCE VALVE

YARD GULLY RODDING EYE VERTICAL BACKDROP NEW FOUL WATER MANHOLE

NEW SURFACE WATER MANHOLE NSMH: NCMH: NEW COMBINED WATER MANHOLE NEW FOUL WATER PUMP CHAMBER NSPC: NEW SURFACE WATER PUMP CHAMBER

COMBINED WATER PIPE RUN

COMBINED WATER MANHOLE OR INSPECTION CHAMBER

FOUL WATER RISING MAIN

FOUL WATER MANHOLE OR INSPECTION CHAMBER FOUL WATER PUMPING CHAMBER

-->-- SURFACE WATER PIPE RUN

SURFACE WATER RISING MAIN

SURFACE WATER MANHOLE OR INSPECTION \_\_\_\_ CHAMBER

SURFACE WATER PUMPING CHAMBER

### SPECIFICATION

- FOUL DRAINS ARE TO BE 100mm NOMINAL DIAMETER LAID AT A GRADIENT NOT FLATTER THAN 1:70. U.N.O.
- DRAINS ARE TO BE CONSTRUCTED USING VITRIFIED CLAY PIPES TO BS 65 OR FLEXIBLE UPVC PIPES TO BS4660 WITH FLEXIBLE JOINTS BEDDED AND BACKFILLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND BS 8301.
- 100mm RIGID PIPES WITH LESS THAN 300mm COVER OR PIPES OF 150mm OR GREATER DIAMETER WITH LESS THAN 600mm COVER ARE TO BE SURROUNDED BY 150mm OF CONCRETE WITH MOVEMENT JOINTS PROVIDED AT EVERY PIPE JOINT.
- FLEXIBLE PIPES WITH LESS THAN 600mm COVER ARE TO BE SURROUNDED WITH CONCRETE OR TO HAVE CONCRETE PAVING SLABS LAID AS BRIDGING ABOVE THE PIPE. PIPES UNDER BUILDINGS ARE TO BE SURROUNDED WITH 100mm MIN. OF GRANULAR MATERIAL.
- ACCESS TO DRAINS MAY PROVIDED BY VITRIFIED CLAY, GRP OR POLYPROPYLENE INSPECTION CHAMBERS TO BS 7158, OR MANHOLES CONSTRUCTED USING CLASS B ENGINEERING BRICKS TO BS 3921, OR PRECAST CONCRETE SECTIONS TO BS 5911, SURROUNDED WITH 150mm OF CONCRETE MINIMUM DIMENSIONS TO CONFORM TO TABLE 8 OF BS 8301. COVERS AND FRAMES FOR MANHOLES/ INSPECTION CHAMBERS MUST COMPLY WITH THE APPROPRIATE LOADING GRADE OF BS 497 OR BS 5911.
- 6. PROVIDE GULLIES AND RWP'S WITH RODDABLE ACCESS.
- ALL PIPES THAT CONNECT TO MAIN RUN DRAINAGE MANHOLES TO BE FIXED 'CROWNS ADJACENT'
- CONCRETE BEDDING & SURROUND TO BE MIX TYPE GEN 1 TO TABLE 6 OF BS 5328-PART 2 U.N.O.. IF A DIFFERENT 'GEN' MIX IS SPECIFIED IT WILL BE TO THE ABOVE TABLE.

NOT FOR CONSTRUCTION

9. ALL RWP'S TO CONNECT INTO RODDABLE GULLIES.

P	2 F	Revised as clouded	15/07/19
P	1 F	Preliminary	08/07/19
RE	V	DETAIL	DATE

## Status: PRELIMINARY

Client: Space Free Ltd.

Project: 138-140 Highgate Road, London, NW5 1PB

Title: Drainage G.A. Sheet 1

Drawing N°: Rev: 18035 D100 P2

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