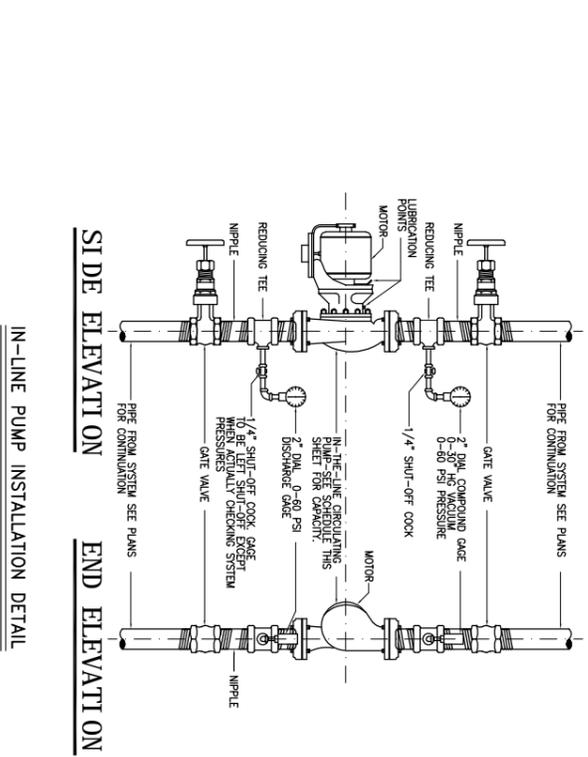
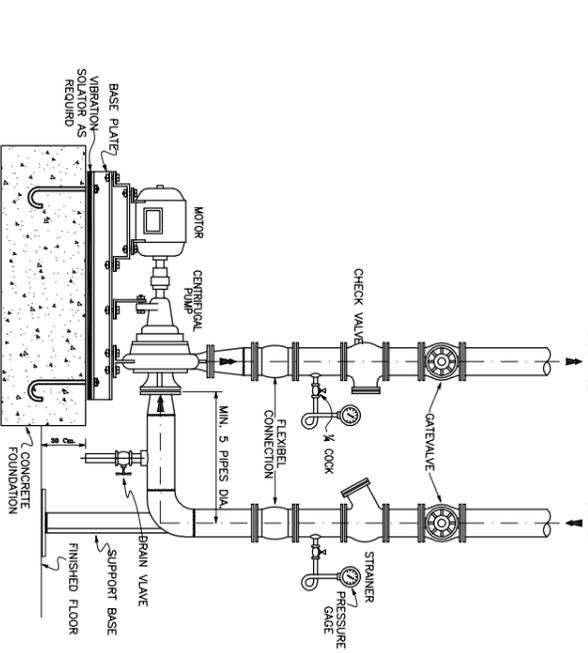


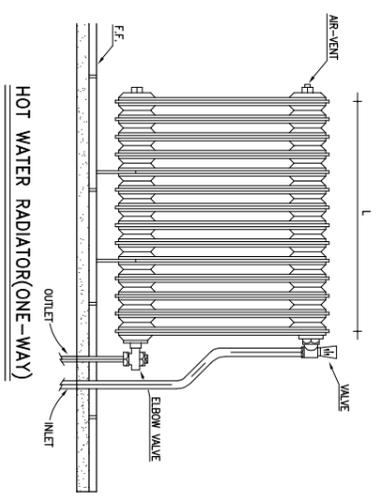
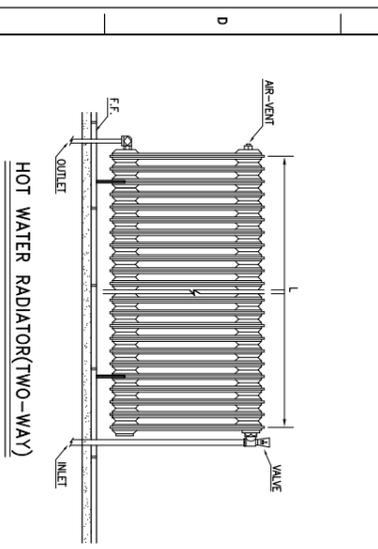
UNIT HEATER INSTALLATION DETAIL



SIDE ELEVATION  
END ELEVATION  
IN-LINE PUMP INSTALLATION DETAIL

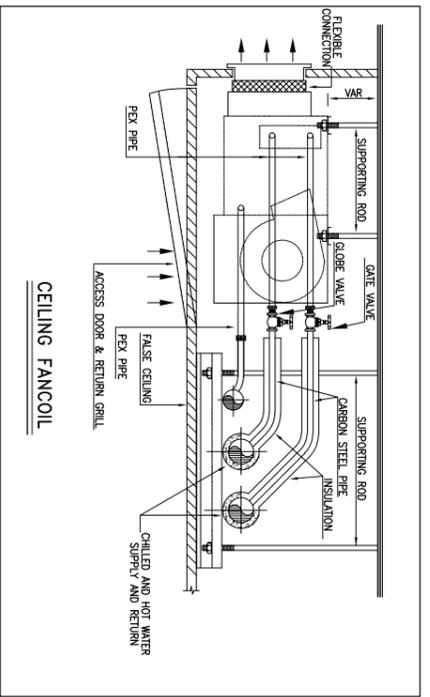


CENTRIFUGAL PUMP INSTALLATION DETAIL

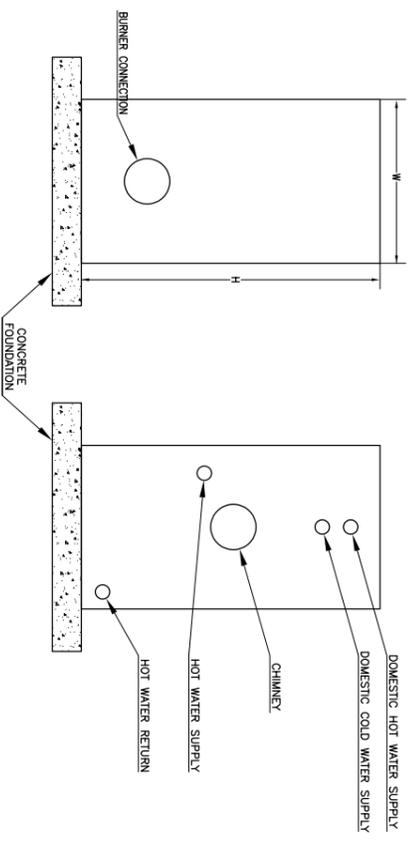


HOT WATER RADIATOR(TWO-WAY)

HOT WATER RADIATOR(ONE-WAY)

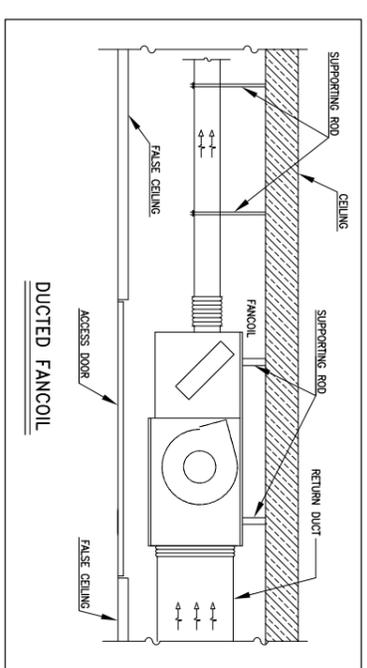


CEILING FANCOIL



HEATING PACKAGE

REMARKS  
1. ALL DIMENSIONS SHOULD BE REVIEW AFTER THE PURCHASE ORDER IS FINALIZED.



DUCTED FANCOIL

KEY PLAN

LEGEND

REFERENCE DOCUMENTS

Doc. No.	Doc. No.

Rev.	Date	Purpose of Issue	PRE'D.	CHK'D.	APP'D.
03	10-JUL-23	FIN	H.RASOULI	H.RASOULI	AR.AHOUEI
01	28-JUN-23	AFC	H.RASOULI	H.RASOULI	AR.AHOUEI
00	29-JAN-23	IFA	H.RASOULI	H.RASOULI	M.Mahmoodi

Project  
Completing the Remaining Documents of Design and Engineering Services for LAB2 Unit

P.O. No.:6258

Client:

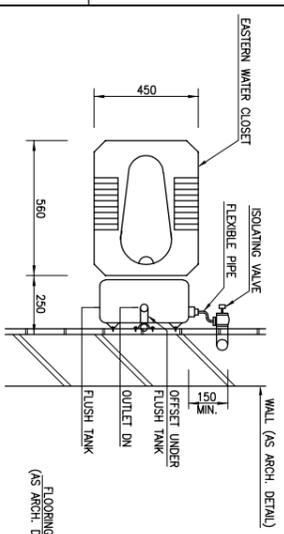


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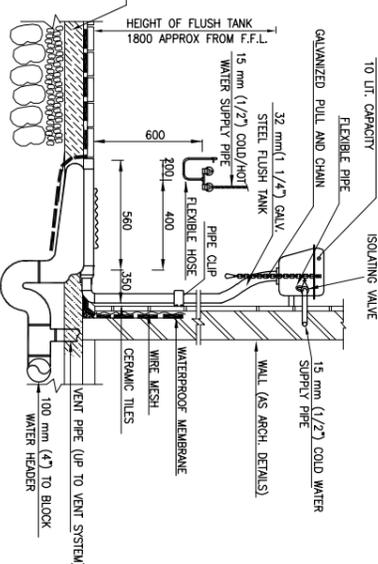


DRAWING TITLE:  
STANDARD DRAWING FOR HVAC & PLUMBING SYSTEM

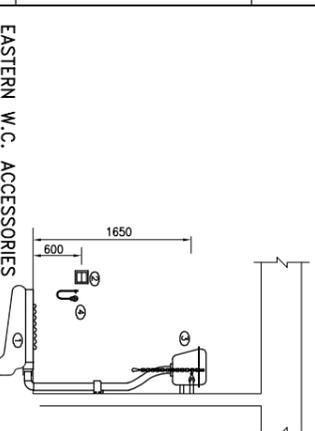
QUD Doc. No.:	Doc. No.:	Size:	SHEET No.	12 OF 12	REV. 01
-	LRB-TNA-HV-99-STD-0001	A1			



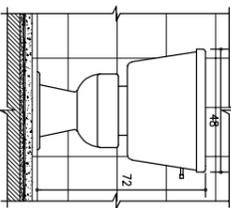
EASTERN WATER CLOSET-PLAN



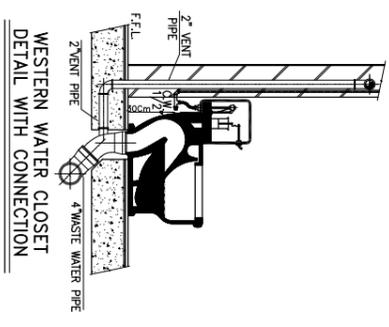
INSTALLATION DETAIL FOR EASTERN WATER CLOSET



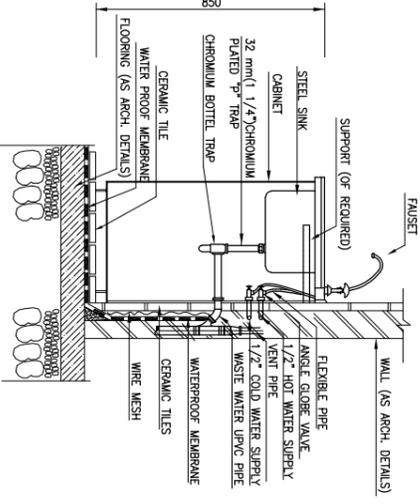
EASTERN W.C. ACCESSORIES



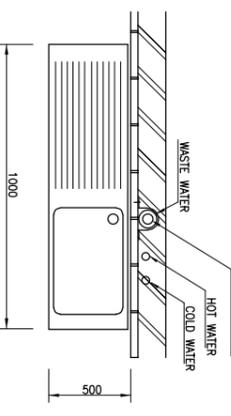
INSTALLATION DETAIL FOR WESTERN WATER CLOSET



WESTERN WATER CLOSET WITH CONNECTION

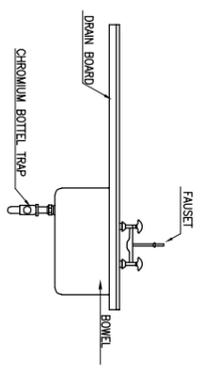


INSTALLATION DETAIL FOR KITCHEN SINK

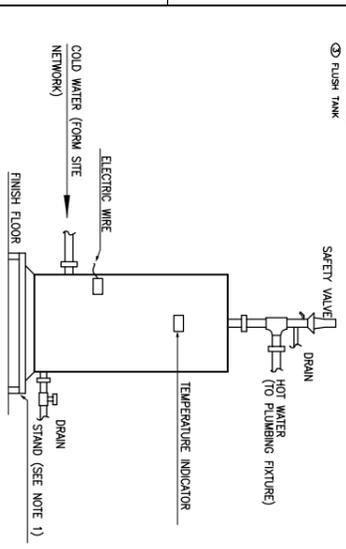


PLAN SINK

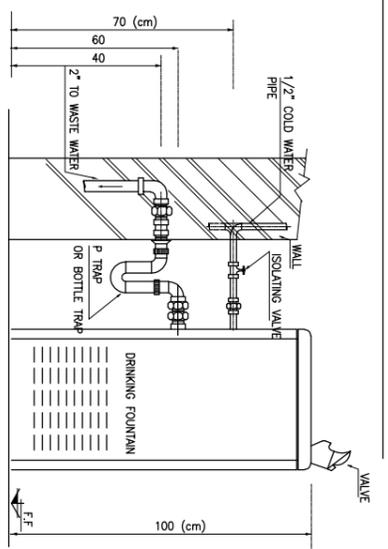
KITCHEN SINK (TWO BOWEL & ONE DRAIN BOARD)



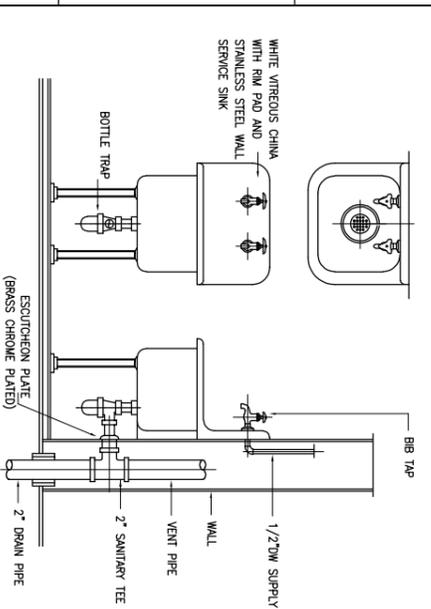
KITCHEN SINK ONE BOWEL & ONE DRAIN BOARD



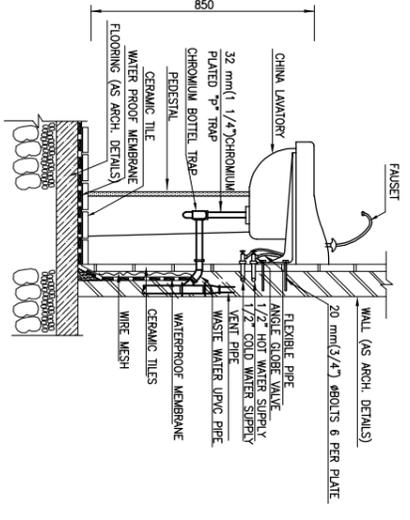
INSTALLATION DETAIL FOR ELECT. DOMESTIC WATER HEATER



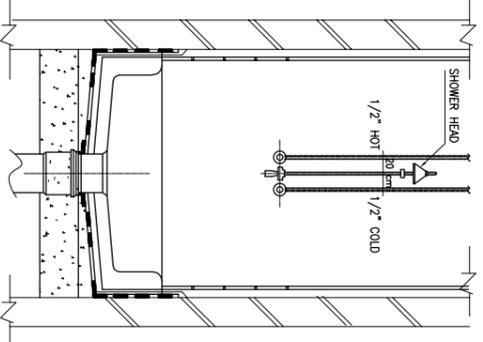
INSTALLATION OF DRINKING FOUNTAIN



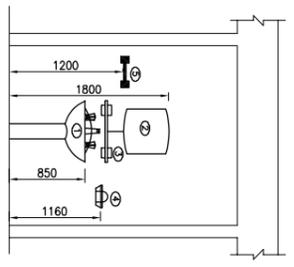
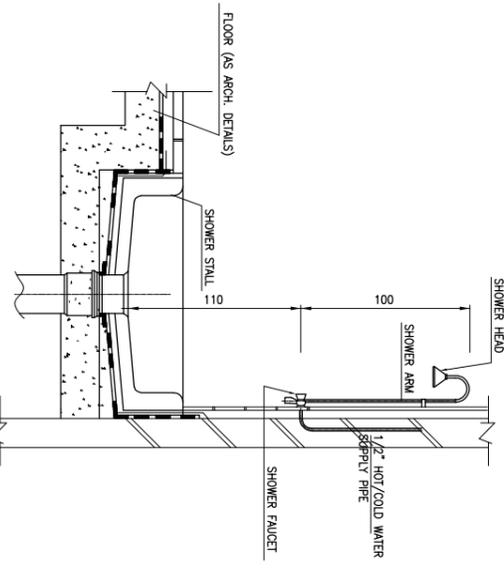
JANITOR BASIN



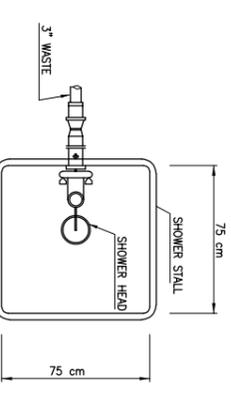
INSTALLATION DETAIL FOR PEDESTAL LAVATORY



INSTALLATION DETAIL FOR SHOWER



LAVATORY ACCESSORIES



Rev.	Date	Purpose of Issue	PRE'D.	CHK'D.	APP'D.
03	10-JUL-23	FIN	H.RASOULI	H.RASOULI	AR.AHOUEI
02	10-JUL-23	FIN	H.RASOULI	H.RASOULI	AR.AHOUEI
01	28-JUN-23	ATC	H.RASOULI	H.RASOULI	AR.AHOUEI
00	28-JAN-23	IFA	H.RASOULI	H.RASOULI	M.Mahmoodi

Project: Completing the Remaining Documents of Design and Engineering Services for LAB2 Unit

P.O. No.:6258

Client: Consultant:

SCALE : 1:100

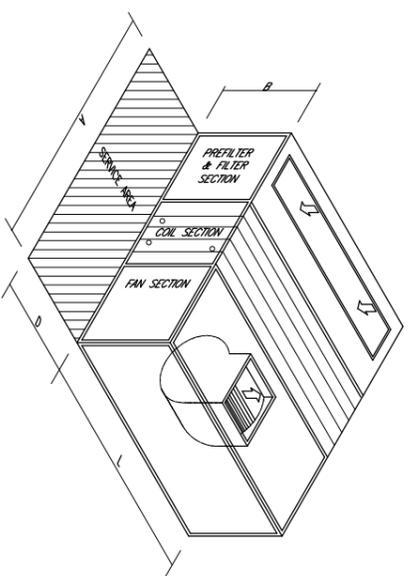
DRAWING TITLE: STANDARD DRAWING FOR HVAC & PLUMBING SYSTEM

QUD Doc. No.: -	Doc. No.: LRB-TNA-HV-99-STD-0001
Size: A1	SHEET No. 1 OF 12
14	REV. 01

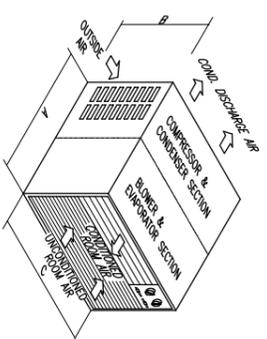




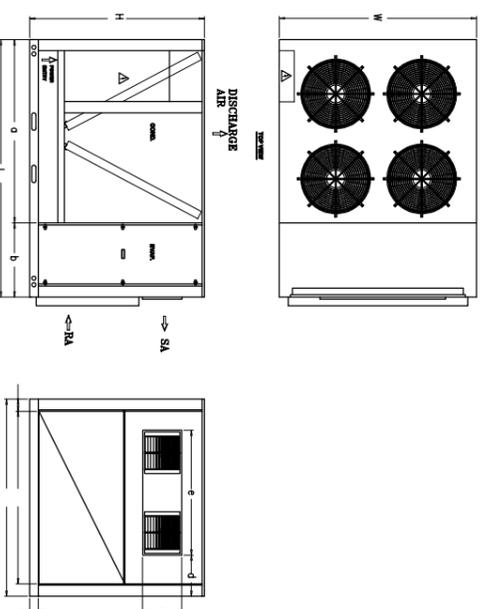




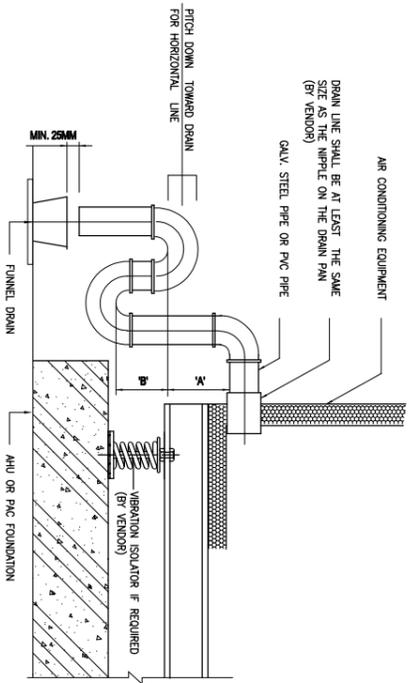
HORIZONTAL AIR HANDLING UNIT (TYPICAL)



THROUGH THE WALL PACKAGED ROOM AIR CONDITIONER (TYPICAL)

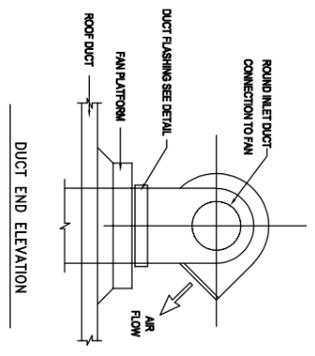


ROOFTOP PACKAGE

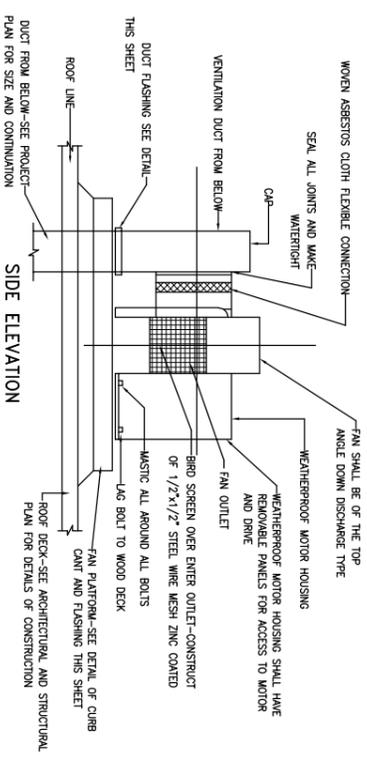


AIR CONDITIONING EQUIPMENT DRAIN ('U' TRAP)

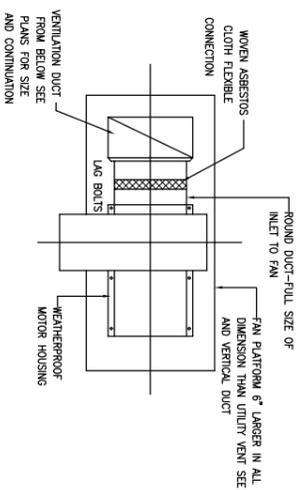
- REMARKS:
1. DRAW THRU UNIT: 'A' = STATIC PRESSURE IN PAN +50 MM, 'B' = STATIC PRESSURE IN PAN
  2. BLOW THRU UNIT: A = MIN. 25 MM, B = STATIC PRESSURE IN PAN x 2
  3. CONNECTION SIZE & CONNECTION TYPE SHALL BE CONFORMED TO FINAL VENDOR DATA.



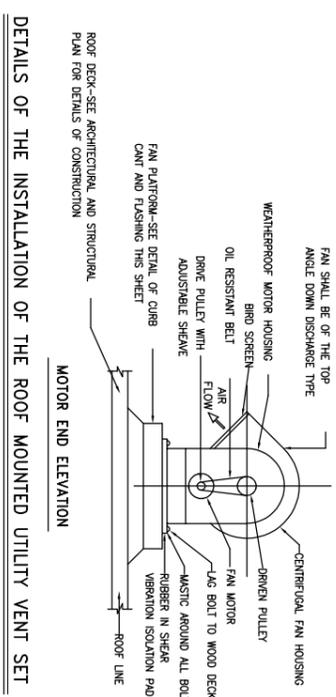
DUCT END ELEVATION



SIDE ELEVATION

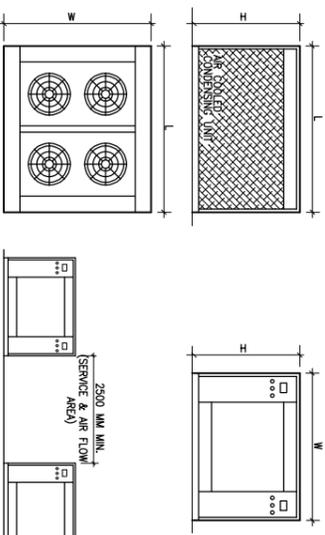


PLAN

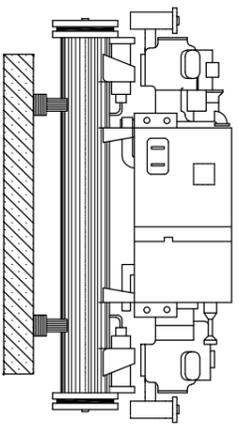


MOTOR END ELEVATION

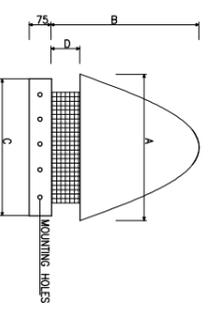
DETAILS OF THE INSTALLATION OF THE ROOF MOUNTED UTILITY VENT SET



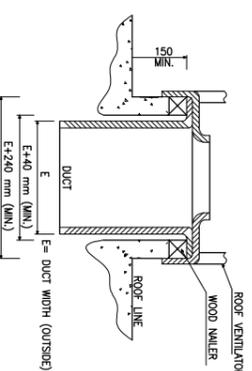
OUTDOOR CONDENSING UNIT (TYPICAL)



INDOOR COMPRESSOR UNIT (TYPICAL)



CENTRIFUGAL ROOF MOUNTED VENTILATOR (TYPICAL)



VENTILATOR INSTALLATION

GENERAL NOTES

REFERENCE DOCUMENTS

LEGEND

KEY PLAN

Rev.	Date	Purpose of Issue	PRE'D.	CHK'D.	APP'D.
03	10-JUL-23	FIN	H.RASOULI	H.RASOULI	AR.AHOUEI
02	10-JUL-23	FIN	H.RASOULI	H.RASOULI	AR.AHOUEI
01	28-JUN-23	ATC	H.RASOULI	H.RASOULI	AR.AHOUEI
00	29-JAN-23	IF&A	H.RASOULI	H.RASOULI	M.Mahmoodi

Project: Completing the Remaining Documents of Design and Engineering Services for LAB2 Unit

P.O. No.: 6258

Client:  Consultant: 

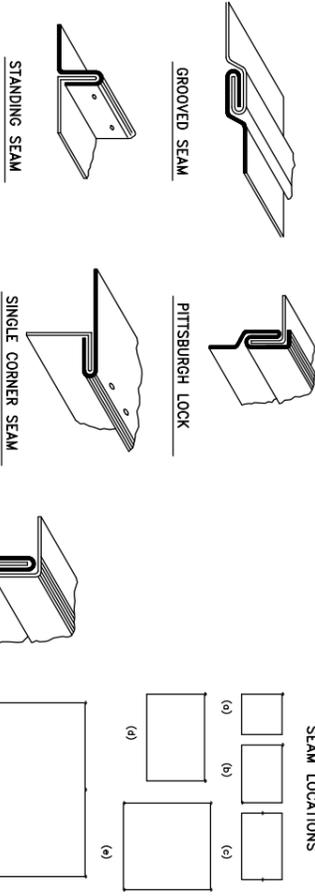
DRAWING TITLE: STANDARD DRAWING FOR HVAC & PLUMBING SYSTEM

QUD Doc. No.: -	Doc. No.: LRB-TNA-HV-99-STD-0001
Size: A1	SHEET No. 5 OF 12
14	REV. 01

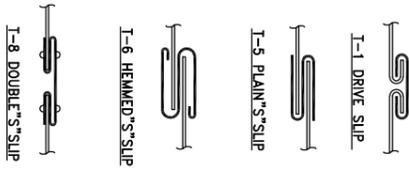
DIMENSION OF LONGEST SIDE mm. (IN.)	GAGE	THICKNESS mm. (IN.)	MINIMUM REINFORCING ANGLE SIZE mm. (IN.) AND MAXIMUM LONGITUDINAL SPACING mm. (IN.) BETWEEN TRANSVERSE JOINTS AND/OR INTERMEDIATE REINFORCING	TRANSVERSE JOINT				INTERMEDIATE REINFORCEMENT					
				UNREINFORCED	REINFORCED	UNREINFORCED	REINFORCED	UNREINFORCED	REINFORCED				
400(16)	24	0.301 (0.012)	NOT RECOMMENDED	25	0.70(24)	0.70(24)	0.70(24)	0.70(24)	0.70(24)	NOT RECOMMENDED	NOT RECOMMENDED	H + T (Min)	H + B + T (Min)
475-725 (18-30)	24	0.301 (0.012)	25x25x3 & 1250	25	0.70(24)	0.70(24)	0.70(24)	0.70(24)	0.70(24)	NOT RECOMMENDED	NOT RECOMMENDED	20 <sup>1</sup> 15 <sup>3</sup>	20 <sup>1</sup> 15 <sup>3</sup>
775-1500 (31-54)	22	0.254 (0.010)	25x25x3 & 1250	40	0.85(22)	0.85(22)	0.85(22)	0.85(22)	0.85(22)	NOT RECOMMENDED	NOT RECOMMENDED	3/4 * 3/4 * (H/8) 1/2 * 1/8	(H/8) 1/2 * 1/8
1375-2100 (54-84)	20	0.203 (0.008)	40x40x3 & 1250	40	1.00(20)	1.00(20)	1.00(20)	1.00(20)	1.00(20)	NOT RECOMMENDED	NOT RECOMMENDED	50x50x3	50x50x3

REMARKS:  
 1- THIS SCHEDULE IS SUITABLE FOR DUCTWORK OF STATIC PRESSURE DOES NOT EXCEED 600 PA (2 1/2" WATER GAUGE).  
 2- THIS SAME SHEET THICKNESS MUST BE USED IN ALL SIDES OF DUCT. EACH DUCT DIMENSION, WIDTH OR DEPTH, CONTROLS THE MINIMUM REINFORCEMENT REQUIREMENTS FOR THAT SIDE.

**RECOMMENDED DUCT CONSTRUCTION TABLE (RECTANGULAR LOW PRESSURE DUCT)**

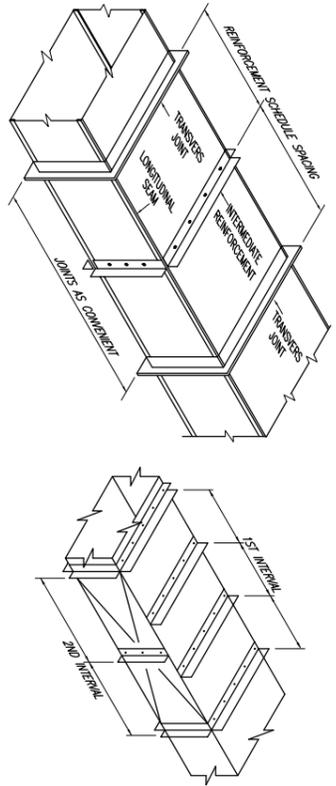


**LONGITUDINAL SEAMS FOR RECTANGULAR DUCT**



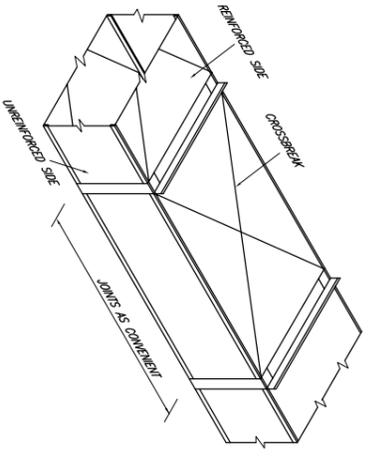
REMARKS  
 1. REFERENCE : SMACNA STANDARD 2ND EDITION-1995, FIG.1-7

**UNREINFORCED DUCT**



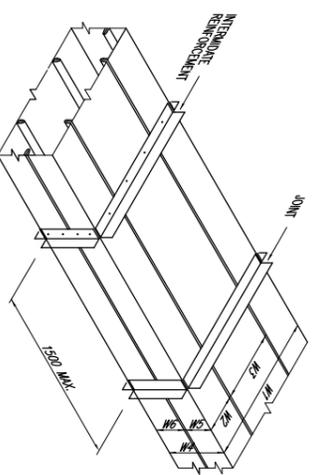
REMARKS  
 1. REFERENCE : SMACNA STANDARD 2ND EDITION-1995, FIG.1-10  
 2. REINFORCEMENT INTERVAL SPACING PER SCHEDULES FOR EACH DUCT DIMENSION.  
 3. INTERVALS NEED NOT NECESSARILY COINCIDE ON ADJACENT SIDES.

**DUCT REINFORCED ON ALL SIDES**



REMARKS:  
 1- REFERENCE : SMACNA STANDARD 2ND EDITION-1995, FIG.1-8  
 2- DUCT SIZES 500 MM. WIDTH AND LARGER WHICH HAVE MORE THAN 0.93 M SHALL BE CROSS BROKEN UNLESS DUCTS WILL HAVE INSULATION COVERING.  
 3- IT IS UNNECESSARY TO BREAK ALL SIDES EACH DUCT DIMENSION REQUIRES IT.  
 4- CROSS BREAKS SHALL NOT AFFECT REINFORCEMENT SPACING.

**CROSSBROKEN DUCT**



REMARKS  
 1. REFERENCE : SMACNA STANDARD 2ND EDITION-1995, FIG.1-6  
 2. USE DUCT GAGE REQUIRED BY GREATEST SUBDIVISION OF 'W' AND THE SELECTED SPACING (1500 MM.) OR FOR THE UNSEAMED SIDE, WHICHEVER IS GREATER THICKNESS.  
 3. SIZE JOINTS AND SELECT INTERMEDIATE REINFORCEMENT FROM RECOMMENDED DUCT CONSTRUCTION TABLE.  
 4. MINIMUM STANDING SEAM SIZES ARE :25mm FOR DUCTS 1050 AND LESS , 40mm FOR 1100 OVERALL WIDTH AND UP.  
 5. STITCH WELD SEAMS ON EXTERIOR OR BOLT SCREW OR BUTT PUNCH SEAMS ON INTERIOR.  
 6. SEE CROSSBREAKING REQUIREMENTS FOR EACH 'W'.

**INSIDE STANDING SEAM-LONGITUDINAL-500 PA MAXIMUM**

**GENERAL NOTES**

REFERENCE DOCUMENTS

LEGEND

KEY PLAN

03	10-JUL-23	FIN	H.RASOULI	H.RASOULI	AR.AHOUEI
02	10-JUL-23	FIN	H.RASOULI	H.RASOULI	AR.AHOUEI
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Project: Completing the Remaining Documents of Design and Engineering Services for LAB2 Unit

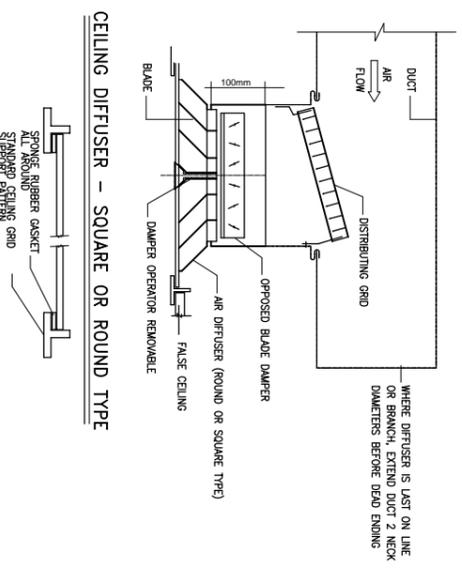
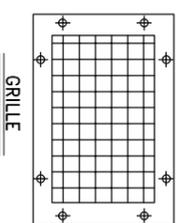
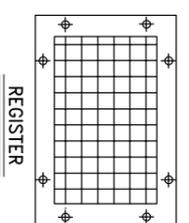
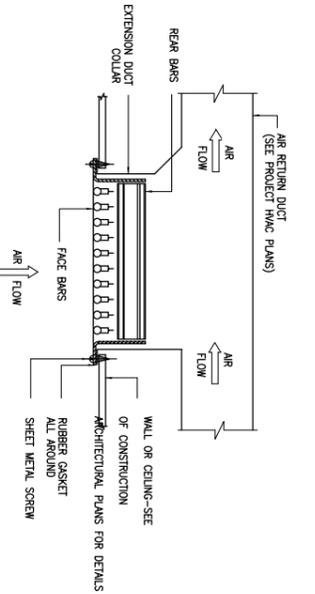
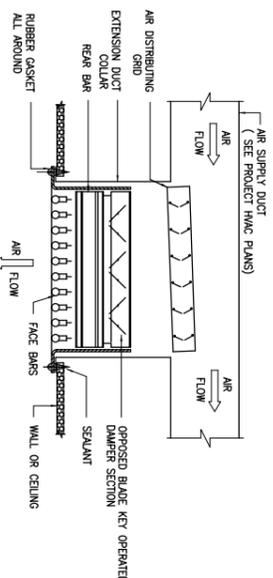
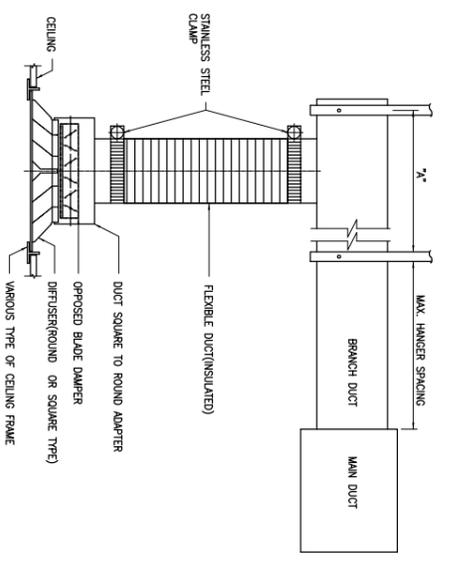
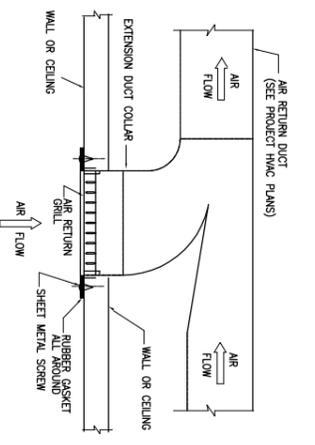
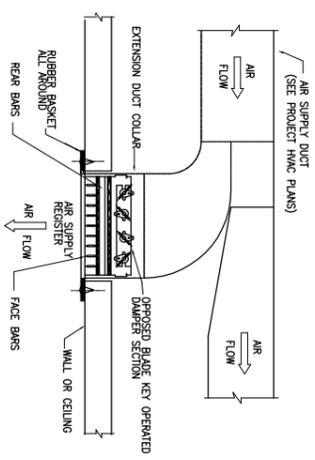
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Client: Consultant:

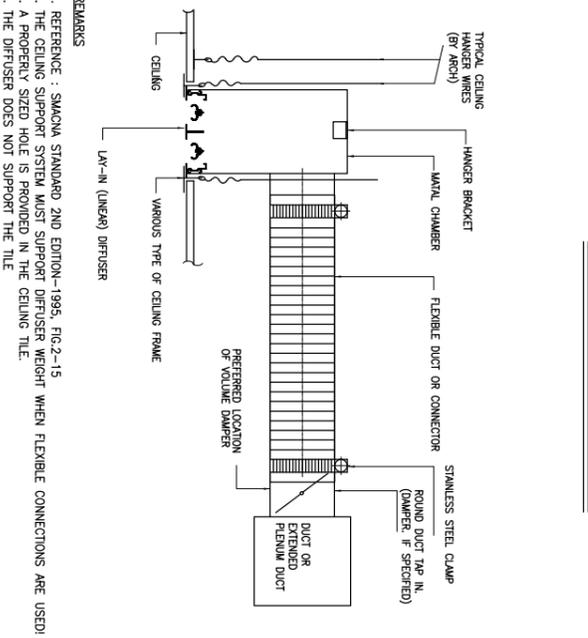
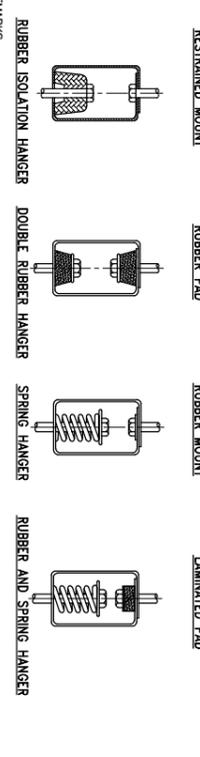
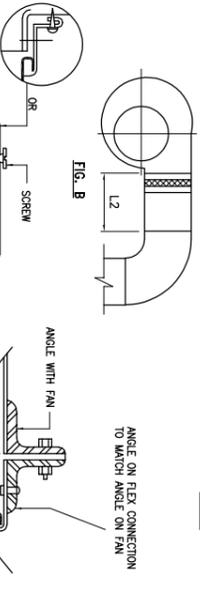
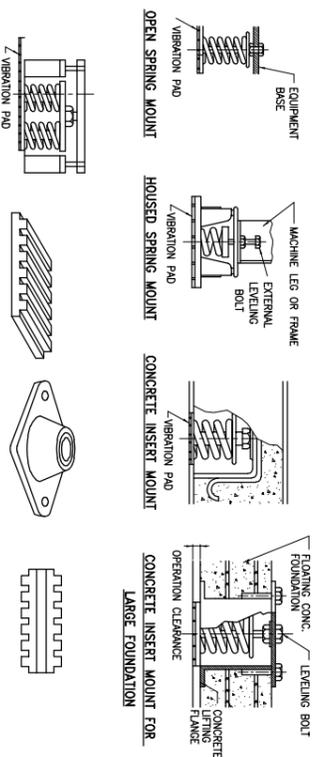
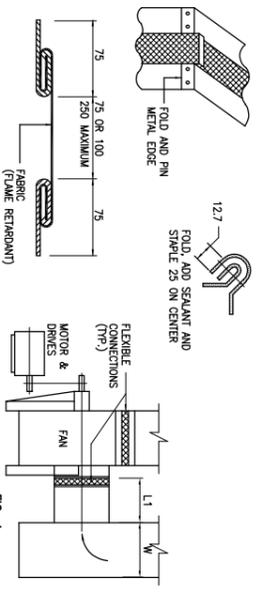
DRAWING TITLE: STANDARD DRAWING FOR HVAC & PLUMBING SYSTEM

QUD Doc. No.: - SHEET No. 6 OF 12 REV. 01





DIFFUSER CEILING SUPPORT



LAY-IN(LINEAR) DIFFUSER

REMARKS  
 1. REFERENCE : SMACNA STANDARD 2ND EDITION-1995, FIG.2-15  
 2. THE CEILING SUPPORT SYSTEM MUST SUPPORT DIFFUSER WEIGHT WHEN FLEXIBLE CONNECTIONS ARE USED!  
 3. A PROPERLY SIZED HOLE IS PROVIDED IN THE CEILING TILE.  
 4. THE DIFFUSER DOES NOT SUPPORT THE TILE.

REMARKS  
 1. REFERENCE : SMACNA STANDARD 2ND EDITION-1995, FIG. 2-17  
 2. SEE SMACNA DUCT DESIGN MANUAL AND AMCA PUBLICATION 201REVIEW PERFORMANCE OF VARIOUS INLET AND OUTLET CONDITIONS (11.12.W DIMENSIONS, ETC.)

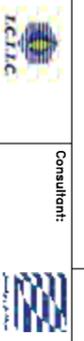
ISOLATION DEVICES (TYPICAL)

REMARKS  
 1. REFERENCE : SMACNA STANDARD 2ND EDITION-1995, APPENDICES A.36  
 2. ADJUST FOR PROPER ALIGNMENT AND LOADING.  
 3. EXAMINE DEAD LOAD AND OPERATING LOAD CONDITON.  
 4. MAINTAIN ALIGNMENT OF THE SYSTEM COMPONENTS BEING ISOLATED WITHOUT IMPOSING EXCESS STRESS.  
 5. CHECK HANGER ROD SIZE FOR ALLOWABLE LOADS AT THE ISOLATOR DEVICE AND AT THE UPPER AND LOWER ATTACHMENTS TO STRUCTURES, DUCT/EQUIPMENT, ETC.  
 6. CONSULT MANUFACTURER FOR APPLICATION DATA.

QUD Doc. No.:	Doc. No.:	8 OF 12	REV. 01
Size: A1	SHEET No.		

03	10-JUL-23	FIN	H.RASOULI	H.RASOULI	AR.AHOUEI
02	10-JUL-23	FIN	H.RASOULI	H.RASOULI	AR.AHOUEI
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Rev.	Date	Purpose of Issue	PRE'D.	CHK'D.	APP'D.

Project  
 Completing the Remaining Documents of Design and Engineering Services for LAB2 Unit



P.O. No.: 6258  
 Client:  
 Consultant:  
 DRAWING TITLE:  
 STANDARD DRAWING FOR HVAC & PLUMBING SYSTEM

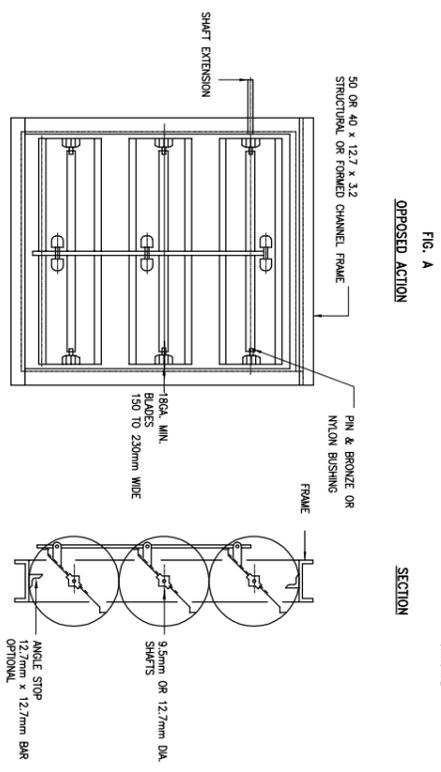
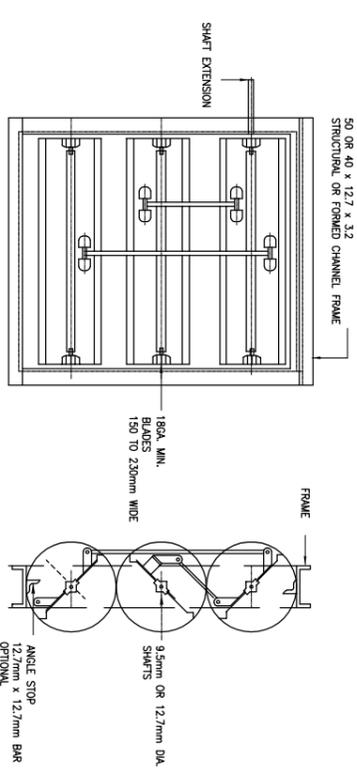
KEY PLAN

REFERENCE DOCUMENTS

LEGEND

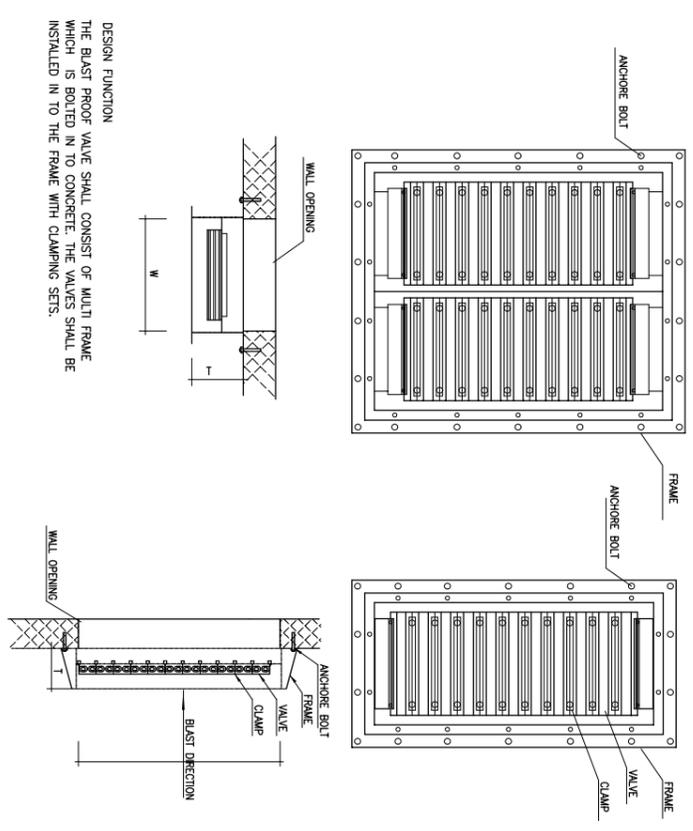
KEY PLAN

Doc. No.: IRR-TNA-HV-99-STP-0001  
 REV. 01



REMARKS  
1. REFERENCE : SMACNA STANDARD 2ND EDITION-1995, FIG-2-13

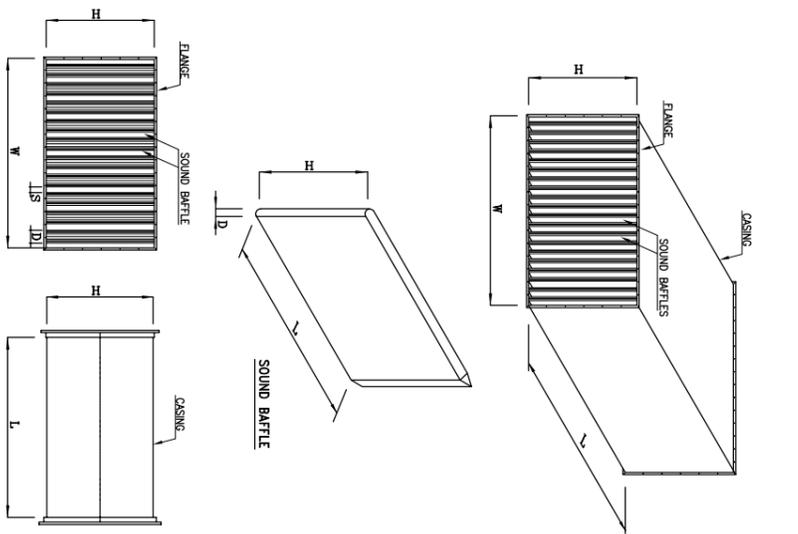
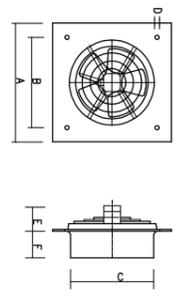
VOLUME DAMPER-MULTI BLADE TYPE



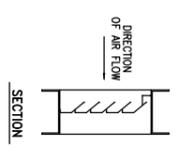
BLAST PROOF VALVE (TYPICAL)

REMARKS:  
1- AXIAL FANS SHALL BE WALL, DUCT OR WINDOW MOUNTED.

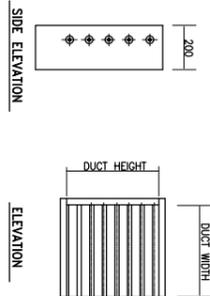
AXIAL EXHAUST FAN (TYPICAL)



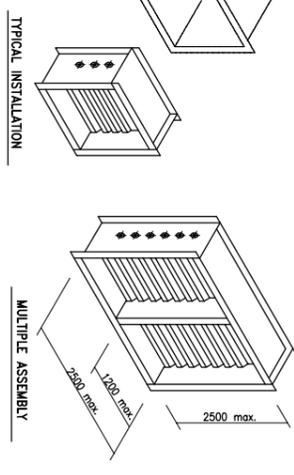
SOUND ATTENUATOR (TYPICAL)



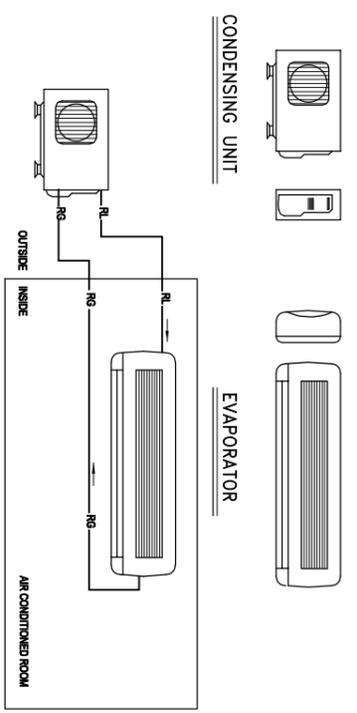
BACKDRAUGHT DAMPER



CONDENSING UNIT



PRESSURE RELIEF DAMPER



SPLIT TYPE WALL MOUNTED ROOM AIR CONDITIONER (TYPICAL)

REFERENCE DOCUMENTS

DOC. NO.

LEGEND

KEY PLAN

Rev.	Date	Purpose of Issue	PRE'D.	CHK'D.	APP'D.
03	10-JUL-23	FIN	H.RASOULI	H.RASOULI	AR.AHOOEI
02	10-JUL-23	FIN	H.RASOULI	H.RASOULI	AR.AHOOEI
01	28-JUN-23	AFC	H.RASOULI	H.RASOULI	AR.AHOOEI
00	29-JAN-23	IFA	H.RASOULI	H.RASOULI	M.Mahmoodi

Project  
Completing the Remaining Documents of Design and Engineering Services for LAB2 Unit

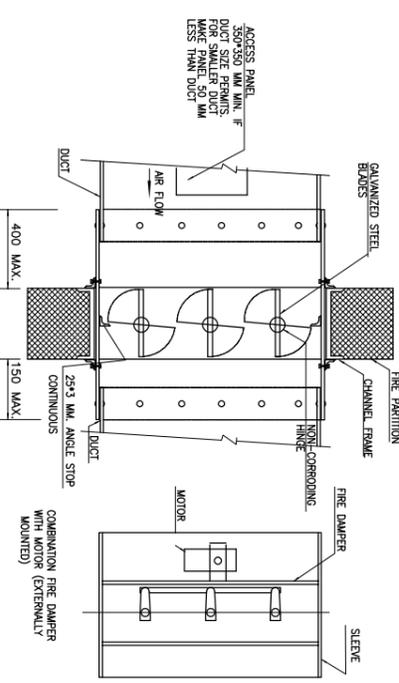
P.O. No.:6258

Client:  Consultant: 

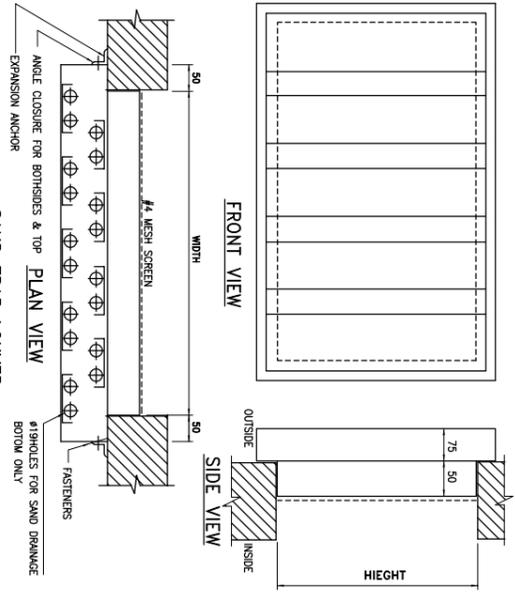
DRAWING TITLE:  
STANDARD DRAWING FOR HVAC & PLUMBING SYSTEM

QUD Doc. No.:	Doc. No.:	Size:	SHEET No.	9 OF 12	REV. 01
-	LRB-TNA-HV-99-STD-0001	A1	9	12	01

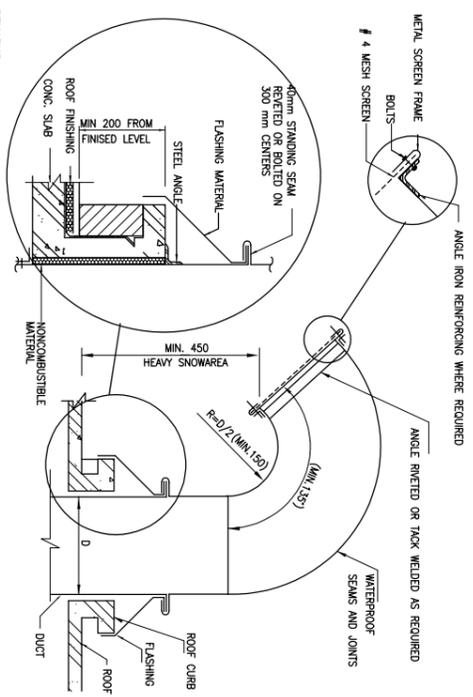
FOR DAMPERS TO 36" WIDE USE NO.18 U.S. GAUGE  
FOR DAMPERS TO 37" TO 43" WIDE USE NO.16 U.S. GAUGE  
BLADES



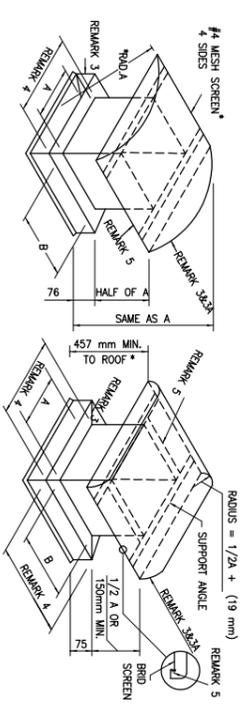
TYPICAL FIRE DAMPER INSTALLATION (MULTI-LOUVER TYPE)



SAND TRAP LOUVER



RECTANGULAR GOOSENECK

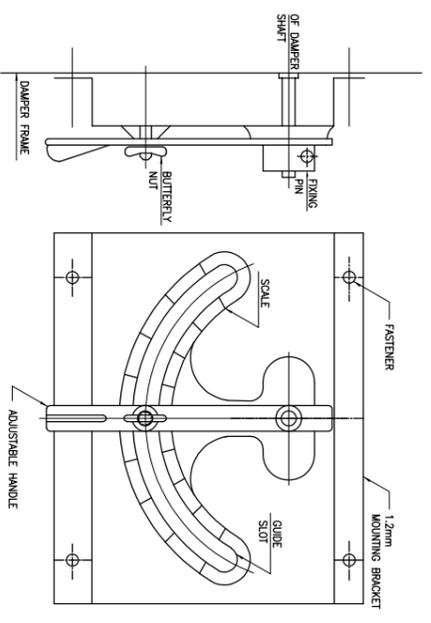


\* SEE ADDITIONAL NOTES ON RECTANGULAR GOOSENECK DETAIL FOR SCREEN AREA COMPENSATION, DEFLECTORS, CURB HEIGHTS & R/W ELEVATION.

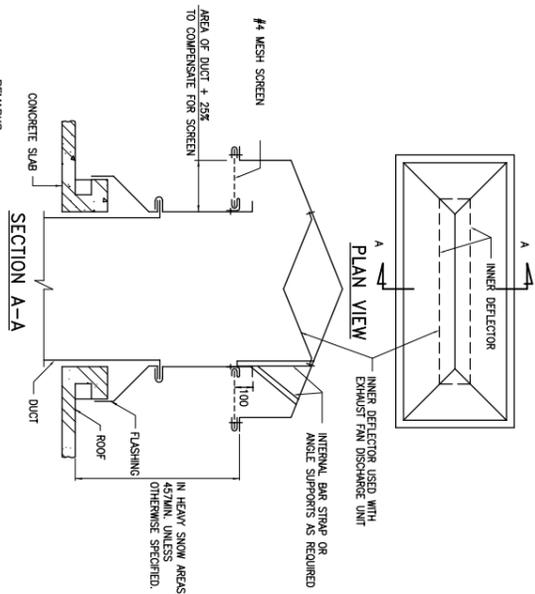
REMARKS

1. REFERENCE : SAKMA STANDARD 2ND EDITION-1995, FIG.5-6
2. WHEN A x B = 1.11 SQ. M USE 22GA. WHEN A x B = 1.11 TO 1.67 SQ. M = USE 20GA. WHEN A x B = OVER 1.67 SQ. M = USE 18GA.
3. WHEN CONSTRUCTION IS GALVANIZED USE GA. SCHEDULE SHOWN, WHEN CONSTRUCTION IS ALUMINUM USE FOUR GAGES HEAVIER.
4. WELDED OR BUTTED AND SOLDERED.
5. COVER END SEAMS ON UNITS MAY BE SEALED FITTSBURGH.
6. DIMENSIONS AS SHOWN TO FLASH OVER CURB.
7. SUPPORT SCREEN ON 3/8" (19 mm) HEAVY FLANGE.
8. CURBS MAY BE FLASHED AS SHOWN IN RECTANGULAR GOOSENECK DETAIL.
9. IF USED FOR DAMPER ACCESS, USE HINGES AND LATCHES.

INTAKE OR EXHAUST VENTILATORS



QUADRANT (HANDLE FOR VOLUME DAMPER)



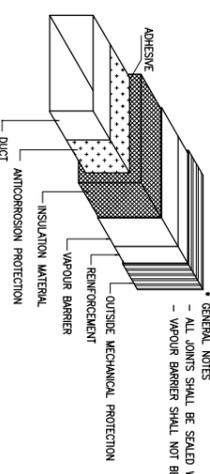
LARGE INTAKE OR EXHAUST VENTILATOR

REMARKS

1. REFERENCE : SAKMA STANDARD 2ND EDITION-1995, FIG.5-7
2. FOR CURB AND FLASHING DETAIL SEE RECTANGULAR GOOSENECK DETAIL.

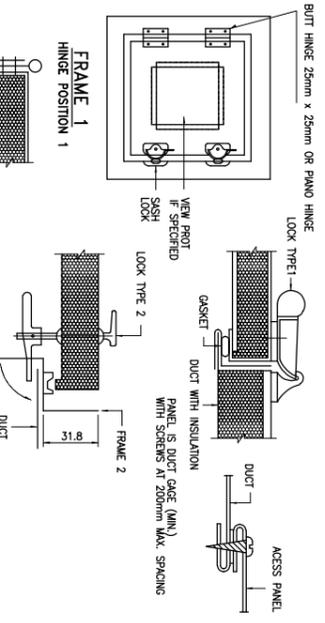
GENERAL NOTES

- ALL JOINTS SHALL BE SEALED WITH DUCT SEALANT FOSTER SEALANT 32-17
- VAPOUR BARRIER SHALL NOT BE PERFORMED WITH POP NAIL, SCREW OR DRILL



DUCT THERMAL INSULATION

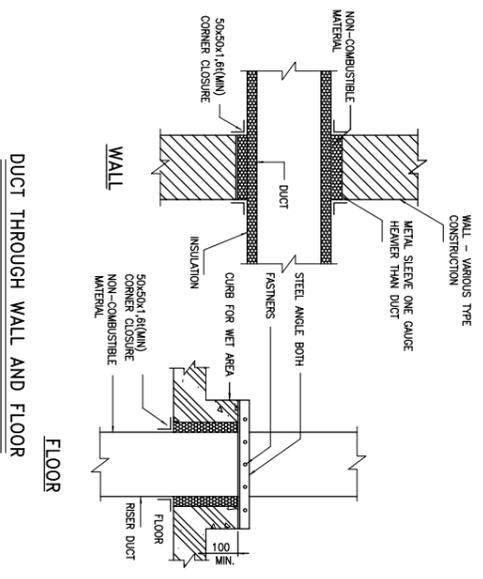
* INSIDE DUCT		* OUTSIDE DUCT	
1. DUCT	: GALVANIZED STEEL (OR STAINLESS STEEL IN CASE OF WALL PENETRATION)	1. DUCT	: GALVANIZED STEEL
2. ANTICORROSION PROTECTION	: FOSTER-PRIMER 51-14	2. ANTICORROSION PROTECTION	: FOSTER-PRIMER 51-14
3. ADHESIVE	: FOSTER QUICK TACK 85-60 (WATER BASE ADHESIVE)	3. ADHESIVE	: FOSTER QUICK TACK 85-60 (WATER BASE ADHESIVE)
4. INSULATION MATERIAL	: LAMENAL WOOL 48 KG/M <sup>3</sup> WITH FACING 25 MM THICK	4. INSULATION MATERIAL	: GLASS WOOL 48 KG/M <sup>3</sup> WITH FACING 40 MM THICK
5. VAPOUR BARRIER COATS	: ALUMINUM FOIL	5. VAPOUR BARRIER COATS	: ALUMINUM CLADDING
6. REINFORCEMENT	: OPEN WOVEN GLASS CLOTH DIPPED IN VAPOUR BARRIER	6. REINFORCEMENT	: OPEN WOVEN GLASS CLOTH DIPPED IN VAPOUR BARRIER
7. PROTECTION		7. PROTECTION	: ALUMINUM SHEET (1 mm THICKNESS)



FRAME	NO. HINGES	NO. LOCKS	METAL GAGE (mm)
FRAME 1	1-5	1-5	240(20) 280(25) 220(0.85) 240(70) 280(0.55) 220(0.85) 220(0.85) 280(0.55)
FRAME 2	2-5	2-5	220(0.85) 220(0.85) 280(0.55) 200(1.01) 200(1.01) 240(0.70) 200(1.01) 200(1.01) 240(0.70)
FRAME 3	2-5	2-5	200(1.01) 200(1.01) 240(0.70) 180(1.31) 180(1.31) 240(0.70)

REMARKS  
1. REFERENCE : SAKMA STANDARD 2ND EDITION-1995, FIG.2-10  
2. CONSTRUCTION AND AIRTIGHTNESS MUST BE SUITABLE FOR THE DUCT PRESSURE CLASS USED.

DUCT ACCESS DOORS AND PANELS



DUCT THROUGH WALL AND FLOOR

Client:

Project: Completing the Remaining Documents of Design and Engineering Services for LAB2 Unit

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Consultant:

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03	10-JUL-23	FIN	H.RASOULI	H.RASOULI	AR.AHOUEI
01	28-JUN-23	ATC	H.RASOULI	H.RASOULI	AR.AHOUEI
00	29-JAN-23	IFA	H.RASOULI	H.RASOULI	M.Mahmoodi

Project: Completing the Remaining Documents of Design and Engineering Services for LAB2 Unit

P.O. No.: 6258

Client:

Consultant:

DRAWING TITLE: STANDARD DRAWING FOR HVAC & PLUMBING SYSTEM

QUD Doc. No.: -

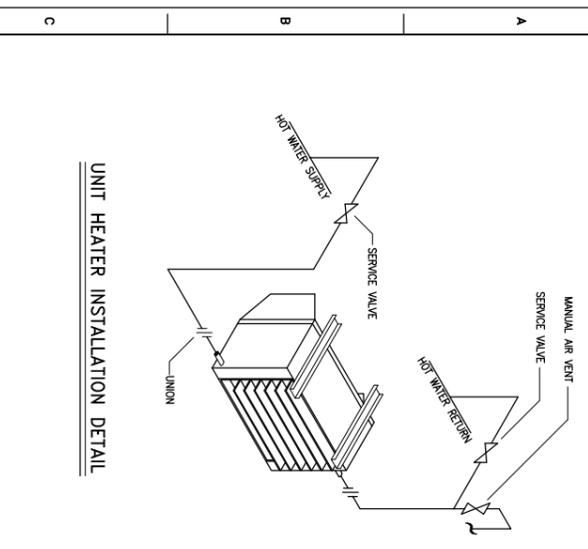
Size: A1

SHEET No. 10 OF 12

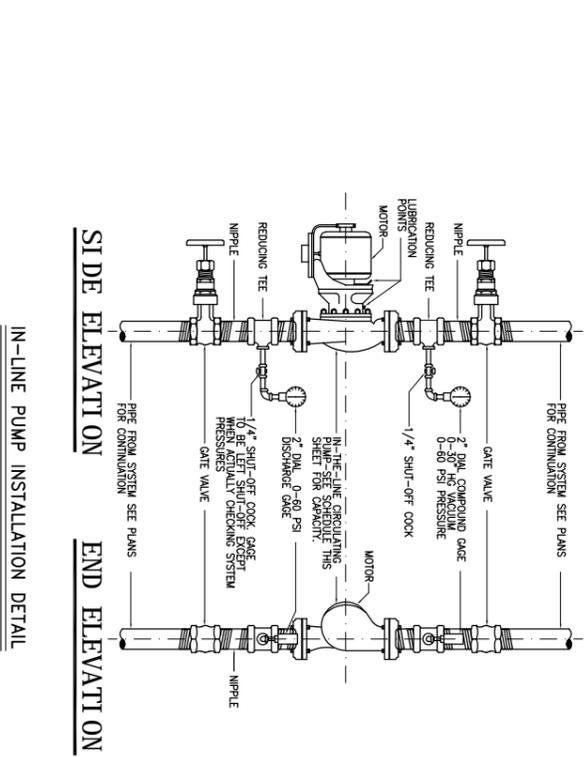
Doc. No.: LRB-TNA-HV-99-STU-0001

REV. 01

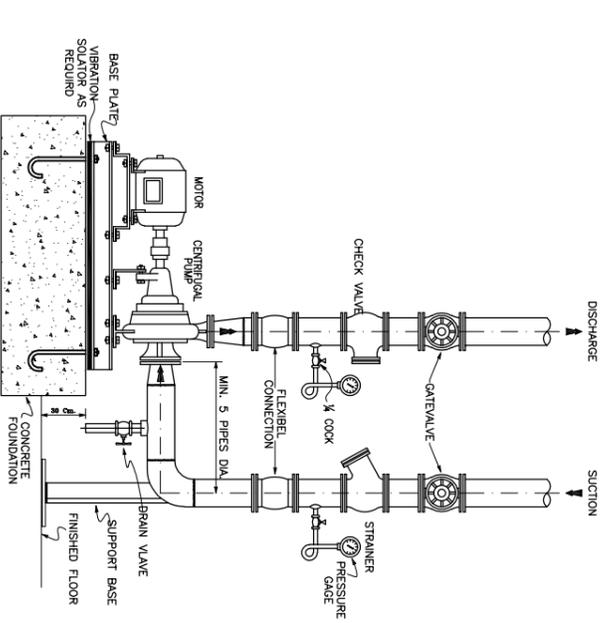




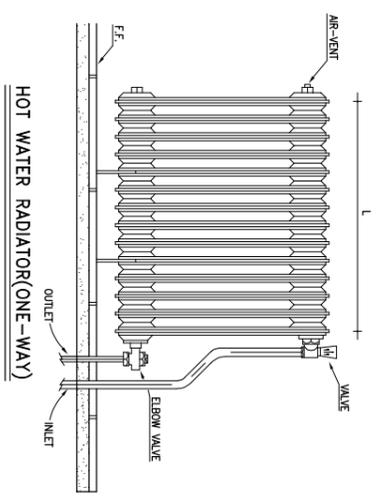
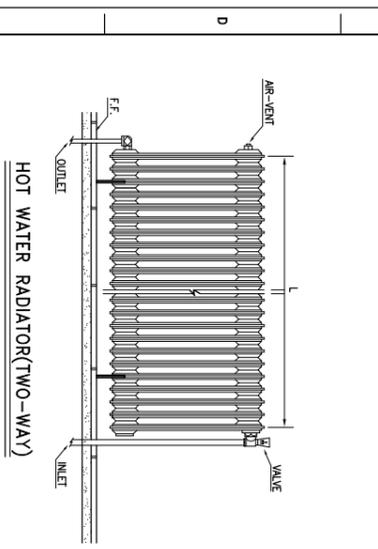
UNIT HEATER INSTALLATION DETAIL



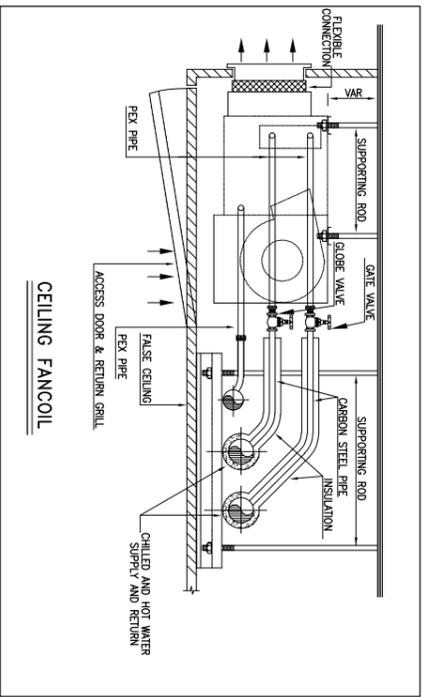
SIDE ELEVATION  
END ELEVATION  
IN-LINE PUMP INSTALLATION DETAIL



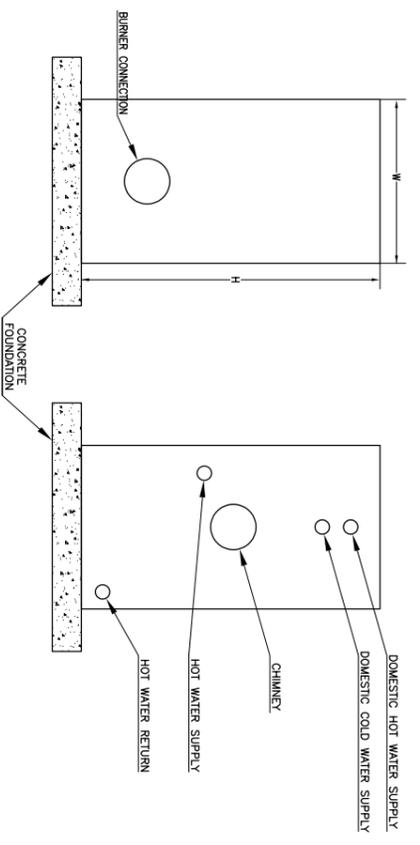
CENTRIFUGAL PUMP INSTALLATION DETAIL



HOT WATER RADIATOR(TWO-WAY)  
HOT WATER RADIATOR(ONE-WAY)

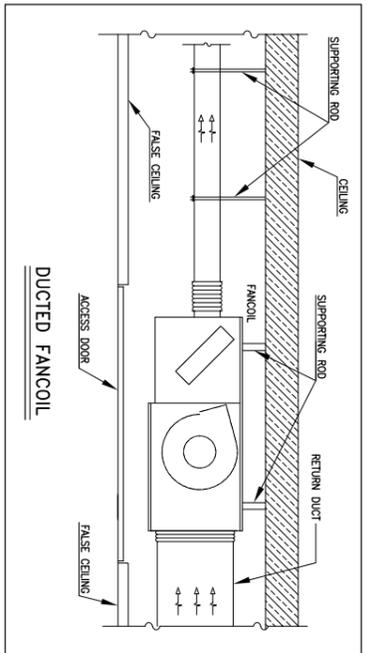


CEILING FANCOIL



HEATING PACKAGE

REMARKS  
1. ALL DIMENSIONS SHOULD BE REVIEW AFTER THE PURCHASE ORDER IS FINALIZED.



DUCTED FANCOIL

REFERENCE DOCUMENTS	DOC. NO.

LEGEND

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Consultant:



DRAWING TITLE:  
STANDARD DRAWING FOR HVAC & PLUMBING SYSTEM

QUD Doc. No.:	Doc. No.:	Size:	SHEET No.	12 OF 12	REV. 01
-	LRB-TNA-HV-99-STD-0001	A1	12	12	01