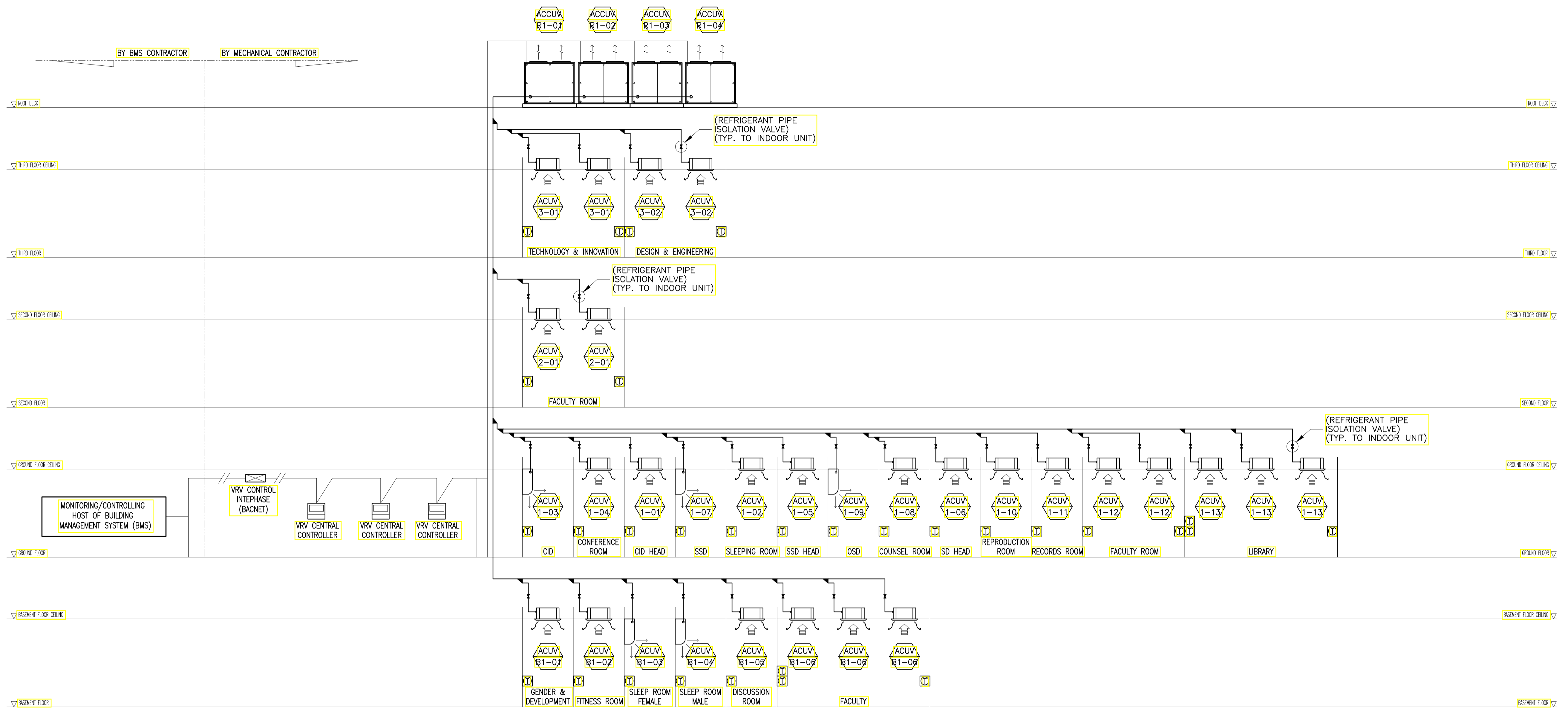


GENERAL NOTES: FOR REFERENCE ONLY, ALL MECHANICAL WORKS ARE EXCLUDED IN PHASE 1



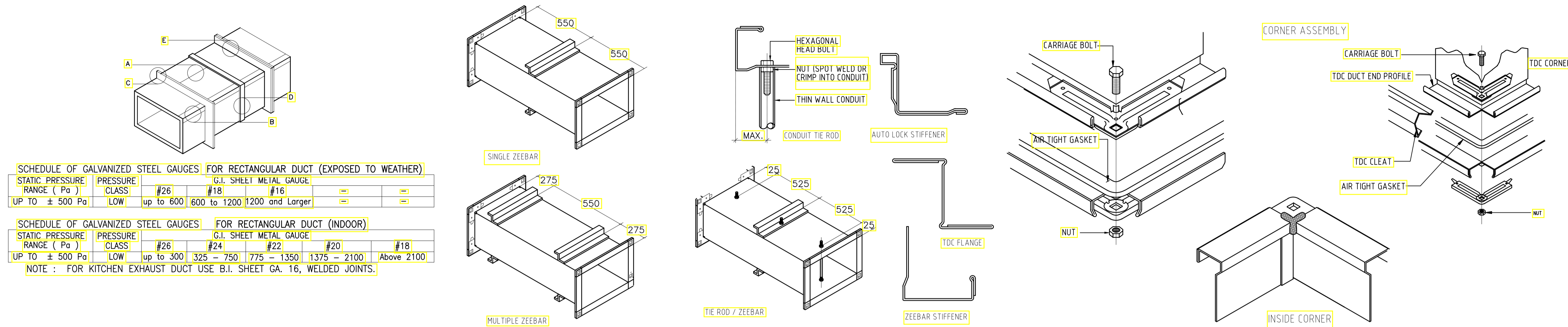
- CONTROL/BMS NOTES**
1. ALL LOCAL THERMOSTAT SHALL BE WIRED CONNECT TO INDOOR UNIT. WIRELESS REMOTE IS NOT ADVISABLE.
  2. PROVIDE ALL CONTROL DEVICES AND CONNECT TO BMS FOR ALL UNITS.
  3. PROVIDE DIRECT DIGITAL CONTROLLER FOR EACH UNIT.
  4. CONTROLLER AND WIRING TO AND FROM UNIT SHALL BE UL LISTED FOR FIRE ALARM SERVICE.
  5. CONTROL DIAGRAM APPLICABLE TO OTHER AREAS WITH SIMILAR SCHEME.
  6. FULL COMMUNICATION TO BMS VIA OPEN PROTOCOL (BACNET). ALL READINGS TO BE READABLE ON BMS. ALL NECESSARY INTERFACE EQUIPMENT TO BE INCLUDED FINAL POINT QUANTITIES TO BE CONFIRMED ON FINAL EQUIPMENT SELECTION BY THE CONTRACTOR.
  7. NUMBER OF INPUT AND OUTOUT POINTS MAY VARY DEPENDING ON THE NUMBERS OF RELATED EQUIPMENT. BMS CONTRACTOR TO PRESENT THE NUMBER OF POINTS TO BE FINALIZED BY THE CONSULTANT AND CLIENTS.
  8. ALL DDC TO BE PROVIDED BY BMS CONTRACTOR
  9. CONTROL INTERPHASE MODULE FOR VRV/VRF SHALL BE PROVIDED BY MECHANICAL CONTRACTOR

1  
M-06 SCALE 1:100

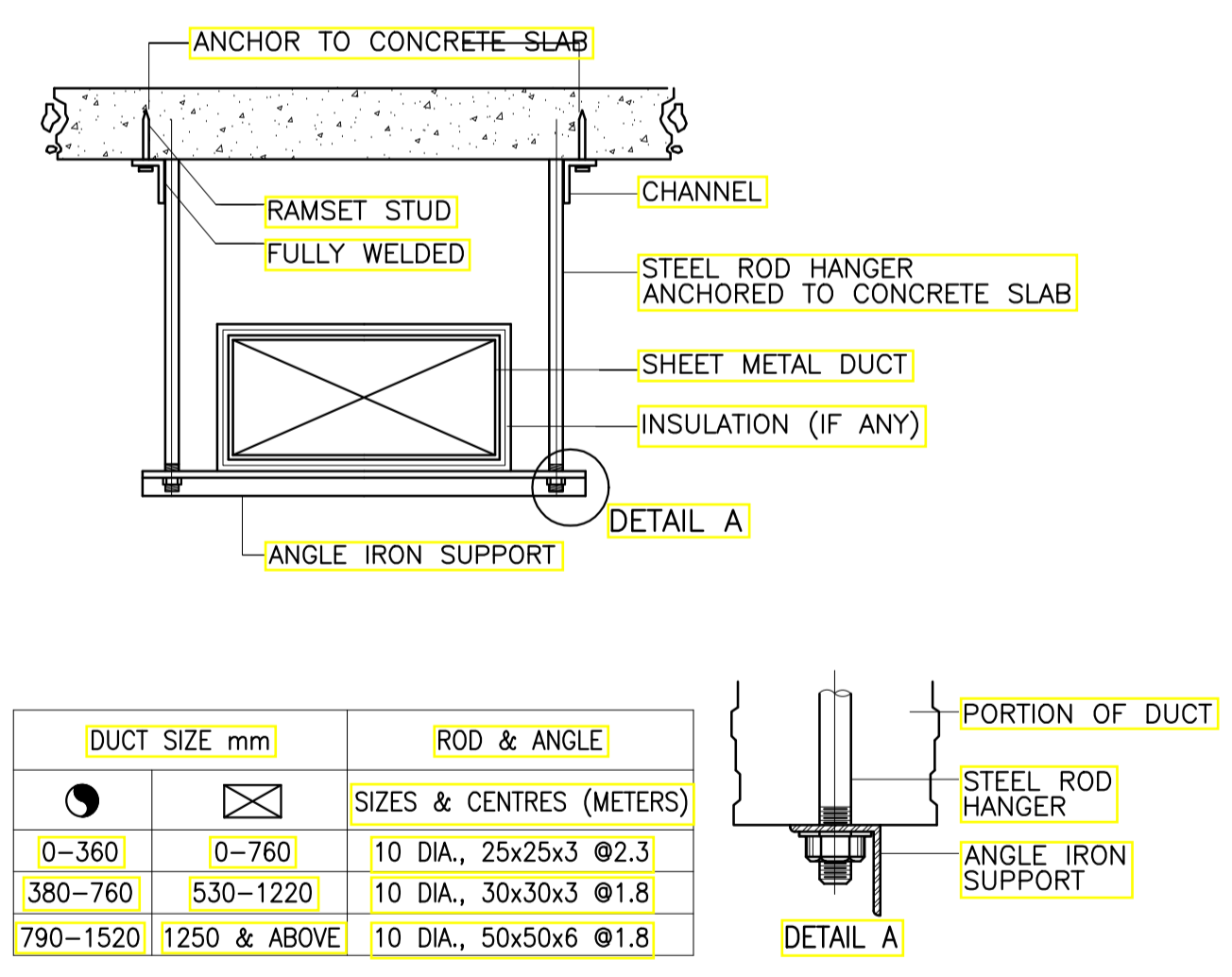
**ACADEMIC BUILDING II  
VRF SCHEMATIC DIAGRAM**

<p><b>ENRIQUE O. OLONAN &amp; ASSOCIATES</b> ARCHITECTS ENGINEERS CONSULTANTS</p> <p><i>IN JOINT VENTURE WITH</i></p> <p><b>ENRIQUE O. OLONAN &amp; ASSOCIATES, CO.</b> ARCHITECTS ENGINEERS CONSULTANTS</p> <p><small>SUITE 305 XAVIERVILLE SQUARE CONDOMINIUM NO. 38 XAVIERVILLE AVENUE, LOROLA HEIGHTS, QUEZON CITY, 1108 TEL NOS: 426 7009; 426 3000-04 FAX NOS: 927 0608; 426 7214</small></p>	<p>DESIGNER:</p> <p><b>MELITON A. NAGUE</b> PROFESSIONAL MECHANICAL ENGINEER</p> <p>PRC No. 4908 Validity: 06/05/2024 PTR No. 8535022 Date: 01/05/2021 Place: MAKATI CITY TIN: 912-907-486</p>	<p>REPUBLIC ACT 9266</p> <p><small>DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS DULY SIGNED, STAMPED OR SEALED, AS INSTRUMENTS OF SERVICE, ARE THE INTELLECTUAL PROPERTY AND DOCUMENT OF THE ARCHITECT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTY OR IN WHOLE, WITHOUT THE WRITTEN CONSENT OF ARCHITECT OR AUTHOR OF SAID DOCUMENT.</small></p>	<p>PROJECT:</p> <p><b>PROPOSED ACADEMIC BUILDING II / MULTI-PURPOSE GYMNASIUM</b></p> <p>LOCATION: Brgy. Rizal, Odiangan, Romblon</p>	<p>DESIGNED FOR:</p> <p>REPUBLIC OF THE PHILIPPINES PHILIPPINE SCIENCE HIGH SCHOOL - MIMAROPA REGIONAL CAMPUS</p>	<p>RECOMMENDING APPROVAL:</p> <p><b>MERIAM F. FALLAR</b> FAD CHIEF</p>	<p>APPROVED BY:</p> <p><b>EDWARD C. ALBARACIN</b> CAMPUS DIRECTOR</p>	<p>SHEET CONTENTS:</p> <p>VRF SCHEMATIC DIAGRAM</p>	<p>SHEET NO:</p> <p><b>M</b> 06 08</p>
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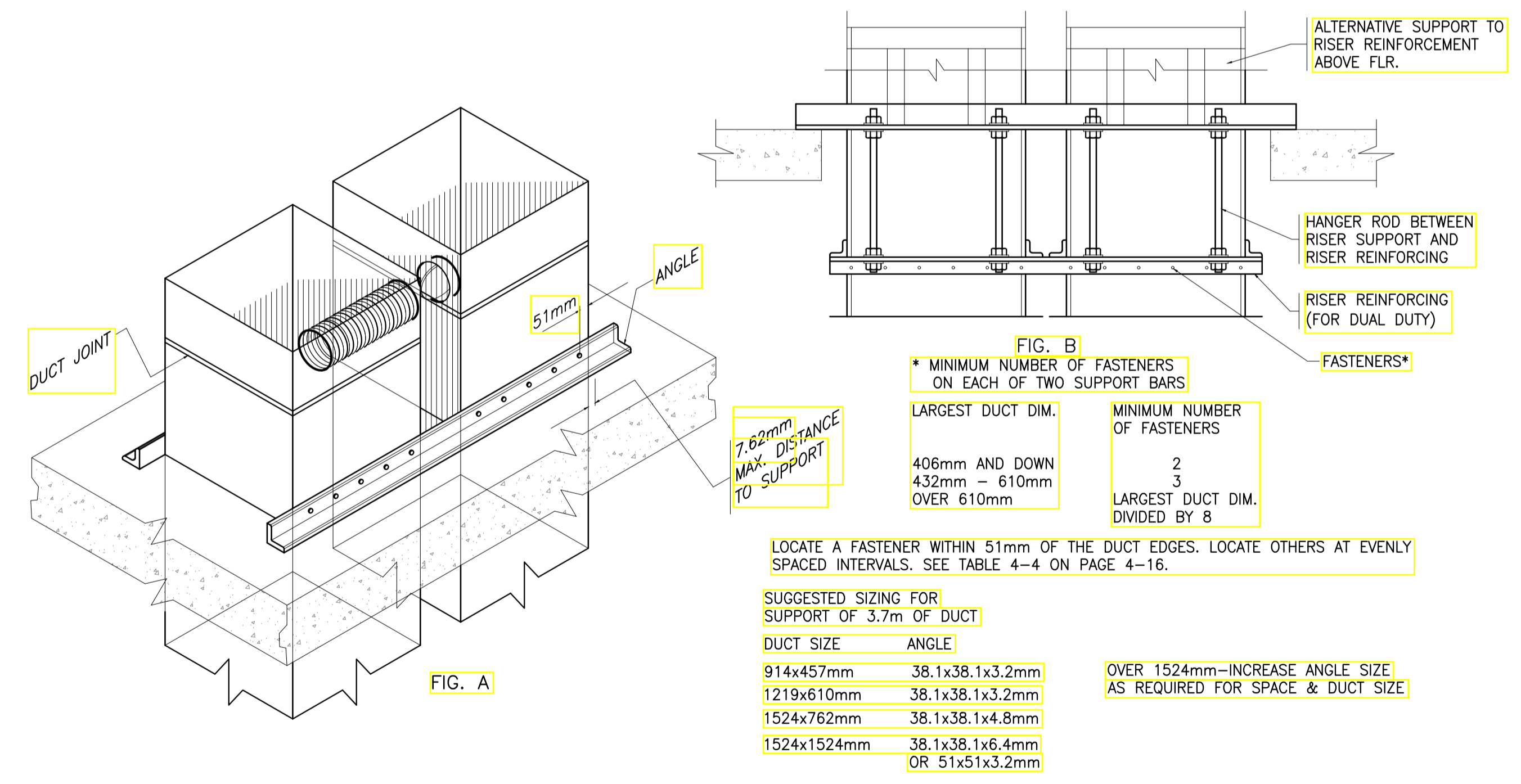
GENERAL NOTES: FOR REFERENCE ONLY, ALL MECHANICAL WORKS ARE EXCLUDED IN PHASE 1



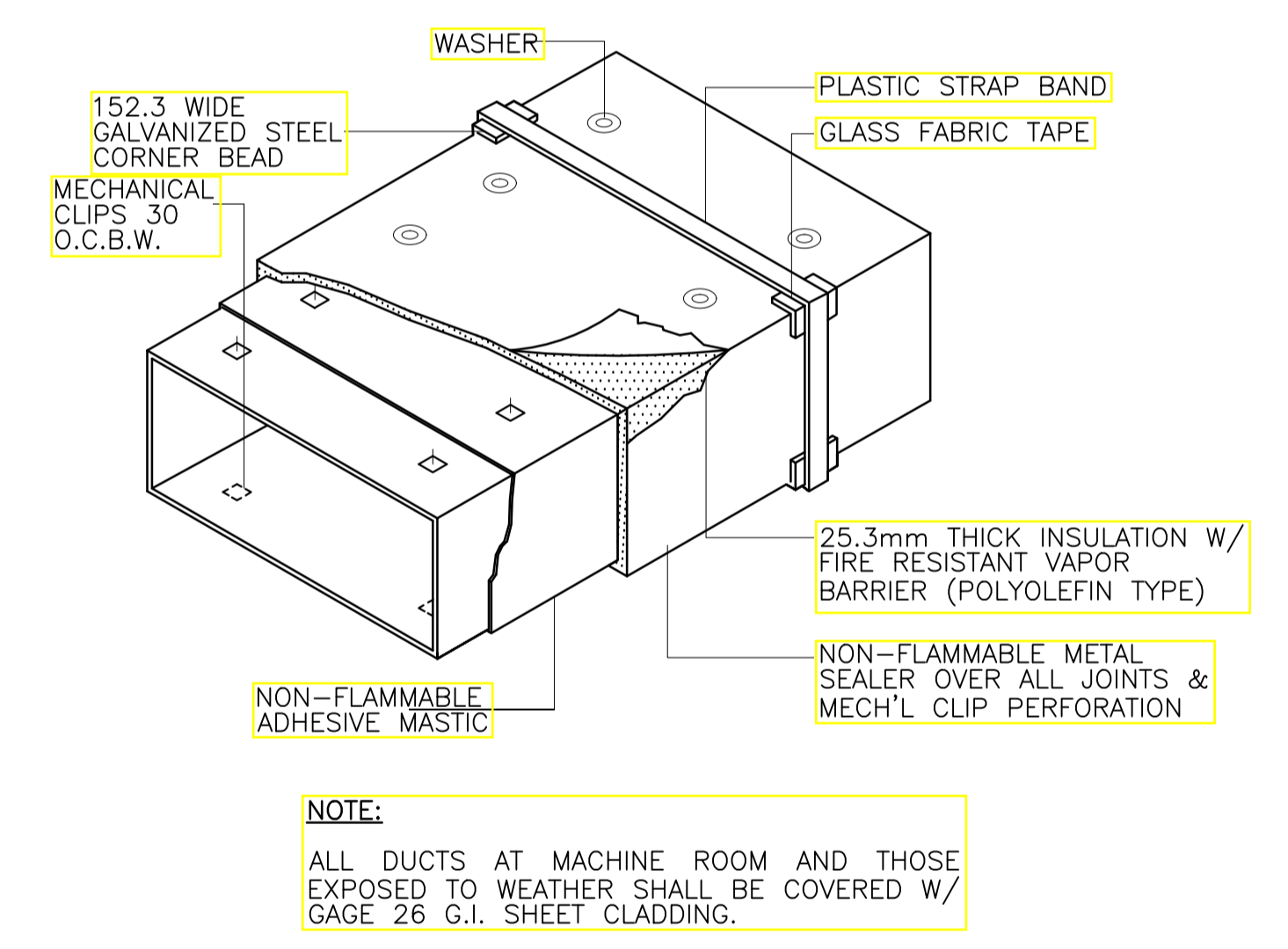
1 DUCT CONSTRUCTION DETAIL  
M-07 SCALE NTS



2 DUCT SUPPORT DETAIL  
M-07 SCALE NTS

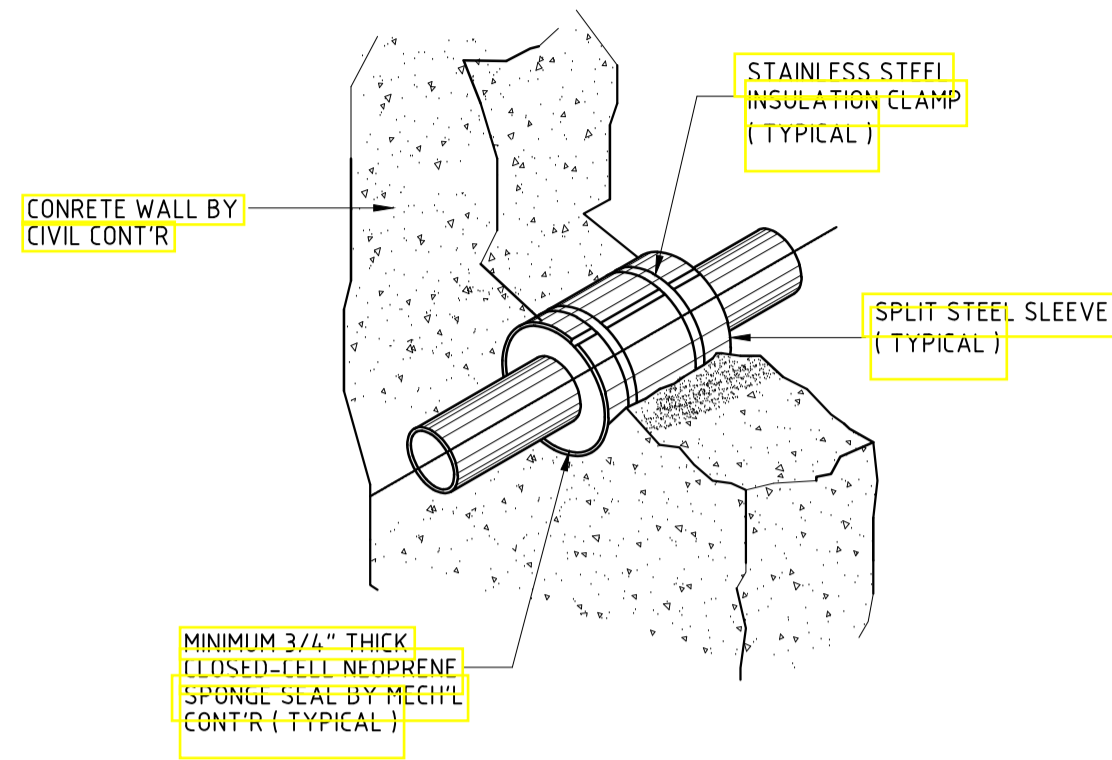


3 DUCT RISER SUPPORT DETAIL  
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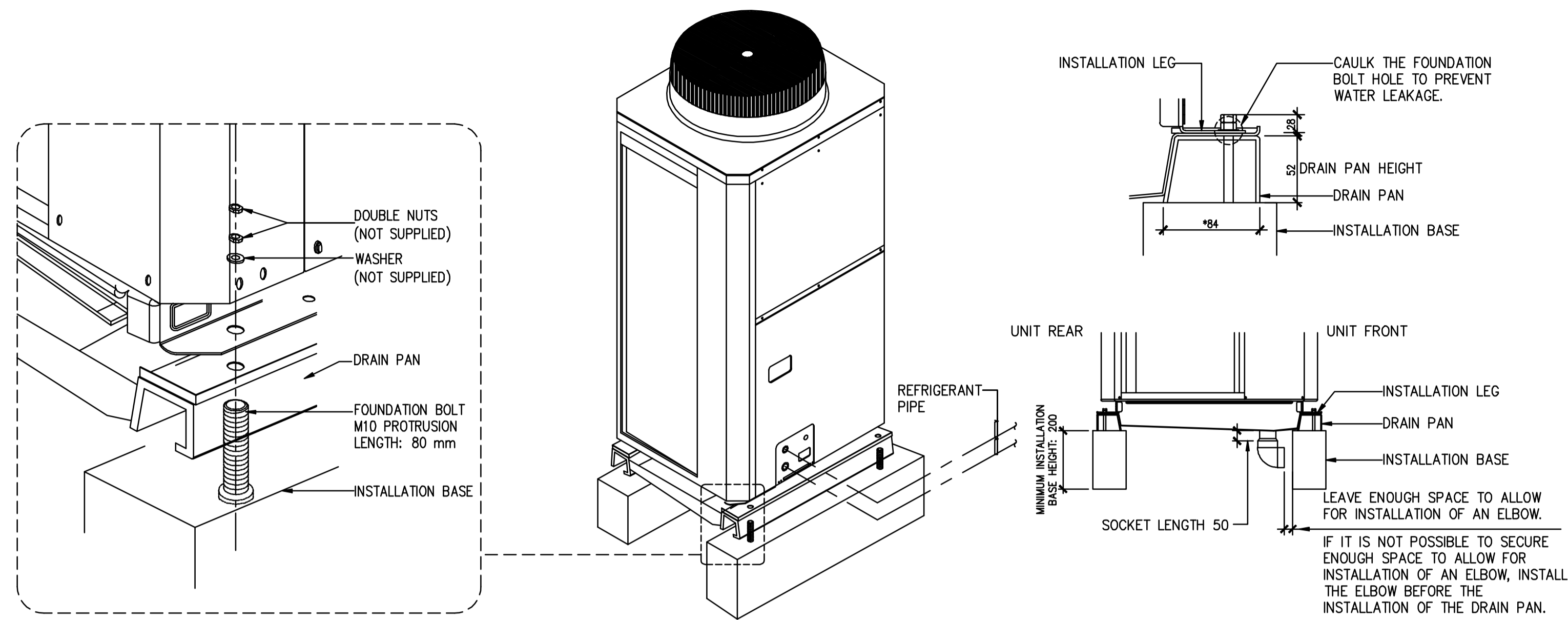


4 DUCT INSULATION DETAIL  
M-07 SCALE NTS

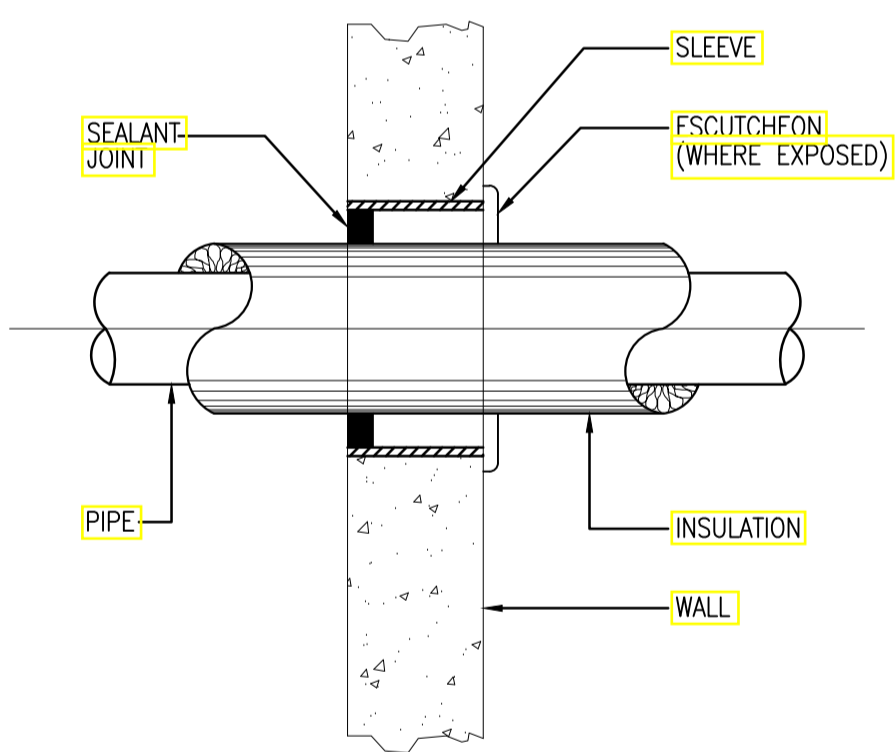
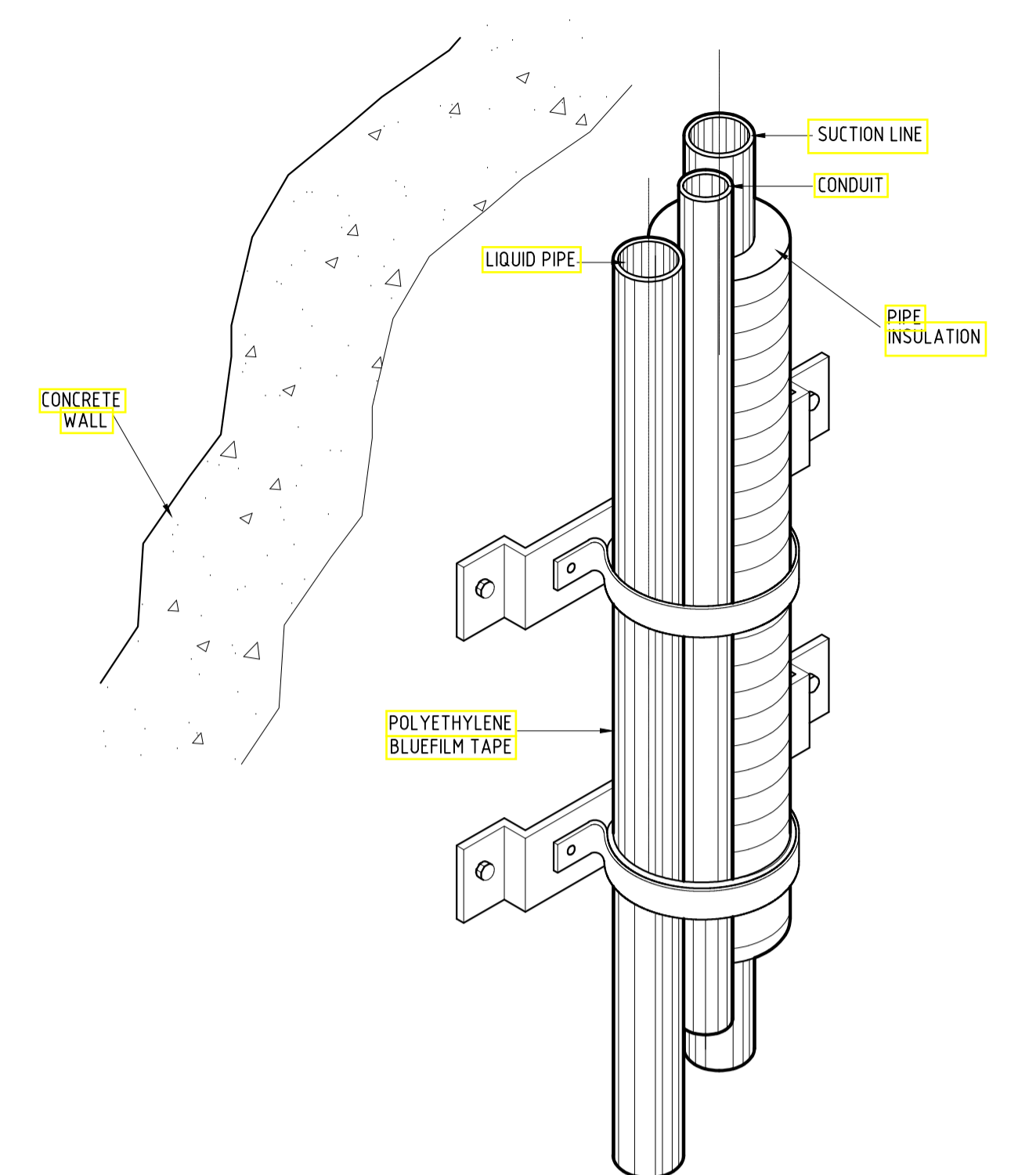
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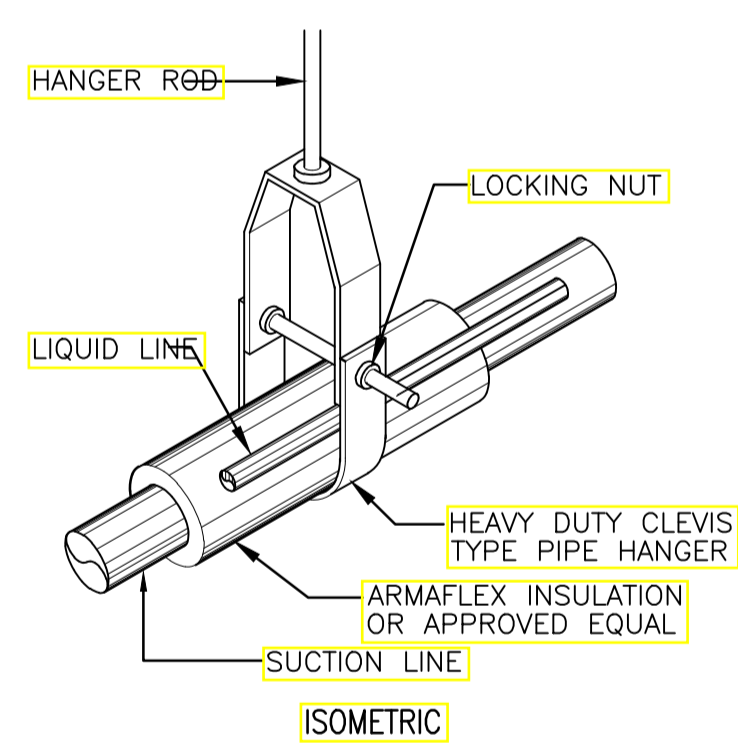
1 PIPE THRU WALL DETAIL  
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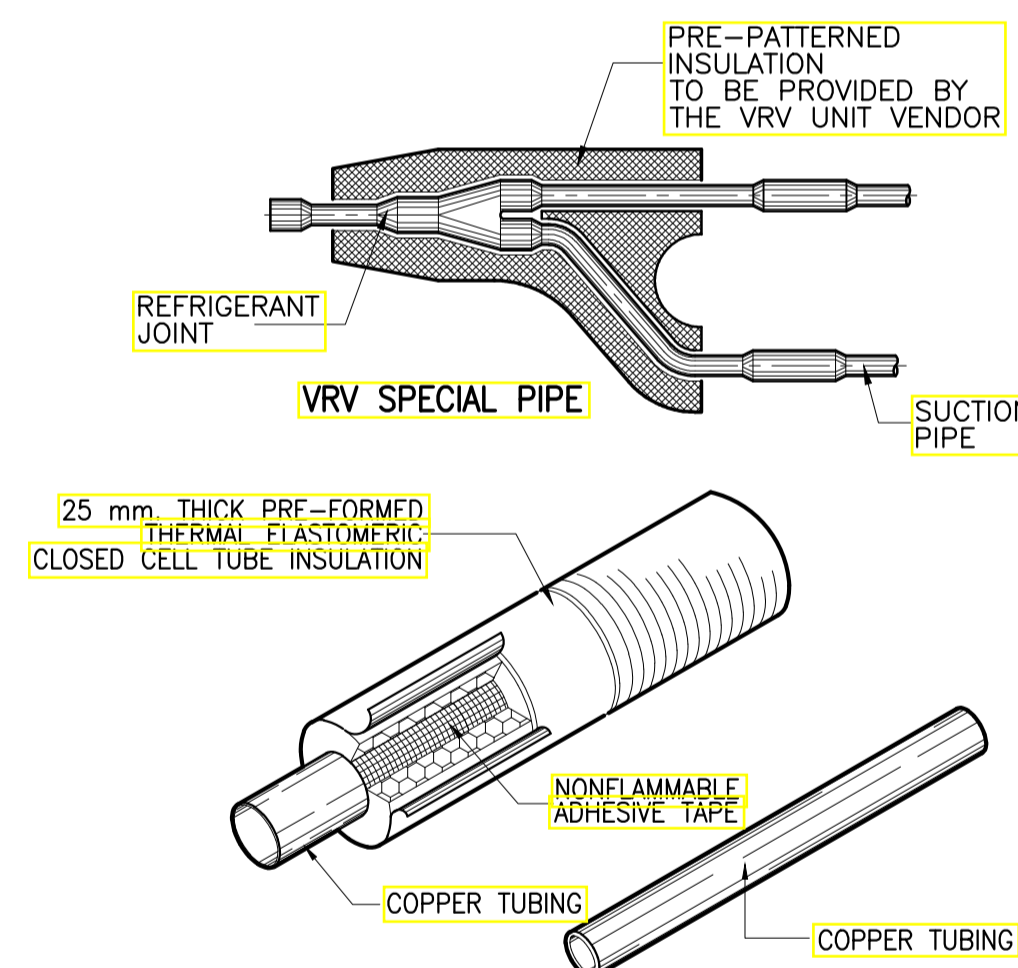
2 VRF OUTDOOR UNIT INSTALLATION DETAIL  
M-08 SCALE NTS



3 PIPE SLEEVES DETAIL  
M-08 SCALE NTS

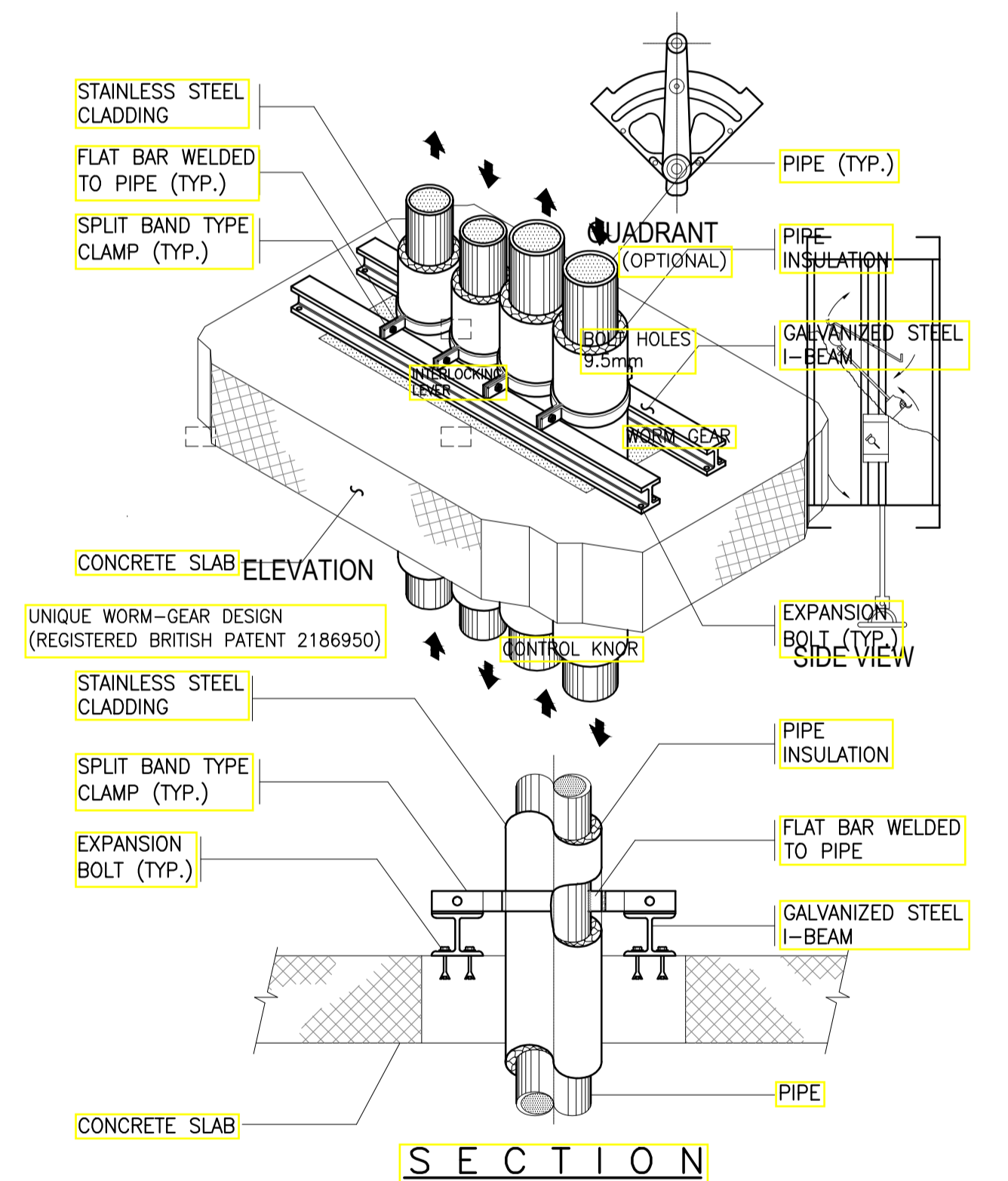


4 PIPE SUPPORT DETAIL  
M-08 SCALE NTS



- NOTE:
- CONDENSATE DRAIN PIPE INSULATION SHALL BE OF SIMILAR MATERIAL BUT 19 mm THICK.
  - PROVIDE ALUMINUM CLADDING FOR OUTDOOR REFRIGERANT PIPING.

5 REFRIGERANT PIPE INSULATION DETAIL  
M-08 SCALE NTS



6 PIPE RISER SUPPORT DETAIL  
M-08 SCALE NTS

**ENRIQUE O. OLONAN & ASSOCIATES**  
ARCHITECTS ENGINEERS CONSULTANTS

*IN JOINT VENTURE WITH*

**ENRIQUE O. OLONAN & ASSOCIATES, CO.**  
ARCHITECTS ENGINEERS CONSULTANTS

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426 7214

DESIGNER:

**MELITON A. NAGUE**  
PROFESSIONAL MECHANICAL ENGINEER

PRC No. 4908 Validity: 06/05/2024  
PTR No. 8535022 Date: 01/05/2021  
Place: MAKATI CITY TIN: 912-907-486

REPUBLIC ACT 9266

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PROJECT:

**PROPOSED  
ACADEMIC BUILDING II /  
MULTI-PURPOSE GYMNASIUM**

LOCATION: Brgy. Rizal, Odiangan, Romblon

DESIGNED FOR:

REPUBLIC OF THE PHILIPPINES  
PHILIPPINE SCIENCE HIGH SCHOOL -  
MIMAROPA REGIONAL CAMPUS

RECOMMENDING APPROVAL:

**MERIAM F. FALLAR**  
FAD CHIEF

APPROVED BY:

**EDWARD C. ALBARACIN**  
CAMPUS DIRECTOR

SHEET CONTENTS:

MISCELLANEOUS DETAILS  
SHEET 2 OF 2

SHEET NO:

**M**  
08 08

**GENERAL NOTES: FOR REFERENCE ONLY, ALL MECHANICAL WORKS ARE EXCLUDED IN PHASE 1**

**EQUIPMENT SCHEDULE**

VARIABLE REFRIGERANT FLOW (VRF) OUTDOOR UNIT											
MARK NO.	ACCUV COMBINED UNIT	LOCATION	TYPE	COOLING CAPACITY (HP)	COMPRESSOR DATA				REFRIGERANT TYPE	REMARKS	
					TYPE	INPUT POWER (KW)	EER				
ACCUV-R-01	4 NO. UNIT	ROOF DECK	INVERTER VARIABLE FLOW	24	HERMETICALLY SEALED-SCROLL TYPE	16.76		3,600	230/3/60	R410 OR EQUIVALENT	80 HP COMBINED SET UNIT SIMILAR LG MULTI V-5 VRF OR APPROVED EQUAL. W/ APPLIED OCEAN BLACK FIN
ACCUV-R-02		ROOF DECK	INVERTER VARIABLE FLOW	24	HERMETICALLY SEALED-SCROLL TYPE	16.76		3,600	230/3/60	R410 OR EQUIVALENT	
ACCUV-R-03		ROOF DECK	INVERTER VARIABLE FLOW	20	HERMETICALLY SEALED-SCROLL TYPE	12.31		3,600	230/3/60	R410 OR EQUIVALENT	
ACCUV-R-04		ROOF DECK	INVERTER VARIABLE FLOW	12	HERMETICALLY SEALED-SCROLL TYPE	7.91		3,600	230/3/60	R410 OR EQUIVALENT	

VARIABLE REFRIGERANT FLOW (VRF) INDOOR UNIT								
MARK NO.	QTY.	TYPE	AREA SERVED	COOLING CAPACITY (HP)	FAN DATA			REMARKS
					AIR FLOW (Lps)	MOTOR INPUT (WATTS)	V/PH/HZ	
ACUV-B1-01	1	4W-CEILING CASSETTE	B/1 GENDER & DEVELOPMENT	3.75	375	150	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-B1-02	1	4W-CEILING CASSETTE	B/1 FITNESS ROOM	3.75	375	150	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-B1-03	1	WALL MOUNTED	B/1 SLEEP ROOM FEMALE	1.0	100	30	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-B1-04	1	WALL MOUNTED	B/1 SLEEP ROOM MALE	1.0	100	30	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-B1-05	1	2W-CEILING CASSETTE	B/1 DISCUSSION ROOM	1.5	150	50	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-B1-06	3	4W-CEILING CASSETTE	B/1 FACULTY	2.5	250	80	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-1-01	1	2W-CEILING CASSETTE	G/F CID HEAD	2.0	200	50	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-1-02	1	1W-CEILING CASSETTE	G/F SLEEPING ROOM	0.8	80	30	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-1-03	1	WALL MOUNTED	G/F CID	2.0	200	50	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-1-04	1	2W-CEILING CASSETTE	G/F CONFERENCE ROOM	1.5	150	50	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-1-05	1	2W-CEILING CASSETTE	G/F SSD HEAD	2.0	200	50	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-1-06	1	4W-CEILING CASSETTE	G/F SD HEAD	2.5	250	80	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-1-07	1	WALL MOUNTED	G/F SSD	2.0	200	50	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-1-08	1	1W-CEILING CASSETTE	G/F COUNSEL ROOM	0.8	80	30	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-1-09	1	WALL MOUNTED	G/F OSD	1.5	150	50	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-1-10	1	2W-CEILING CASSETTE	G/F REPRODUCTION ROOM	2.0	200	50	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-1-11	1	1W-CEILING CASSETTE	G/F RECORDS ROOM	0.8	80	30	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-1-12	2	4W-CEILING CASSETTE	G/F FACULTY ROOM	4.4	440	150	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-1-13	3	4W-CEILING CASSETTE	G/F LIBRARY	3.75	375	150	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-2-01	2	4W-CEILING CASSETTE	2/F FACULTY ROOM	4.4	440	150	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-3-01	2	4W-CEILING CASSETTE	3/F TECH INNO	2.9	290	150	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL
ACUV-3-02	2	4W-CEILING CASSETTE	3/F DES ENG'G	3.2	320	150	230/1/60	UNIT SIMILAR TO LG MULTI-V PRO VRF OR APPROVED EQUAL

**LEGEND & SYMBOLS**

SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	KITCHEN EXHAUST DUCT		WALL MOUNTED ACU
	FLEXIBLE DUCT		CEILING SUSPENDED ACU
	4-WAY DIFFUSER		4-WAY CEILING CASSETTE ACU
	BRANCH DUCT W/ VCD		1-WAY CEILING CASSETTE ACU
	SQUARE TO ROUND BRANCH DUCT		VRV OUTDOOR UNIT
	DUCT REDUCER		SPLIT-TYPE OUTDOOR UNIT
	DUCT W/ VOLUME CONTROL DAMPER		AIR HANDLING UNIT/FAHU
	FIRE DAMPER WITH ACCESS PANEL		AIR-COOLED CONDENSING UNIT
	DUCT WITH ACOUSTIC LINING		CENTRIFUGAL IN-LINE FAN (TUBULAR)
	STANDARD DUCT ELBOW		CENTRIFUGAL IN-LINE FAN (CABINET)
	SUPPLY DUCT DOWN		CEILING MOUNTED FAN
	RETURN DUCT DOWN		VENT CAP
	EQUIPMENT IDENTIFICATION		WALL MOUNTED FAN W/ RAIN HOOD
	LOCAL THERMOSTAT		VRV SPECIAL PIPE CONNECTOR
	VRV CENTRAL CONTROL		EXHAUST AIR GRILLE

**ABBREVIATIONS**

ACC	AIR CONDITIONING CENTRAL CONTROL	l/s / LPS	LITERS PER SECOND
ACCU	AIR-COOLED CONDENSING UNIT	NRD	NON-RETURN DAMPER
ACU	AIR CONDITIONING UNIT	NTS	NOT TO SCALE
ACCU-V	AIR-COOLED CONDENSING UNIT FOR VRF SYSTEM	OBD	OPPOSED BLADED DAMPER
ACU-V	AIR CONDITIONING UNIT FOR VRF SYSTEM	PA	PASCAL
AHU	AIR HANDLING UNIT	POC	POINT OF CONNECTION
CDP	CONDENSATE DRAIN PIPE	RA	RETURN AIR
EA	EXHAUST AIR	RAD	RETURN AIR DUCT
EAG	EXHAUST AIR GRILLE	RAG	RETURN AIR GRILLE
EAR	EXHAUST AIR REGISTER	SAG	SUPPLY AIR GRILLE
EAL	EXHAUST AIR LOUVER	SAD	SUPPLY AIR DUCT
ESP	EXTERNAL STATIC PRESSURE	SED	SMOKE EXHAUST DUCT
FAF	FRESH AIR FAN	SEF	SMOKE EXHAUST FAN
F/A	FROM ABOVE	SPF	STAIRWELL PRESSURIZATION FAN
F/B	FROM BELOW	SAF	SUPPLY AIR FAN
FD	FIRE DAMPER	TR	TERMINAL ELECTRIC RE-HEAT
FAD	FRESH AIR DUCT	T/A	TO ABOVE
FAHU	FRESH AIR HANDLING UNIT	T/B	TO BELOW
H/L	HIGH LEVEL	TED	TOILET EXHAUST DUCT
KED	KITCHEN EXHAUST DUCT	VCD	VOLUME CONTROL DAMPER
KEF	KITCHEN EXHAUST FAN	VRV	VARIABLE REFRIGERANT VOLUME
KW	KILOWATT		

**MECHANICAL NOTES:**

- ALL WORKS SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF THE PHILIPPINES.
- ALL WORKS SHALL BE IN ACCORDANCE WITH THE FIRE CODE OF THE PHILIPPINES.
- ALL WORKS SHALL BE IN ACCORDANCE WITH THE PHILIPPINE MECHANICAL ENGINEERING CODE 2012.
- REFER TO TECHNICAL SPECIFICATIONS FOR DETAILED MATERIALS AND EQUIPMENT SPECIFICATION.
- AIR CONDITIONED AREA SHALL BE MAINTAINED AT 24°C (+/-) 2°C AND 55% RH.
- COORDINATE WITH ARCHITECTURAL PLAN REGARDING THE EXACT LOCATION OF REGISTERS AND GRILLES.
- REGISTER OR GRILLE DIMENSIONS INDICATED REPRESENT NECJ SIZE.
- REGISTER SHALL MEAN GRILLES OR DIFFUSERS WITH OPPOSED BLADE VOLUME DAMPER.
- ALL DUCT DIMENSIONS INDICATED REFERS TO INSIDE DIMENSION.
- ALL DIMENSIONS ARE IN MILLIMETER.
- INSTALL ALL DUCT CLOSE TO BEAM. PROVIDE CLEARANCE BETWEEN DUCT AND CEILING, UNLESS OTHERWISE NOTED.
- DUCTWORK CONNECTED TO AIR HANDLING UNITS / FAN SHALL BE SIZED TO SUIT THE EQUIPMENT AND SHALL BE PROVIDED WITH FLEXIBLE CONNECTOR.
- ALL DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA LOW PRESSURE DUCTWORK MANUAL. DUCTWORK SHALL BE SEALED TO LESS THAN 1% LEAKAGE BY VOL. AT 125 MM S.P.W.G.
- ALL EQUIPMENT SHALL BE PROVIDED WITH VIBRATION ISOLATORS.
- ALL EQUIPMENT SHALL BE PAINTED WITH GALVANIZING PAINT MATERIAL FOR EXTRA PROTECTION AGAINST CORROSION.
- COIL OF ACU/ACCU SHALL BE BLUE FINNED COATED FOR EXTRA PROTECTION AGAINST CORROSION.
- STEEL SUPPORT OF THE EQUIPMENT SHALL BE APPLIED WITH GALVANIZING PAINT MATERIAL FOR EXTRA PROTECTION AGAINST CORROSION.
- ALL TOILET DOORS SHALL BE PROVIDED WITH LOUVERS.
- ALL DOORS OF THE AREAS WITH TRANSFER GRILLES SHALL BE PROVIDED WITH LOUVER.
- HEPA FILTER SHALL BE PROVIDED TO ALL DISCHARGE AIR DUCTWORK OF THE FRESH AIR FAN.
- WASHABLE PLEATED FILTER SHALL BE PROVIDED TO INTAKE AIR DUCTWORK OF THE FRESH AIR FAN.
- PIPE ALL EQUIPMENT DRAIN TO THE NEAREST FLOODE DRAIN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE EQUIPMENT FOUNDATIONS AND SUPPORTS.
- SHOP DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR TO BE SUBMITTED FOR CONSULTANTS/CLIENTS REPRESENTATIVE APPROVAL PRIOR TO IMPLEMENTATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE TESTING, BALANCING AND COMMISSIONING OF THE WHOLE AIR CONDITIONING AND VENTILATION SYSTEM. WRITTEN DATA OF THE RESULT SHALL BE SUBMITTED PRIOR TO TURN OVER.
- WORKMANSHIP: THE WORK THROUGHOUT SHALL BE EXECUTED IN THE BEST & MOST THROUGH MANNER KNOWN TO TRADE AND TO THE SATISFACTION OF THE ARCHITECTS, ENGINEERS AND CLIENTS.
- THE EQUIPMENT SCHEDULE SHALL BE READ IN CONJUNCTION WITH THE GENERAL MECHANICAL LAYOUT AND SCHEMATIC DIAGRAM. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF MECHANICAL CONSULTANT FOR VERIFICATION.
- THE CONTRACTOR SHALL FOLLOW THE PARAMETERS OF THE EQUIPMENT SCHEDULE WITH APPROVAL FROM MECHANICAL CONSULTANT PRIOR TO PURCHASE OF THE EQUIPMENT.

**NOTES ON**

**PIPING INSTALLATION:**

- REFRIGERANT PIPES SHALL BE INTERNALLY CLEANED BY SWABBING WITH CLEAN COTTON CLOTH TO REMOVE ALL DUST, BURRS, AND OTHER MISCELLANEOUS DIRT.
- WHILE SOLDERING JOINTS, A SWEEP OF INERT NITROGEN GAS SHOULD BE PASSED THROUGH PIPES TO PREVENT OXIDATION DEPOSITS INSIDE.
- FITTINGS:
  - USE STANDARD LONG RADIUS COPPER ELBOWS, REDUCERS, ETC. DO NOT USE FIELD-FORMED ELBOWS, REDUCERS, ETC.
  - JOINTS BETWEEN PIPES SHOULD BE THROUGH STANDARD COPPER COUPLING FORMED FITTING MADE BY SWAGING OR ENLARGING ONE PIPE END TO BE ABLE TO RECEIVE THE OTHER PIPE SECTION WOULD NOT BE ALLOWED.
  - JOINTS TO SCREWED ACCESSORIES SUCH AS EXPANSION VALVES, FILTER DRIER, ETC. SHALL BE MADE WITH STANDARD FLARED FITTINGS.
- THE COMPLETED PIPING INSTALLATION SHOULD BE LEAK TESTED BY SUBJECTING THE SAME ( BOTH LIQUID AND SUCTION LINE ) TO A PRESSURE OF 3100 Pa USING DRY NITROGEN GAS. THIS PRESSURE SHOULD BE LEFT FOR 24 HOURS AND IF THERE IS NO NOTICEABLE REDUCTION IN PRESSURE WITHIN THE PERIOD, THE NITROGEN CHARGE SHALL BE RELIEVED DOWN TO 140KPa. TO SERVE AS HOLDING CHARGE WHILE WAITING FOR THE EQUIPMENT CONNECTION. IF THERE IS NOTICEABLE REDUCTION IN THE TEST PRESSURE, LEAK SHOULD BE LOCATED AND REPAIRED.
- PROPERLY TESTED PIPING SHOULD BE SECURELY CAPPED AT BOTH ENDS AND WITH HOLDING CHARGE AS STATED IN ITEM 4 ABOVE WHILE WAITING FOR FINAL CONNECTION TO EQUIPMENT. INSULATE SUCTION PIPING ONLY AFTER PROPER LEAK TESTING.

**REFERENCE SYMBOL:**

SYMBOL:	DESCRIPTION:
	"W" - DENOTES UNIT MARK
	"X" - DENOTES FLOOR LEVEL
	"Y" - DENOTES UNIT NO.
	"Z" - DENOTES UNIT QUANTITY
	"X" AIR DIFFUSER NAME
	"Y" DENOTES DIFFUSER NO.

<p><b>ENRIQUE O. OLANON &amp; ASSOCIATES</b> ARCHITECTS ENGINEERS CONSULTANTS</p> <p><small>SUITE 305 XAVIERVILLE SQUARE CONDOMINIUM NO. 38 XAVIERVILLE AVENUE, LORON HEIGHTS, QUEZON CITY, 1108 TEL NOS: 426 7009; 426 3040-41 FAX NOS: 927 0608; 426 7214</small></p>	<p>DESIGNER:</p> <p><b>MELITON A. NAGUE</b> PROFESSIONAL MECHANICAL ENGINEER</p> <p>PRC No. 4908 Validity: 06/05/2024 PTR No. 8535022 Date: 01/05/2021 Place: MAKATI CITY TIN: 912-907-486</p>	<p>REPUBLIC ACT 9266</p> <p><small>DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS DULY SIGNED, STAMPED OR SEALED, AS INSTRUMENTS OF SERVICE, ARE THE INTELLECTUAL PROPERTY AND DOCUMENT OF THE ARCHITECT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTLY OR IN WHOLE, WITHOUT THE WRITTEN CONSENT OF ARCHITECT OR AUTHOR OF SAID DOCUMENT.</small></p>	<p>PROJECT:</p> <p><b>PROPOSED ACADEMIC BUILDING II / MULTI-PURPOSE GYMNASIUM</b></p> <p>LOCATION: Brgy. Rizal, Odiangan, Romblon</p>	<p>DESIGNED FOR:</p> <p>REPUBLIC OF THE PHILIPPINES PHILIPPINE SCIENCE HIGH SCHOOL - MIMAROPA REGIONAL CAMPUS</p>	<p>RECOMMENDING APPROVAL:</p> <p><b>MERIAM F. FALLAR</b> FAD CHIEF</p>	<p>APPROVED BY:</p> <p><b>EDWARD C. ALBARACIN</b> CAMPUS DIRECTOR</p>	<p>SHEET CONTENTS:</p> <p>EQUIPMENT SCHEDULE LEGEND &amp; SYMBOLS ABBREVIATIONS MECHANICAL NOTES</p>	<p>SHEET NO:</p> <p><b>M</b> 01 08</p>
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**FAN SCHEDULE**

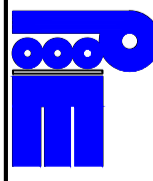

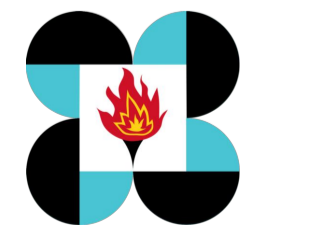
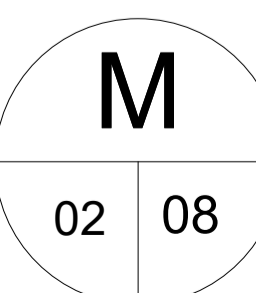
MARK NO	LOCATION	QTY.	SERVICE	TYPE	CAPACITY (LPS)	STATIC PRESSURE (PA)	MOTOR DATA				REMARKS
							MOTOR INPUT (WATTS)	RPM	V/PH/HZ	VSD DRIVEN	
TEF-B1-01	B/1 TOILET/SHOWER	4	TOILET EXHAUST	CEILING MOUNTED	35	40	45	3,600	230/1/60	NO	FAN UNIT SIMILAR TO KRUGER OR APPROVED EQUAL
TEF-1-01	G/F TOILET	10	TOILET EXHAUST	CEILING MOUNTED	35	40	45	3,600	230/1/60	NO	FAN UNIT SIMILAR TO KRUGER OR APPROVED EQUAL
TEF-2-01	2/F TOILET	7	TOILET EXHAUST	CEILING MOUNTED	35	40	45	3,600	230/1/60	NO	FAN UNIT SIMILAR TO KRUGER OR APPROVED EQUAL
TEF-3-01	3/F TOILET	5	TOILET EXHAUST	CEILING MOUNTED	35	40	45	3,600	230/1/60	NO	FAN UNIT SIMILAR TO KRUGER OR APPROVED EQUAL
FAF-R-01	ROOF DECK	1	FRESH AIR	SISW CENTRIFUGAL FAN	800	375	560	3,600	230/3/60	NO	FAN UNIT SIMILAR TO KRUGER OR APPROVED EQUAL

**STAIRWELL PRESSURIZATION FAN SCHEDULE**

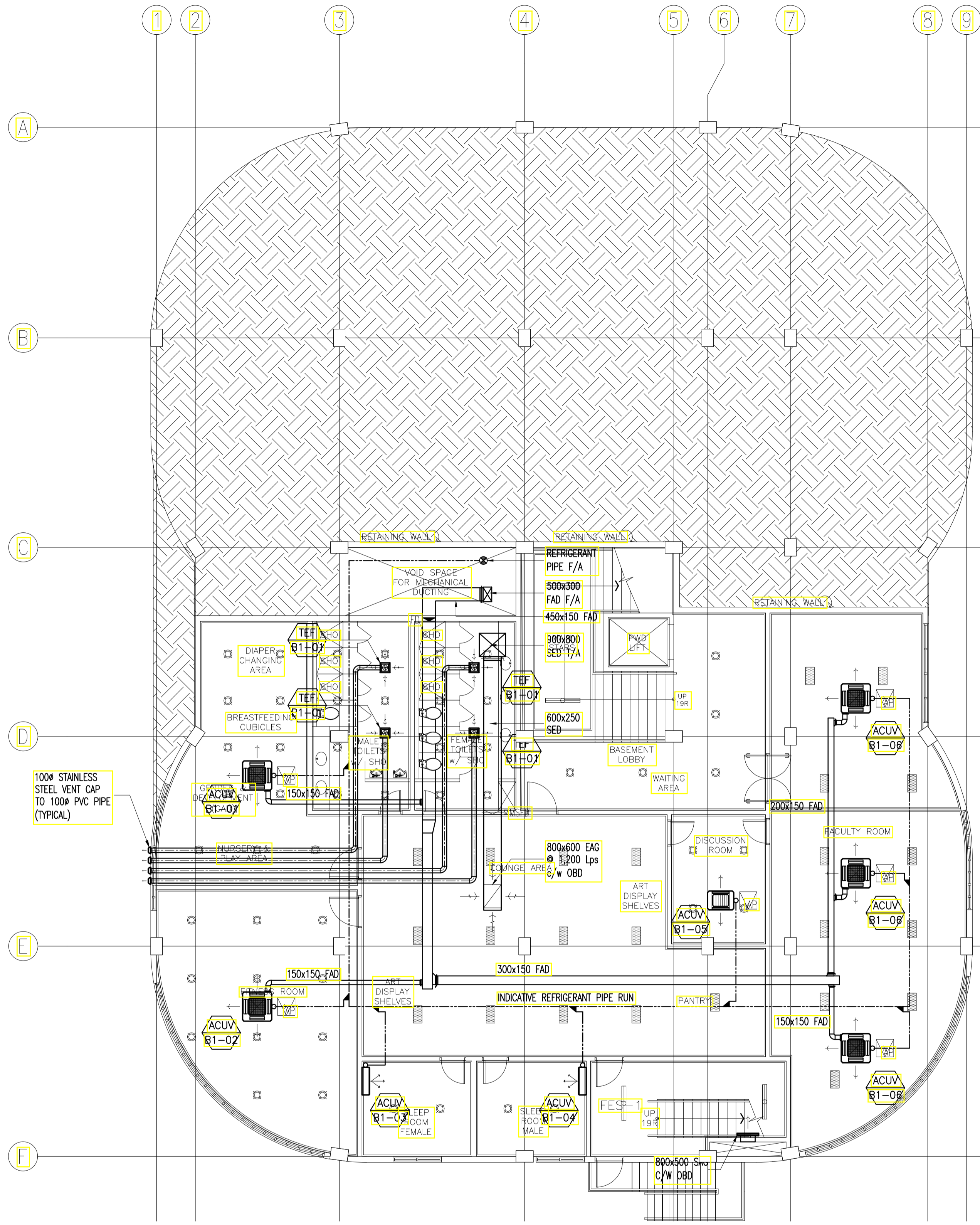
MARK NO	LOCATION	QTY.	SERVICE	TYPE	CAPACITY (LPS)	STATIC PRESSURE (PA)	MOTOR DATA				REMARKS
							MOTOR INPUT (WATTS)	RPM	V/PH/HZ	VSD DRIVEN	
SPF-R-01	ROOF DECK	2	STAIRWELL PRESSURIZATION	SISW CENTRIFUGAL FAN	3,000	375	2,200	3,600	230/3/60	YES	EQUIPPED WITH PRESSURE DIFF. PRESSURE TRANSMITTER AND VSD. SIMILAR TO KRUGER OR APPROVED EQUAL

**SMOKE EXHAUST FAN**

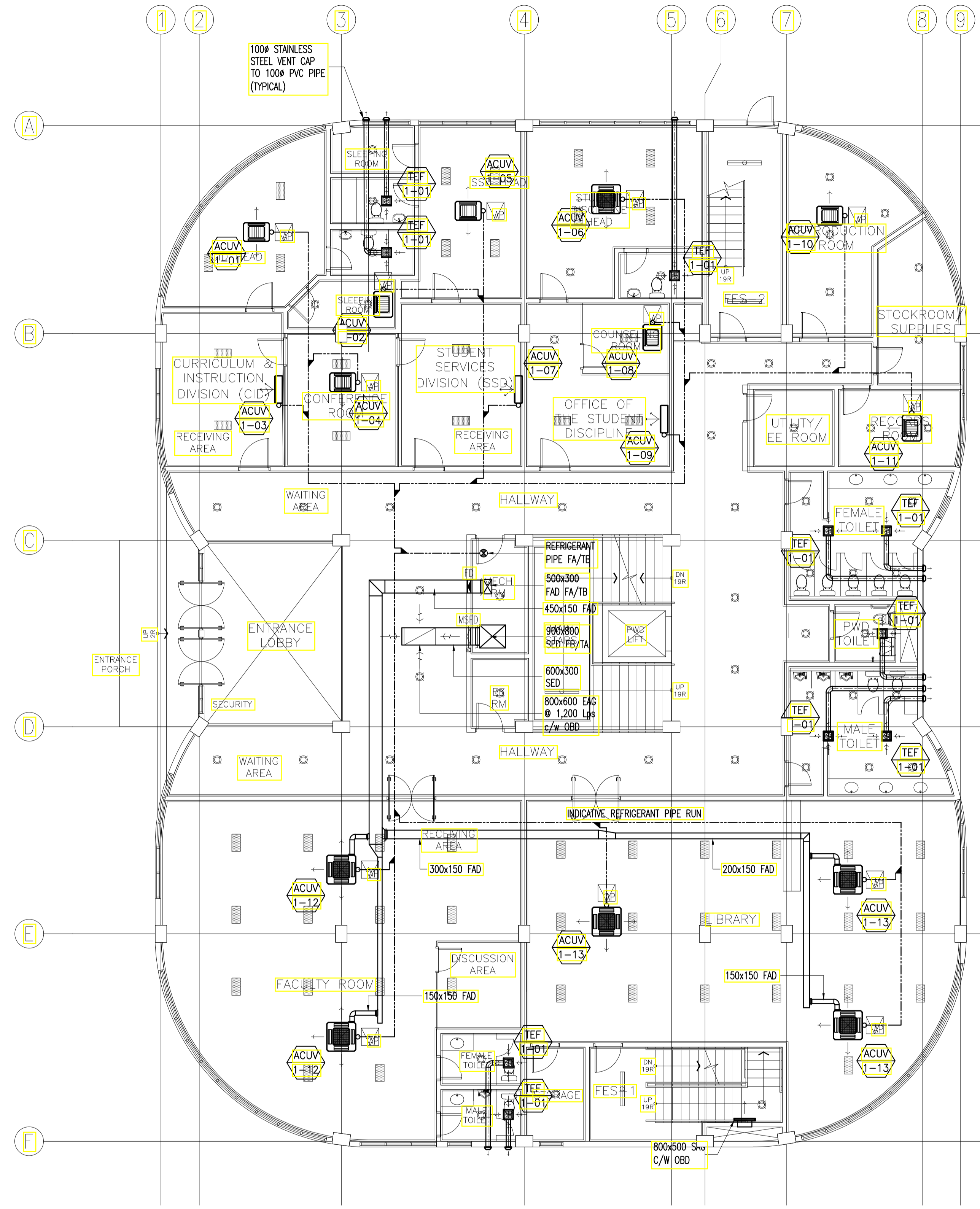
MARK NO	LOCATION	QTY.	SERVICE	TYPE	CAPACITY (LPS)	STATIC PRESSURE (PA)	MOTOR DATA				REMARKS
							MOTOR INPUT (WATTS)	RPM	V/PH/HZ	VSD DRIVEN	
SEF-R-01	ROOF DECK	1	STAIRWELL PRESSURIZATION	SISW CENTRIFUGAL FAN	5,000	500	3,000	3,600	230/3/60	YES	EQUIPPED WITH PRESSURE DIFF. PRESSURE TRANSMITTER AND VSD. SIMILAR TO KRUGER OR APPROVED EQUAL

 <b>ENRIQUE O. OLONAN &amp; ASSOCIATES</b> ARCHITECTS ENGINEERS CONSULTANTS SUITE 305 XAVIERVILLE SQUARE CONDOMINIUM NO. 38 XAVIERVILLE AVENUE, LORONCA HEIGHTS, QUEZON CITY, 1108 TEL NOS: 426 7009; 426 3000-04 FAX NOS: 927 0608; 426 7214 IN JOINT VENTURE WITH  <b>ENRIQUE O. OLONAN &amp; ASSOCIATES, CO.</b> ARCHITECTS ENGINEERS CONSULTANTS	DESIGNER: <b>MELITON A. NAGUE</b> PROFESSIONAL MECHANICAL ENGINEER PRC No. 4908 Validity: 06/05/2024 PTR No. 8535022 Date: 01/05/2021 Place: MAKATI CITY TIN: 912-907-486	REPUBLIC ACT 9266 DRAWINGS AND SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS DULY SIGNED, STAMPED OR SEALED, AS INSTRUMENTS OF SERVICE, ARE THE INTELLECTUAL PROPERTY AND DOCUMENT OF THE ARCHITECT. WHETHER THE OBJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT, IT SHALL BE UNLAWFUL FOR ANY PERSON TO DUPLICATE OR TO MAKE COPIES OF SAID DOCUMENTS FOR USE IN THE REPRODUCTION OF AND FOR OTHER PROJECTS OR BUILDINGS, WHETHER EXECUTED PARTY OR IN WHOLE, WITHOUT THE WRITTEN CONSENT OF ARCHITECT OR AUTHOR OF SAID DOCUMENT.	PROJECT: <b>PROPOSED ACADEMIC BUILDING II / MULTI-PURPOSE GYMNASIUM</b> LOCATION: Brgy. Rizal, Odiongan, Romblon	DESIGNED FOR:  REPUBLIC OF THE PHILIPPINES PHILIPPINE SCIENCE HIGH SCHOOL - MIMAROPA REGIONAL CAMPUS	RECOMMENDING APPROVAL: <b>MERIAM F. FALLAR</b> FAD CHIEF	APPROVED BY: <b>EDWARD C. ALBARACIN</b> CAMPUS DIRECTOR	SHEET CONTENTS: EQUIPMENT SCHEDULE	SHEET NO: 
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**BASEMENT FLOOR PLAN**  
**ACADEMIC BUILDING II**  
**A/C AND MECHANICAL VENTILATION LAYOUT**  
 1 M-03 SCALE 1:100



**GROUND FLOOR PLAN**  
**ACADEMIC BUILDING II**  
**A/C AND MECHANICAL VENTILATION LAYOUT**  
 2 M-03 SCALE 1:100

**ENRIQUE O. OLONAN & ASSOCIATES**  
 ARCHITECTS ENGINEERS CONSULTANTS  
 IN JOINT VENTURE WITH  
**ENRIQUE O. OLONAN & ASSOCIATES, CO.**  
 ARCHITECTS ENGINEERS CONSULTANTS

SUITE 305  
 XAVIERVILLE SQUARE  
 CONDOMINIUM  
 NO. 38 XAVIERVILLE  
 AVENUE, LORRA HIGHLANDS,  
 QUEZON CITY, 1108  
 TEL. NOS.: 426 7000;  
 426 3000-04  
 FAX NOS.: 927 0608;  
 426 7214

DESIGNER:  
**MELITON A. NAGUE**  
 PROFESSIONAL MECHANICAL ENGINEER  
 PRC No. 4908 Validity: 06/05/2024  
 PTR No. 8535022 Date: 01/05/2021  
 Place: MAKATI CITY TIN: 912-907-486

REPUBLIC ACT 9266  
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PROJECT:  
**PROPOSED**  
**ACADEMIC BUILDING II /**  
**MULTI-PURPOSE GYMNASIUM**  
 LOCATION: Brgy. Rizal, Odiangan, Romblon

DESIGNED FOR:  
  
 REPUBLIC OF THE PHILIPPINES  
 PHILIPPINE SCIENCE HIGH SCHOOL -  
 MIMAROPA REGIONAL CAMPUS

RECOMMENDING APPROVAL:  
**MERIAM F. FALLAR**  
 FAD CHIEF

APPROVED BY:  
**EDWARD C. ALBARACIN**  
 CAMPUS DIRECTOR

SHEET CONTENTS:  
 BASEMENT FLOOR PLAN  
 GROUND FLOOR PLAN  
 A/C AND MECHANICAL VENTILATION LAYOUT

SHEET NO:  
**M**  
 03 08