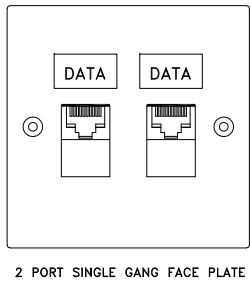
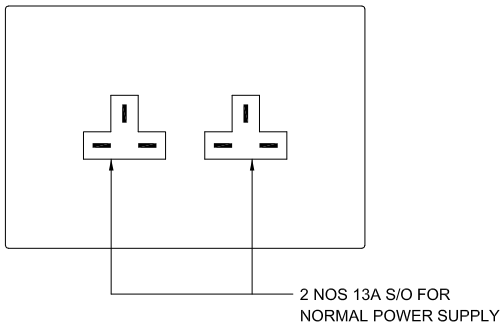


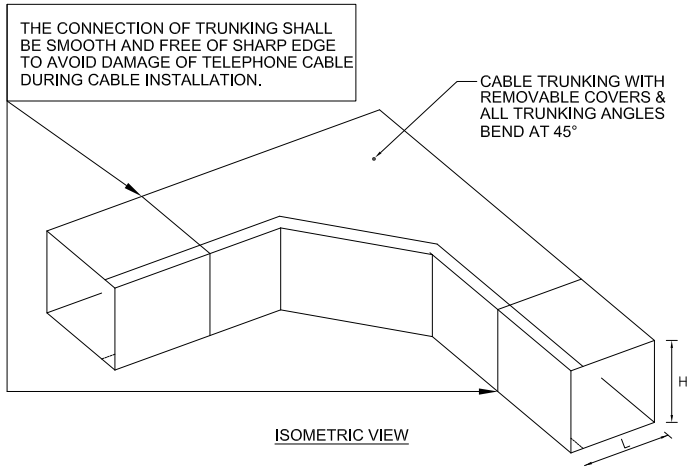
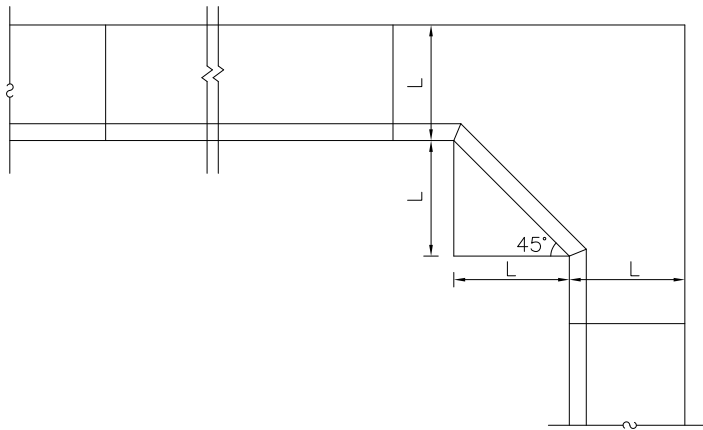
GENERAL NOTES :

1. INSTALLATION SPECIFIED HEREIN SHALL BE CARRIED OUT TO COMPLY WITH LOCAL RULES, REGULATIONS, CODE OF PRACTICE AND REQUIREMENT OF RELEVANT AUTHORITIES .
2. INSTALL AND COORDINATE LEVELS OF LIGHT FIXTURES, AND OTHER ACCESSORIES WITH FALSE CEILING LEVEL .
3. CONTRACTOR SHALL SUBMIT SAMPLES, TECHNICAL DATA AND SHOP DRAWINGS SHOWING THE EXACT ROUTING OF DUCTWORK & PIPEWORK, LOCATION OF EQUIPMENT, INSTALLATION DETAILS, ETC. PRIOR TO INSTALLATION .
4. EARTHING & EQUIPOTENTIAL BONDING CONDUCTORS ARE NOT ALWAYS SHOWN ON THE DRAWING . ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SUCH PROVISION ACCORDING TO SUPPLY RULES, CODE OF PRACTICE AND REGULATIONS .
5. PROVIDE SECURITY CONDUIT POINT, EXACT LOCATION TO BE COORDINATED ON SITE WITH SECURITY VENDOR .
6. LIGHTING TRANSFORMER SHALL BE ENCLOSED IN METAL ENCLOSURES . ALL PLASTIC WIRE OR NON-METAL PARTS OR EQUIVALENT SHALL NOT BE PLACED OR MOUNTED INSIDE RETURN AIR PLENUM CEILING .
7. DISMANTLE EXISTING UNUSED ELECTRICAL SERVICES .
8. EXISTING SPEAKER TO BE REMAINED .
9. ALL CONDUIT AND FLEXIBLE CONDUIT SHALL BE G. I. WITHOUT PLASTIC SHEATH .
10. ALL SOCKET OUTLET AND FUSED SPUR UNIT INSIDE CEILING VOID SHALL BE COMPLIED WITH FIRE SERVICES REGULATION.
11. CABLE SIZE SHALL BE AS FOLLOW IF NOT EXPLICITLY STATED .
12. TRUNKING AND CONDUIT FOR POWER CABLES ARE NOT INDICATED COMPLETELY ON DRAWINGS. CONTRACTOR SHALL INCLUDE ALL NECESSARY TRUNKING / CONDUIT IN CEILING / PARTITION, UNDER RAISED FLOOR AS REQUIRED FOR THE PROJECT.
13. THE SUBMISSION OF FORM 25 I TO FSD OF EMERGENCY LIGHT IS REQUIRED UNDER THIS CONTRACT .
14. LOCATION & MOUNTING METHOD FOR SOCKET OUTLET & DATA/VOICE CONDUIT POINT IN MEETING ROOM SHOULD BE SUBJECT TO INTERIOR DESIGNER .
15. NEW CABLE SHALL BE USED AND ALL INSTALLATION SHALL COMPLY TO EMSD & HKSAR NEW CABLE CODE .



01 TYPICAL DETAIL OF TWIN SOCKET OUTLET

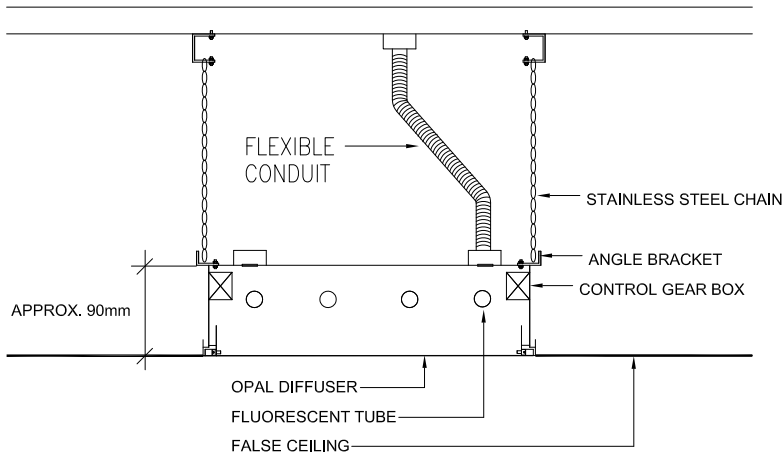
02 TYPICAL DETAIL OF DATA OUTLET



- NOTES:
1. THE CONNECTION OF G.I. TRUNKING SHALL BE SMOOTH AND FREE OF FRAYED AND SHARP EDGE TO AVOID DAMAGE OF CABLE DURING CABLE INSTALLATION.
  2. CONNECTING PIECES SHALL BE USED TO CONNECT TOGETHER RUN OF G.I. TRUNKING. EACH JOINT SHALL HAVE A COPPER BOND BOLTED TO EACH ADJACENT TRUNKING TO ENSURE ELECTRICAL CONTINUITY.
  3. ALL SCREW-NUTS SHALL BE PLACED OUTSIDE THE TRUNKING.

04 PART VIEW OF TELEPHONE TRUNKING

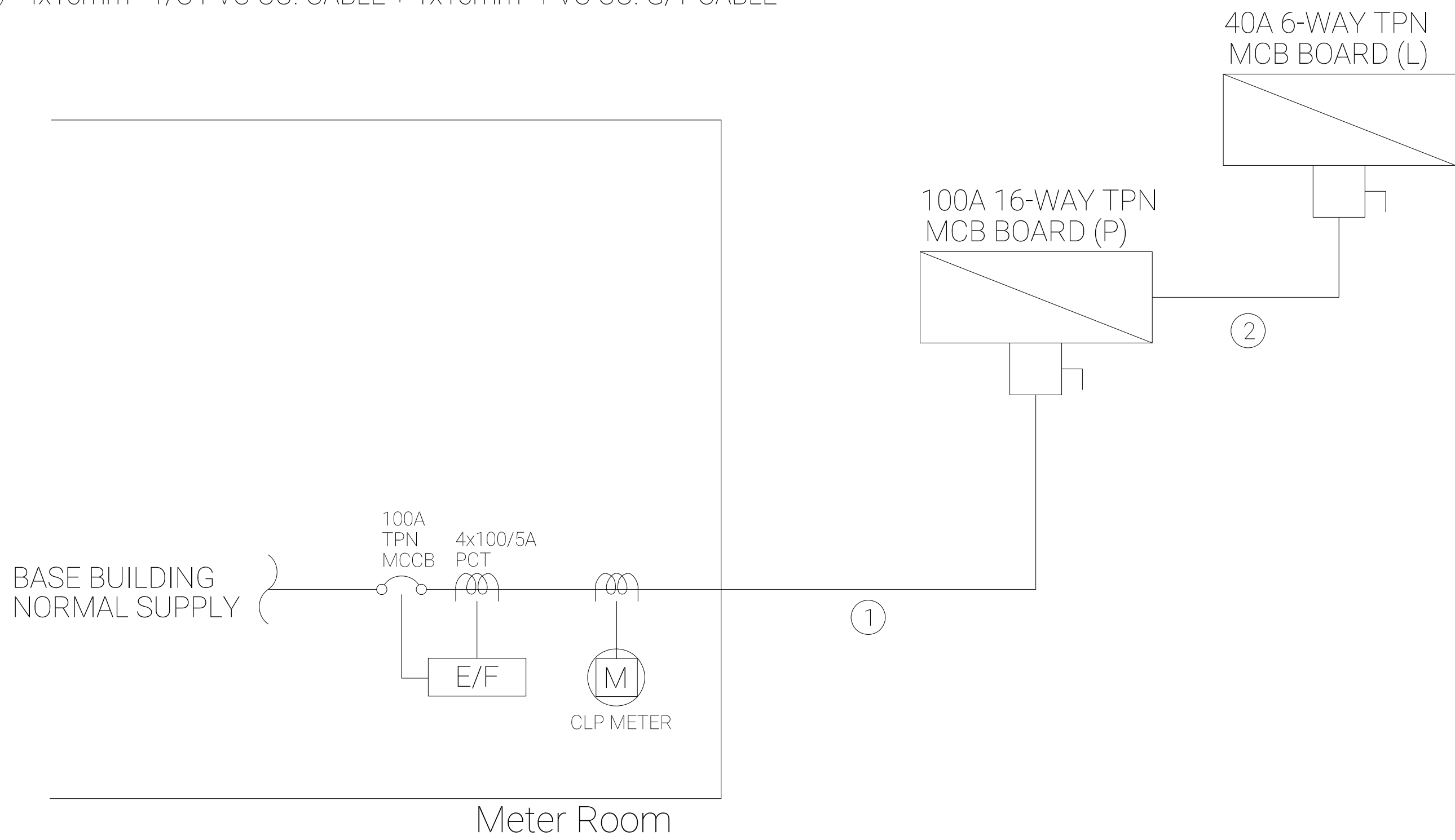
05 TYPICAL DETAIL OF POWER SUPPLY & DATA SOCKET OUTLET ARRANGEMENT



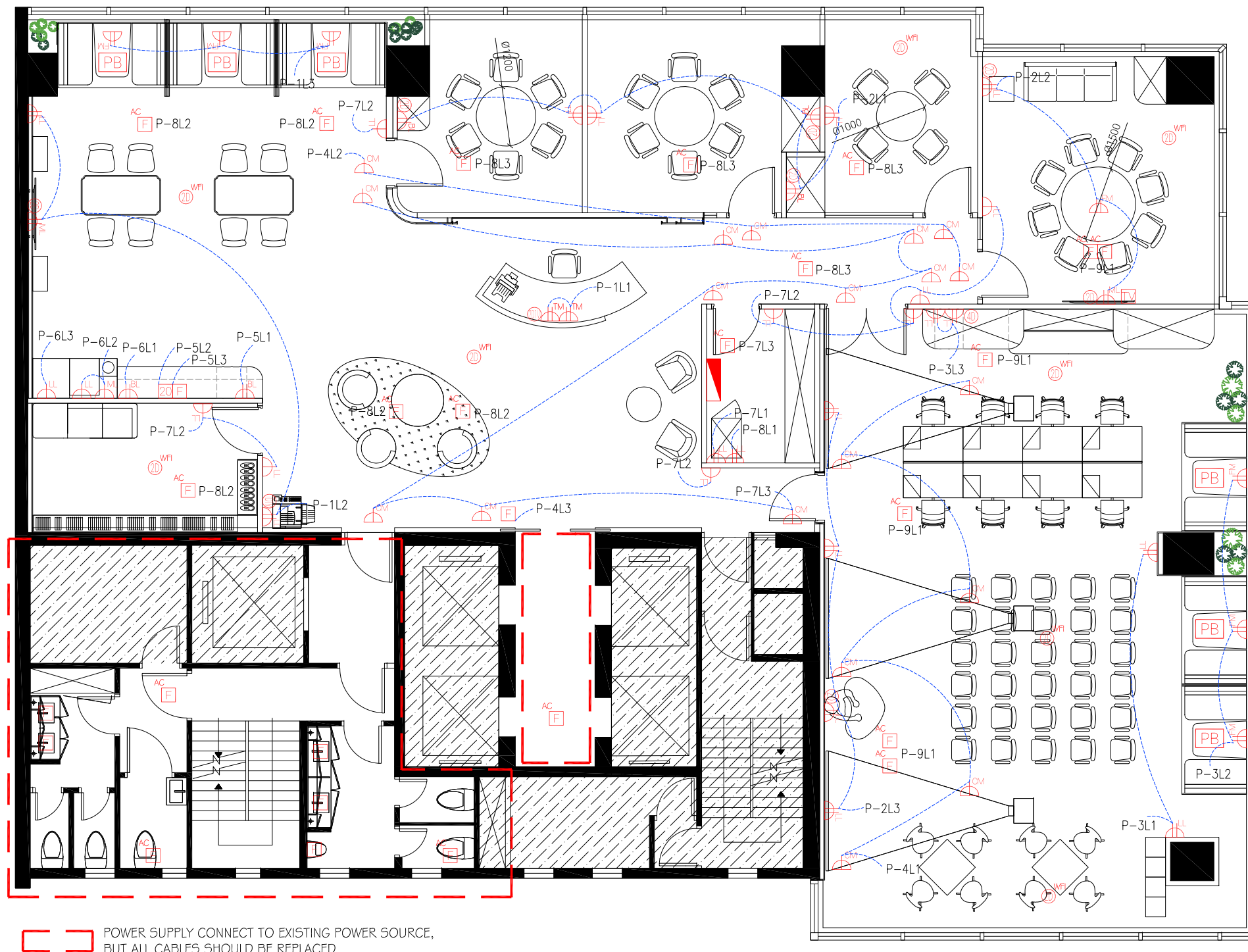
06 TYPICAL FIXING DETAIL FOR LIGHT PANEL

Cable Size:













- ① 4x35mm<sup>2</sup>+1x25mm<sup>2</sup> 1/C XLPE CABLE
- ② 4x16mm<sup>2</sup> 1/C PVC CU. CABLE + 1x16mm<sup>2</sup> PVC CU. G/Y CABLE





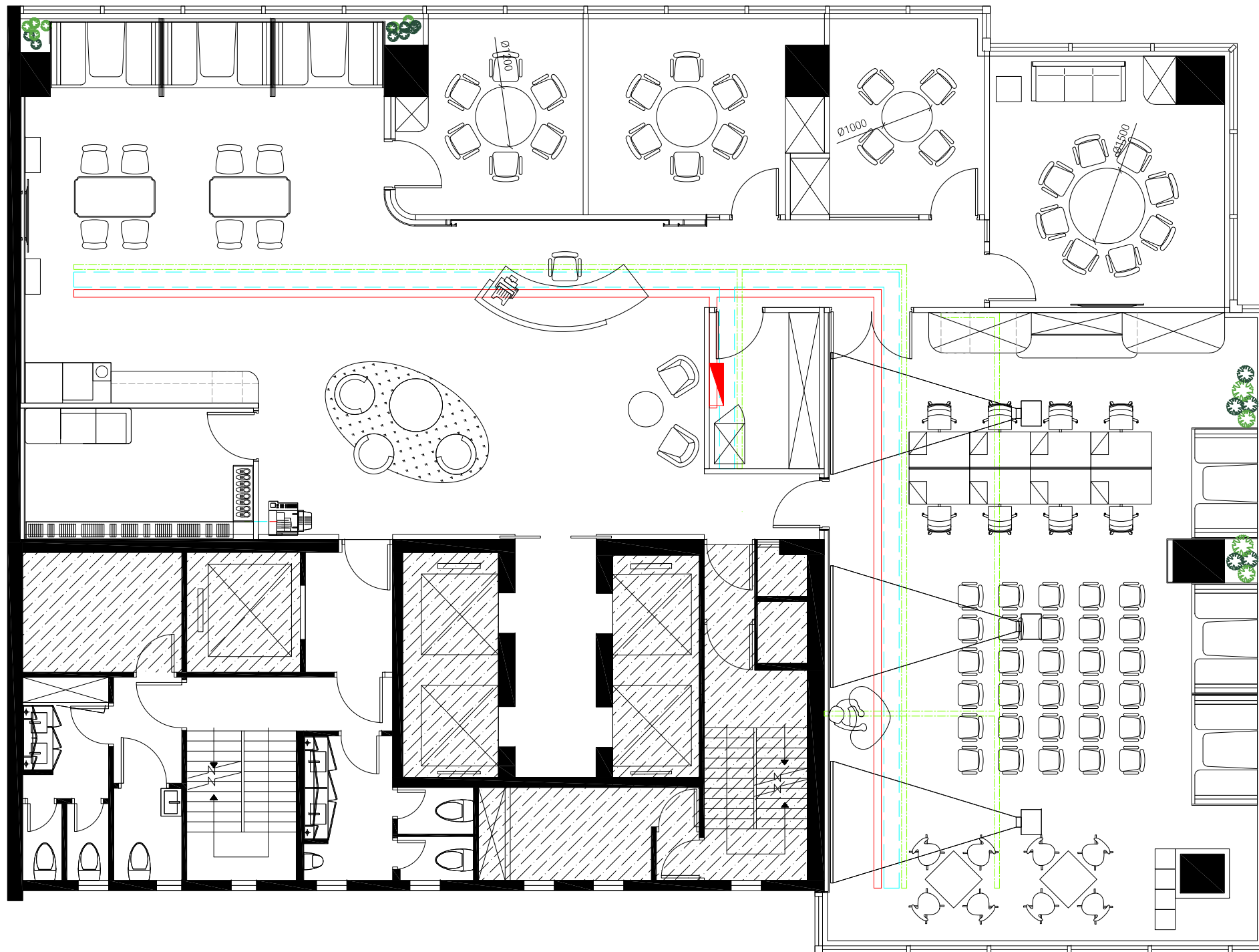


POWER SUPPLY CONNECT TO EXISTING POWER SOURCE,  
BUT ALL CABLES SHOULD BE REPLACED

LEGEND			
SYMBOL		DESCRIPTION	
		MCB BOARD	
		13A SOCKET OUTLET	
		13A TWINS SOCKET OUTLET	
		13A TWINS SOCKET OUTLET WITH USB CHARGE PORT	
		DATA / VOICE OUTLET POINT	
		20A CONNECTION UNIT	
		32A COCKER SWITCH	
		63A SPINISOLATOR SWITCH	
		13A FUSE SPUR UNIT	
		TV OUTLET CONNECT TO BASE BUILDING TV SIGNAL	
		16A SPIN COMMANDO SOCKET	
		POWER MODULE WITH 2 NOS. UK POWER, 1 NO. PD65W, 1 NO. USB	
"XX" REFER TO THE BELOW ABBREVIATION AS FOR INSTALLATION LEVEL			
LL	SKIRTING LEVEL	WIFI	WIFI PORT
ML	MIDDLE LEVEL		
HL	HIGH LEVEL		
CM	CEILING MOUNTED		
FM	FLOOR MOUNTED		
FB	FLOOR BOX		
BL	BENCH LEVEL		
TM	TABLE MOUNTED		

#### REMARKS

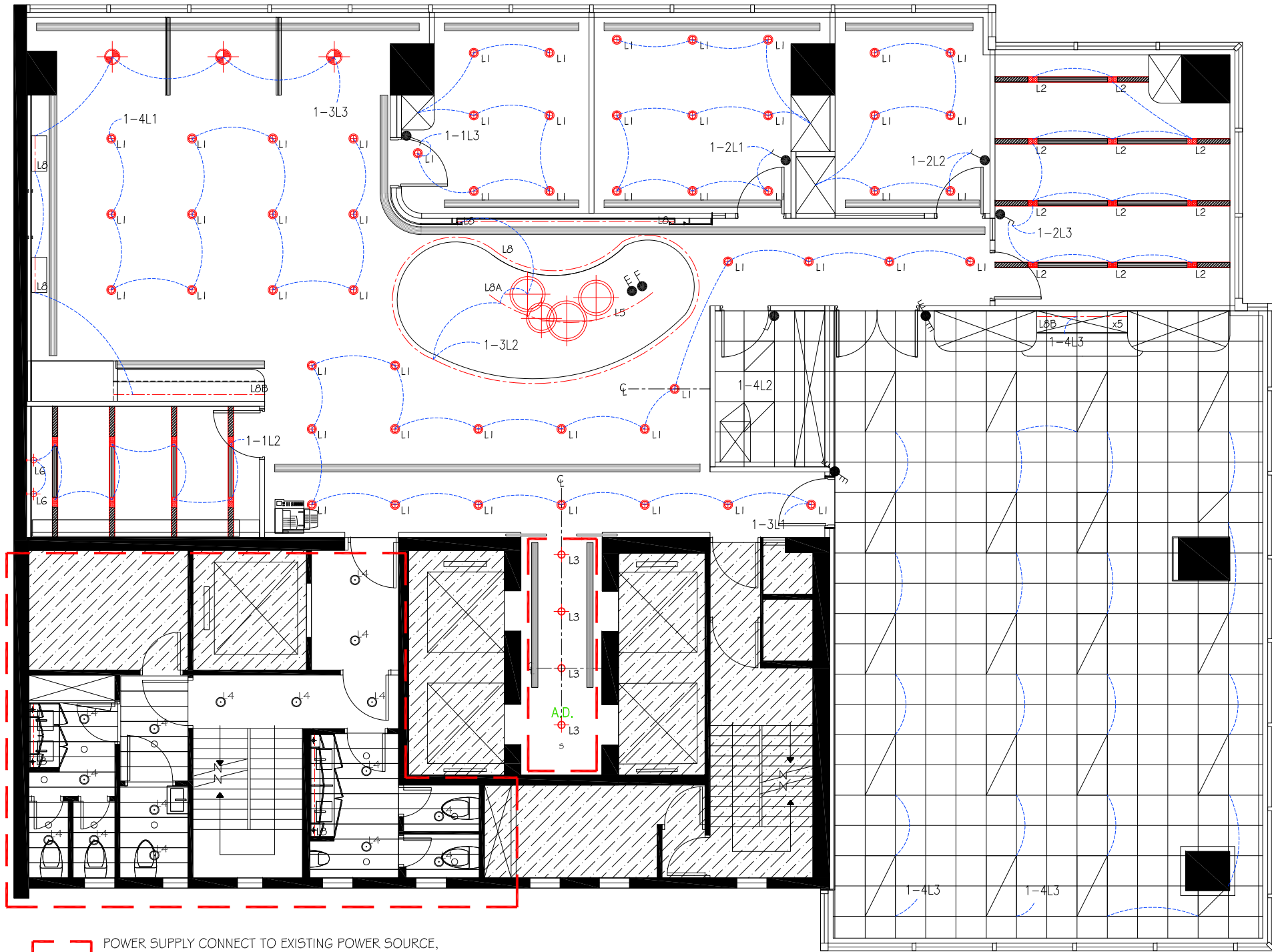
- ONE CIRCUIT MAXIMUM CAN ONLY BE CONNECTED TO 4 NO. WORKSTATION
- THE CIRCUIT FOR WORKSTATION CANNOT BE CONNECTED TO CLEANING SOCKET.
- POWER SOCKET FOR EACH SERVER RACK SHOULD BE CONNECTED TO INDEPENDENT CIRCUIT.
- NUMBERS OF 13A FUSE SPUR UNIT FOR FAN COIL UNIT, PLEASE REFER TO THE NUMBERS OF FAN COIL UNIT SHOWN ON THE MVAC SERVICE PLAN
- THE CONTRACTOR IS REQUIRED TO VERIFY THE ACTUAL LOCATION & ROUTE OF ALL MEP RELATED SERVICES ON SITE. ANY DISCREPANCY FOUND BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS MUST BE SUBMITTED FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK. ANY CLAIMS ON WORK DONE WITHOUT PRIOR APPROVAL WILL NOT BE ACCEPTED AND AT THE CONTRACTOR'S OWN RISK.
- THE CONTRACT IS REQUIRED TO SUPPLY AND INSTALL ALL CABLE CONTAINMENTS FOR ELV SYSTEM, INCLUDING IT, AV, ACCESS CONTROL AND CCTV.



LEGEND	
SYMBOL	DESCRIPTION
	150x100MM POWER TRUNK FOR POWER CABLE
	300x100MM CABLE TRUNK FOR IT CABLE
	100x100MM ELV TRUNK FOR ELV CABLE

- REMARKS
1. THE CONTRACTOR IS REQUIRED TO VERIFY THE ACTUAL LOCATION & ROUTE OF ALL MEP RELATED SERVICES ON SITE. ANY DISCREPANCY FOUND BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS MUST BE SUBMITTED FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK. ANY CLAIMS ON WORK DONE WITHOUT PRIOR APPROVAL WILL NOT BE ACCEPTED AND AT THE CONTRACTOR'S OWN RISK.
  2. THE CONTRACT IS REQUIRED TO SUPPLY AND INSTALL ALL CABLE CONTAINMENTS





LEGEND		
SYMBOL	CODE	DESCRIPTION
	L1	1.5W RECESSED ADJUSTABLE ANGLE LED DOWNLIGHT (3500K)
	L2	2x8W RECESSED TWINS LED DOWNLIGHT (3500K)
	L3	10W 3500K LED DOWN LIGHT
	L4	DOWN LIGHT TO BE MATCHED WITH EXISTING
	L5	RECEPTION PEDANT LAMPS
	L6	WALL LAMPS
	L7	PANTRY BOOTH SEATING PEDANT LAMPS
	L8	LED LIGHT STRIP
	L9	NEW 600x600 LIGHT PANEL WITH 3NOS. LED LIGHT TUBE (MODULE SAME AS EXISTING)
	L10	NEW 1200x600 LIGHT PANEL WITH 3NOS. LED LIGHT TUBE (MODULE SAME AS EXISTING)
		1, 2, 3 GANG LIGHT SWITCH
		TWO WAY LIGHT SWITCH

#### REMARKS

1. LOCATION AND LAYERS OF LED STRIP, PLEASE REFER TO FURNITURE DETAIL AND ELEVATION.
2. THE CONTRACTOR IS REQUIRED TO VERIFY THE ACTUAL LOCATION & ROUTE OF ALL MEP RELATED SERVICES ON SITE. ANY DISCREPANCY FOUND BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS MUST BE SUBMITTED FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK. ANY CLAIMS ON WORK DONE WITHOUT PRIOR APPROVAL WILL NOT BE ACCEPTED AND AT THE CONTRACTOR'S OWN RISK.
3. THE CONTRACT IS REQUIRED TO SUPPLY AND INSTALL ALL CABLE CONTAINMENTS

GENERAL NOTES

1. ALL DIMENSIONS SHOWN ON THIS SET OF DRAWING ARE IN MM UNLESS OTHERWISE STATED.

2. INSTRUMENT TEST PORTS

LOCATIONS OF DUCT SECTIONS REQUIRING PROVISIONS OF INSTRUMENT TEST PORTS FOR MEASUREMENT PURPOSES ARE NOT SHOWN ON THE TENDER DRAWINGS.

THE PRINCIPLE REQUIREMENTS ARE THAT DUCT AIR FLOWS CAN BE MEASURED AT STRATEGICAL LOCATIONS TO AID AND VERIFY SYSTEM BALANCING. LOCATE TEST PORTS AT SECTIONS WITH LEAST TURBULENCE IN AIR FLOW.

FOR A RECTANGULAR DUCT, PROVIDE PORTS SPACE AT 150MM CENTRES, (BUT NOT LESS THAN 2 PORTS) ACROSS ONE ACCESSIBLE FACE OF THE DUCT.

3. BRANCH PIPE SIZES

UNLESS OTHERWISE SHOWN ON THE DRAWINGS, PROVIDE BRANCH PIPES SIZES AS FOLLOWS:

- CHILLED WATER FLOW AND RETURN TO AND FROM EACH FAN COIL UNIT

: 25 MM DIA. UP TO 8KW  
32 MM DIA. BETWEEN 8KW AND 18KW  
40 MM DIA. ABOVE 18KW
- CONDENSATE DRAIN PIPE FROM EACH FAN COIL UNIT

: 25 MM DIA. UP TO 17.6KW  
32 MM DIA. BETWEEN 17.6KW & 105.5KW  
40 MM DIA. BETWEEN 105.5KW & 175.8KW  
50 MM DIA. BETWEEN 175.8KW & 597.7KW  
(RUNNING GRADIENT 1:100 OR STEEPER)

4. ALL SIZES SHOWN FOR RECTANGULAR AIR DUCTS ARE WIDTH X HEIGHT INTERNAL CLEAR DIMENSIONS. THICKNESS OF THERMAL INSULATION FOR AIR DUCTS USED SHALL BE 25 MM.

5. SPLITTER DAMPERS SHALL BE INSTALLED FOR ALL BRANCHING OFFS OF DUCT. APPROPRIATE TURNING VANES SHALL BE INSTALLED FOR AIR DUCT ELBOWS WHEREVER NECESSARY.

6. IN PRINCIPLE, ALL MAIN DUCTS/PIPINGs SHALL RUN JUST BELOW STRUCTURAL BEAMS OR JUST BELOW SLABS OR AT A HEIGHT AS SHOWN ON THE DRAWINGS. WHENEVER DUCTS/PIPINGs CROSS EACH OTHER, SMALL DUCTS/PIPES SHALL SUIT LARGE DUCTS/PIPES AND PRESSURIZED DUCTS/PIPES SHALL SUIT NON-PRESSURIZED PIPES AS APPROPRIATE.

7. ALL FAN COIL UNITS SHALL BE COMPLETED WITH 25 MM THICK CLEANABLE ALUMINIUM FILTER, AT RETURN AIR DUCT.

8. ELECTRICAL SERVICES FOR VENTILATING AND AIR CONDITIONING SYSTEMS INCLUDING MOTOR STARTERS OVERLOAD PROTECTION, AMMETERS, CABLES AND WIRING INTERCONNECTING MOTORS, MOTOR STARTERS AND CONTROL COMPONENTS ETC. SHALL BE PROVIDED BY THIS CONTRACTOR.

9. ALL CONTROL WIRING WITH METAL CONDUITS & WIRING DIAGRAMs SHALL BE PREPARED BY THE CONTRACTOR AND APPROVED BY THE CONSULTING ENGINEER.

10. EQUIPOTENTIAL BONDING FOR ALL PIPEWORKS/DUCTWORKS/VENTILATION UNITS SHALL BE PROVIDED & CONNECTED TO THE EARTHING TERMINAL WITH A COPPER CONDUCTOR NOT LESS THAN 6MM.

11. DIMENSIONS OF MAIN SUPPLY AIR DUCT FROM FAN COIL UNITS SHALL BE THE SAME AS THE SUPPLY AIR OUTLET OF THE FAN COIL UNITS, UNLESS OTHERWISE STATED.

12. ALL AIR GRILLES, DIFFUSERS SHALL BE OF ALUMINIUM WITH SPRAY PAINT AND THE FINISH COLOUR SHALL BE AS DECIDED BY THE DESIGNER PRIOR TO MANUFACTURE.

UNLESS OTHERWISE STATED, ALL DUCTS SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL & COMPLY WITH DW/144 (SPECIFICATION FOR SHEET METAL DUCTWORK) IN ALL DETAILS & MATERIAL.

13. PRIOR TO THE PREPARATION OF RELEVANT INSTALLATION WORKS, THE CONTRACTOR SHALL READ SERVICES DRAWINGS OF TRADES AND LIAISE CLOSELY WITH THE BUILDER AND OTHER SERVICES AND TO ENSURE THAT COMPLETE CO-ORDINATION OF SERVICES INSTALLED HENCE THE REQUIRED CLEAR HEADROOM CAN BE ACHIEVED.

14. ALL DUMMY DIFFUSERS/GRILLES/LOUVRE SHALL BE COMPLETE WITH MILD STEEL BLANKING PLATE PAINTED IN BLACK.

15. CONDUITS FOR LOCAL AND REMOTE CONTROL AND INDICATION WIRING FOR INSTALLATION SHALL BE PROVIDED BY THE CONTRACTOR.

16. ALL EQUIPMENT/MATERIAL USED SHALL BE SUBMITTED FOR ACCEPTANCE PRIOR TO ORDER.

17. THERMAL INSULATION WITH 25mm THICKNESS SHALL BE PROVIDED FOR CONDENSATE DRAIN PIPE.

18. EXACT LOCATION AND SIZE OF WALL OPENINGS TO BE DETERMINED ON SITE.

19. THE CONTRACTOR IS RESPONSIBLE FOR MAKING GOOD ALL AFFECTED AREA AFTER THE COMPLETION OF WORK.

20. ISOLATORS OR FUSED SPUR UNITS ADJACENT TO RELVEANT VENTILATION FANS AND FAN COIL UNITS FOR ALL AREAS ARE PROVIDED BY ELECTRICAL CONTRACTOR & WIRING FROM ISOLATORS OR FUSED SPUR UNITS TO RELEVANT MOTORS SHALL BE INSTALLED BY CONTRACTOR.

21. PANELS AND CONTROL WIRING SHOULD BE PROPERLY LABELLED FOR EASY IDENTIFICATION.

22. THERMOSTAT, 3 SPEED SWITCH TO BE PROVIDED WHERE APPROPRIATE AND SUIT INTERIOR DESIGNERS INTENT.

23. N.R.D. SHALL BE PROVIDED WHERE APPROPRIATE TO PREVENT BACK FLOW OF AIR.

24. UNUSED CHILLED WATER PIPES, CDP & DUCTWORKS SHALL BE CAPPED OFF/DISMANTLED.

25. DISMANTLE/MODIFY/RELOCATE THE EXISTING MVAC INSTALLATION TO SUIT THE NEW DESIGN

26. NEW PIPEWORK SHALL BE CLEANED BY CHEMICAL BEFORE CONNECTING TO THE EXISTING SYSTEM.

27. ALL FIRE DAMPER INSTALLED MUST BE COMPLIED WITH F.S.D. CIRCULAR LETTER NO.2 (VENT)/89 AND LATEST REVISION, IF ANY.

28. ALL THE EXISTING PROVISION SHALL BE CHECKED AND VERIFIED ON SITE..

29. A LOCAL SELF-LOCKING EMERGENCY STOP SHALL BE PROVIDED FOR ALL MOTOR IN ACCORDANCE WITH LATEST CODE OF PRACTICE.

30. ACOUSTIC ENCLOSURE SHALL BE PROVIDED AS APPROPRIATE BY CONTRACTOR FOR MVAC EQUIPMENT.

31. ACCESS PANELS SHALL BE PROVIDED FOR ALL FIRE DAMPERS WITH DIMENSION OF 450MMx450MM IN GENERAL AND OF APPROPRIATE SIZE FOR DUCTS SMALLER THAN 450MM IN WIDTH.

32. FLEXIBLE CONNECTIONS COMPLETED WITH BONDING SHALL BE PROVIDED FOR ALL AIR DUCTS CONNECTED TO FAN.

33. THE MATERIAL AND CONSTRUCTION OF ALL THE PARTITION WALL, LOUVRE, DOOR BETWEEN THE LANDLORD'S PUBLIC AREA AND TENANT'S AREA SHALL BE COMPLIED WITH FIRE REGULATION 502 AND SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.

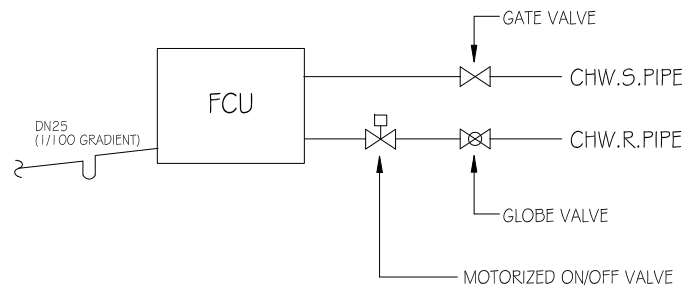
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Rev.	Date	
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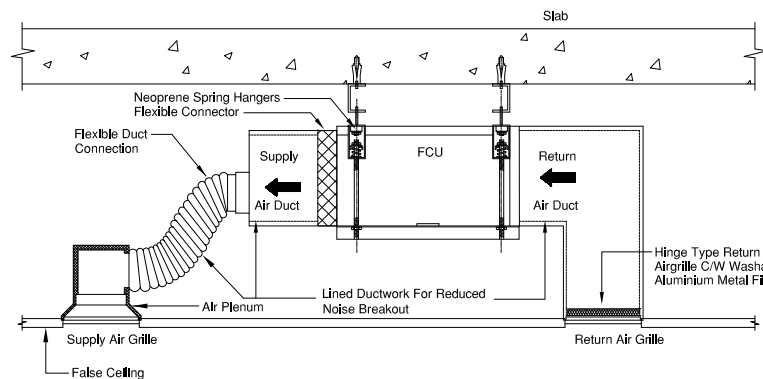
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MVAC Services General Notes	
Scale	Net Area
1:100	3,500 sf

Drawing No.	
15 AC-0-1	
17F	

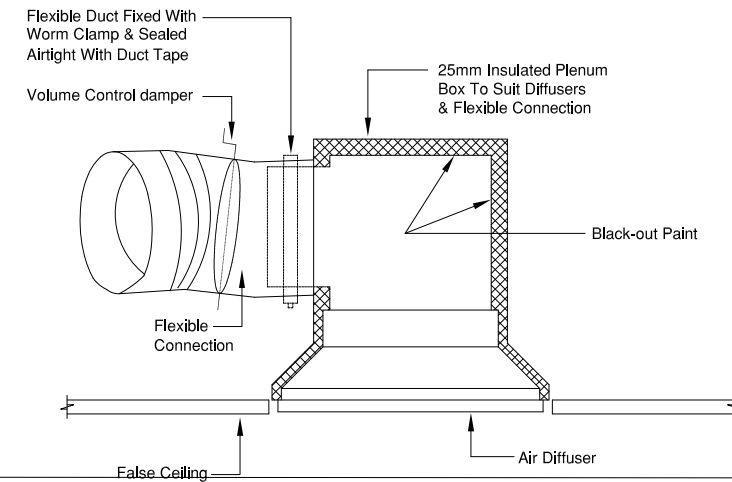




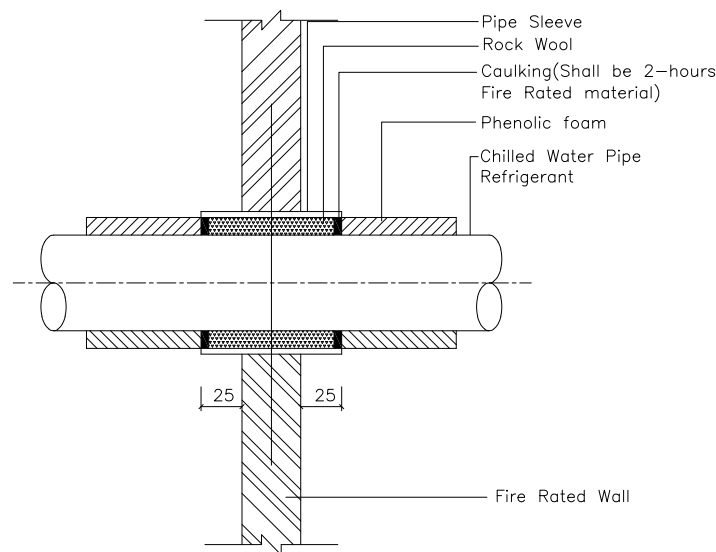
01 TYPICAL FCU PIPING CONNECTION



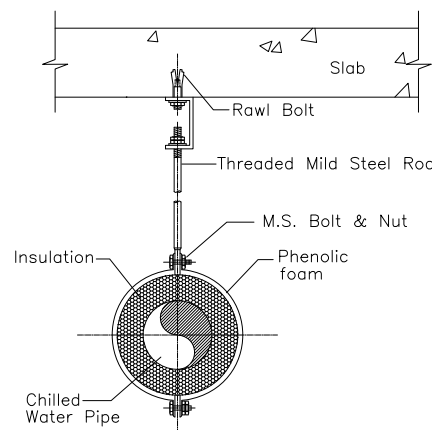
02 TYPICAL FCU INSTALLATION DETAIL



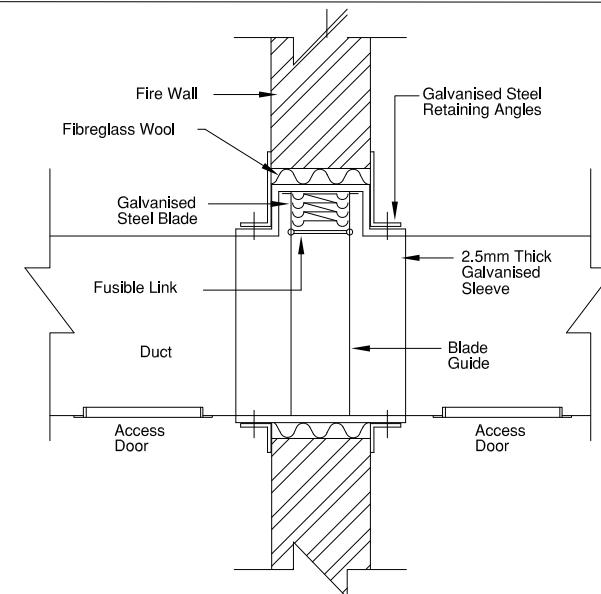
03 PLENUM BOX DETAIL - TYPICAL



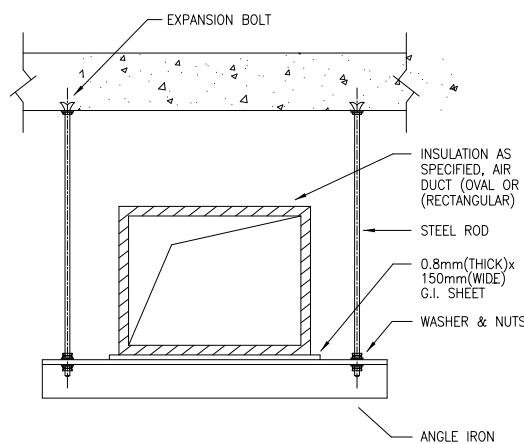
04 TYPICAL CHILLED WATER PIPE AND REFRIGERANT PIPE PENETRATION THROUGH WALL



05 TYPICAL PIP SUPPORT



06 TYPICAL WALL FIRE DAMPER CONSTRUCTION (CURTAIN TYPE)



07 TYPICAL AIR-DUCT SUPPORT DETAILS (1)

#### SUPPORT FOR HORIZONTAL & VERTICAL RECTANGULAR AIR DUCT

MAX. DUCT SIZE (LONGEST SIDE mm)	HANGER	BEARER	MAX. SPACING OF HANGER (mm)
	DROP ROD OR STUDDING (TWO) (DIA. mm)	ROLLED ANGLE (mm)	
400	6	25X25X1.5	3000
600	8	25X25X3	3000
1000	8	30X30X3	2500
1500	10	40X40X3	2500
2000	10	40X40X4	2500
3000	12	50X50X5	2500

08 TYPICAL AIR-DUCT SUPPORT DETAILS (2)



UNIT 3, 9/F, PARK COMMERCIAL CENTRE,  
180 TUNG LO WAN ROAD, HONG KONG  
T 2866 8730 F 2866 8739

Client China Life Insurance

Project No. P23-16

Address 17F CLI Building,  
313 Hennessy Road, Wan Chai

**FOR TENDER**

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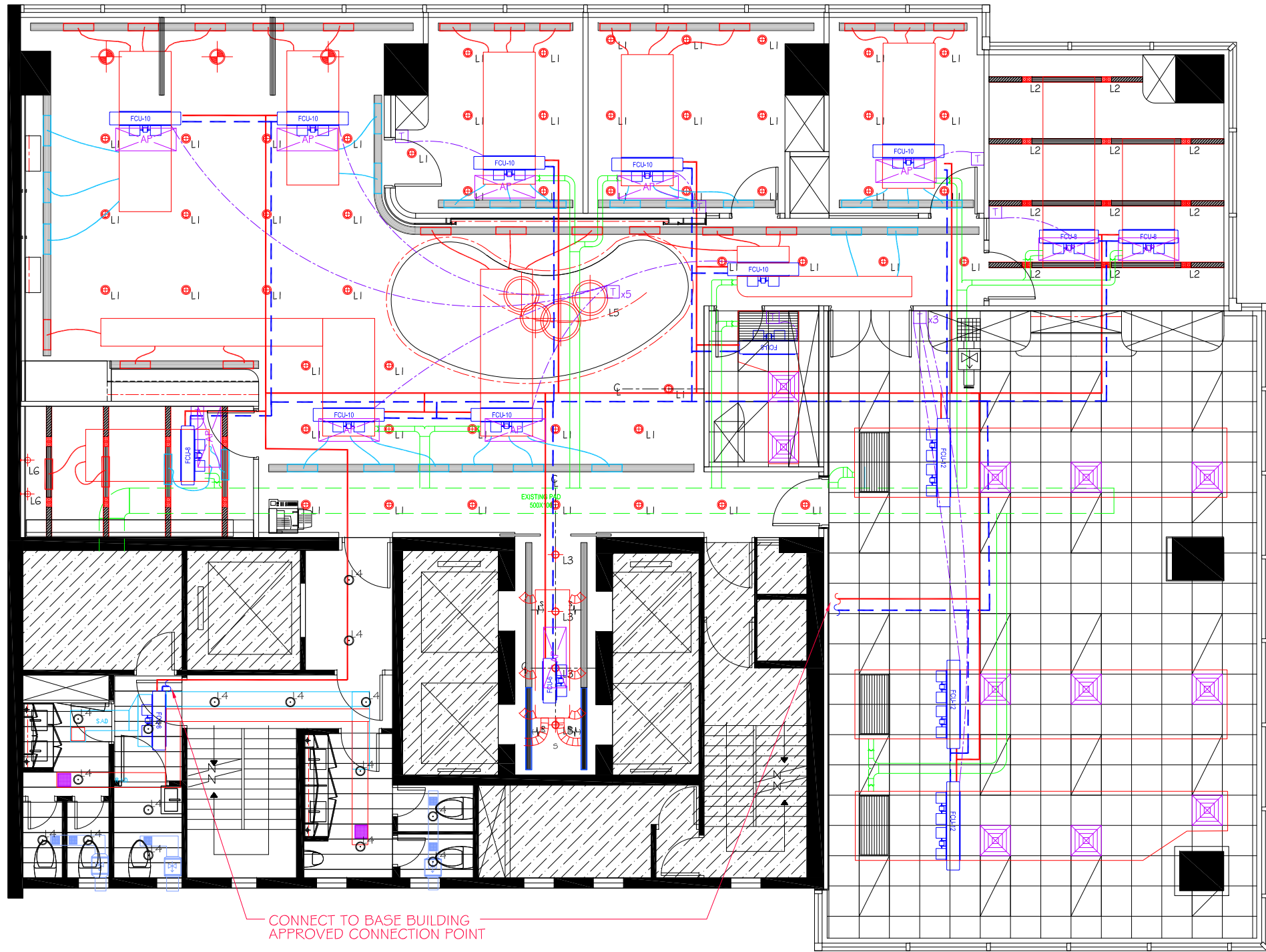
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12 -

Drawing Name AC Services Installation  
Detail

Scale 1:100 Net Area 3,500 sf

Drawing No. 15 AC-0-2

**15 AC-0-2**  
**17F**



LEGEND	
SYMBOL	DESCRIPTION
	FAN COIL UNIT
	RETURN AIR GRILLE
	SUPPLY AIR GRILLE CW VCD
	DIGITAL DISPLAY WALL MOUNT THERMOSTAT CW DUCT TYPE TEMPERATURE SENSOR
	NEW SUPPLY AND RETURN CHILLER WATER PIPE
	NEW CONDENSATE DRAIN PIPE
	150MM FLEXIBLE AIR DUCT CW 150x600MM PLENUM BOX (FLEXIBLE DUCT NO LONGER THAN 1.5M)
"XX" REFER TO THE BELOW ABBREVIATIONS FOR INSTALLATION LEVEL	
08	800CFM
10	1000CFM
12	1200CFM

REMARKS

1. THE CONTRACTOR IS REQUIRED TO VERIFY THE ACTUAL LOCATION & ROUTE OF ALL MEP RELATED SERVICES ON SITE. ANY DISCREPANCY FOUND BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS MUST BE SUBMITTED FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK. ANY CLAIMS ON WORK DONE WITHOUT PRIOR APPROVAL WILL NOT BE ACCEPTED AND AT THE CONTRACTOR'S OWN RISK.

2. ALL THE FAN COIL UNIT NEED TO BE CONNECTED WITH FRESH AIR DUCT.

GENERAL NOTES FOR INSTALLATION :

1. LOCATION OF EQUIPMENT ON DRAWINGS ARE SHOWN IN DIAGRAMMATIC, COORDINATE AND CONFIRM ALL EQUIPMENT AND MATERIALS POSITION WITH THE DESIGNER AND MAIN CONTRACTOR PRIOR TO INSTALLATION.
2. SUPPLY, DELIVERY, INSTALL AND COORDINATE LEVELS OF SPRINKLERS AND OTHER ACCESSORIES WITH FALSE CEILING LEVEL AND RAISED FLOOR LEVEL SHALL BE PROVIDED BY CONTRACTOR.
3. INSTALL PIPES, AND CONDUITS AS HIGH AS POSSIBLE TO ALLOW MAXIMUM FALSE CEILING VOID.
4. INFORMATION ON EQUIPMENTS SHOWN ON DRAWINGS ARE PROVIDED BY SUPPLIERS / MANUFACTURES, AND ARE SHOWN FOR REFERENCE ONLY . VERIFY EXACT DIMENSIONS, WEIGHTS, AND OTHER INFORMATION OF THE EQUIPMENT SUPPLIED FOR THEIR INTENDED USAGE PRIOR TO INSTALLATION.
5. ALL THE EQUIPMENT PROVIDED BY CONTRACTOR SHALL MATCHED WITH BASE BUILDING SPECIFICATION.
6. FOR ALL CONDUIT, AND PIPING PASSING THROUGH FIRE RATED PARTITION, SLEEVE SHALL BE INSTALLED AND WITH FIRE RATED SEALANT MATERIAL SHALL BE PROVIDED BY CONTRACTOR.
7. SHOP DRAWING OF ACCESS PANEL LOCATION AND DETAILS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.
8. FIRE SERVICES INSTALLATION WORKS SHALL BE CARRIED OUT BY BASE BUILDING NOMINATED CONTRACTOR UNLESS OTHERWISE SPECIFIED.
9. THE CONTRACTOR SHALL ALLOW ADEQUATE PROVISION FOR DRAINING AND REFILLING THE FIRE SPRINKLER AND HOSE REEL SYSTEM DURING THE INSTALLATION.
10. AS-FITTED DRAWING (SOFT AND HARD COPIES) SHALL BE SUBMITTED UPON COMPLETION OF WORKS.
11. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY AUTHORITY CERTIFICATE UPON COMPLETION OF WORKS.
12. THE CONTRACTOR SHALL ENSURE EVERY PART OF THE BUILDING CAN BE REACHED BY HOSE REEL TUBING WITH LENGTH NOT MORE THAN 30 METERS IN ACCORDANCE WITH F.S.D. REQUIREMENTS.
13. THE EXISTING H.R. SYSTEM SHALL BE MODIFIED AS PER UPDATED LAYOUT PLAN.
14. NEW HOSE REEL SHALL BE INSTALLED AS INDICATED ON DRAWING AND COMPLETED WITH BREAKGLASS, ALARM BELL, ADDRESS, MODULE, PIPEWORK & ACCESSORIES TO HR PIPE TO MATCH WITH BUILDING SPECIFICATION.
15. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS LAID DOWN IN THE LATEST FITTING OUT GUIDES AND MANAGEMENT REGULATIONS PROVIDED BY THE LANDLORD.
16. ADDITION AND MODIFICATION OF UPPER LAYER SPRINKLERS (IF ANY) SHALL BE PROVIDED FOR FULL HEIGHT(SLAB-TO-SLAB) PARTITIONS AND MODIFICATION OF EXISTING AIR CONDITIONING DUCTING.
17. THE CONTRACTOR SHALL NOT COVER UP ANY SMOKE DETECTOR, HOSE REEL, BREAKGLASS UNIT AND ALARM BELL.
18. A MINIMUM OF 500mm CLEARANCE SPACE SHALL BE MAINTAINED BELOW ALL INSTALLED SPRINKLER HEADS.
19. THE CONTRACTOR SHALL VERIFY THE EXISTING SPRINKLER HEAD LOCATIONS ON SITE AND MAKE ALLOWANCES IN THE TENDER FOR THE SPRINKLER MODIFICATION WORKS.
20. FIRE ALARM BELLS SHALL BE AUDIBLE IN ALL PARTS OF THE PREMISES AFTER COMPLETION OF FIT-OUT AND IF NECESSARY ADDITIONAL BELLS SHALL BE PROVIDED FOR CODE COMPLIANCE.
21. THE CONTRACTORS SHALL PROVIDE THE RELOCATION OF SPRINKLER HEAD POSITION . ALLOW FOR NEW MODIFIED BRANCHES AND NEW SPRINKLER HEADS TO SUIT NEW LAYOUT IF CONDITION OF EXISTING IS NOT FUNCTIONAL AND POOR CONDITION.
22. EXISTING DISTRIBUTION TO BE FULLY RE-VALIDATED AND COMMISSIONED TO SUIT NEW DESIGN REQUIREMENT FOR THE CAPTIONED SPACE.
23. CONTRACTOR SHALL ENSURE PROVISION OF SPRINKLER COVERAGE AND DESIGN SHALL BE FULLY COMPLAINT TO LOCAL CODE OF PRACTICE AND IN ACCORDANCE TO CLIENTS ISSUANCE REQUIREMENT.
24. THE CONTRACTOR SHALL ENSURE ALL NECESSARY AFA SOUNDERS, DETECTORS, INDICATORS ARE FULL COMPLIANCE TO LOCAL F.S. REGULATIONS. ALL NEW PROVISION SHALL INTEGRATE AND MUST BE COMPATIBLE TO THE EXISTING SYSTEM.
25. SPRINKLER PROTECTION AND DETECTORS SHALL BE PROVIDED TO ENSURE ALL VOID ARE COVERED IN ACCORDANCE TO LOCAL REGULATION.

GENERAL NOTES :

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR COMBINED SERVICE DRAWING AND COMBINED BUILDER'S WORK FOR APPROVAL.
2. CONTRACTOR SHALL COORDINATE OTHER TRADES FOR INSTALLATION TESTING AND COMMISSIONING.
3. ALL BRANCH TEE-OFF POINTS FOR PIPE WORK FEEDING SPRINKLER HEAD TO BE 32mm DIA. MINIMUM.
4. THE F.S. SUB-CONTRACTOR IS RESPONSIBLE FOR LOCATING SPRINKLER HEAD & INSTALLING CORRECT SPRINKLER PIPE SIZES TO SUIT THE LATEST REFLECTED CEILING PLANS.
5. F.S. PIPEWORK TO BE RUN THROUGH BELOW STRUCTURAL BEAMS WHERE APPLICABLE.
6. ALL F.S. PIPEWORK SHALL BE GALVANIZED STEEL PIPES AND COMPLY WITH BS 1387 MEDIUM GRADE FOR ABOVE GROUND INSTALLATION AND HEAVY GRADE FOR UNDERGROUND INSTALLATION.
7. ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED.



Client

China Life Insurance

Address

17F CLI Building,  
313 Hennessy Road, Wan Chai

Project No.

P23-16

FOR TENDER

All designs are the sole property of Studio 5 International Ltd and may not be used without their written permission. Figured dimensions only are to be used For Construction and any scaling of the drawing will be at the contractor's risk. Contractors are to verify all dimensions on-site and any discrepancies shall be addressed in writing to this office for clarification prior to the commencement of the work, otherwise the Contractor shall bear full responsibility for associated cost. Any claims for variations or extras shall be submitted to this office for assessment prior to approval of any such variation or extra.

Rev.	Date	
01	28 JUN 23	07 -
02	-	08 -
03	-	09 -
04	-	10 -
05	-	11 -
06	-	12 -

Drawing Name

Fire Services General  
Notes

Scale

1:100

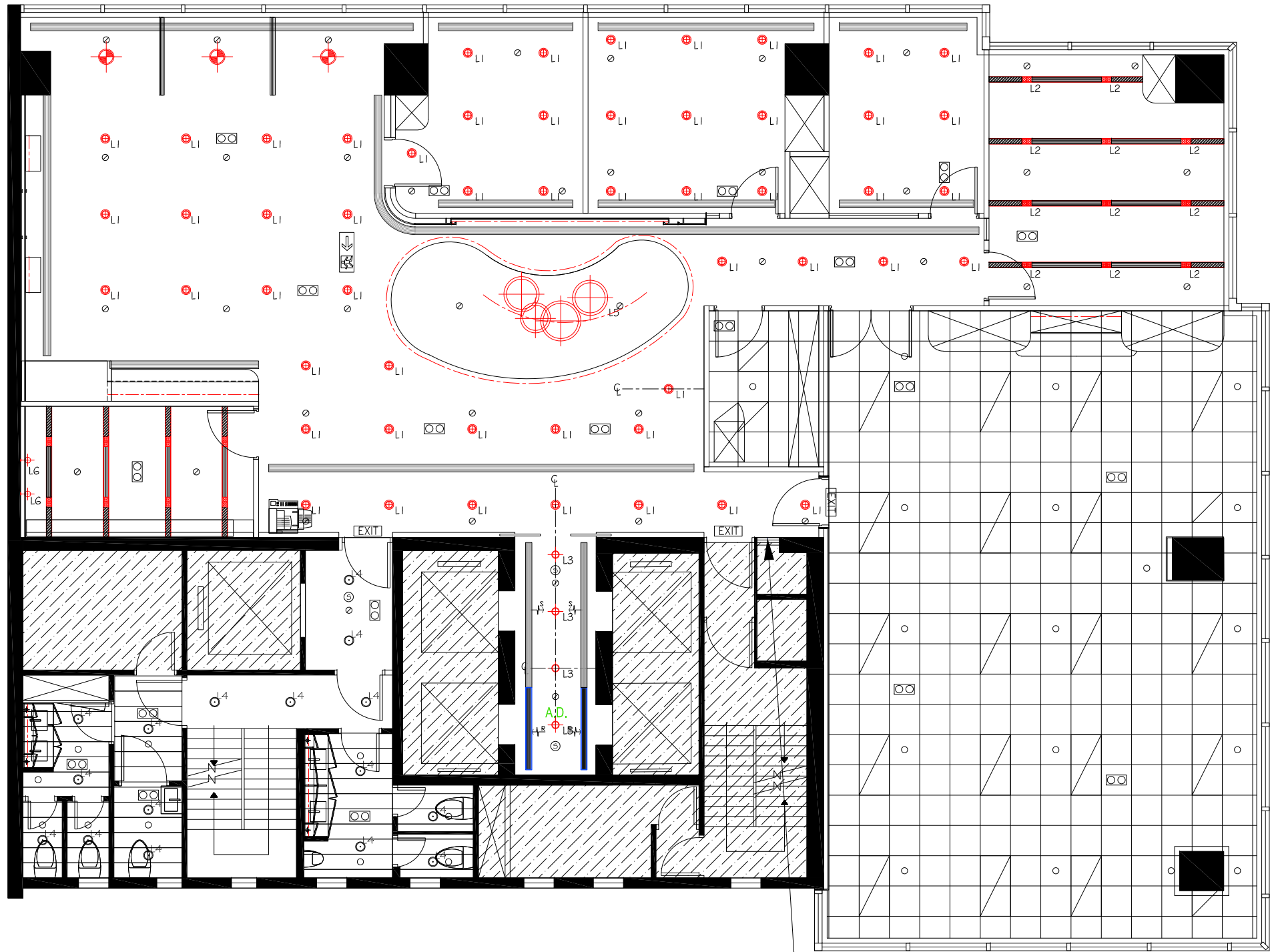
Net Area

3,500 sf

Drawing No.

15 FS-0-1  
17F

01	DETAILS OF PIPE AND SLEEVES INSTALLATION THROUGH WALL OR SLAB	02	STANDARD DETAIL FOR SPRINKLER HEAD UNDER BEAM	03	STANDARD DETAIL FOR SPRINKLER HEAD UNDER AIR DUCT
04					
04	FIXED TYPE HOSEREEL MOUNTING DETAIL				



EXISTING FIRE SERVICES EQUIPMENT NEED TO BE TAKE DOWN AND  
INSTALL FOR REFINISH HOSE REEL DOOR.

LEGEND	
SYMBOL	DESCRIPTION
	CONCEALED PENDENT SPRINKLER HEAD
	PENDENT SPRINKLER HEAD
	EMERGENCY LIGHT (RECESS MOUNT)
	EXIT SIGN (RECESS MOUNT)
	DIRECTIONAL EXIT SIGN (RECESS MOUNT)
	EXISTING SMOKE DETECTOR NEED TO TAKE DOWN AND REINSTALL

REMARKS

1. THE CONTRACTOR IS REQUIRED TO VERIFY THE ACTUAL LOCATION & ROUTE OF ALL MEP RELATED SERVICES ON SITE. ANY DISCREPANCY FOUND BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS MUST BE SUBMITTED FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK. ANY CLAIMS ON WORK DONE WITHOUT PRIOR APPROVAL WILL NOT BE ACCEPTED AND AT THE CONTRACTOR'S OWN RISK.

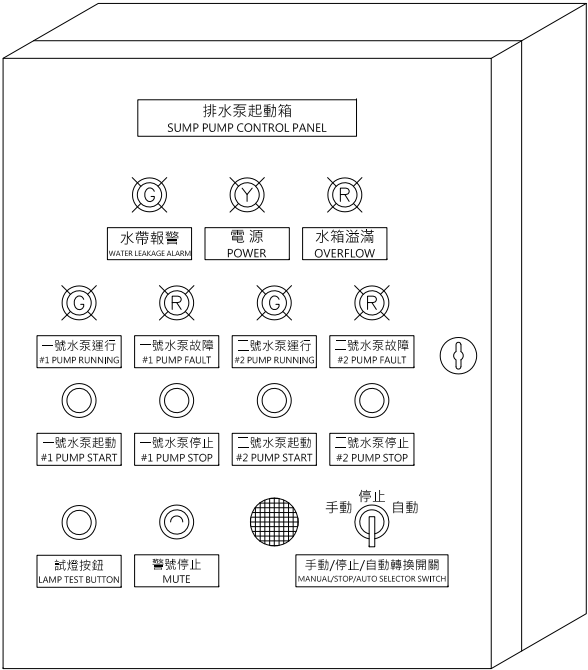


GENERAL NOTES FOR INSTALLATION:

1. THE SUMP PUMP ON/OFF OPERATION SHALL BE CONTROLLED BY ACTIVATION OF LEVEL SENSOR.
2. DUTY / STANDBY PUMP SHALL BE OPERATED IN AN ALTERNATIVE MANNER.
3. DUAL PUMP IN OPERATION, HIGH LEVEL INDICATION LAMP AND ALARM SHALL BE ACTIVATED IN CASE OF HIGH WATER LEVEL . THEN THE WATER SUPPLY CONTROL VALVE SHALL BE CLOSED AUTOMATICALLY.
4. ALARM SIGNAL FROM WATER DETECTION PANEL SHALL AUTOMATICALLY CLOSE THE WATER SUPPLY CONTROL VALVE.
5. FAULT LAMP & ALARM SHALL BE ACTIVATED IN CASE OF POWER FAILURE, SUMP PUMP MAL-FUNCTION, OVER FLOW AND WATER LEAKAGE.
6. FAULT LAMP AND ALARM SHALL BE ACTIVATED IN CASE OF SHUT DOWN OF THE DUTY SUMP PUMP. THE STANDBY SUMP PUMP WILL THEN OPERATE AUTOMATICALLY.
7. LEAD-LAG CONTROL PROVIDED BY THE PUMP OPERATION.
8. MANUAL ON-OFF FOR INDIVIDUAL PUMP.
9. THE WATER SUPPLY WILL BE CUT OFF WHEN LOSS OF POWER SUPPLY.
10. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR COMBINED SERVICE DRAWING AND COMBINED BUILDER'S WORK FOR APPROVAL.
- 11.1. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES FOR INSTALLATION TESTING AND COMMISSIONING.
12. THE PLUMBING AND DRAINAGE INSTALLATION SHALL BE CARRIED OUT BY BASE BUILDING NOMINATED CONTRACTOR WITHIN LANDLORD AREAS UNLESS OTHERWISE SPECIFIED.
13. ALL PLUMBING AND DRAINAGE PIPE WORKS RUNNING INSIDE PANTRIES SHALL BE CONCEALED UNLESS OTHERWISE SPECIFIED.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL NECESSARY STATUTORY APPLICATIONS FOR THE INSTALLATION WORKS.
15. THE CONTRACTOR SHALL COORDINATE WITH THE FIT-OUT CONTRACTOR FOR THE SUMP TANK AND PUMP, SUMP PUMP PANEL AND WATER DETECTION PANEL LOCATION.
16. WATER PROOFING SHALL BE PROVIDED FOR PANTRIES BY THE FIT-OUT CONTRACTOR.
17. WIRING CIRCUIT FOR POWER SUPPLY TO SUMP PUMP SHALL BE SEPARATED FROM OTHER CIRCUIT.
18. THE CONTRACTOR SHALL SUBMIT THE SHOP DRAWINGS ON LAYOUT FLOOR PLAN, SCHEMATIC PLUMBING LINE DIAGRAM, SIZE OF SUMP TANK, USE OF MATERIAL AND QUANTITY OF SANITARY FITMENT ETC. TO THE LANDLORD.
19. SOLENOID VALVE WITH CONTROL PANEL SHALL BE INSTALLED FOR CUTTING OFF THE WATER SUPPLY ONCE THE SUMP(S) IS / ARE FAILURE.
20. HYDRAULIC WATER TESTING TO ALL PIPE WORKS SHALL NOT LESS THAN 1.5 TIMES OF THE WORKING PRESSURE OF FLOOR OR IN ACCORDANCE WITH THE REQUIREMENT OF LANDLORD, WHICHEVER IS HIGHER IN A PERIOD NOT LESS THAN 24 HOURS AND ARE TO BE CARRIED OUT IN THE PRESENCE OF LANDLORD'S REPRESENTATIVE UPON ADVANCE AGREED ARRANGEMENT.
21. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS LAID DOWN IN THE LATEST FIT-OUT GUIDES AND MANAGEMENT REGULATIONS PROVIDED BY THE LANDLORD.
22. AS-FITTED DRAWING (SOFT AND HARD COPIES) AND OPERATION & MAINTENANCE MANUAL SHALL BE SUBMITTED UPON COMPLETION OF FIT-OUT INSTALLATION WORKS.
23. THE SUMP TANK SHALL BE WATER TIGHT IN CONSTRUCTION IN ORDER TO PREVENT WATER FROM OVERFLOW, AND COMPLETED WITH BAFFLE PLATE FOR GREASE ENTRAPMENT. SHOP DRAWING SHALL BE SUBMITTED FOR APPROVAL PRIOR TO THE COMMENCEMENT OF WORKS.
24. ALL THE FIXING PINS / ANCHOR BOLTS ARE AT A MINIMUM DISTANCE OF 300MM FROM THE PRESTRESSING TENDONS. PRIOR TO DRILLING ANCHOR BOLTS / FIXING PINS, A COVERMETRE OF HILTI P950 IS USED TO LOCATE THE EXISTING STEEL BARS / PRESTRESSING TENDONS PRIOR TO DRILLING / FIXING PINS TO ENSURE THAT NO STEEL BARS / PRESTRESSING TENDONS AREA AFFECTED BY THE FIXING.

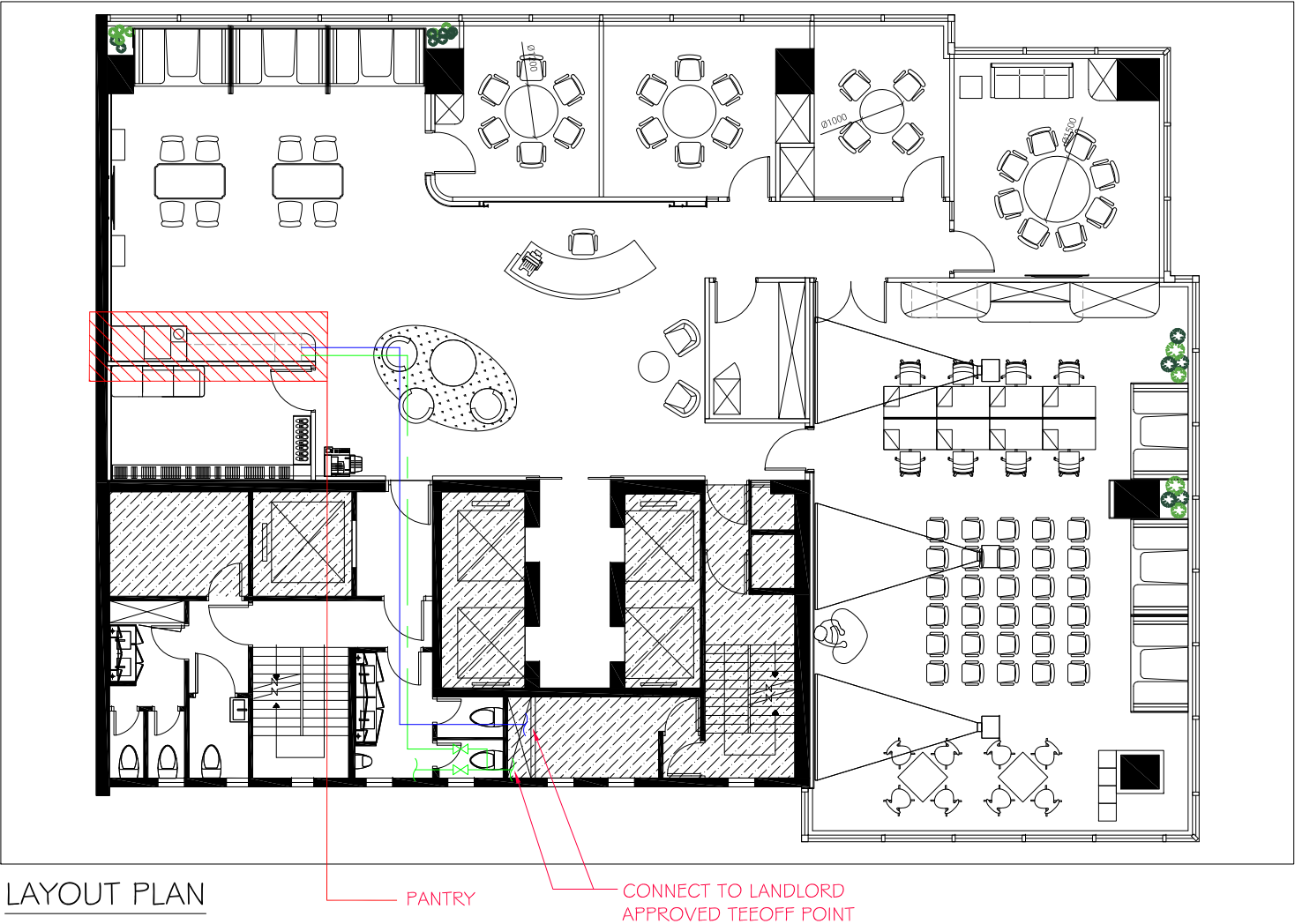
GENERAL NOTES :

1. LOCATION OF EQUIPMENT ON DRAWINGS ARE SHOWN IN DIAGRAMMATIC, COORDINATE AND CONFIRM ALL ACCESSORIES AND FIXTURE POSITIONS WITH THE DESIGNER AND MAIN CONTRACTOR PRIOR TO INSTALLATION.
2. INSTALL PIPES, AND CONDUITS AS HIGH TO ALLOW MAXIMUM FALSE CEILING VOID.
3. INFORMATION ON EQUIPMENT SHOWN ON DRAWINGS ARE PROVIDED BY SUPPLIERS/MANUFACTURES, AND ARE SHOWN FOR REFERENCE ONLY. VERIFY EXACT DIMENSIONS, WEIGHTS, AND OTHER DATA OF THE EQUIPMENT SUPPLIED FOR THEIR INTENDED USAGE PRIOR TO INSTALLATION.
4. ALL THE EQUIPMENT PROVIDED BY CONTRACTOR SHALL MATCHED WITH BASE BUILDING SPECIFICATION.
5. LOCATIONS OF ALL VALVES, SHOWN ON THE DRAWINGS IS INDICATIVE ONLY. CONTRACTOR SHALL VERIFY AND COORDINATE THE EXACT LOCATION ON SITE.
6. ALL PIPEWORK, PIPE FITTINGS, WATER HEATER, ETC. SHALL COMPLY WITH LOCAL STATUTORY REQUIREMENT WITH APPROVAL FROM LOCAL AUTHORITY.
7. FOR ALL CONDUIT, AND PIPING PASSING THROUGH FIRE RATED PARTITION, SLEEVE SHALL BE INSTALLED AND SEALING WITH FIRE RATED MATERIAL SHALL BE PROVIDED.

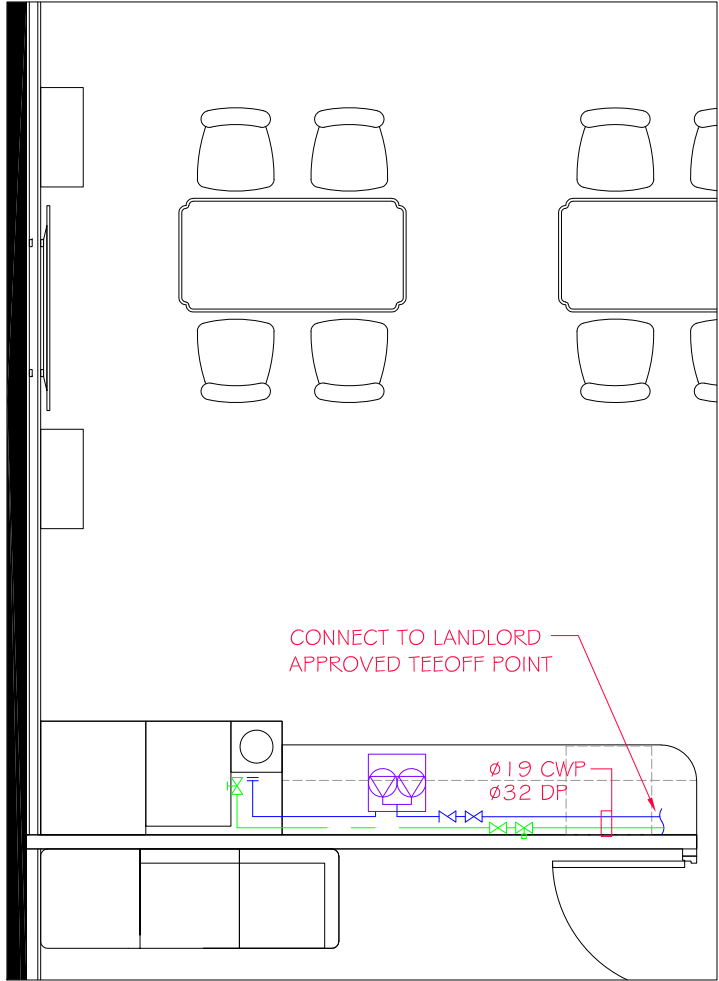


SUMP PUMP CONTROL PANEL LAYOUT

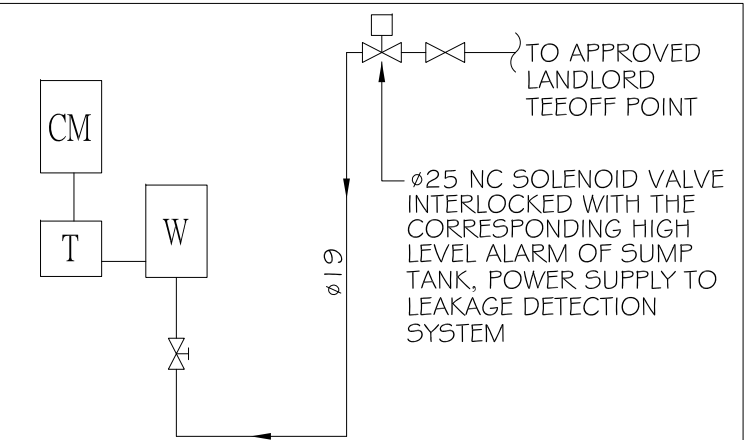
LEGEND	
SYMBOL	DESCRIPTION
	COLD WATER PIPE
	DRAIN PIPE
	CHECK VALVE
	GATE VALVE
	ANGLE VALVE
	LOOSER JUMPER STOPCOCK
	SOLENOID VALVE
	FLEXIBLE JOINT
	SUMP TANK WITH SUMP PUMP
	15mm DRAW OFF TRAP
	SINK
	WATER DISPENSER (IN WHITE GOOD LIST)
	6000W WATER HEATER
	WATER DETECTION (NON-DISTANT TYPE)
	WATER TANK (IN WHITE GOOD LIST)
	COFFEE MACHINE (IN WHITE GOOD LIST)



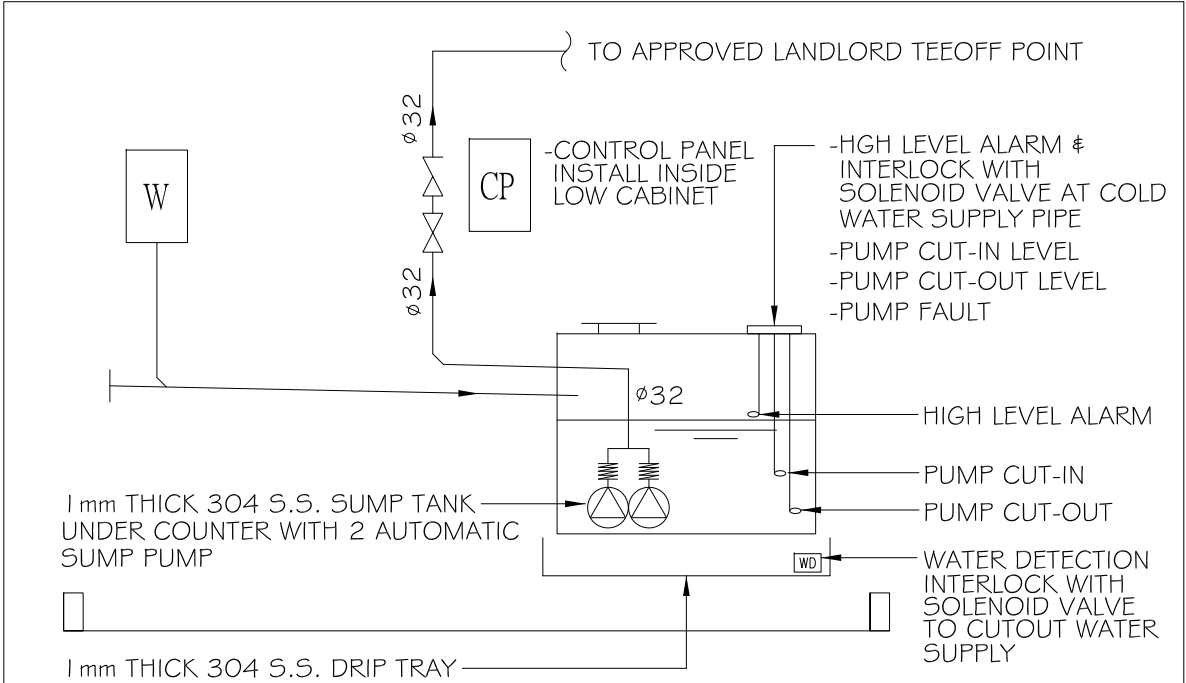
LAYOUT PLAN



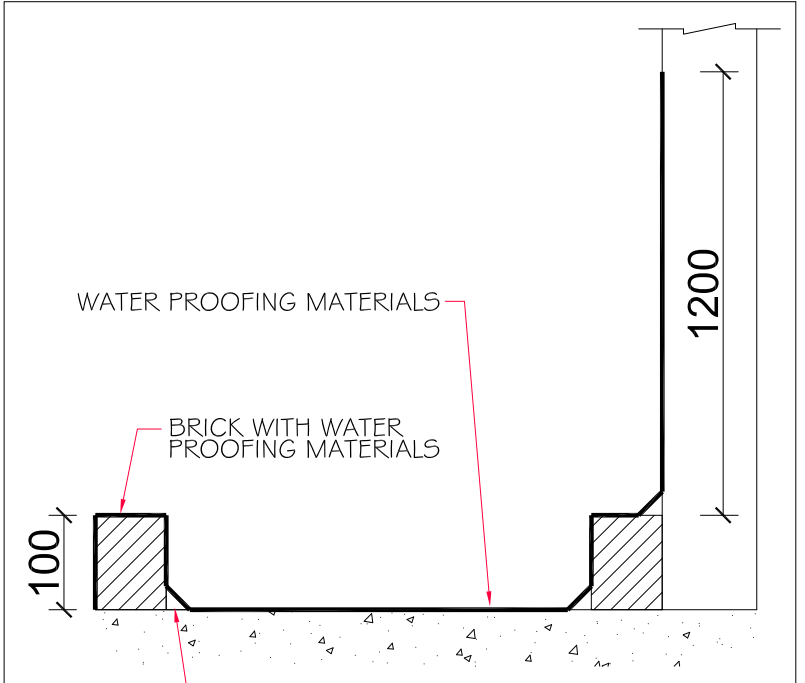
TYPICAL DRAWING FOR PANTRY



TYPICAL PLUMBING SCHEMATIC  
FOR PANTRY

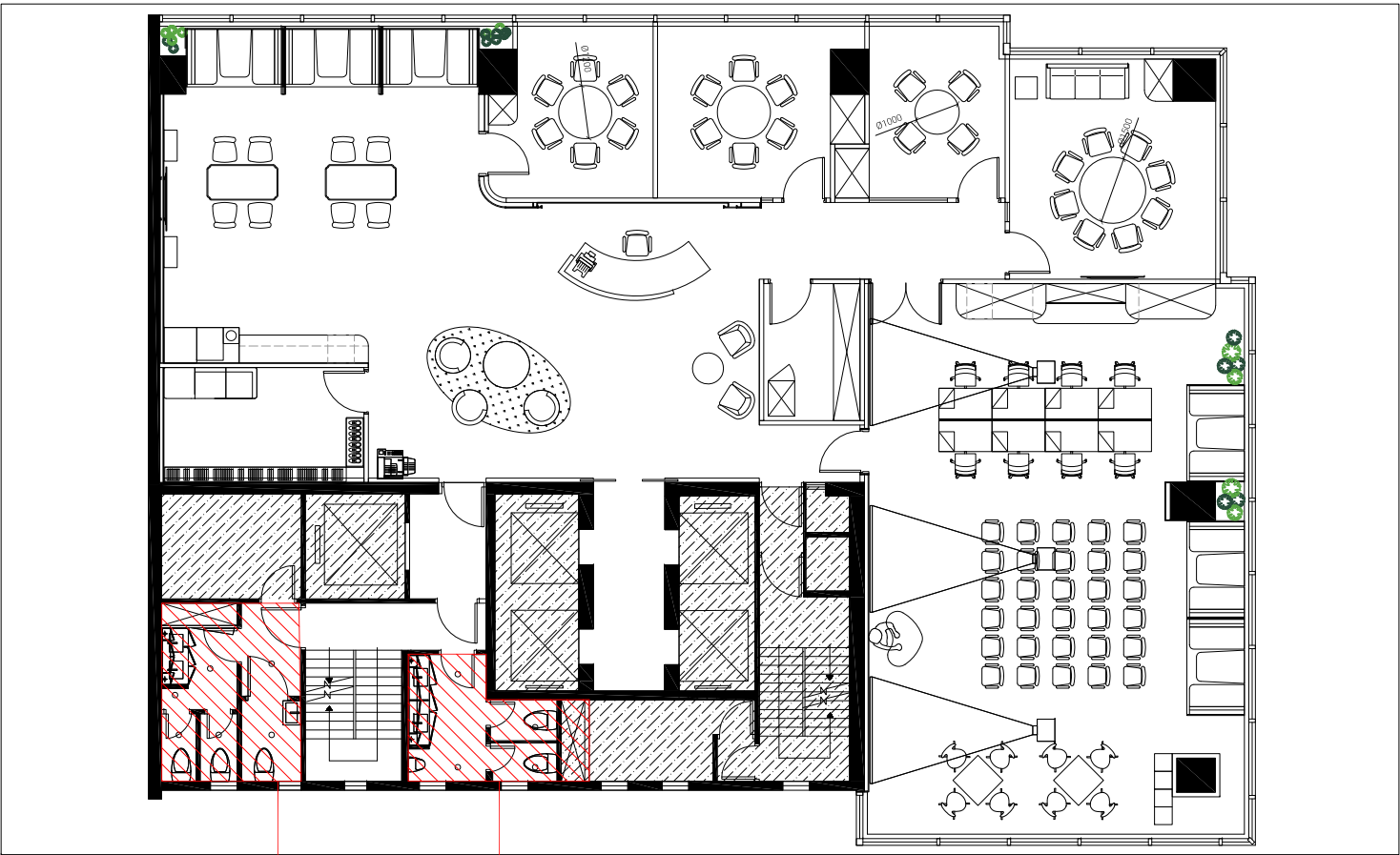


TYPICAL DRAINAGE SCHEMATIC FOR PANTRY



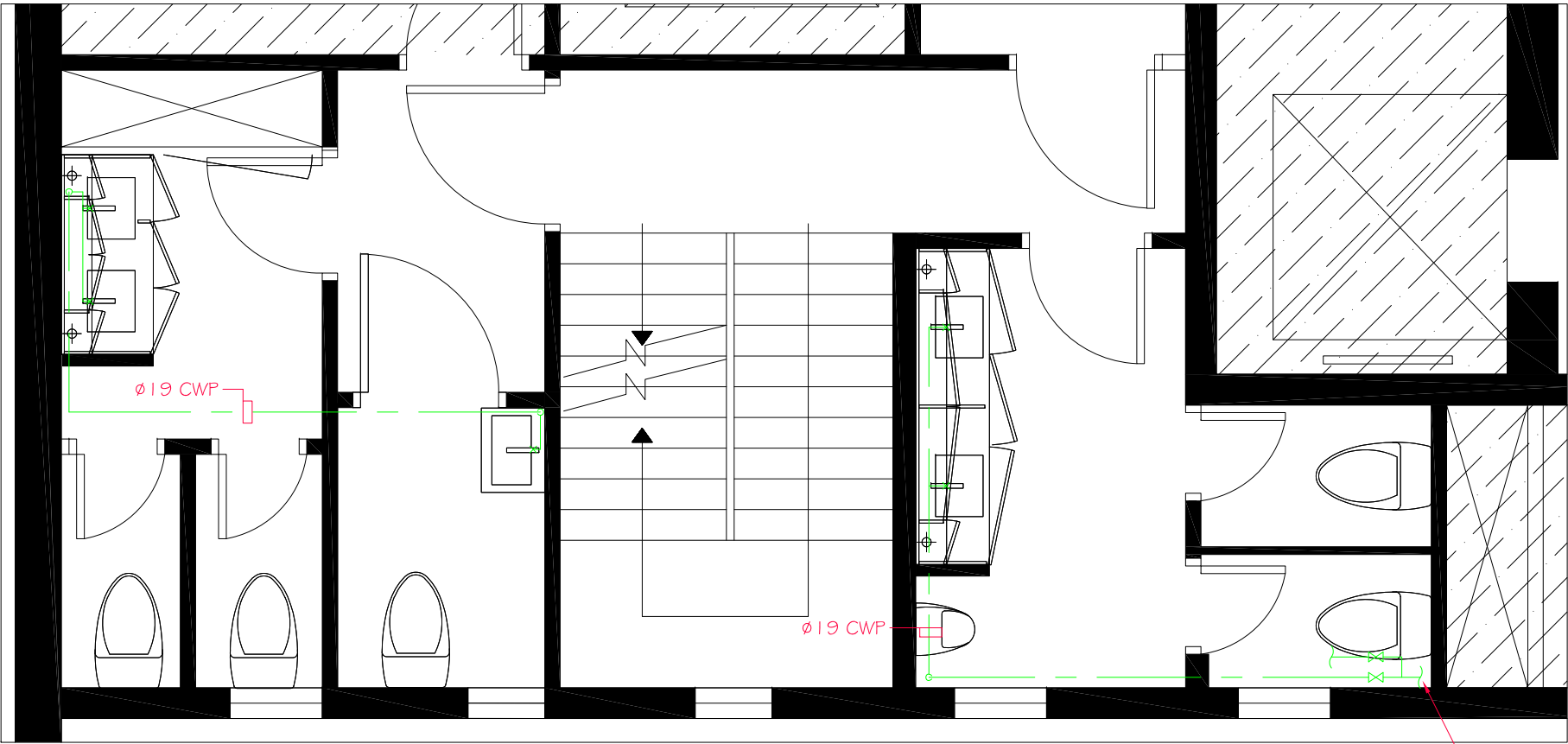
WATERPROOF DETAIL

LEGEND	
SYMBOL	DESCRIPTION
	COLD WATER PIPE
	DRAIN PIPE
	CHECK VALVE
	GATE VALVE
	ANGLE VALVE
	LOOSER JUMPER STOPCOCK
	SOLENOID VALVE
	FLEXIBLE JOINT
	SUMP TANK WITH SUMP PUMP
	15mm DRAW OFF TRAP
	SINK
	WATER DISPENSER
	6000W WATER HEATER
	WATER DETECTION (NON-DISTANT TYPE)



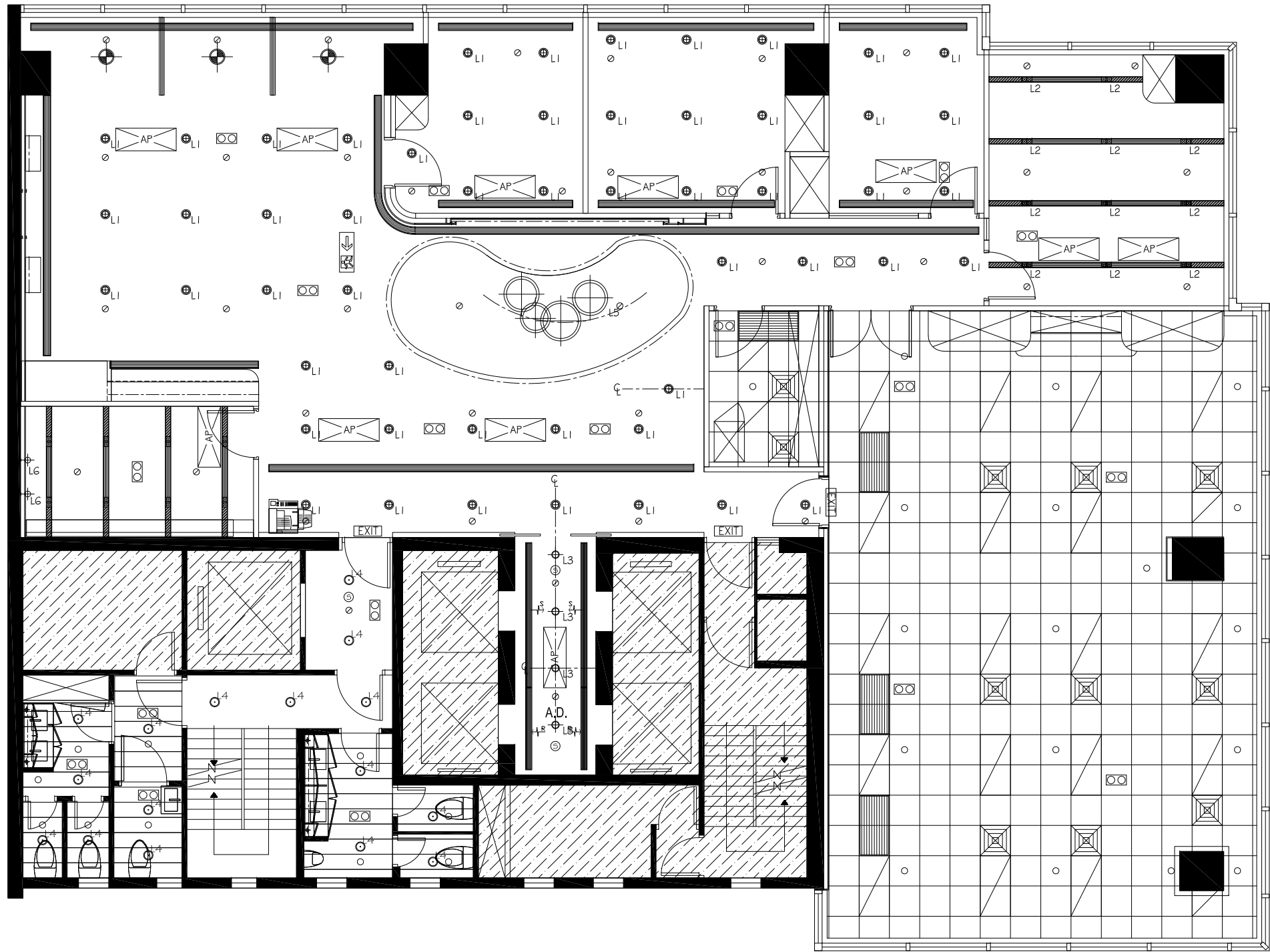
LAYOUT PLAN

ALL THE SANITARY WARE, WATER PIPE, FLUSHING WATER PIPE, WASTE PIPE, VENT PIPE  
C/W ALL THE NECESSARY AND ACCESSORIES NEED TO REPLACE AT 17/F AND DRAINAGE PIPE AT 16/F HIGH LEVEL



TYPICAL DRAWING FOR TOILET

CONNECT TO LANDLORD  
EXISTING WATER PIPE



LEGEND		
SYMBOL	CODE	DESCRIPTION
	L1	15W RECESSED ADJUSTABLE ANGLE LED DOWNLIGHT (3500K)
	L2	2x8W RECESSED TWINS LED DOWNLIGHT (3500K)
	L3	10W 3500K LED DOWN LIGHT
	L4	DOWN LIGHT TO BE MATCHED WITH EXISTING
	L5	RECEPTION PEDANT LAMPS
	L6	WALL LAMPS
	L7	PANTRY BOOTH SEATING PEDANT LAMPS
	L8	LED LIGHT STRIP
	L9	NEW 600x600 LIGHT PANEL WITH 3NOS. LED LIGHT TUBE (MODULE SAME AS EXISTING)
	L10	NEW 1200x600 LIGHT PANEL WITH 3NOS. LED LIGHT TUBE (MODULE SAME AS EXISTING)
		RETURN AIR GRILLE
		SUPPLY AIR GRILLE CW VCD
		ACCESS PANEL
		CONCEALED PENDENT SPRINKLER HEAD
		PENDENT SPRINKLER HEAD
		EMERGENCY LIGHT (RECESS MOUNT)
		EXIT SIGN (RECESS MOUNT)
		DIRECTIONAL EXIT SIGN (RECESS MOUNT)
		EXISTING SMOKE DETECTOR NEED TO TAKE DOWN AND REINSTALL

REMARKS

1. LOCATION AND LAYERS OF LED STRIP, PLEASE REFER TO FURNITURE DETAIL AND ELEVATION.

2. THE CONTRACTOR IS REQUIRED TO VERIFY THE ACTUAL LOCATION & ROUTE OF ALL MEP RELATED SERVICES ON SITE. ANY DISCREPANCY FOUND BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS MUST BE SUBMITTED FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK. ANY CLAIMS ON WORK DONE WITHOUT PRIOR APPROVAL WILL NOT BE ACCEPTED AND AT THE CONTRACTOR'S OWN RISK.

3. THE CONTRACT IS REQUIRED TO SUPPLY AND INSTALL ALL CABLE CONTAINMENTS