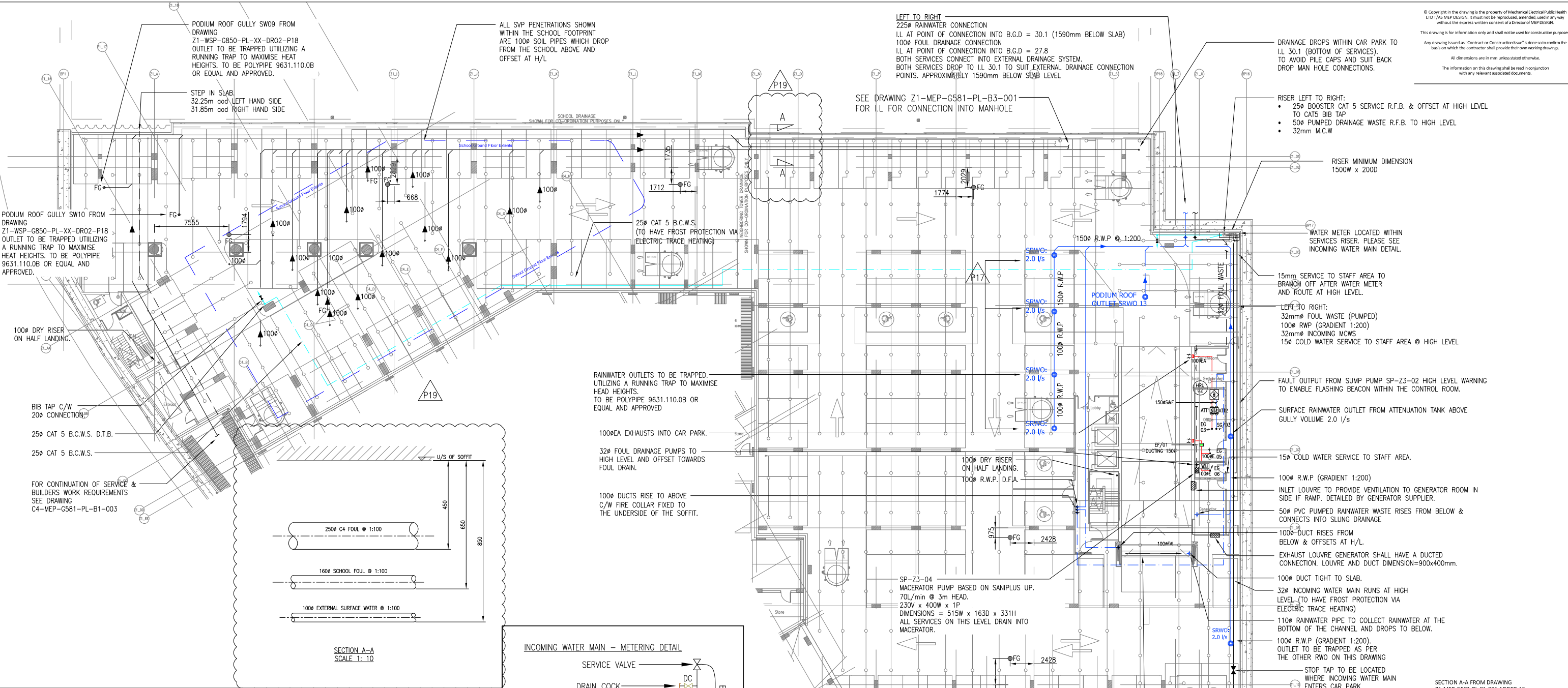




LEGEND

H.W.S.	HOT WATER SERVICES.
R.F.B.	RISE FROM BELOW.
R.T.A.	RISE TO ABOVE.
D.F.A.	DROP FROM ABOVE.
D.T.	DROP TO.
L/L	LOW LEVEL.
H/L	HIGH LEVEL.
C/V	CEILING VOID.
R/V	ROOF VOID.
—	PIPEWORK RUN AT LOW LEVEL.
---	PIPEWORK RUN IN CEILING/ROOF VOID.
✕	ISOLATION VALVE.
PRV	PRESSURE REDUCING VALVE.
WH	WATER HEATER - SEE NOTE 8.0
FG	FLOOR GULLY

DETAIL

F/L TO CEILING HEIGHT = 2550mm

GENERAL NOTES

- 1.0 THE DRAWING SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION & ALL OTHER RELEVANT DOCUMENTS & DRAWINGS PROVIDED BY MEP DESIGN.
- 2.0 THE DRAWING INDICATES THE DESIGN INTENT FOR THE WORKS.
- 3.0 COORDINATION WORKING DRAWINGS, INSTALLATION DRAWINGS & BUILDERS WORK DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR.
- 4.0 DIMENSIONS SHALL NOT BE SCALED FROM THE DRAWING & THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL DIMENSIONS & LEVELS ON SITE FOR THE ACTUAL SETTING OUT OF THE WORKS.

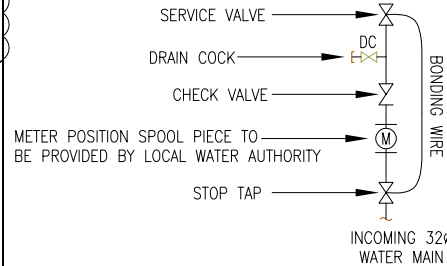
DOMESTIC SERVICES NOTES

- 1.0 THE INSTALLATION & TESTING OF THE DOMESTIC WATER INSTALLATION SHALL BE IN ACCORDANCE WITH BS 8558:2015, APPROVED DOCUMENT G & THE WATER REGULATION GUIDE 1999.
- 2.0 THE INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF HSAC ACOP L8, HSE HSG PART 2 & CIBSE TM13 ON THE CONTROL OF LEGIONELLA BACTERIA IN WATER SYSTEMS.
- 3.0 ALL PIPEWORK SHALL BE INSULATED IN ACCORDANCE WITH BS 5970.
- 4.0 ALL SIZING SHALL BE IN ACCORDANCE WITH BS 8558:2015 & BS EN 806-3 2006.
- 5.0 DRAIN COCKS SHALL BE INSTALLED AT ALL LOW POINTS.
- 6.0 ALL CONCEALED PIPEWORK TO BE ACCESSIBLE.
- 7.0 ALL COLD & HOT WATER PIPEWORK REQUIRED TO BE INSULATED AND TRACE HEATED.
- 8.0 ARISTON ANDRIS UNDERSINK ELECTRIC WATER HEATER. PRODUCT CODE 3100309, OR EQUAL AND APPROVED. UNIT MUST HAVE 15L STORAGE, WITH A 3kW ELECTRICAL IMMERSION. VALVE ARRANGEMENT AND EXPANSION REQUIREMENTS MUST BE IN LINE WITH MANUFACTURERS INSTRUCTIONS.

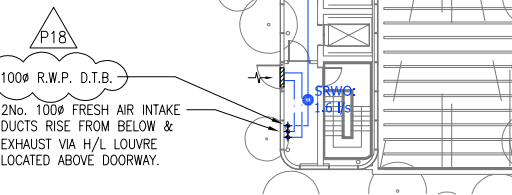
ABOVE GROUND DRAINAGE NOTE

- 1.0 FLOOR GULLY SELECTION BASED ON BLUCHER 755.503.110 S. DIAMETER = 305Ø GRATING = 790.273.000.28S REMOVABLE TRAP = 562.102.000S
- 2.0 SETTING OUT INFORMATION PROVIDED FOR GULLY'S IS TO THE CENTER.

INCOMING WATER MAIN - METERING DETAIL



SEE DRAWING Z1-SHP-G260-PL-XX-001 FOR OUTLET SETTING OUT POSITIONS



GROUND FLOOR

LEFT TO RIGHT
225Ø RAINWATER CONNECTION
I.L. AT POINT OF CONNECTION INTO B.G.D. = 30.1 (1590mm BELOW SLAB)
100Ø FOUL DRAINAGE CONNECTION
I.L. AT POINT OF CONNECTION INTO B.G.D. = 27.8
BOTH SERVICES CONNECT INTO EXTERNAL DRAINAGE SYSTEM.
BOTH SERVICES DROP TO I.L. 30.1 TO SUIT EXTERNAL DRAINAGE CONNECTION POINTS. APPROXIMATELY 1590mm BELOW SLAB LEVEL

SEE DRAWING Z1-MEP-G581-PL-B3-001 FOR I.L. FOR CONNECTION INTO MANHOLE

DRAINAGE DROPS WITHIN CAR PARK TO I.L. 30.1 (BOTTOM OF SERVICES). TO AVOID FLE CAPS AND SUIT BACK DROP MAN HOLE CONNECTIONS.

RISER LEFT TO RIGHT:
• 25Ø BOOSTER CAT 5 SERVICE R.F.B. & OFFSET AT HIGH LEVEL TO CATS BIB TAP
• 50Ø PUMPED DRAINAGE WASTE R.F.B. TO HIGH LEVEL
• 32mm M.C.W.

RISER MINIMUM DIMENSION 1500W x 200D

WATER METER LOCATED WITHIN SERVICES RISER. PLEASE SEE INCOMING WATER MAIN DETAIL.

15mm SERVICE TO STAFF AREA TO BRANCH OFF AFTER WATER METER AND ROUTE AT HIGH LEVEL.
LEFT TO RIGHT:
32mmØ FOUL WASTE (PUMPED)
100Ø RWP (GRADIENT 1:200)
32mmØ INCOMING MCWS
15Ø COLD WATER SERVICE TO STAFF AREA @ HIGH LEVEL

FAULT OUTPUT FROM SUMP PUMP SP-Z3-02 HIGH LEVEL WARNING TO ENABLE FLASHING BEACON WITHIN THE CONTROL ROOM.

SURFACE RAINWATER OUTLET FROM ATTENUATION TANK ABOVE GULLY VOLUME 2.0 l/s

15Ø COLD WATER SERVICE TO STAFF AREA.

100Ø R.W.P. (GRADIENT 1:200)
INLET LOUVE TO PROVIDE VENTILATION TO GENERATOR ROOM IN SIDE IF RAMP. DETAILED BY GENERATOR SUPPLIER.

50Ø PVC PUMPED RAINWATER WASTE RISES FROM BELOW & CONNECTS INTO SLUNG DRAINAGE

100Ø DUCT RISES FROM BELOW & OFFSETS AT H/L

EXHAUST LOUVE GENERATOR SHALL HAVE A DUCTED CONNECTION. LOUVE AND DUCT DIMENSION=900x400mm.

100Ø DUCT TIGHT TO SLAB.

32Ø INCOMING WATER MAIN RUNS AT HIGH LEVEL (TO HAVE FROST PROTECTION VIA ELECTRIC TRACE HEATING)

110Ø RAINWATER PIPE TO COLLECT RAINWATER AT THE BOTTOM OF THE CHANNEL AND DROPS TO BELOW.

100Ø R.W.P. (GRADIENT 1:200). OUTLET TO BE TRAPPED AS PER THE OTHER RWO ON THIS DRAWING

STOP TAP TO BE LOCATED WHERE INCOMING WATER MAIN ENTERS CAR PARK.

HEAVY DUTY DRAINAGE CHANNEL AND GRATING INSTALLED AT THE BOTTOM OF THE RAMP. WIDTH SHALL BE 500mm. THE GRATING SHALL BE THIELCO TYPE A "SHELL STANDARD" WITH ANTI-SLIP AND DIAGONAL SLOTS TO BREAK UP THE STREAM OF WATER AND DRAIN IT AWAY QUICKLY.

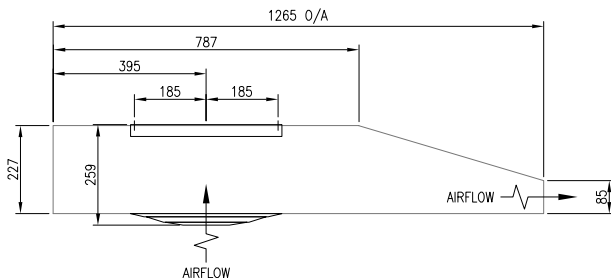
SECTION A-A FROM DRAWING Z1-MEP-G581-PL-B3-001 ADDED AS REQUESTED BY DANIEL IRONS	JAN 23
P18 REVISED AS CLOUDED	NOV 22
P17 REVISED AS CLOUDED	NOV 22
P16 BASEPLAN UPDATED TO INCLUDE GENERATOR	OCT 22

OUTLET RELOCATED FOLLOWING SITE SURVEY. UPDATED TO MATCH SCHOOL DRAINAGE LAYOUT & UPDATED TO SUIT LATEST GA	SEPT 22
P15 EXTERNAL SURFACE WATER DRAINAGE ADDED	JULY 22
P13 ADDITIONAL SCHOOL DRAINAGE ADDED	JUNE 22
P12 DRAINAGE DETAIL UPDATED	JUNE 22
P11 UPDATED TO SUIT COMMENTS	MAY 22
P10 SCHOOL DRAINAGE ADDED	MAR 21

REVISED COMMENT ISSUE	
P09 DRY RISER ADDED	NOV 21
P08 COMMENTS INCORPORATED	SEPT 21
P07 GULLY SETTING OUT DIMENSIONED	FEB 21
P06 REVISED AS CLOUDED	JAN 21
P05 UPDATED TO SUIT REVISED BASE PLANS	DEC 20
P04 BLUE ROOF GULLY POSITIONS MODIFIED	OCT 20
P03 INCORPORATED COMMENTS	OCT 20
P02 ISSUED FOR COMMENT	JULY 20
P01 ISSUED FOR COMMENT	JUNE 20

Revision Description Date

CAR PARK IMPULSE FAN DETAIL
BASED ON PSB MANUFACTURING PROVIDING 1.68M³/S
NOT TO SCALE
DETAIL TAKEN FROM PSB

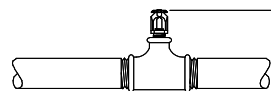


SPRINKLER DETAIL

DETAIL TAKEN FROM FALCON FIRE LAYOUT DRAWING W_20.160-01

UNDERSIDE OF CEILING

75-150mm



MEP DESIGN
10 The Hillcock, Harwood, Bolton, BL2 3HP
www.mepdesign.co.uk

Client										
Project	CROWN STREET PHASE 2									
Title	PUBLIC CAR PARK MECHANICAL SERVICES PROPOSED BASEMENT 1 COORDINATED MECHANICAL SERVICES LAYOUT									
Scale	1 : 200 @A1				Drawn			W.H.		
Project No.	Zone	Originator	Uniclass	Type	Level	Code	Rev	Code	Rev	
19_021	Z3	MEP	G590	PL	B1	-003	P19			