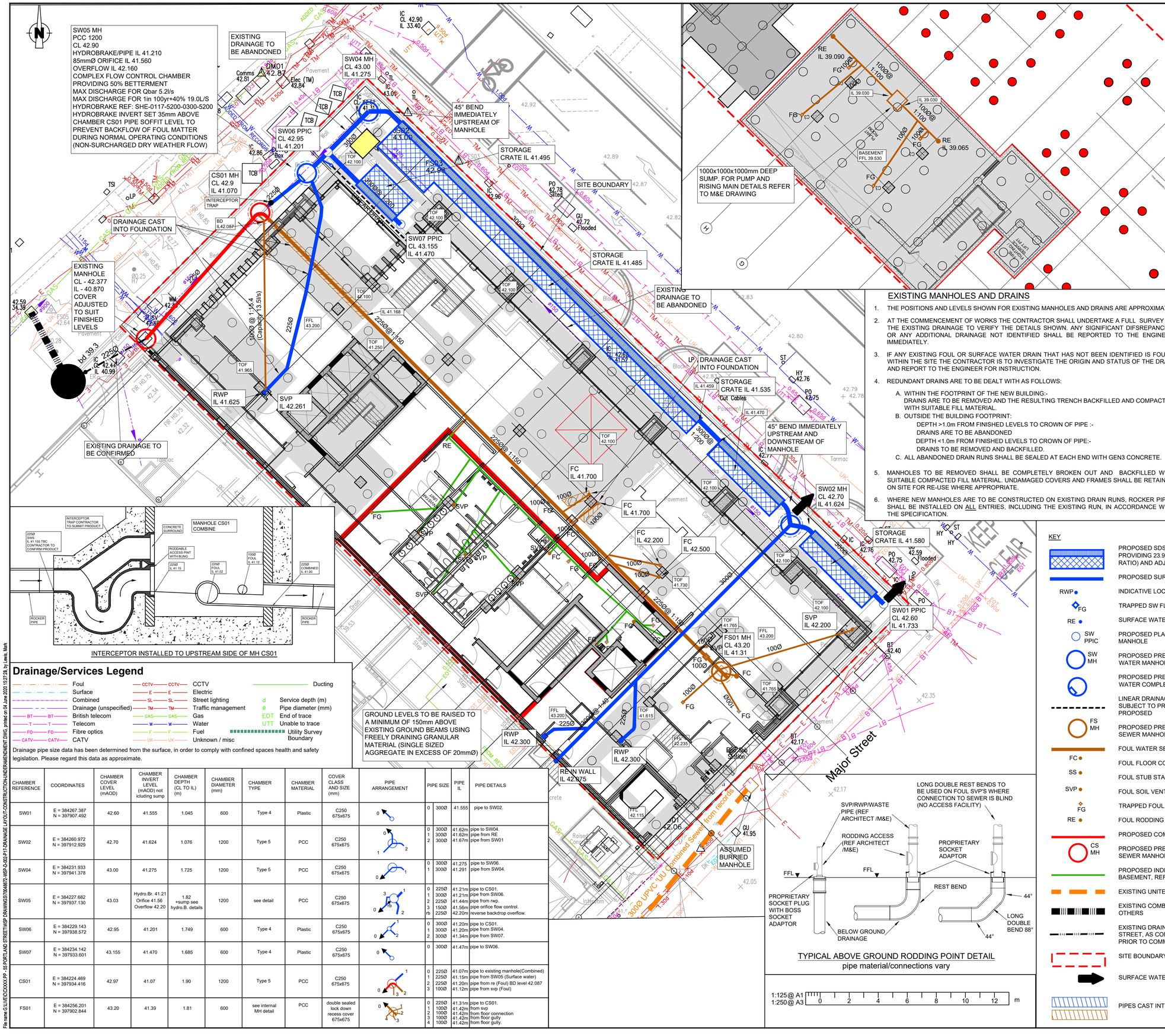

INTERCEPTOR INSTALLED TO UPSTREAM SIDE OF MH CS01

Drainage/Services Legend

Foul	CCTV — CCTV	CCTV	Ducting
Surface	E — E	Electric	
Combined	SL — SL	Street lighting	d Service depth (m)
Drainage (unspecified)	TM — TM	Traffic management	Ø Pipe diameter (mm)
BT — BT British telecom	GAS — GAS	Gas	EOT End of trace
T — T Telecom	W — W	Water	UTT Unable to trace
FO — FO Fibre optics	F — F	Fuel	Utility Survey Boundary
CATV — CATV CATV	UK — UK	Unknown / misc	

Drainage pipe size data has been determined from the surface, in order to comply with confined spaces health and safety legislation. Please regard this data as approximate.

CHAMBER REFERENCE	COORDINATES	CHAMBER COVER LEVEL (mAOD)	CHAMBER INVERT LEVEL (mAOD) not icluding sump	CHAMBER DEPTH (CL TO IL) (m)	CHAMBER DIAMETER (mm)	CHAMBER TYPE	CHAMBER MATERIAL	COVER CLASS AND SIZE (mm)	PIPE ARRANGEMENT	PIPE SIZE	PIPE IL	PIPE DETAILS
SW01	E = 384267.387 N = 397907.492	42.60	41.555	1.045	600	Type 4	Plastic	C250 675x675	0	0 300Ø	41.555	pipe to SW02.
SW02	E = 384260.972 N = 397912.929	42.70	41.624	1.076	1200	Type 5	PCC	C250 675x675	0 1 2	0 300Ø 1 300Ø 2 300Ø	41.624m 41.624m 41.67m	pipe to SW04. pipe from RE. pipe from SW01
SW04	E = 384231.933 N = 397941.378	43.00	41.275	1.725	1200	Type 5	PCC	C250 675x675	0 1	0 300Ø 1 300Ø	41.275 41.291	pipe to SW06. pipe from SW04.
SW05	E = 384227.682 N = 397937.130	43.03	Hydro.Br. 41.21 Orifice 41.56 Overflow 42.20	1.82 +sump see hydro.B. details	1200	see detail	PCC	C250 675x675	3 1 0 2 rb	0 225Ø 1 300Ø 2 225Ø 3 150Ø rb 225Ø	41.21m 41.21m 41.44m 41.56m 42.20m	pipe to CS01. pipe from SW06. pipe from rwp. pipe orifice flow control. reverse backdrop overflow.
SW06	E = 384229.143 N = 397938.572	42.95	41.201	1.749	600	Type 4	Plastic	C250 675x675	1 0 2	0 300Ø 1 300Ø 2 300Ø	41.20m 41.20m 41.34m	pipe to CS01. pipe from SW04. pipe from SW07.
SW07	E = 384234.142 N = 397933.601	43.155	41.470	1.685	600	Type 4	Plastic	C250 675x675	0	0 300Ø	41.47m	pipe to SW06.
CS01	E = 384224.469 N = 397934.416	42.97	41.07	1.90	1200	Type 5	PCC	C250 675x675	1 0 3 2	0 225Ø 1 225Ø 2 225Ø 3 100Ø	41.07m 41.15m 41.20m 41.12m	pipe to existing manhole(Combined) pipe from SW05 (Surface water) pipe from re (Foul) BD level 42.087 pipe from svp (Foul)
FS01	E = 384256.201 N = 397902.844	43.20	41.39	1.81	600	see internal MH detail	PCC	double sealed lock down recess cover 675x675	0 1 2 4 3	0 225Ø 1 100Ø 2 100Ø 3 100Ø 4 100Ø	41.31m 41.42m 41.42m 41.42m 41.42m	pipe to CS01. from svp from floor connection from floor gully from floor gully.

NOTES

DO NOT SCALE

1. ALL FIGURED DIMENSIONS IN METRES UNLESS STATED OTHERWISE.
2. ALL FIGURED LEVELS IN METRES ABOVE DATUM UNLESS STATED OTHERWISE
3. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL CURRENT AND RELEVANT ARCHITECTURAL, M&E AND WSP DRAWINGS, SPECIFICATIONS, SCHEDULES AND DETAILS - ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY.
4. CONTRACTOR TO CONFIRM EXISTING INVERT LEVELS AT ALL PROPOSED CONNECTING OUTFALLS PRIOR TO COMMENCEMENT OF WORKS
5. CONNECTIONS POINTS ETC MAY BE SUBJECT TO CHANGE ON CLARIFICATION / FURTHER INVESTIGATION.
6. ALL LINEAR DRAIN AND GULLY OUTLET CONNECTIONS TO BE 150Ø LAID AT MIN 1:80 FALL, UNLESS NOTED OTHERWISE.
7. ALL PIPES, CHAMBERS & FITTINGS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS
8. ALL MANHOLE WITHIN WATER TABLE TO HAVE PROPRIETARY WATER INGRESS PREVENTION REFER TO STANDARD DETAILS
9. ALL MANHOLE COVER LEVELS TO BE CHECKED AGAINST FINAL EXTERNAL WORKS LAYOUT
10. ALL CHAMBER / GULLY / RODDING EYE COVERS TO BE CLASS C250 TO BS EN124. MANHOLE COVERS IN BLOCK PAVED AREAS TO BE INFILLED, RECESSED TO SUIT FINISHES.
11. EXISTING UTILITY COVERS TO BE ADJUSTED TO SUIT PROPOSED LEVELS.
12. ALL SADDLE CONNECTIONS TO BE CROWN TO CROWN
13. DRAINS TO BE LAID TO CONSTANT FALLS BETWEEN LEVELS
14. TYPE OF THRESHOLD DRAINS TO BE CONFIRMED BY ARCHITECT
15. LOCATION OF RWP's, SVPs, SSs & FS ARE INDICATIVE ONLY AND SUBJECT TO CONFIRMATION BY ARCHITECT / M&E
16. SETTING OUT OF DRAINAGE PENETRATION TO BE PROVIDED BY OTHERS
17. ALL WORKS SHALL BE IN ACCORDANCE WITH CURRENT RELEVANT SECTIONS OF:
    - BUILDING REGULATIONS
    - BRITISH STANDARDS
    - NEW ROADS AND STREET WORKS ACT
    - HEALTH AND SAFETY REGULATIONS
    - GOOD PRACTICE
20. ALL SVP AND RWP TO HAVE ABOVE GROUND RODDABLE ACCESS POINTS REF ARCHITECT/M&E DRAWINGS
21. SUSPENDED BASEMENT DRAINAGE SHOWN IS INDICATIVE ONLY. REFER TO M&E DRAWINGS. APPROPRIATE RODDING PROVISION TO BE PROVIDED TO SUSPENDED DRAINAGE
22. UNLESS OTHERWISE NOTED, ALL BELOW BUILDING FOUL DRAINAGE TO BE 100Ø. TO BE LAID AT MIN 1:40 WHERE NO W.C. CONNECTED, OR 1:80 FALL WHERE AT LEAST 1no. W.C. CONNECTED
23. FOR CHAMBER DETAILS REFER TO STANDARD DETAILS
24. REFER TO STANDARD DETAILS FOR ALL OTHER DETAILS
25. THE CONTRACTOR SHALL ALLOW FOR MAINTAINING ONE COMPLETE SET OF WSP DRAWINGS ON SITE TO RECORD ANY CHANGES MADE TO THE ENGINEERING DESIGN DURING THE CONSTRUCTION PHASE FOR THE PRODUCTION OF THE AS BUILT DRAWINGS FOR THE DEVELOPMENT
26. PIPEWORK TO HAVE BED AND SURROUND AS INDICATED IN SPECIFICATION
27. IT IS ASSUMED THAT KITCHEN GREASE TRAPS WILL BE PROVIDED ABOVE GROUND REF. M&E AND ARCHITECTS
28. DRAWING TO BE READ IN CONJUNCTION WITH NBS SPECIFICATION

EXISTING MANHOLES AND DRAINS

1. THE POSITIONS AND LEVELS SHOWN FOR EXISTING MANHOLES AND DRAINS ARE APPROXIMATE.
2. AT THE COMMENCEMENT OF WORKS THE CONTRACTOR SHALL UNDERTAKE A FULL SURVEY OF THE EXISTING DRAINAGE TO VERIFY THE DETAILS SHOWN. ANY SIGNIFICANT DIFSREPANCIES OR ANY ADDITIONAL DRAINAGE NOT IDENTIFIED SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
3. IF ANY EXISTING FOUL OR SURFACE WATER DRAIN THAT HAS NOT BEEN IDENTIFIED IS FOUND WITHIN THE SITE THE CONTRACTOR IS TO INVESTIGATE THE ORIGIN AND STATUS OF THE DRAIN AND REPORT TO THE ENGINEER FOR INSTRUCTION.
4. REDUNDANT DRAINS ARE TO BE DEALT WITH AS FOLLOWS:
   A. WITHIN THE FOOTPRINT OF THE NEW BUILDING:- DRAINS ARE TO BE REMOVED AND THE RESULTING TRENCH BACKFILLED AND COMPACTED WITH SUITABLE FILL MATERIAL.
   B. OUTSIDE THE BUILDING FOOTPRINT:
      DEPTH >1.0m FROM FINISHED LEVELS TO CROWN OF PIPE :- DRAINS ARE TO BE ABANDONED
      DEPTH <1.0m FROM FINISHED LEVELS TO CROWN OF PIPE:- DRAINS TO BE REMOVED AND BACKFILLED.
   C. ALL ABANDONED DRAIN RUNS SHALL BE SEALED AT EACH END WITH GEN3 CONCRETE.
5. MANHOLES TO BE REMOVED SHALL BE COMPLETELY BROKEN OUT AND BACKFILLED WITH SUITABLE COMPACTED FILL MATERIAL. UNDAMAGED COVERS AND FRAMES SHALL BE RETAINED ON SITE FOR RE-USE WHERE APPROPRIATE.
6. WHERE NEW MANHOLES ARE TO BE CONSTRUCTED ON EXISTING DRAIN RUNS, ROCKER PIPES SHALL BE INSTALLED ON ALL ENTRIES, INCLUDING THE EXISTING RUN, IN ACCORDANCE WITH THE SPECIFICATION.

MAINTAINING FLOWS IN EXISTING DRAIN RUNS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING NORMAL FLOW WITHIN THE EXISTING LIVE SURFACE WATER AND FOUL DRAINS THROUGHOUT THE CONTRACT. THIS SHALL INCLUDE DEALING WITH FLOW ORIGINATING OUTSIDE THE SITE BOUNDARY AND ENTERING THE SITE THROUGH THE EXISTING DRAINAGE SYSTEM.
2. NO EXISTING DRAINS OR MANHOLES SHALL BE STOPPED UP, DIVERTED OR REMOVED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
3. UNDER NO CIRCUMSTANCES SHALL SURFACE/GROUND WATER BE DIFSHARGED INTO ANY FOUL DRAIN OR MANHOLE OR, FOUL FLOW DIFSHARGED INTO ANY SURFACE WATER SYSTEM, EXISTING OR PROPOSED.

DEALING WITH GROUNDWATER

1. ALL PIPES JOINTS TO HAVE APPROPRIATE SEALING RING.
2. PIPE ENTRIES AND CONSTRUCTION JOINTS TO HAVE SWELLABLE WATERSTOP STRIPS .
3. REF. NOTES ON MANHOLE CONSTRUCTION DETAILS

TYPICAL ABOVE GROUND RODDING POINT DETAIL
pipe material/connections vary

1:125@ A1
1:250@ A3
0 2 4 6 8 10 12 m

KEY

- PROPOSED SDS STORAGE TANK (0.5m DEEP PROVIDING 23.9m³ OF STORAGE BASED ON 95% VOID RATIO) AND ADJACENT 300mmØ FILTER DRAIN
- PROPOSED SURFACE WATER SEWER
- RWP — INDICATIVE LOCATION OF RWP'S TBC BY ARCHITECT
- FG — TRAPPED SW FLOOR GULLY
- RE — SURFACE WATER RODDING EYE
- SW PPIC — PROPOSED PLASTIC 600DIA SURFACE WATER MANHOLE
- SW MH — PROPOSED PRECAST CONCRETE 1200mmØ SURFACE WATER MANHOLE
- PROPOSED PRECAST CONCRETE 1200mmØ SURFACE WATER COMPLEX FLOW CONTROL CHAMBER
- LINEAR DRAINAGE WITH FOUL AIR TRAPPED OUTLET SUBJECT TO PROPOSED EXTERNAL LEVELS PROPOSED
- FS MH — PROPOSED PRECAST CONCRETE 1200mmØ FOUL SEWER MANHOLE
- FOUL WATER SEWER
- FC — FOUL FLOOR CONNECTION
- SS — FOUL STUB STACK
- SVP — FOUL SOIL VENT PIPE
- FG — TRAPPED FOUL FLOOR GULLY
- RE — FOUL RODDING EYE
- PROPOSED COMBINED SEWER
- CS MH — PROPOSED PRECAST CONCRETE 1200mmØ COMBINED SEWER MANHOLE
- PROPOSED INDICATIVE SUSPENDED DRAINAGE WITHIN BASEMENT, REFER TO M&E DETAILS
- EXISTING UNITED UTILITIES COMBINED SEWER
- EXISTING COMBINED SEWER CONSTRUCTED BY OTHERS
- EXISTING DRAINAGE CONNECTION FOR 55 PORTLAND STREET, AS CONSTRUCTED LEVELS TO BE CONFIRMED PRIOR TO COMMENCEMENT ON SITE
- SITE BOUNDARY
- SURFACE WATER FLOOD EXCEEDENCE ROUTE
- PIPES CAST INTO PIPE CAP

REV	DATE	BY	DESCRIPTION	CHK	APP
P17	04/06/2020	ML	AS BUILT INFO ADDED		ML
P16	26/07/2019	JL	INTERCEPTOR ADDED	JL	CO
P15	25/07/2019	JL	REV. FOLLOWING BR COMMENTS	JL	CO
P14	16/07/2019	ML	ATTENUATION TANK UPDATED	CO	ML
P13	11/07/2019	ML	ARCHITECTS COMMENTS INCORPORATED	CO	ML
P12	11/07/2019	ML	UPDATED TO LATEST ARCHITECTS LAYOUT	CO	ML
P11	11/07/2019	ML	ATTENUATION TANK MOVED TO AVOID DUCTS	CO	ML
P10	10/07/2019	ML	GENERAL UPDATE	CO	ML
P09	02/07/2019	ML	BASEMENT DRAINAGE UPDATED	JL	ML
P08	01/07/2019	ML	EXTERNAL NOTE AND BASEMENT AND CRANE BASE DRAINAGE UPDATED	JL	ML
P07	18/06/2019	JL	CONSTRUCTION ISSUE	JL	ML

DRAWING STATUS: A - FIT FOR CONSTRUCTION

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CLIENT: PROPERTY ALLIANCE GROUP

ARCHITECT: LEACH RHODES WALKER

SITE/PROJECT: 55 PORTLAND STREET

TITLE: DRAINAGE LAYOUT

SCALE @ A1:	CHECKED:	APPROVED:
1:125	ML	ML

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70048672	EG	JL	June 20

DRAWING No: 70048672-WSP-D-002 REV: P17

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