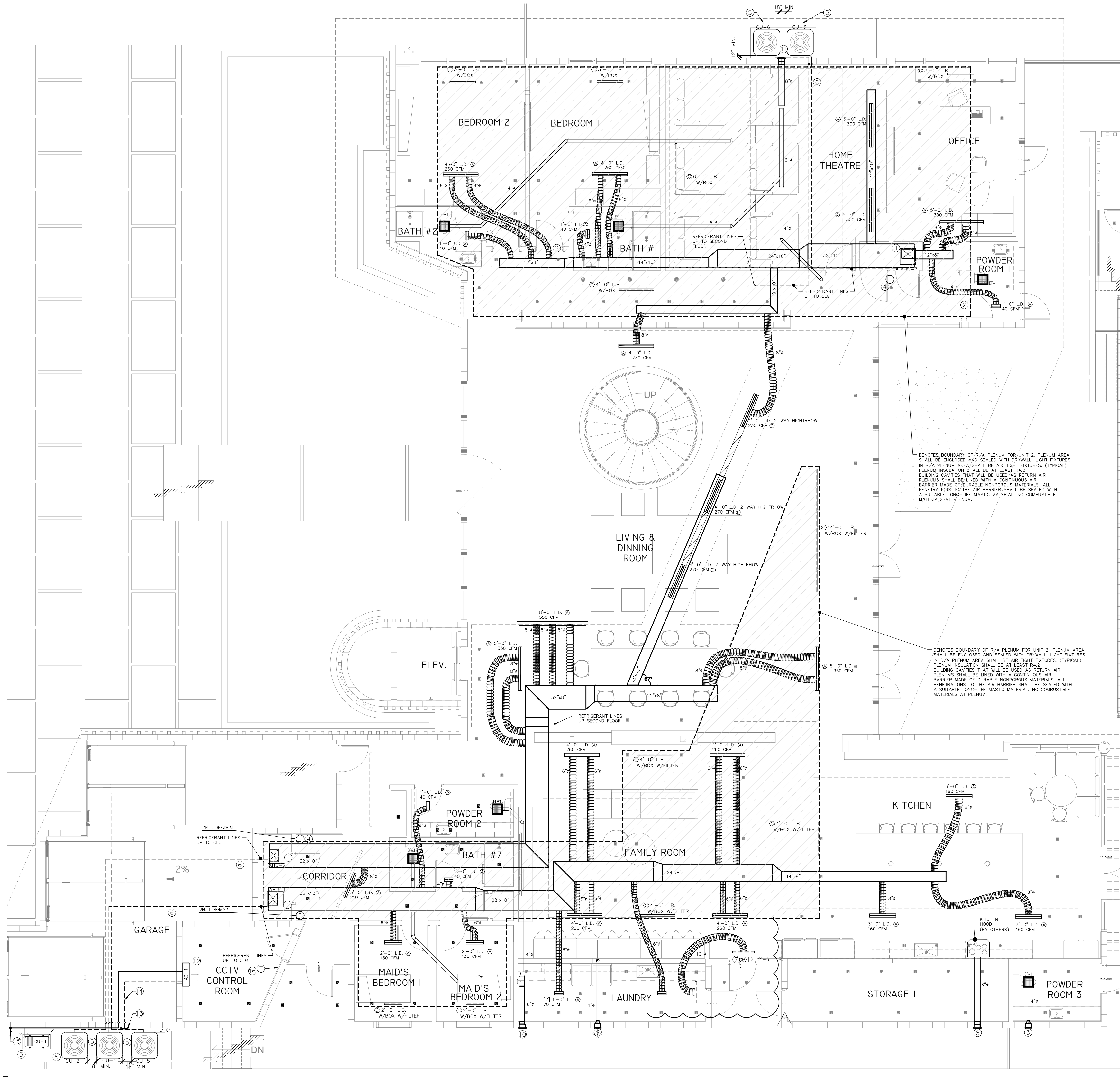




2 GYM MECHANICAL FLOOR PLAN
3/16" = 1'-0"

KEY NOTES — HVAC:

- FULL SIZE DISCHARGE PLENUM.
- ALL INTERIOR DOORS MUST HAVE 1" UNDERCUT (TYP.)
- 4"Ø TOILET EXHAUST DUCT THRU WALL, PROVIDE CORROSIVE RESISTANT INSECT SCREEN.
- CONTRACTOR TO PROVIDE NEW 7-DAY PROGRAMMABLE THERMOSTAT MOUNTED AT 48" A.F.F. FOR AHU. CONTRACTOR TO VERIFY EXACT LOCATION WITH ARCHITECT/OWNER.
- CONDENSING UNIT'S ON 4" MIN CONC. PAD ABOVE MINIMUM FLOOD ELEVATION. REFER TO CONDENSING UNIT MOUNTING DETAIL ON SHEET M-102. BOTTOM OF UNIT ABOVE MIN. FLOOD ELEVATION. CONTRACTOR TO FIELD VERIFY AND COORDINATE FINAL LOCATION WITH OWNER. CONDENSING UNIT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND REQUIREMENTS OF FLORIDA BUILDING CODE AS PER FBC-R M1401.1 AND FBC 1620.
- RUN INSULATED REFRIGERANT PIPING THROUGH SLEEVE FROM INDOOR AIR HANDLING UNITS TO OUTDOOR CONDENSING UNITS. REFRIGERANT PIPING TO BE ROUTED WITHIN CEILING SPACE. RUN REFRIGERANT INSIDE PVC OR EQUAL CONDUIT. SUPPORT EVERY 8 FEET CENTER TO CENTER. PROVIDE REFRIGERANT LINE COVER AND SEAL WATERTIGHT. REFRIGERANT SUCTION LINE SHALL BE INSULATED WITH INSULATION HAVING A THERMAL RESISTIVITY OF AT LEAST R-4 AND AN EXTERNAL PERMEANCE NOT EXCEEDING 0.05 PERM WHEN TESTED IN ACCORDANCE WITH ASTM E96. FBC-R M1411.6. REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER-RESISTANT CAPS OR SHALL BE OTHERWISE SECURED TO PREVENT UNAUTHORIZED ACCESS. FBC-R M1411.8. (TYP)
- 100 SQIN. MIN. FREE AREA TRANSFER GRILLE FOR DRYER MAKEUP USE.
- 8"Ø KITCHEN HOOD EXHAUST DUCT TO ROOF CAP WITH BACKDRAFT DAMPER. HOOD EXHAUST FAN LESS THAN 400 CFM. PROVIDE CORROSIVE RESISTANT INSECT SCREEN.
- 4"Ø DRYER EXHAUST DUCT TO WALL CAP WITH BACKDRAFT DAMPER (NOT SCREEN). OPEN AREA OF NOT LESS THAN 12.5 SQUARE INCHES.
- 6"Ø TOILET EXHAUST DUCT THRU WALL CAP, PROVIDE CORROSIVE RESISTANT INSECT SCREEN.
- 8"Ø TOILET EXHAUST DUCT THRU WALL CAP, PROVIDE CORROSIVE RESISTANT INSECT SCREEN.
- WALL MOUNTED MINISPLIT UNIT AC-1
- REFRIGERANT PIPING UP TO CEILING SPACE IN GALVANIZED METAL ENCLOSURE.
- REFRIGERANT PIPE IN CEILING SPACE TO AC-1
- 3/4"Ø CONDENSATE DRAIN, 1-1/4"Ø UNDERGROUND TERMINATE 6" A.F.F. DISCHARGE SEPARATE 12" MIN. FROM BUILDING WALL. INSTALL OVERFLOW SWITCH TO MAIN DRAIN PAN IN THE INTERIOR UNIT.
- CONTRACTOR TO PROVIDE NEW 7-DAY PROGRAMMABLE THERMOSTAT MOUNTED AT 48" A.F.F. FOR AHU. CONTRACTOR TO VERIFY EXACT LOCATION WITH ARCHITECT/OWNER.

1 MECHANICAL GROUND FLOOR PLAN
3/16" = 1'-0"

Maria E Diaz
Digitally signed by Maria E Diaz
Date: 2025.12.09 13:53:44 -04'00'

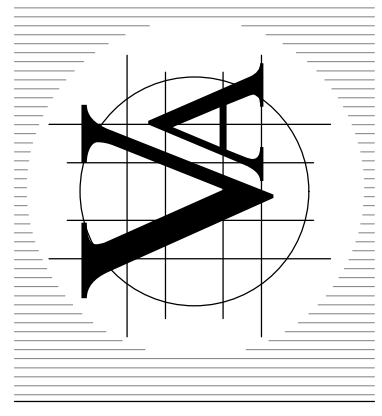


REVISIONS	
Rev	Description
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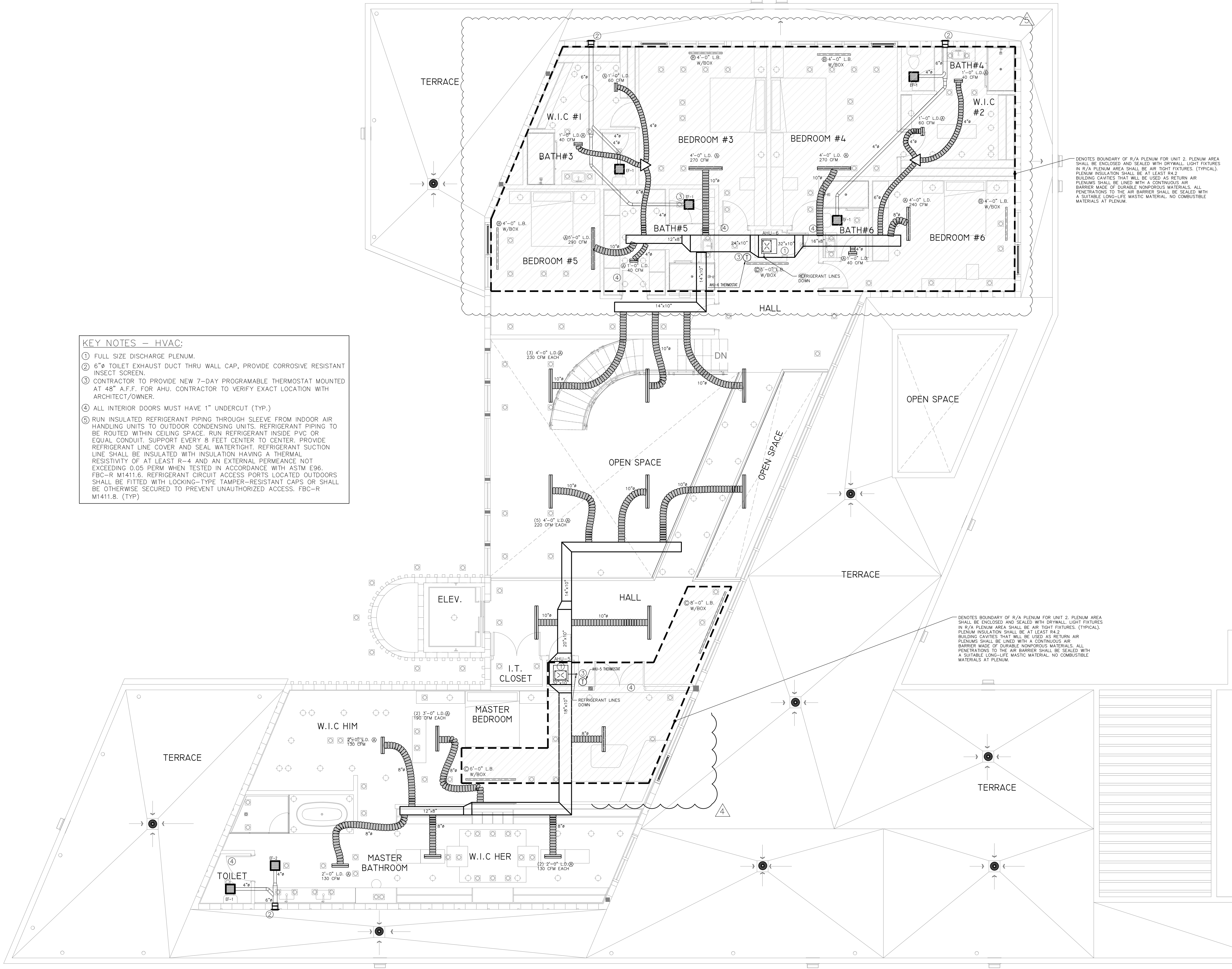
FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

Corporation Licence
#A40003589
Architectural Seal
JORGEL VILLAVENCIO
NC. AR0012110

VILLA & ASSOCIATES INC.
ARCHITECTURE PLANNING INTERIOR DESIGN
5801 SW 69 AVENUE MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail: jvillarchitect@gmail.com
CONSULTANT: ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail: maguilar@architekstudio.com



DATE: 10-20-2022	SCALE: AS SHOWN
PROJECT NO: Unnamed	
DRAWING NO: M-1.0	



- KEY NOTES – HVAC:**
- ① FULL SIZE DISCHARGE PLENUM.
 - ② 6"Ø TOILET EXHAUST DUCT THRU WALL CAP, PROVIDE CORROSIVE RESISTANT INSECT SCREEN.
 - ③ CONTRACTOR TO PROVIDE NEW 7-DAY PROGRAMABLE THERMOSTAT MOUNTED AT 48" A.F.F. FOR AHU. CONTRACTOR TO VERIFY EXACT LOCATION WITH ARCHITECT/OWNER.
 - ④ ALL INTERIOR DOORS MUST HAVE 1" UNDERCUT (TYP.)
 - ⑤ RUN INSULATED REFRIGERANT PIPING THROUGH SLEEVE FROM INDOOR AIR HANDLING UNITS TO OUTDOOR CONDENSING UNITS. REFRIGERANT PIPING TO BE ROUTED WITHIN CEILING SPACE. RUN REFRIGERANT INSIDE PVC OR EQUAL CONDUIT. SUPPORT EVERY 8 FEET CENTER TO CENTER. PROVIDE REFRIGERANT LINE COVER AND SEAL WATERTIGHT. REFRIGERANT SUCTION LINE SHALL BE INSULATED WITH INSULATION HAVING A THERMAL RESISTIVITY OF AT LEAST R-4 AND AN EXTERNAL PERMEANCE NOT EXCEEDING 0.05 PERM WHEN TESTED IN ACCORDANCE WITH ASTM E96. FBC-R M1411.6. REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER-RESISTANT CAPS OR SHALL BE OTHERWISE SECURED TO PREVENT UNAUTHORIZED ACCESS. FBC-R M1411.8. (TYP)

⑤ DENOTES BOUNDARY OF R/A PLENUM FOR UNIT 2. PLENUM AREA SHALL BE ENCLOSED AND SEALED WITH DRYWALL. LIGHT FIXTURES IN R/A PLENUM AREA SHALL BE AIR TIGHT FIXTURES. (TYPICAL). PLENUM INSULATION SHALL BE AT LEAST R4.2 BUILDING CAVITIES THAT WILL BE USED AS RETURN AIR PLENUMS SHALL BE LINED WITH A CONTINUOUS AIR BARRIER MADE OF DURABLE NONPOROUS MATERIALS. ALL PENETRATIONS TO THE AIR BARRIER SHALL BE SEALED WITH A SUITABLE LONG-LIFE MASTIC MATERIAL. NO COMBUSTIBLE MATERIALS AT PLENUM.

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Maria E Diaz
Digitally signed by Maria E Diaz
Date: 2025.12.09 13:54:44 -04'00'

MARIA DIAZ, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 62930. THIS FIRM HAS BEEN DIGITALLY SIGNED AND SEALED BY MARIA DIAZ. PE, ON THE DAY INDICATED HERE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

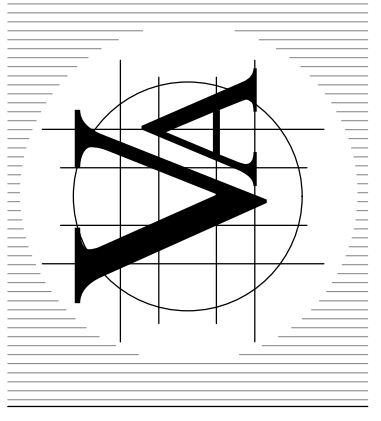


REVISIONS	
Rev	Description
1	05/28/24 OWNER COORD. 10/16/25

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DATE: 10-20-2022	SCALE: AS SHOWN
PROJECT NO: Unnamed	
DRAWING NO : M-1.1	

- HVAC NOTES**
- GENERAL

All mechanical systems are to be installed in accordance with all applicable sections of the NFPA Standards, ANSI standards, Florida Building Code 2020, the local building code, noise & height ordinances, plans and specifications.

A. DRAWINGS: Refer to all drawings for coordination of the HVAC work.

B. ARRANGE AND PAY for all permits licenses, inspections and tests. Obtain the required certificates and present to owner.

C. GUARANTEE: The completed installation shall be fully guaranteed against defective materials and/or improper workmanship for a minimum of one year for material and labor. Compressors shall be guaranteed for a period of five years.

D. As built drawings shall be submitted to owner at the completion of project.
 - SHOP DRAWINGS: Contractors shall submit for approval, within 30 days after signing contract, a minimum of five copies of fully descriptive literature, including but not limited to: fans, air conditioning units, air outlets. No work shall proceed without approval of these submittals.
 - DESIGN PARAMETERS:

A. Outdoor design temperature (Summer): 91°F DB and 79°F WB

B. Outdoor design temperature (Winter): 45°F

C. Indoor design temperature (Summer): 78°F DB

D. Indoor design temperature (Winter): 72°F DB
 - ALL THERMOSTATS SHALL have heating mode maximum setting of 75 F, and cooling mode minimum setting of 70 F. The thermostat shall be arranged to prevent the simultaneous operation of heating and cooling.
 - ELECTRICAL CONTROLS AND POWER WIRING: Under electrical contract.
 - EQUIPMENT SPECIFIED BY manufacturer's number shall include all accessories, controls, etc., listed in the catalog as standard with the equipment. Optional or additional accessories shall be furnished as specified.
 - MATERIALS:

A. REFRIGERANT PIPING: Shall be type L soft drawn, copper tubing, dehydrated for refrigerant use. Sized as shown on drawings or as per air conditioning equipment manufacturer's recommendations.

B. INSULATION: Refrigerant suction piping shall be insulated with 1/2" thick foamed plastic insulation, fire retardant type. Insulation shall be installed in piping before assembly. No split insulation will be acceptable. Seal joints with manufacturer's approved adhesive and grey tape. The piping and fittings for Refrigerant vapor (suction) lines shall be insulated with insulation having a thermal resistivity of at least R-4 and having external surface permeance not exceeding 0.05 perm when tested in accordance with ASTM E96 to comply with FBCR Section M141.5.

C. DUCTWORK:

a. All supply air ductwork shall be fiberglass ductboard, fabricated and installed as per latest edition of SMACNA "Fibrous Glass Duct Manual". 1-1/2" thick R-6.0 in uncond. space. 1" thick R-4.2 in cond. space.

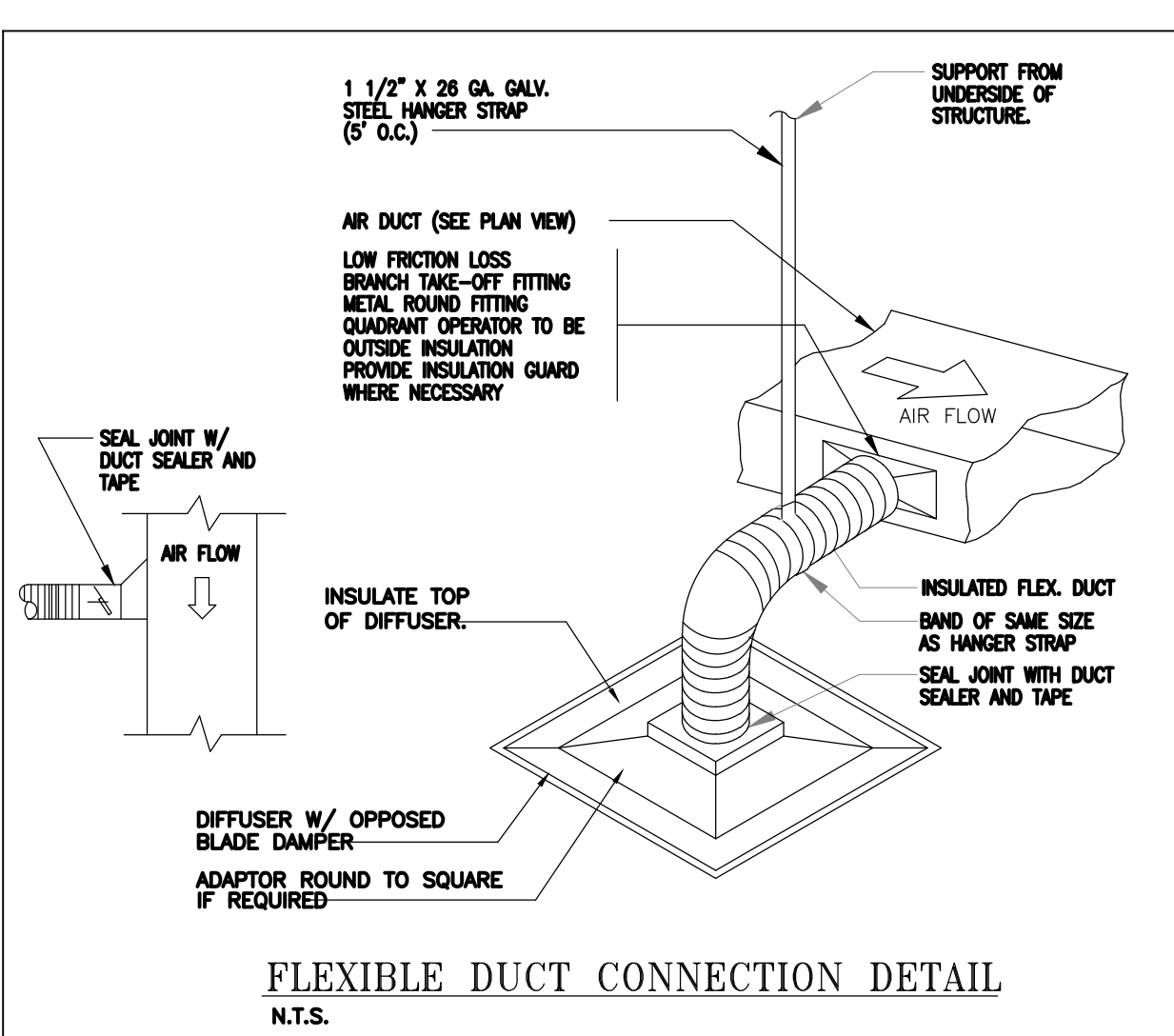
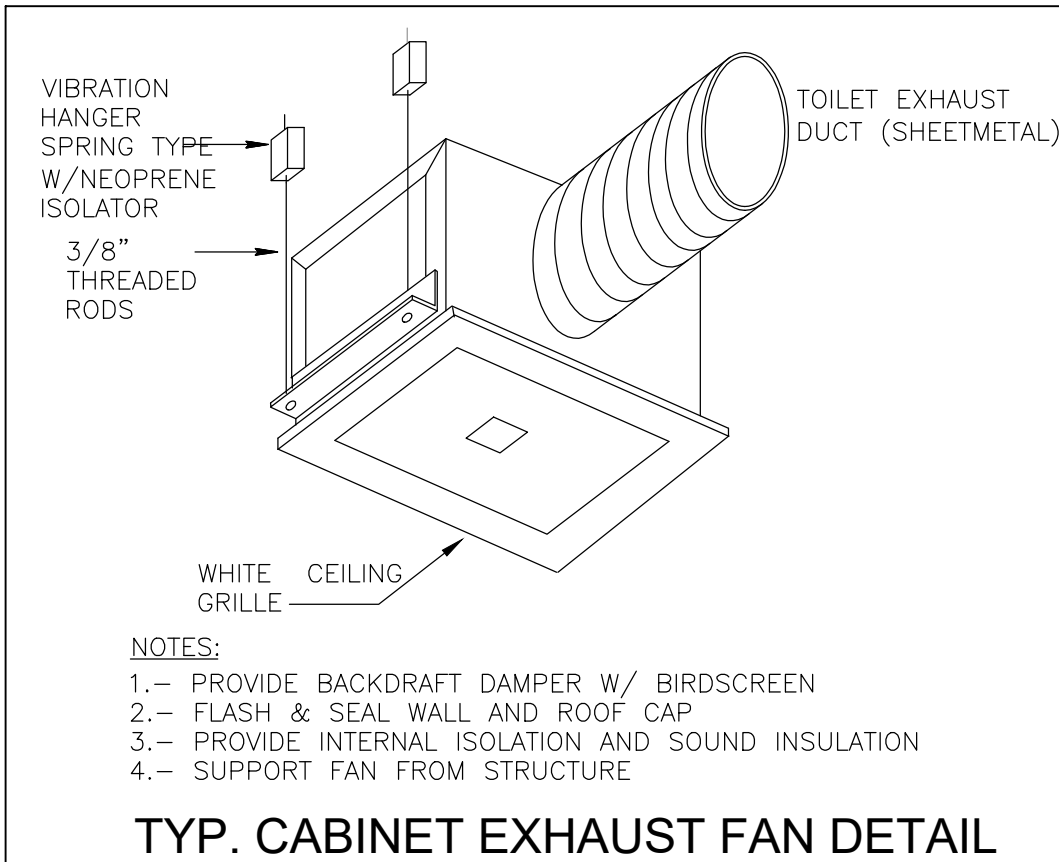
b. All exhaust ductwork shall be galvanized sheet metal duct not lighter than 26 gage.

c. All duct dimensions are clear inside dimensions.

d. Flexible insulated ductwork with 1 1/2" thick fiberglass insulation with FRK vapor barrier, class I air duct, U.L. R-6.0 MIN.

e. Dryer ductwork: 26 ga. min. galvanized steel, having a smooth interior surface with joints running in the direction of airflow and without sheet metal screws or other fasteners in the air stream. Maximum length shall not exceed 25 feet. wall caps shall be provided with backdraft damper. Dryer exhaust wall cap is not to be provided with a screen as required by the FBCR-1502.3

f. Intake openings shall comply with 2020 Florida Mechanical Code Section 401.4.1 and the exhaust outlets comply with the Section 501.2.1.
 - Provide metal round fittings at all flexible duct connection to supply duct.
 - TEST AND BALANCE: Contractor shall test and balance all ventilation and air conditioning systems. Submit four copies of Test and Balance Report to owner for approval.
 - CONTROLS: Air conditioning units shall be started and stopped thru individual thermostat. Individual thermostats shall start/stop supply fans and activate cooling/heating systems as selected.
 - Mechanical plans in general, are diagrammatic in nature, and are to be read in conjunction with arch. Plumbing, electrical and structural plans and shall be considered as one set of documents. Duct and piping offsets, bends and transitions will be required to provide and install a complete functional system and shall be provided by the contractor at no additional cost to the owner.
 - Contractor shall verify job conditions prior to ordering, fabrication or installation of materials or equipment. Notify architect/engineer of any conflicts before fabrication.
 - Provision must be taken to prevent HVAC duct surface contact with the Foam insulation, either during application of after the foam dried up to prevent a voided listing of the A/C ductworks (both flexible and fiberglass duct board).

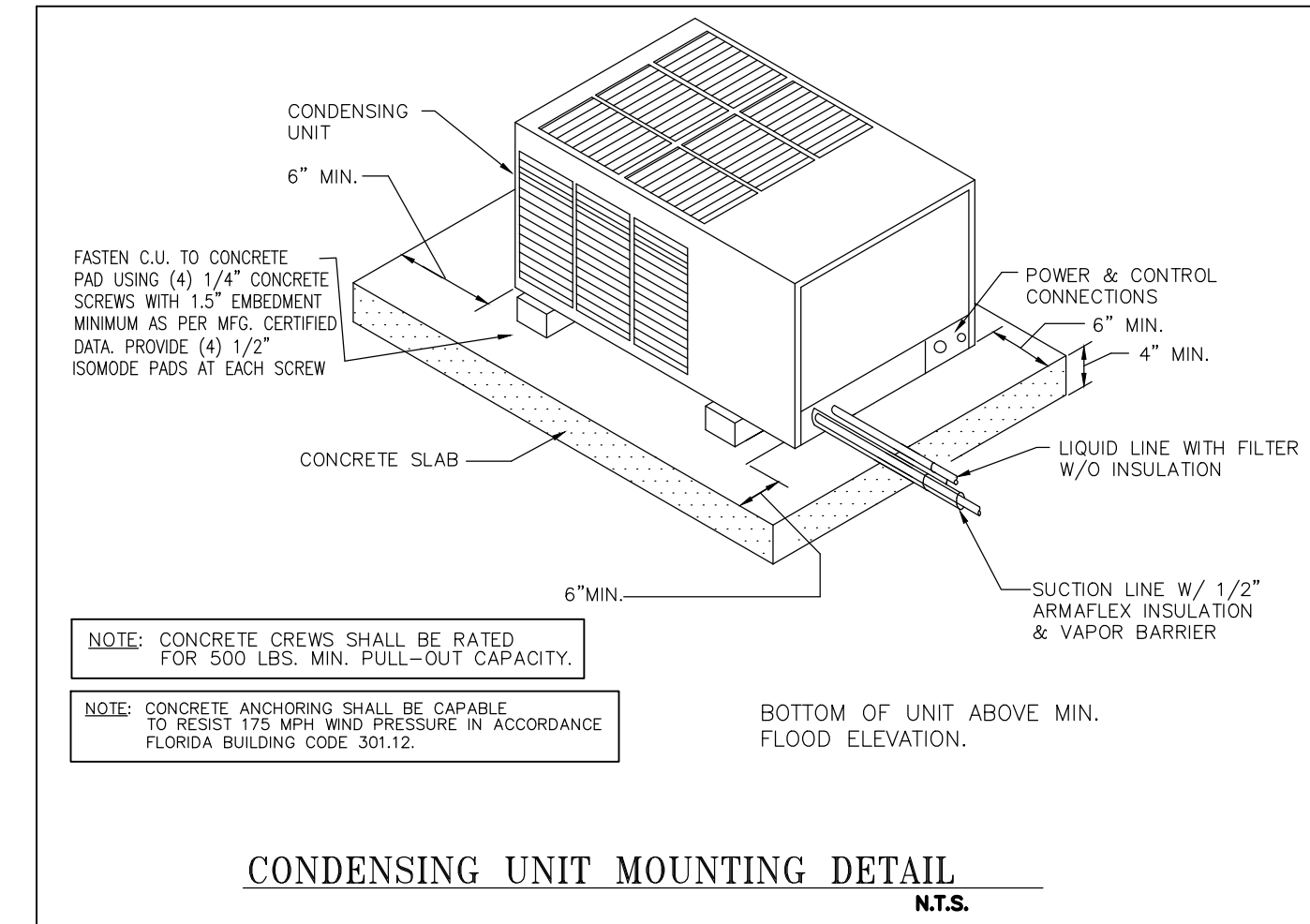
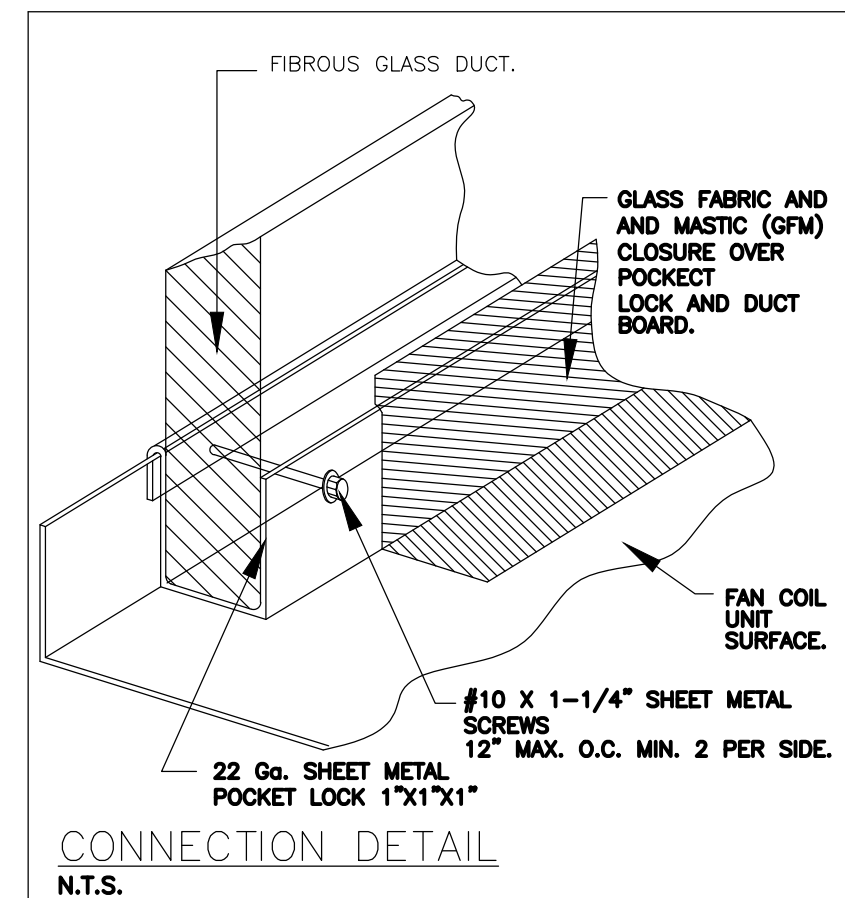


AIR DISTRIBUTION SCHEDULE				
SIMBOL	USE	TYPE	ACCESSORIES	DESIGN MANUFACTURER & MODEL No.
A	SUPPLY AIR	LINEAR DIFFUSER	O.B.D.	TITUS FL-15 (1 SLOT)
B	RETURN AIR	LINEAR BAR	---	TITUS CT-481 (4" WIDE)
C	RETURN AIR	LINEAR BAR	---	TITUS CT-481 (6" WIDE)
D	SUPPLY AIR	LINEAR DIFFUSER	O.B.D.	TITUS FL-15 (2 SLOT)

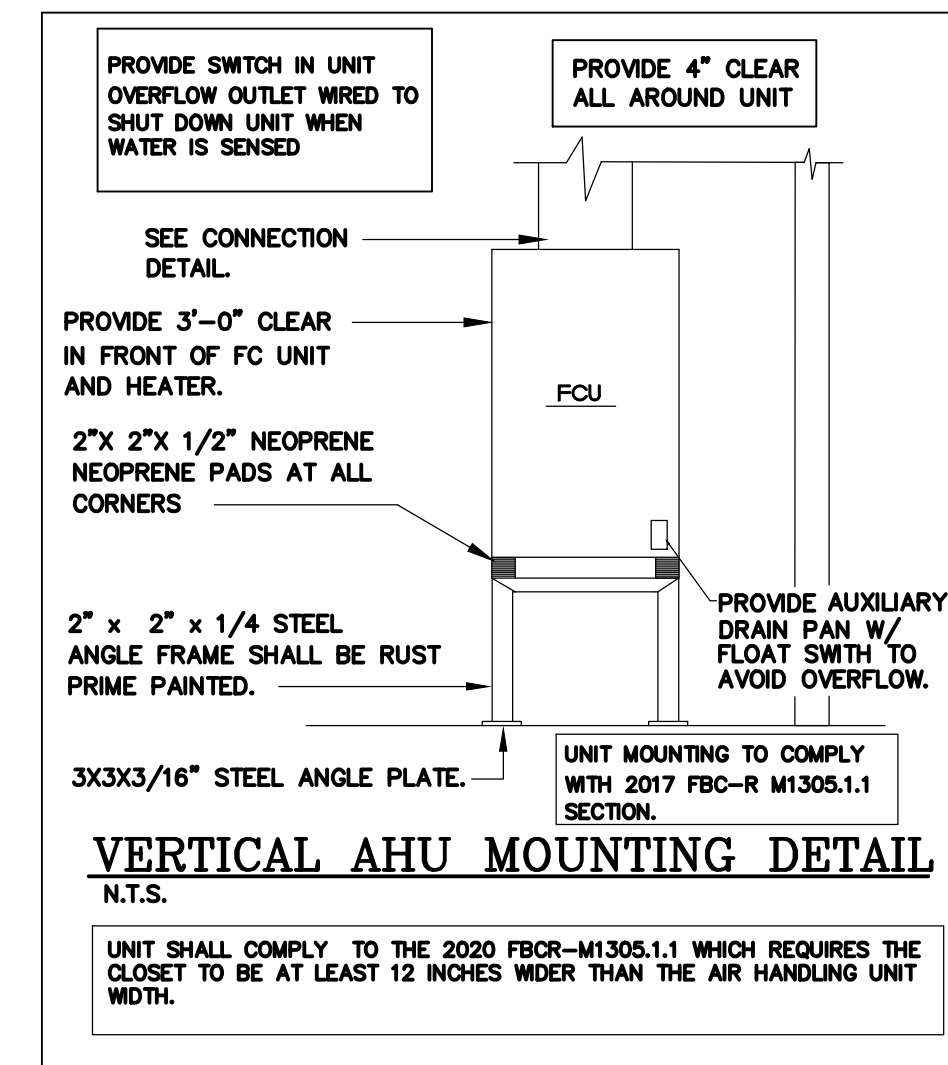
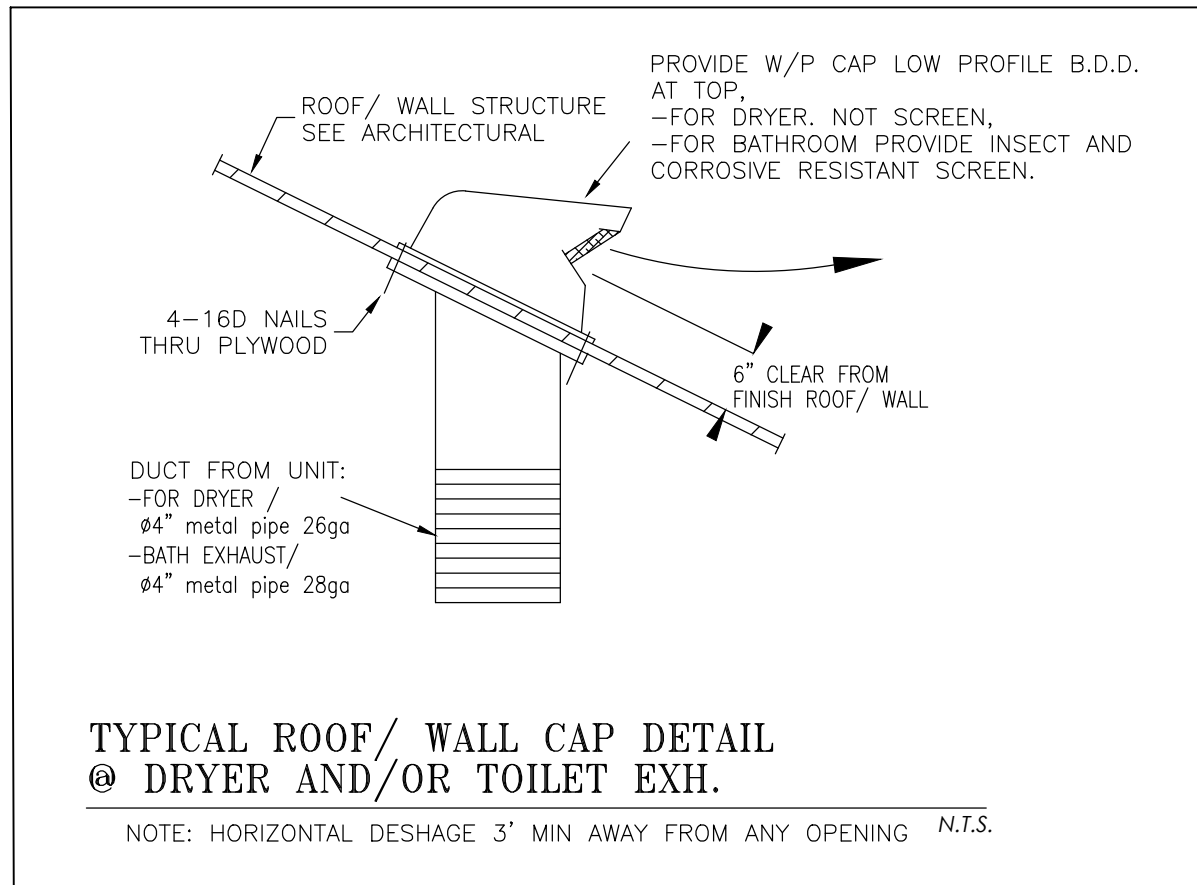
NOTES:

1. ALL AIR DISTRIBUTION DEVICES SHALL BE ALL ALUMINUM CONSTRUCTION.
2. COORDINATE COLOR FINISH WITH ARCHITECT. WHITE BAKED ENAMEL STANDARD.
3. UNLESS OTHERWISE SPECIFIED ALL LINEAR DIFFUSER ARE SINGLE SLOT WITH HIGHTHROW FLOW PATTERN.
4. PROVIDE REMOTE YOUNG CONTROL ON ALL GRILLES FOR AIR BALANCE.

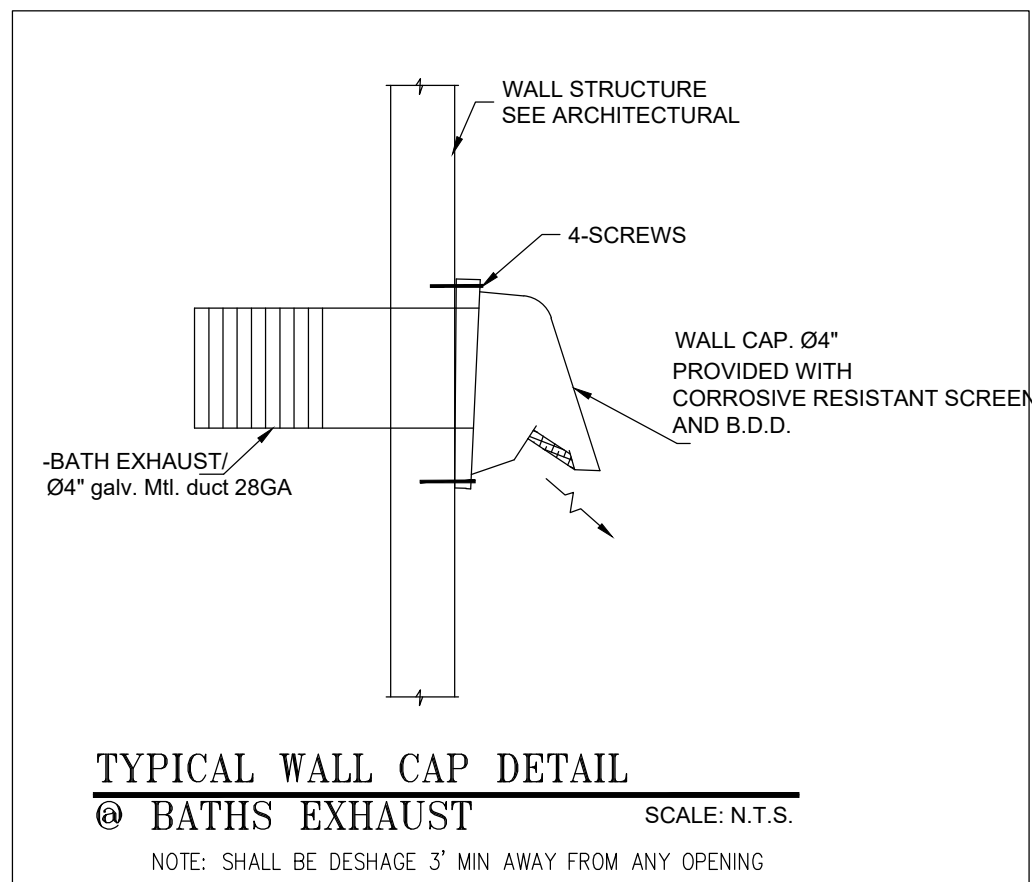
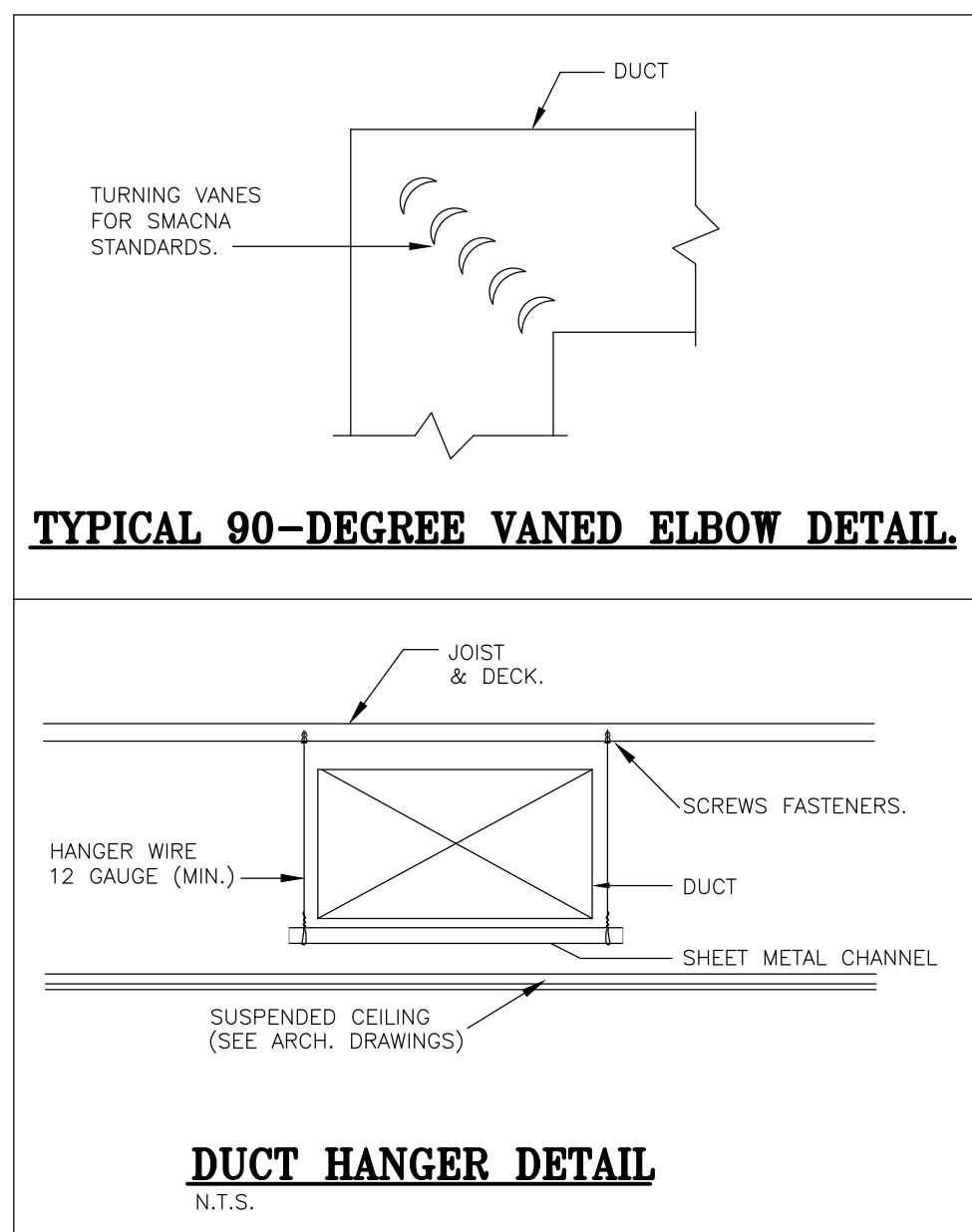
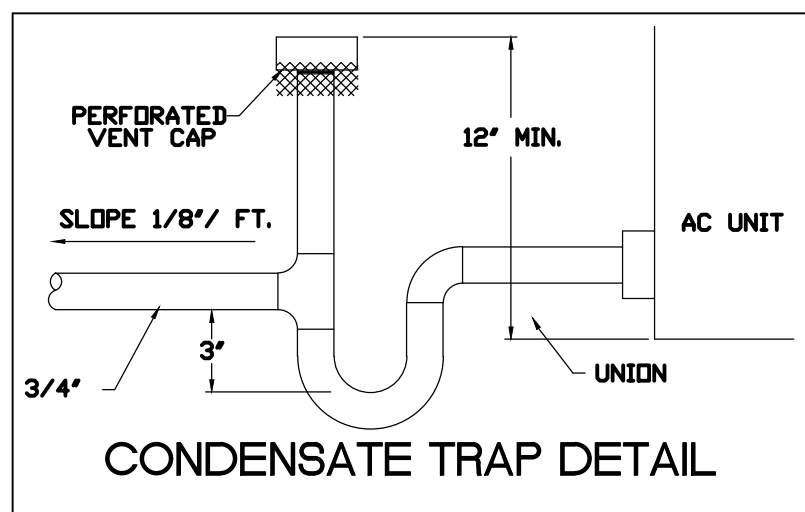
HVAC DESIGN REQUIRES:	YES	NO
DUCT SMOKE DETECTOR	---	X
FIRE DAMPER(S)	---	X
SMOKE DAMPER(S)	---	X
FIRE RATED ENCLOSURE	---	X
FIRE RATED ROOF/FLOOR CEILING ASSEMBLY	---	X
FIRE STOPPING	---	X
SMOKE CONTROL	---	X



FAN SCHEDULE		
UNIT DESIGNATION	EF-1	EF-2
AREA SERVED	BATHROOMS	BATHROOMS
MANUFACTURER	GREENHECK	GREENHECK
MODEL NO.	SP-B50	SP-B110
TYPE	CLG. CABINET	CLG. CABINET
TOTAL AIR, CFM	50	110
TOTAL STATIC PRESSURE, IN OF H2O	0.125"	0.125"
DRIVE TYPE	DIRECT	DIRECT
SPEED, RPM	625	950
FAN MOTOR H.P. (WATTS)	(15)	(80)
SONES / (NC)	1.4	2.2
ELECTRICAL SERVICE	115/1/60	115/1/60
OPERATING WEIGHT, LBS.	9	10
DIMENSIONS WXLXH (IN)	14 X 12 X 7	14 X 12 X 7
OPENING, WXH (IN)	---	---
REMARKS / ACCESORIES	(1), (2)	(1), (2)
NOTES:		
1. INTERLOCK WITH LIGHT SWITCH		
2. BACKDRAFT DAMPER		



CALCULATIONS ARE BASED ON:	
WINDOWS	U FACTOR: 0.66 / SHGC: 0.32
CEILING	R-30
CMU EXT WALL	R-5



SPLIT AC UNIT SCHEDULE		
UNIT DESIGNATION	AHU-1,2,3,5,6	AHU-4
AREA SERVED	---	---
LOCATION	A/C CLOSET	A/C CLOSET
OPERATING WEIGHT, LBS	207	207
DESIGN MANUFACTURER	CARRIER	CARRIER
MODEL NUMBER	FE4ANB006	FE4ANB006
SEER / SEER 2	20/20	17.5/17.5
FAN SECTION	TOTAL AIR, CFM	2000
	VENT AIR, CFM	1,200
	EXTERNAL STATIC PRESSURE, IN OF WATER	0.5
	FAN MOTOR HP. (NON-OVERLOAD)	3/4-6.8 FLA
	ELECTRICAL SERVICE AVAILABLE	230/1/60
CLG. COIL	MIN. CIRC. AMP	53.8
	MAX. CIRC. PROT.	60
	FACE VELOCITY - FPM	---
	DESIGN AIR ACROSS COIL, CFM	2000
	GRAN TOTAL CAPACITY, BTU/HR	57000
AIR COOLED CONDENSING UNIT	TOTAL SENSIBLE CAPACITY, BTU/HR	48450
	ENTERING AIR TEMP., F°DB/WB	80/67
	COIL MODEL NO.	---
FILTER	TYPE & THICKNESS	CLEANABLE 1"
	QUANTITY AND SIZE	1-21.5 X 23.3
HEATER	FACE VELOCITY FPM. MAX.	1-21.5 X 23.3
	HEAT COIL TYPE	ELECT.
AIR COOLED CONDENSING UNIT	ELECTRICAL SERVICE AVAILABLE	230/1/60
	AUXILIARY ELECTRIC HEAT, KW	10
AIR COOLED CONDENSING UNIT	STAGES & KW PER STAGE	1/10
	UNIT DESIGNATION	SAME AS AHU
AIR COOLED CONDENSING UNIT	TYPE OF FAN	PROP.
	NO. OF FANS AND AMPS	1/1.4
AIR COOLED CONDENSING UNIT	AMBIENT AIR TEMP. F° DB	95
	CONDENSING TEMP. F° DB	---
AIR COOLED CONDENSING UNIT	NO. OF COMPRESSORS/ TYPE	1/SCROLL
	COMPRESSORS F.L.A./L.R.A. EACH	25.4/42
AIR COOLED CONDENSING UNIT	CAPACITY REDUCTION.	VARIABLE
	MIN. CIRC. AMP	35
AIR COOLED CONDENSING UNIT	MAX. CIRC. PROT.	50
	ELECTRICAL SERVICE AVAILABLE	230/1/60
AIR COOLED CONDENSING UNIT	OPERATING WEIGHT, LBS	241
	DESIGN MANUFACTURER	CARRIER
AIR COOLED CONDENSING UNIT	MODEL NUMBER	24VNA660A
	REFRIGERANT PIPE SIZE, SUCTION/LIQUID	1-1/8" - 3/8"

NOTES:

1. ALL THERMOSTATS SHALL BE CARRIER MANUFACTURER PROGRAMMABLE TYPE WITH HUMIDITY CONTROL.
2. ALL FAN COIL UNITS SHALL BE PROVIDED WITH FACTORY INSTALLED CIRCUIT BREAKER.
3. PROVIDE SEACOAST PROTECTION ON COIL AND CASE.
4. REFER TO MANUFACTURER SPECS FOR REFRIGERANT LINES REQUIRED SIZE AND ACCESSORIES.

CARRIER SALES ENGINEER REPRESENTATIVE: GILBERTO CATANO PH:1-954-599-1100
EMAIL: gilberto.catano@carrierenterprise.com

Maria E Diaz

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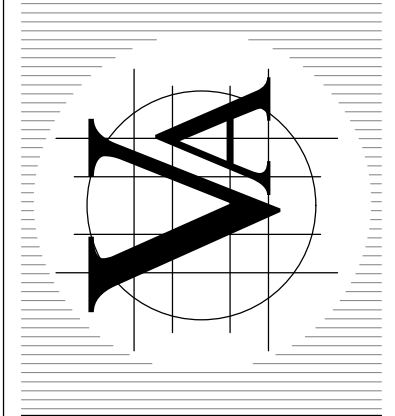


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DATE: 10-20-2022	SCALE: AS SHOWN
PROJECT NO: Unnamed	
DRAWING NO : M-1.2	

HVAC NOTES

1. GENERAL

All mechanical systems are to be installed in accordance with all applicable sections of the NFPA Standards, ANSI standards, Florida Building Code 2020, the local building code, noise & height ordinances, plans and specifications.

A. DRAWINGS: Refer to all drawings for coordination of the HVAC work.

B. ARRANGE AND PAY for all permits licenses, inspections and tests. Obtain the required certificates and present to owner.

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D. As built drawings shall be submitted to owner at the completion of project.

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3. DESIGN PARAMETERS:

A. Outdoor design temperature (Summer): 91°F DB and 79°F WB

B. Outdoor design temperature (Winter): 45°F

C. Indoor design temperature (Summer): 78°F DB

D. Indoor design temperature (Winter): 72°F DB

4. ALL THERMOSTATS SHALL have heating mode maximum setting of 75 F, and cooling mode minimum setting of 70 F. The thermostat shall be arranged to prevent the simultaneous operation of heating and cooling.

5. ELECTRICAL CONTROLS AND POWER WIRING: Under electrical contract.

6. EQUIPMENT SPECIFIED BY manufacturer's number shall include all accessories, controls, etc., listed in the catalog as standard with the equipment. Optional or additional accessories shall be furnished as specified.

7. MATERIALS:

A. REFRIGERANT PIPING: Shall be type L soft drawn, copper tubing, dehydrated for refrigerant use. Sized as shown on drawings or as per air conditioning equipment manufacturer's recommendations.

B. INSULATION: Refrigerant suction piping shall be insulated with 1/2" thick foamed plastic insulation, fire retardant type. Insulation shall be installed in piping before assembly. No split insulation will be acceptable. Seal joints with manufacturer's approved adhesive and gray tape. The piping and fittings for Refrigerant vapor (suction) lines shall be insulated with insulation having a thermal resistivity of at least R-4 and having external surface permeance not exceeding 0.05 perm when tested in accordance with ASTM E96 to comply with FBCR Section M141.5.

C. DUCTWORK:

a. All supply air ductwork shall be fiberglass ductboard, fabricated and installed as per latest edition of SMACNA "Fiberglass Glass Duct Manual", 1-1/2" thick R-4.0 in uncond. space. 1" thick R-4.2 in cond. space.

b. All exhaust ductwork shall be galvanized sheet metal duct not lighter than 26 gage.

c. All duct dimensions are clear inside dimensions.

d. Flexible insulated ductwork with 1 1/2" thick fiberglass insulation with FRK vapor barrier, class I air duct, U.L. R-4.0 MIN.

e. Dryer ductwork: 26 ga. min. galvanized steel, having a smooth interior surface with joints running in the direction of airflow and without sheet metal screws or fittings in the air stream. Maximum length shall not exceed 25 feet. Wall caps shall be provided with backdraft damper. Dryer exhaust wall cap is not to be provided with a screen as required by the FBCR-1502.3

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8. Provide metal round fittings at all flexible duct connection to supply duct.

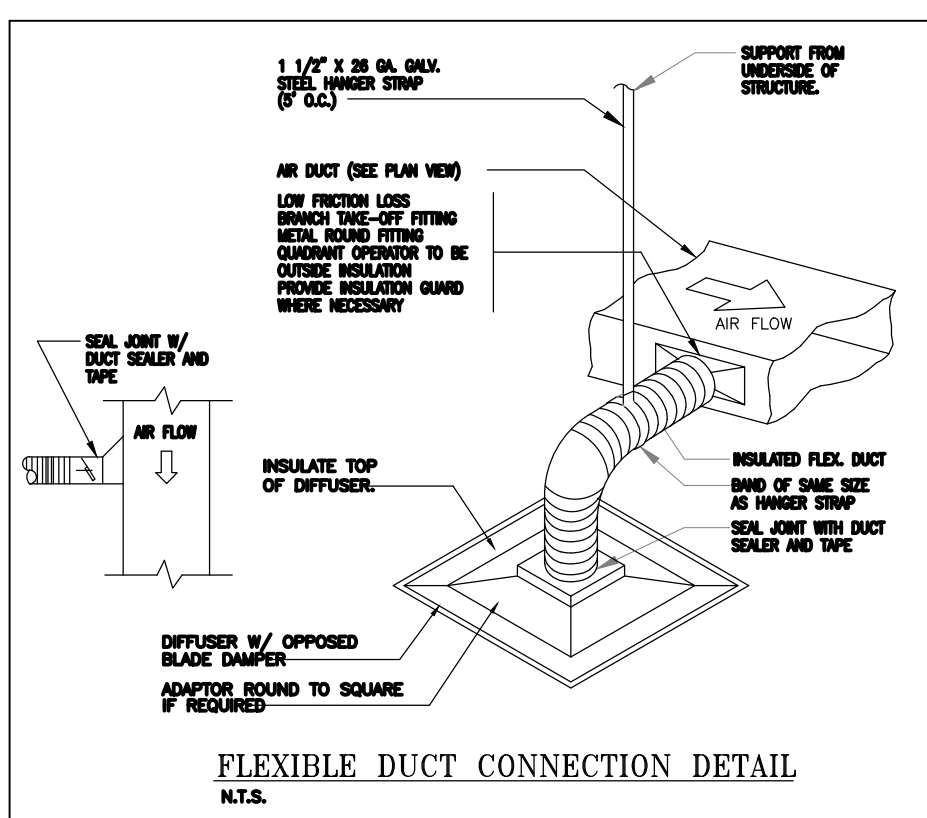
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12. Contractor shall verify job conditions prior to ordering, fabrication or installation of materials or equipment. Notify architect/engineer of any conflicts before fabrication.

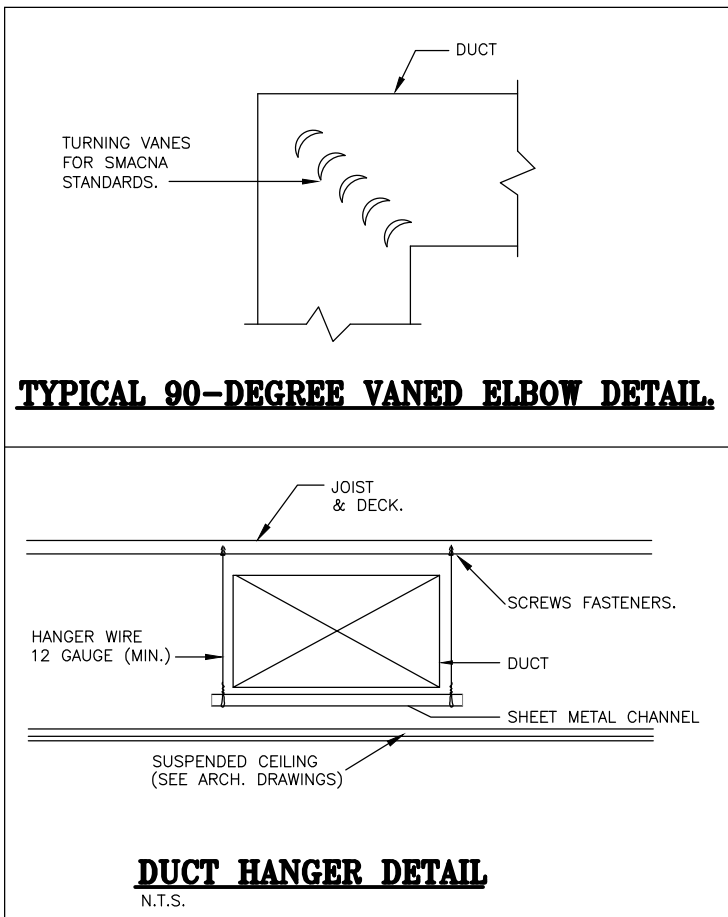
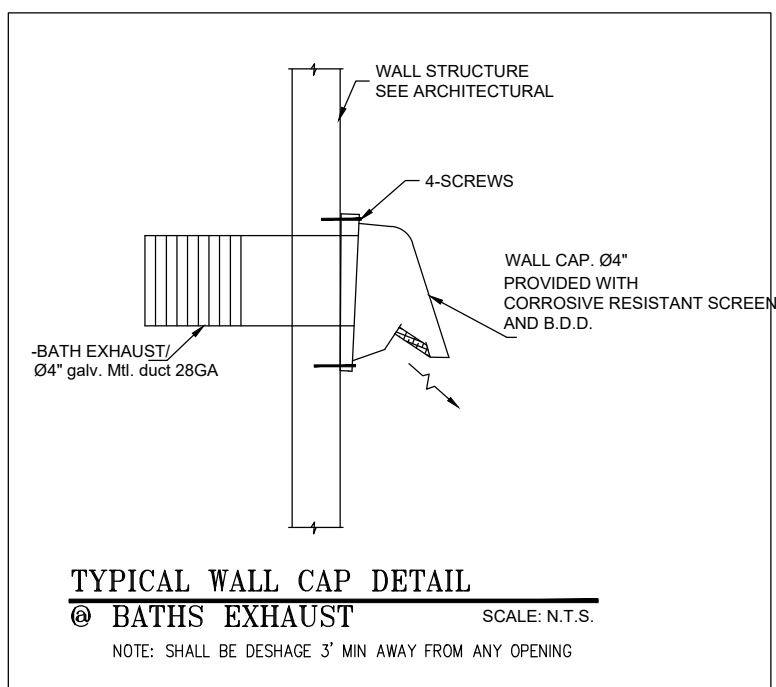
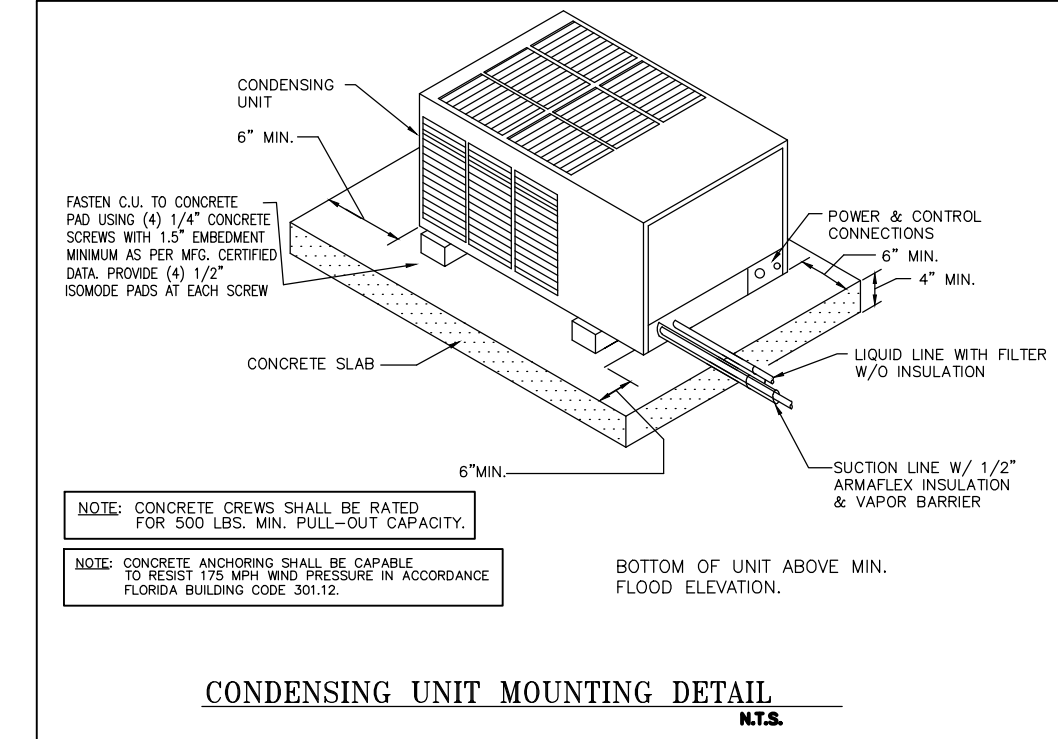
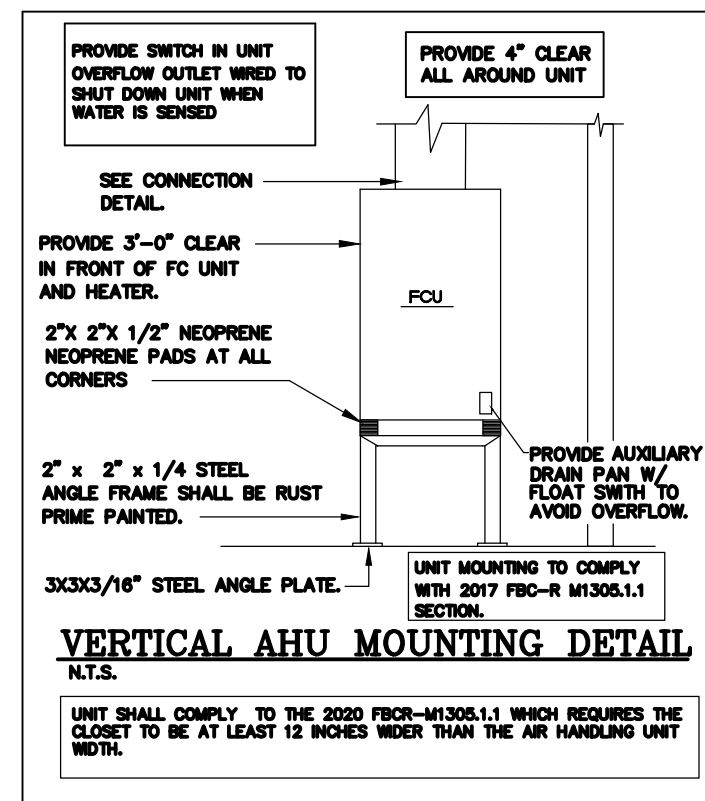
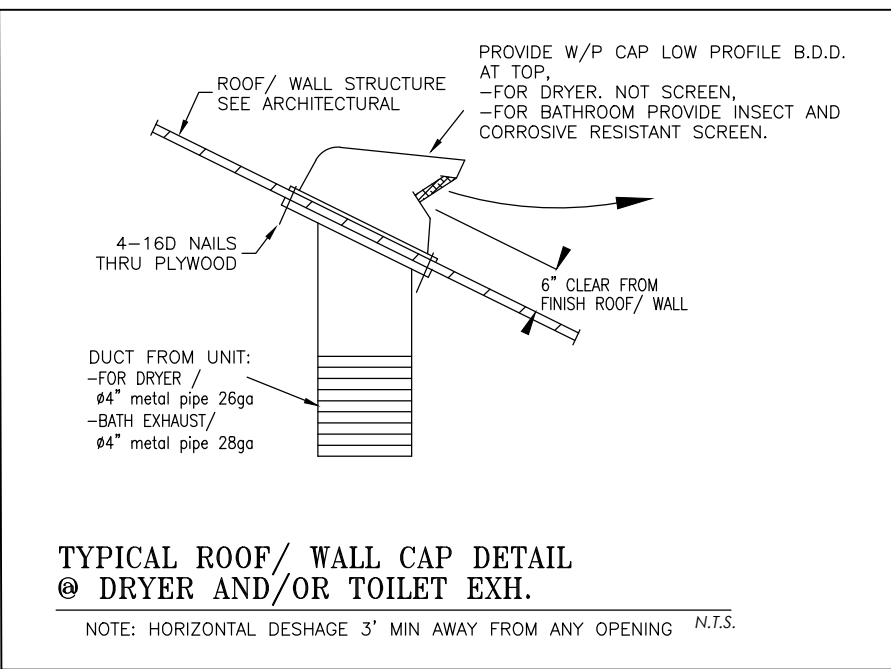
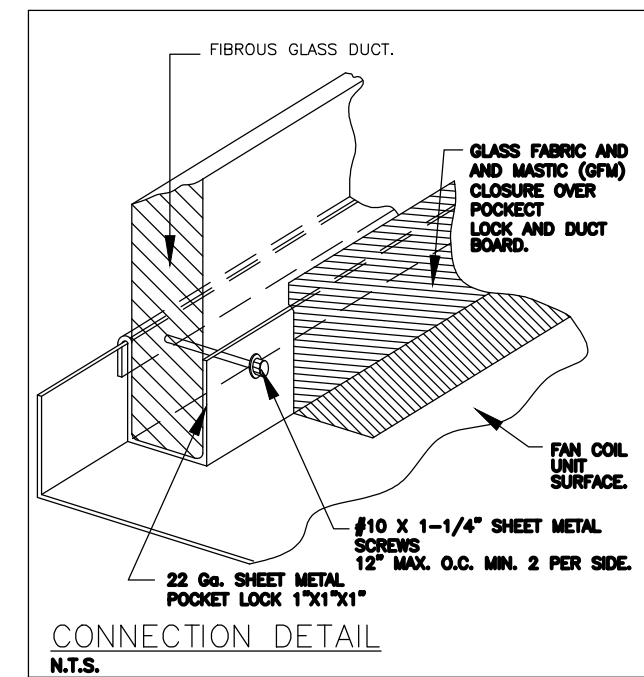
13. Provision must be taken to prevent HVAC duct surface contact with the Foam insulation, either during application of after the foam dried up to prevent a voided listing of the A/C ductworks (both flexible and fiberglass duct board).



AIR DISTRIBUTION SCHEDULE				
SYMBOL	USE	TYPE	ACCESSORIES	DESIGN MANUFACTURER & MODEL No.
(A)	SUPPLY AIR	LINEAR DIFFUSER	O.B.D.	TITUS FL-15 (1 SLOT)
(B)	RETURN AIR	LINEAR BAR	----	TITUS CT-481 (4" WIDE)
(C)	RETURN AIR	LINEAR BAR	----	TITUS CT-481 (6" WIDE)
(D)	SUPPLY AIR	LINEAR DIFFUSER	O.B.D.	TITUS FL-15 (2 SLOTS)

NOTES:
1. ALL AIR DISTRIBUTION DEVICES SHALL BE ALL ALUMINUM CONSTRUCTION.
2. COORDINATE COLOR FINISH WITH ARCHITECT. WHITE BAKED ENAMEL STANDARD.
3. UNLESS OTHERWISE SPECIFIED ALL LINEAR DIFFUSERS ARE SINGLE SLOT WITH HORIZONTAL FLOW PATTERN.
4. PROVIDE REMOTE YOUNG CONTROL ON ALL GRILLES FOR AIR BALANCE.

HVAC DESIGN REQUIRES:	YES	NO
DUCT SMOKE DETECTOR	—	X
FIRE DAMPER(S)	—	X
SMOKE DAMPER(S)	—	X
FIRE RATED ENCLOSURE	—	X
FIRE RATED ROOF/FLOOR CEILING ASSEMBLY	—	X
FIRE STOPPING	—	X
SMOKE CONTROL	—	X



NOTES, SCHEDULES AND DETAILS.

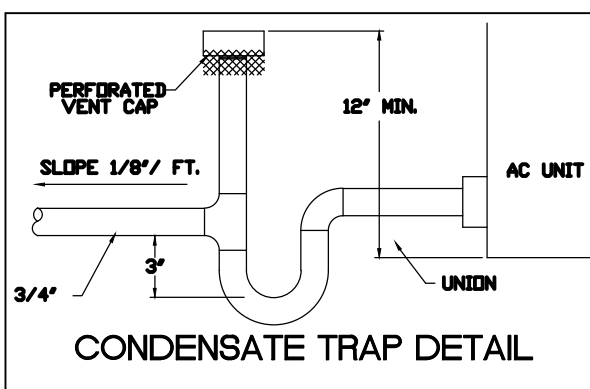
FAN SCHEDULE		
UNIT DESIGNATION	EF-1	EF-2
AREA SERVED	BATHROOMS	BATHROOMS
MANUFACTURER	GREENHECK	GREENHECK
MODEL NO.	SP-B50	SP-B110
TYPE	CLG. CABINET	CLG. CABINET
TOTAL AIR, CFM	50	110
TOTAL STATIC PRESSURE, IN OF H2O	0.125"	0.125"
DRIVE TYPE	DIRECT	DIRECT
SPEED, RPM	625	950
FAN MOTOR H.P. (WATTS)	(15)	(80)
SONES / (NC)	1.4	2.2
ELECTRICAL SERVICE	115/1/60	115/1/60
OPERATING WEIGHT, LBS.	9	10
DIMENSIONS WxLxH (IN)	14 X 12 X 7	14 X 12 X 7
OPENINGS, WxH (IN)	----	----
REMARKS / ACCESSORIES	(1), (2)	(1), (2)

NOTES:
1. INTERLOCK WITH LIGHT SWITCH
2. BACKDRAFT DAMPER

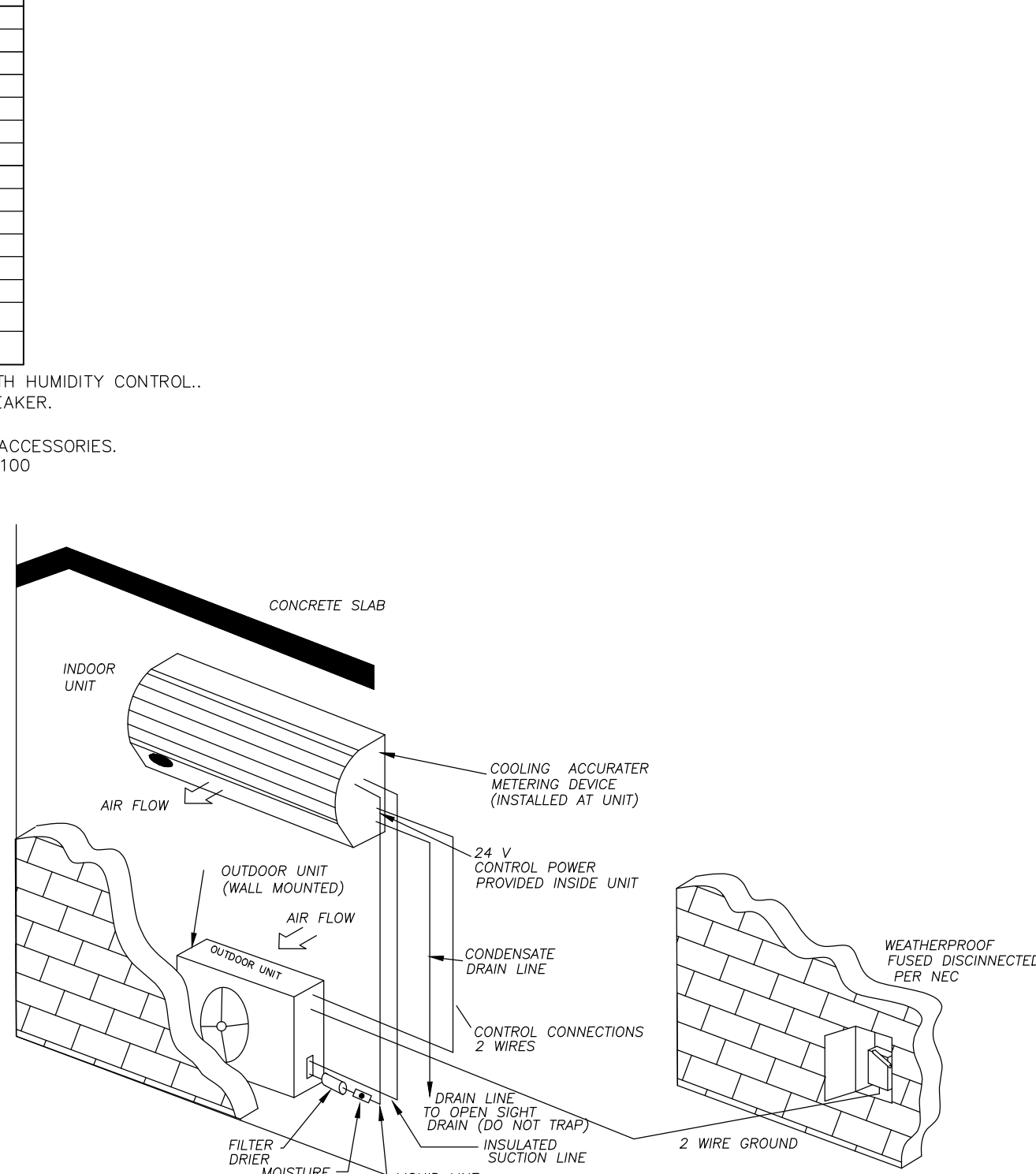
SPLIT AC UNIT SCHEDULE		
UNIT DESIGNATION	AHU-1,2,3,5,6	AHU-4
AREA SERVED	2ND FLOOR	MASTER AREA
LOCATION	A/C CLOSET	A/C CLOSET
OPERATING WEIGHT, LBS	207	207
DESIGN MANUFACTURER	CARRIER	CARRIER
MODEL NUMBER	FE4ANB006	FE4ANB006
SEER / HSPF	19.0/-	18.5/-
TOTAL AIR, CFM	2000	1,000
VENT AIR, CFM	----	----
EXTERNAL STATIC PRESSURE, IN OF WATER	0.5	0.5
FAN MOTOR HP. (NON-OVERLOAD)	3/4-6.8 FLA	3/4-6.8 FLA
ELECTRICAL SERVICE AVAILABLE	230/1/60	230/1/60
MIN. CIRC. AMP	53.8	44.7
MAX. CIRC. PROT.	60	45
OPERATING WEIGHT, LBS	----	----
FACE VELOCITY - FPM	----	----
DESIGN AIR ACROSS COIL, CFM	2000	1,000
GRAN TOTAL CAPACITY, BTU/HR	59,320	35,080
TOTAL SENSIBLE CAPACITY, BTU/HR	45,490	29,270
ENTERING AIR TEMP., °F DB/WB	80/67	80/67
COIL MODEL NO.	----	----
TYPE & THICKNESS	CLEANABLE 1"	CLEANABLE 1"
QUANTITY AND SIZE	1-21.5 X 23.3	1-21.5 X 23.3
FACE VELOCITY FPM, MAX.	----	----
HEAT COIL TYPE	ELECT.	ELECT.
ELECTRICAL SERVICE AVAILABLE	230/1/60	230/1/60
AUXILIARY ELECTRIC HEAT, KW	10	5
STAGES & KW PER STAGE	1/10	1/5
UNIT DESIGNATION	CU-1,2,3,4,5	CU-6
TYPE OF FAN	PROP.	PROP.
NO. OF FANS AND AMPS	1/1.4	1/ 3.2
AMBIENT AIR TEMP. °F DB	95	95
CONDENSING TEMP. °F DB	----	----
NO. OF COMPRESSORS/ TYPE	1/SCROLL	1/SCROLL
COMPRESSORS F.L.A./L.R.A. EACH	31.3/-	15.1/24
CAPACITY REDUCTION	VARIABLE	VARIABLE
MIN. CIRC. AMP	40.8	22.1
MAX. CIRC. PROT.	60	30
ELECTRICAL SERVICE AVAILABLE	230/1/60	230/1/60
OPERATING WEIGHT, LBS	241	351
DESIGN MANUFACTURER	CARRIER	CARRIER
MODEL NUMBER	24VNA960A003	24VNO36
REFRIGERANT PIPE SIZE, SUCTION/LIQUID	1-1/8" - 3/8"	7/8" - 3/8"

NOTES:
1. ALL THERMOSTATS SHALL BE CARRIER MANUFACTURER PROGRAMMABLE TYPE WITH HUMIDITY CONTROL.
2. ALL FAN COIL UNITS SHALL BE PROVIDED WITH FACTORY INSTALLED CIRCUIT BREAKER.
3. PROVIDE SEACAST PROTECTION ON COIL AND CASE.
4. REFER TO MANUFACTURER SPECS FOR REFRIGERANT LINES REQUIRED SIZE AND ACCESSORIES.
CARRIER SALES ENGINEER REPRESENTATIVE: GILBERTO CATANO PH:1-954-599-1100 EMAIL:gilberto.catano@carrierenterprise.com

CALCULATIONS ARE BASED ON:	
WINDOWS	U FACTOR: 1.07 / SHGC: 0.26
ROOF DECK	R-30
CMU EXT WALL	R-5



SINGLE CIRCUIT HIGH WALL SPLIT SYSTEMS (208/160)	
MANUFACTURER	CARRIER
UNIT DESIGNATION	AC&CU-1
NOM TONS	0.75
SEER2	26.0
HSPF2	12.5
MODEL NO.	43MAH028XAAJ0R (EQUA)
REFRIGERANT	37MAH028XAAJ0R (EQUA)
CFM (LOW TO HIGH)	324
CHARGE (LB)	9.4548
COOLING CAP (BTUH)	9,552.3
HEATING CAP (BTUH)	9,442.1
CONDENSING UNIT DATA:	
COMPRESSOR QTY/STAGES	1/VARIABLE
COMPRESSOR 1 RLA	3.3
COND. FAN FLA-W	4.7-604
MCA (A)	12
MOSP (A)	15
DIMENSIONS (WxHxD) (IN)	31x22x12
STD WEIGHT (LBS)	62
AIR HANDLER DATA:	
MCA (SEE OUTDOOR DATA)	
MOSP (SEE OUTDOOR DATA)	
DIMENSIONS (WxHxD) (IN)	32x12x9
STD WEIGHT (LBS)	24
MAX PIPE LENGTH / LIFT (FT)	82/49
REF. TUBES O.D. (IN)	
SUCTION LINE	3/8
LIQUID LINE	1/4
AHRI REFERENCE #	215323749



MINI - SPLIT A/C AND C/U (Wall Mounted)

Maria E Diaz
Digitally signed by Maria E Diaz
Date: 2025.12.09 13:55:39 -04'00'

HDF DESIGN LLC
12930 SW 128th ST
SUITE 204A18A2
MIAMI, FL 33186
T.(305) 456-2399

MARIA DIAZ
No. 62930
STATE OF FLORIDA
PROFESSIONAL ENGINEER
MARIA DIAZ
FLORIDA PE #62930

REVISIONS	
Rev	Description
10/24/23	B.D.C

FIDANZA'S FAMILY HOUSE
NEW CONSTRUCTION
11041 SW 77TH AVE, PINECREST, FL 33156

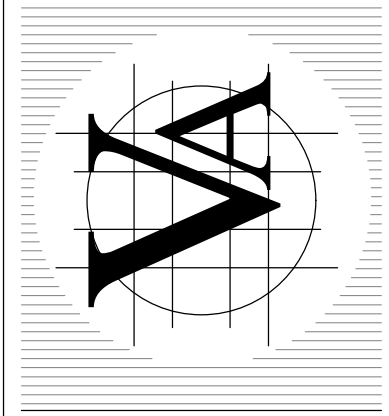
JORGE L VILLAVENCIO
NC AR001210

Corporation Licence
#A40003959
Architectural Seal

JORGE L VILLAVENCIO
NC AR001210

VILLA & ASSOCIATES INC.
ARCHITECTURE - PLANNING - INTERIOR DESIGN
5801 SW 89 AVENUE - MIAMI, FLORIDA 33155
TEL. 305-613-0865 - E-Mail: Jvillarchitect@gmail.com

CONSULTANT : ARCHI-TEK STUDIO CORP.
TEL. 305-799-8016 - E-Mail: maguilar@architekstudio.com



DATE: 10-20-2022	SCALE: AS SHOWN
PROJECT NO: Unnamed	
DRAWING NO : M-2.0	