

MECHANICAL NOTES

I. SCOPE OF WORK

- A. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
- B. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE FLORIDA BUILDING CODE 2023, ALL LOCAL CODES AND ALL OTHER REGULATION GOVERNING WORK OF THIS NATURE.
- C. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY EFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
- D. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT.

2. PERMITS

- A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES.

3. SHOP DRAWINGS

- A. SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT FIVE SETS OF SHOP DRAWINGS AND THEY SHALL BE CLEARLY LABELED.

4. FLEXIBLE TYPE DUCT

- A. SHALL BE OF TWO ELEMENT SPIRAL CONSTRUCTION COMPOSED OF A CORROSION RESISTANT METAL SUPPORTING SPIRAL AND COATED FABRIC WITH A MINERAL BASE. FLEXIBLE DUCT CONNECTORS SHALL BE LISTED BY UL, CLASS 1 DUCTS, AND SHALL HAVE A FLAME SPREAD RATINGS NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50.

- B. CONTRACTOR SHALL BE CAREFUL SO AS NOT TO KINK OR COLLAPSE FLEXIBLE DUCT.

5. REFRIGERANT PIPING

- A. CONTRACTOR SHALL PROVIDE AND INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN SUCH A WAY AS TO BE INCONSPICUOUS AND FREE FROM ANY POSSIBLE CONDENSATION. INSULATE REFRIGERANT LINES WITH ARMOUR-FLEX TYPE INSULATION.

- B. SHALL BE TYPE "K" COPPER TUBING, WITH WROUGHT COPPER SOLDER TYPE FITTINGS SUITABLE FOR CONNECTION WITH SILVER SOLDER.

NOTE: "ARMORFLEX" OR EQUAL INSULATION SHALL BE USED FOR SUCTION REFRIGERANT LINES WITH THICKNESS PER FLORIDA ENERGY CODE TABLE C403.2.8. FILTER/DRYER AND SIGHT GLASS SHALL BE PROVIDED AT LIQUID LINES.

6. DUCTWORK

- A. THE DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "NAIMA" APPLICABLE MANUALS. ALL DUCTWORK SHALL BE THE LOW VELOCITY TYPE, UNLESS SPECIFIED OTHERWISE.

- B. CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE DAMPERS AND ACCESS PANELS IN ANY AND ALL DUCTWORK WHICH PENETRATES A HORIZONTAL OR VERTICAL FIRE PARTITION, OR AS OTHERWISE SHOWN ON DRAWINGS.

- C. ALL BRANCH DUCTS TO HAVE VOLUME DAMPERS.

- D. SMOOTH TURN RADIUS DUCTWORK OR TURNING VANES SHALL BE USED THROUGHOUT WHERE FLOW EXCEEDS 150 CFM.

- E. ALL DUCT JOINTS TO BE SEALED IN ACCORDANCE WITH "SMACNA" STANDARDS AND ACCEPTED GOOD PRACTICE.

- F. ALL DUCT DIMENSIONS SHOWN ARE NET INSIDE VALUES. DIMENSIONS MAY BE CHANGED SO LONG AS THE NET FREE FACE AREA IS MAINTAINED.

NOTE: DUCTWORK CONSTRUCTION, INSTALLATION AND MINIMUM INSULATION R-VALUES SHALL COMPLY WITH FEC 2023, SEC. C403.2.7 AND TABLE C403.2.11.

NOTE: SMACNA DUCT PRESSURE CLASSES BASED ON OPERATING PRESSURE ARE: 1/2", 1", 2", 3", 4", 6", AND 10". EACH DUCT SYSTEM SHALL BE CONSTRUCTED FOR THE SPECIFIC DUCT PRESSURE CLASS SHOWN ON PLANS. WHERE NO PRESSURE CLASS IS SPECIFIED FOR CONSTANT VOLUME SYSTEMS, 1" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS REGARDLESS OF VELOCITY. WHERE NO PRESSURE CLASS IS SPECIFIED FOR VARIABLE VOLUME SYSTEMS, 2" W.G. PRESSURE CLASS IS THE BASIS OF COMPLIANCE WITH THE SMACNA STANDARDS FOR DUCTWORK UPSTREAM OF VAV BOXES. ALL DUCTWORK SHALL BE SEALED TO SMACNA "HVAC DUCT CONSTRUCTION STANDARDS" FOR ITS PRESSURE CLASS SEALING METHODS.

- G. ALL AIR CONDITIONING DUCTWORK ABOVE CEILING SHALL BE OF 1/2" (R-6) HEAVY DUTY FOIL REINFORCED FIBERGLASS. ALL FLEXIBLE DUCT SHALL BE R-6.

- H. ALL AIR CONDITIONING DUCTWORK EXPOSED SHALL BE GALVANIZED SHEETMETAL (SPIRAL) WITH SEALED SEAMS AND JOISTS. INSTALL WITH 1-1/2" (R-6) INTERNAL INSULATION. ALL RIGID DUCT SHALL BE R-6.

7. DRAINAGE PIPING (CONDENSATE)

- A. SHALL BE SCHEDULE 40 PVC PIPE WITH SOLVENT JOINTS. PITCH HORIZONTAL LINES 1" IN 10'-0". CONDENSATE DRAINS SHALL BE ROUTED TO FLOOR DRAIN OR INDIRECT WASTE DRAIN.

8. HVAC CONTROLS

- A. CONTRACTOR TO SUPPLY AND INSTALL ALL CONTROL WIRING AND THERMOSTATS AS REQUIRED.
- B. INSTALL THERMOSTAT PER A.D.A REQUIREMENTS WHERE APPLICABLE. MAX. 48" HIGH FOR FORWARD REACH, MAX. 48" HIGH FOR SIDE REACH.

9. ELECTRICAL

- A. CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR LOCATION OF WIRING FOR EACH HVAC UNIT.

10. PIPE SUPPORTS

- A. ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE OR METAL STRAP TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACING OF PIPE SUPPORTS SHALL NOT EXCEED 8 FEET FOR ALL PIPING. PLASTIC PIPING TO BE SUPPORTED EVERY 4 FEET.

II. MISCELLANEOUS

- A. ALL EXTERIOR OPENINGS TO BE PROPERLY CAULKED AND SEALED WITH A SEALANT OF HIGH QUALITY AND LONG LIFE, TO PREVENT INFILTRATION OF OUTSIDE AIR INTO CONDITIONED SPACE.

- B. PRIOR TO PURCHASING OF MATERIALS, CONTRACTOR SHALL REFER TO THE ENERGY FORM FOR INSULATION VALUES (WALLS AND ROOF), GLASS DATA (SHGC & U-FACTOR), WATER HEATER EFFICIENCY, A/C UNIT EFFICIENCY, ETC.

- C. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.

- D. THE MECHANICAL PLANS ARE INTENDED TO BE DIAGRAM-MATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.

- E. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS, THE FLORIDA BUILDING CODE 2023 AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LISTED EDITION OF THE FOLLOWING PUBLICATIONS: SMACNA/ANSI-2005, SMACNA-10, 85; ASHRAE 15-2010; 34-2010 62.1-2010; NFPA 10-2020, 12-2011, 40A-2021, 40B-2021, 41-2020, 46-2021, 101-2021, NEBB-2005; NAIMA-2002, NFRC-100-2010, 200-2010, 400-2010, ANSI Z101-48, Z103-48, Z218-44, Z2183-48.

- F. FOR BUILDINGS LOCATED WITHIN 3,000 FT FROM THE OCEAN, CONTRACTOR SHALL UTILIZE NON-FERROUS MATERIALS OR PROVIDE CORROSION COATING FOR ALL OUTDOOR EXPOSED METAL/STEEL EQUIPMENT, SUPPORTS, STANDS, FASTENERS, ETC. BY 3RD PARTY AS APPLIED BY BLYGOLD, LIVATA, ADVANCOAT (ENGEAL GR) OR APPROVED EQUAL WITH STANDARD 5-YEAR WARRANTY.

- G. PROVIDE A MIN. OF 36" CLEARANCE IN FRONT OF ALL 120-208/240 VOLT PANELS AND MIN. 42" CLEARANCE IN FRONT OF ANY 277-480 VOLT PANEL. PROVIDE ADEQUATE SIDE CLEARANCE PER NEC 110.26.

12. TESTING AND BALANCING

- A. PROVIDE TEST AND BALANCE REPORT GENERATED BY INDEPENDENT THIRD PARTY NEBB OR AABC CERTIFIED TAB FIRM TO OWNER.

13. GUARANTEE

- A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE(1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.

- B. FOR THE SAME PERIOD, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.

SPECIAL NOTE:
ALL WIND LOAD AND OTHER COMPLIANCE CALCULATIONS AND/OR INSTALLATION DETAILS FOR OUTDOOR MOUNTED MECHANICAL EQUIPMENT AS REQUIRED BY FEC 2023, SEC. 1504.1522 AND CHAPTER 16, SHALL BE PROVIDED BY A STRUCTURAL ENGINEER AND ARE SHOWN ON THESE PLANS FOR REFERENCE ONLY. SUCH CALCULATIONS SHALL BE PROVIDED BY THE EQUIPMENT MANUFACTURER OR BY THE GENERAL OR MECHANICAL CONTRACTOR ON BEHALF OF CLIENT. CONTRACTOR TO PROVIDE WIND LOAD CALCULATIONS SIGNED AND SEALED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER IN ORIGINAL FOR COMPLIANCE WITH SEC. 3015 OF FBC 2023, INCLUDING ANY DOCUMENTATION REQUIRED BY LOCAL JURISDICTION FOR PERMIT PURPOSES.

MECHANICAL SHEET INDEX

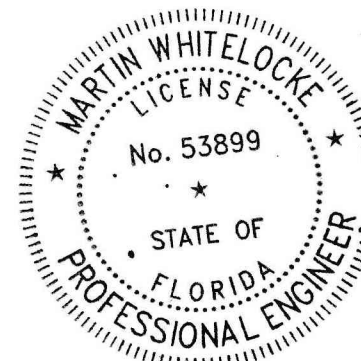
SHEET#	DESCRIPTION
M-0	HVAC NOTES, LEGEND, INDEX
M-1	1st FLOOR HVAC PLAN
M-2	HVAC SCHEDULES
M-3	HVAC DETAILS

MECHANICAL LEGEND

	SUPPLY AIR CEILING DIFFUSER		CEILING EXHAUST FAN
	RETURN AIR CEILING DIFFUSER		WALL EXHAUST FAN
	SUPPLY AIR SIDEWALL REGISTER		DUCT TAKE OFF WITH DAMPER
	RETURN AIR SIDEWALL GRILLE		THERMOSTAT
	LINEAR DIFFUSER		HUMIDISTAT
	FIRE DAMPER		SMOKE DETECTOR
	EXISTING		CARBON DIOXIDE SENSOR
	VOLUME CONTROL DAMPER		AIR DEVICE TAG & AIR FLOW DATA
	OUTSIDE AIR		DUCT SMOKE DETECTOR
	RETURN AIR		MOTORIZED DAMPER
	EXHAUST AIR		KEY NOTE TAG
	1' UNDERCUT DOOR		REFRIGERANT PIPE UP
	SUPPLY AIR		REFRIGERANT PIPE DOWN
	NEW RIGID DUCT (DIMENSIONS IN INCH)		KEY REMOTE WITH AUDIOVISUAL LEAD
	EXISTING RIGID DUCT (DIMENSIONS IN INCH)		
	NEW FLEXIBLE DUCT (DIMENSIONS IN INCH)		

HVAC SPECIFICATIONS, N.T.S.

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DRAWING ISSUED FOR: PERMIT NHCEN 2024-085	DATE: 12/5/2024
ENGINEER OF RECORD MARTIN WHITELOCKE FLORIDA LICENSE NO. 53899	3/4/2025 DATE

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NEW HOUSE FOR:
BHAGWANSINGH HOUSE
8100 SW 120TH STREET
PINECREST, FL 33156

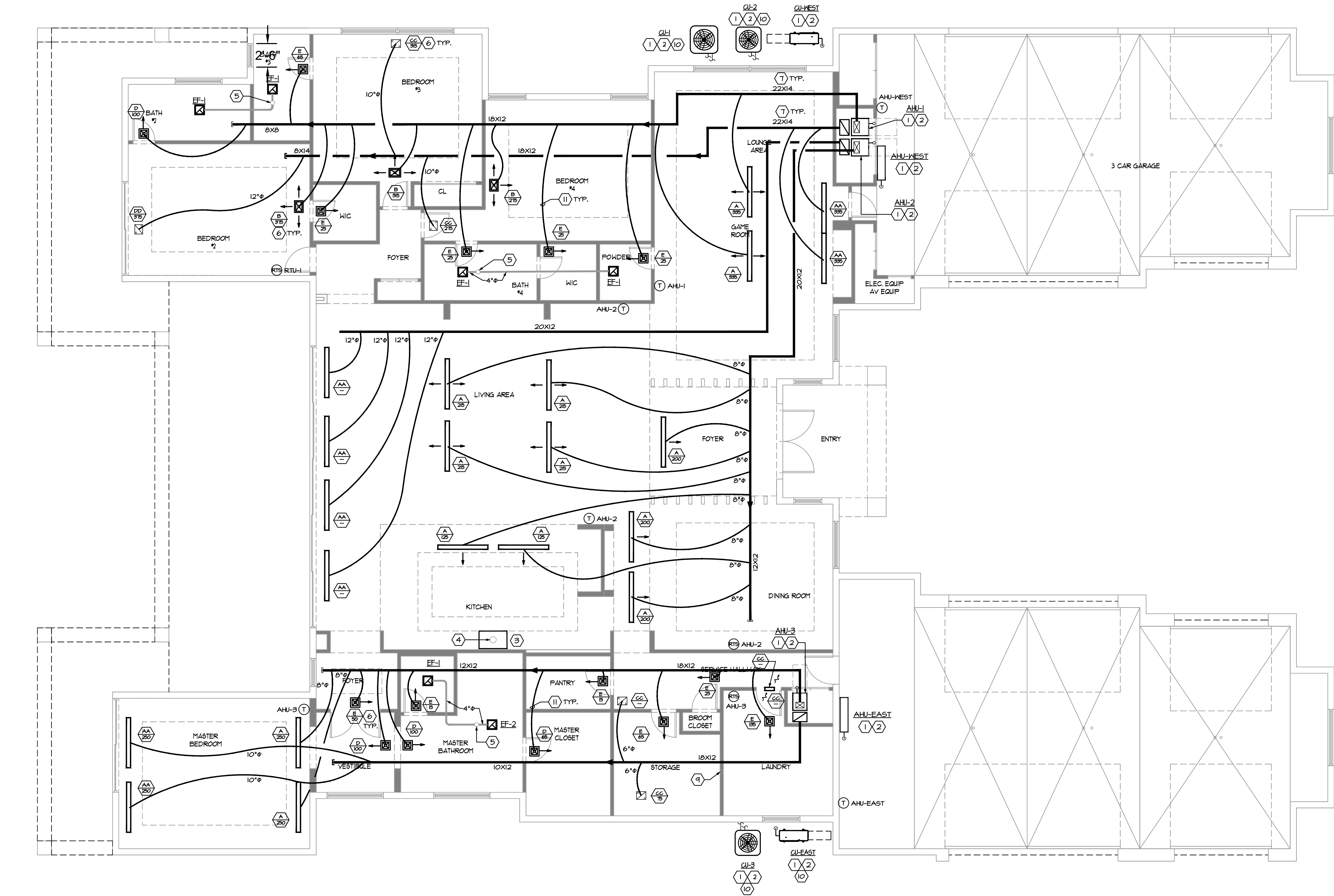
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- All designs and concepts are the property of JSR Design Group, Inc., and may not be modified or copied without written permission by the architect.
- Contractor to verify all written dimensions (Not scaled) & notify architect of any discrepancies or omissions. Construction shall not proceed until said discrepancies or omissions have been resolved by architect.
- Contractor to verify and approve all shop drawings and dimensions before having drawings reviewed and accepted by the architect prior to construction.

27423

M-0



GENERAL NOTES

- ALL DUCT DIMENSIONS ARE INTERIOR CLEAR DIMENSIONS. ALLOW FOR INSULATION THICKNESS (R-6).
- COORDINATE FINAL ROUTING OF DUCTWORK WITH OTHER TRADES.
- THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATION OR INSTALLATION OF MATERIALS OR EQUIPMENT.
- FIELD COORDINATE DUCTWORK & DIFFUSERS BETWEEN ROOF TRUSSES (CONTRACTOR CAN MODIFY SIZES OF DUCTWORK BUT KEEP SAME VELOCITY OF DESIGNED DUCTWORK SIZES).
- MECHANICAL CONTRACTOR TO FIELD VERIFY ROUTING OF REFRIGERANT LINES AND EQUIVALENT LENGTH PRIOR TO ORDER ANY EQUIPMENT.
- AIR HANDLING UNIT SHALL MAINTAIN 4" MIN. ON THE BACK AND BOTH SIDES.
- ALL INTERIOR DOORS SHALL HAVE A 1" UNDER CUT PER F.M.C..

SHEET NOTES

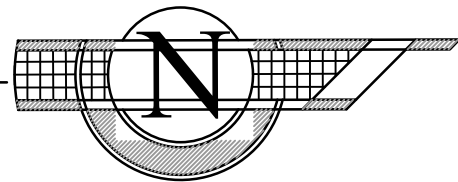
1. PROVIDE SERVICE CLEARANCE PER MANUFACTURER REQUIREMENTS AND NEC. PROVIDE ACCESS PANEL AS NEEDED. CONTRACTOR SHALL COORDINATE ACCESS PANEL SIZE WITH MANUFACTURER AND ALL CLEARANCE REQUIREMENTS.
2. REF. LINES (FIELD COORDINATE EXACT ROUTE). CONTRACTOR SHALL COORDINATE FINAL REFRIGERANT LINE SIZE AND LENGTHS WITH MANUFACTURER PRIOR TO INSTALL. CONTRACTOR SHALL FIELD COORDINATE PENETRATION INTO BUILDING AND PATCH AS NEEDED.
3. EXHAUST HOOD TO BE PROVIDED. CUT SHEET SHALL BE AT SITE FOR INSPECTION. PROVIDE WITH BACK-DRAFT DAMPER.
4. PROVIDE 6" KITCHEN HOOD DUCTWORK (GALVANIZED STEEL DUCT) TO 8" ROOF CAP. (MIAMI-DADE COUNTY APPROVED). PROVIDE WITH BACK-DRAFT DAMPER. (FIELD COORDINATE LOCATION). REFER TO SEC. M505.2 FOR MORE DETAILS. REFER TO MANUF. VENTING SYSTEM AND PROVIDE AS REQUIRED.
5. 6" SHEET METAL EXHAUST DUCT UP TO ROOF CAP.
6. FIELD COORDINATE FINAL LOCATION OF SUPPLY & RETURN GRILLE. LOCATE RETURN A MIN. OF 3 FT FROM SMOKE DETECTORS.
7. FIELD COORDINATE EXACT ROUTING & SIZE OF DUCTWORK WITH FIELD CONDITIONS.
8. PROVIDE WALL MOUNTED REMOTE TEMPERATURE SENSOR.
9. PROVIDE 4" DRYER EXHAUST (26 GA. MIN.) VENT UP TO ROOF CAP. DUCTWORK SHALL BE MAXIMUM OF 35'-0".
10. CONDENSING UNITS TO BE MOUNTED ON CONCRETE PAD.
11. FOR FLEX DUCT SIZES SEE SCHEDULE THIS SHEET.

FLEX SCHEDULE

60"	50-125 CFM
80"	130-200 CFM
100"	205-330 CFM
120"	335-450 CFM
140"	455-100 CFM

HVAC PLAN

3/16" SCALE.

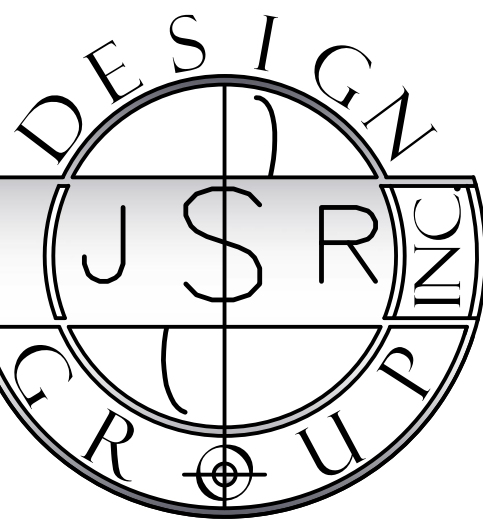


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DRAWING ISSUED FOR: PERMIT	DATE: 02/25/2024
ENGINEER OF RECORD	
MARTIN WHITELOCKE	FLORIDA LICENSE NO. 53899
3/4/2025	DATE

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M-1

EXHAUST FAN SCHEDULE

FAN #	EF-1	EF-2
MANUFACTURER	HOMERKKS T146-80-MS	HOMERKKS T146-80-MS
CFM	50	70
E.S.P. IN. WG.	0.5	0.5
RPM - ROOF CURB TYPE	-	-
- SPEED/SONES	564/1.4	564/1.4
ELECTRIC V/Ø/HZ	120/1/60 45 WATTS	120/1/60 45 WATTS
MOUNT	CEILING	CEILING
ACCESS. - ROOF CURB TYPE	-	-
- LIGHT	X	X
- BACKDRAFT DAMPER	X	X
- DISCONNECT SWITCH	-	-
- SPEED CONTROL	X	X
REMARKS	X SHEET METAL DUCT. X SEE PLANS FOR TERMINATION. X SEE ARCHITECT'S DWGS. FOR CONTROL LOCATION (WALL SWITCH).	

MINI-SPLIT SYSTEM

OUTDOOR UNIT													
OUTDOOR UNIT TAG	MANUF. & MODEL	NOMINAL TONNAGE	RATED CAPACITY (MBH)		O.A.T. DB (°F)	ARI SEER2	HSPF2	NO. FANS/ FLA	NO. COMP/ RLA	VOLT/PHVHZ	MCAMOCF	HEIGHT (LBS)	NOTES
OU-EAST	CARRIER/ 38HARBQ24-3	2.0	27.0	33.0	45.0	21.5	11.4	1/0.5	14.8	208-230/1	25/35	302	AS NOTED
OU-WEST	CARRIER/ 38HARBQ24-3	2.0	27.0	33.0	45.0	21.5	11.4	1/0.5	14.8	208-230/1	25/35	302	AS NOTED
INDOOR UNIT													
INDOOR UNIT TAG	CORRESPONDENT CU	MANUF. & MODEL	COOLING MODE		HEATING MODE (MBH)	TOTAL CFM	E.S.P. (IN.WG.)	COIL E.A.T. DEB/MB (°F)	SUCT. & LIQ.	MCAMOCF	HEIGHT (LBS)	NOTES	
AHU-EAST	CU-EAST	CARRIER/ 40MAHQB24-3	23.8	17.4	33.0	125	-	75.7/61.8	5/8 & 3/8	POWER THRU CU	45.0	AS NOTED	
AHU-WEST	CU-WEST	CARRIER/ 40MAHQB24-3	23.7	17.4	33.0	125	-	75.7/61.8	5/8 & 3/8	POWER THRU CU	45.0	AS NOTED	
A/C EQUIPMENT NOTES:													
I. UNITS RATED PER ARI 210, 240 AND 270. 2. PROVIDE WITH THERMAL EXPANSION VALVES, LIQUID LINE FILTER DRYER AND MULTI-USE SERVICE VALVES. 3. PROVIDE COMPRESSOR WITH CRANKCASE HEATER AND MIN. 5-YEAR WARRANTY. 4. PROVIDE HIGH AND LOW PRESSURE CONTROL AND OVER TEMPERATURE PROTECTION. 5. PROVIDE WEATHERPROOF ELECTRIC CONTROLS AND SINGLE SIDE SERVICE ACCESS. 6. PROVIDE WASHABLE FILTER. 7. PROVIDE WALL MOUNTED HARD-WIRED PROGRAMMABLE CONTROLLER (THERMOSTAT) TO MATCH CAPACITY STAGES BY "DAIKIN". 8. PROVIDE SENSOR SWITCH IN UNIT'S DRAIN PAN SECONDARY CONNECTION, EQUAL TO "WATER GUARD". PROVIDE WITH CONDENSATE PUMP AS REQUIRED (SAUERMANN S130). 9. PROVIDE SYSTEM WITH LOW TEMPERATURE OPERATION FOR HEATING MODE. 10. REFRIGERANT LINES SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS AND EXACT FIELD CONDITION. MANUFACTURER SHALL PROVIDE ALL VALVES, JOINTS AND HEADER REQUIRED FOR PROPER OPERATION. II. CONTRACTOR TO PROVIDE SERVICE CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.													
REFRIGERATION LINE NOTE: MECHANICAL CONTRACTOR SHALL COORDINATE REFRIGERANT LINES SIZES AND REQUIRED ACCESSORIES WITH "CARRIER" PRIOR TO PURCHASING AND INSTALLATION. ALL LINE SIZES SHALL BE APPROVED BY CARRIER PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE FIELD CONDITION WITH LINE RUNS. COORDINATION NOTE: MECHANICAL CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS AND ACCESSORIES WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASING AND INSTALLATION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF ENGINEER.													

AIR CONDITIONING DATA											
UNIT NO.	MFG.	CONDENSING UNIT MODEL NO.	AIR HANDLER UNIT MODEL NO.	TOTAL	SENSIBLE	SEER2	TOTAL CFM	O/A	FAN E.S.P. - IN WATER	HEAT MBH	SUCTION & LIQUID LINES
AHU-1 CU-1	CARRIER	25TPA160-3	FVACHB006	51.4	43.1	16.0	1900	-	0.50	54.0	1-1/8 AND 3/8
AHU-2 CU-2	CARRIER	24SPA648-3	FJHDX060	46.4	35.0	16.5	1600	-	0.50	41.3	1/8 AND 3/8
AHU-3 CU-3	CARRIER	24SPA636-3	FJHDX036	32.5	25.4	16.5	1200	-	0.50	34.4	1/8 AND 3/8
A/C EQUIPMENT NOTES: 1) VERIFY INSTALLED ELECTRICAL COMPONENTS WITH MANUFACTURERS SPECS. 2) PROVIDE DISCONNECT FOR CU. (INSTALLED BY ELECTRICAL) COORDINATE PRIOR TO PURCHASING. 3) PROVIDE 1" THROWAWAY MERV 8 FILTER AND VIBRATION ISOLATION FOR AHU. 4) PROVIDE FACTORY MOUNTED FUSIBLE DISCONNECT/STARTER FOR AHU. COORDINATE PRIOR TO PURCHASING. 5) PROVIDE 3" AUXILIARY DRAIN PAN WITH AUTOMATIC SHUT OFF FLOAT SWITCH OR SENSOR SWITCH IN UNIT'S DRAIN PAN SECONDARY CONNECTION. 6) COORDINATE WITH MANUFACTURE FOR REFRIGERANT LINES SIZES.											
A/C EQUIPMENT NOTES: 7) PROVIDE WITH CONDENSATE PUMP (WHERE REQUIRED). (SAUERMANN S130). 8) COORDINATE WITH PLUMBING DRAWINGS FOR CONDENSATE LINES AND ROUTE. 9) COORDINATE WITH ELECTRICAL DRAWINGS FOR POWER.											

ELECTRICAL DATA												
UNIT NO.	V/P/Hz	COMPRESSOR		O/FM		I/FM		ELECTRIC HEAT	CONDENSING UNIT		AIR HANDLER UNIT	
		STG.	RLA	QTY	FLA	BHP	FLA		TRK CAPACITY	MAX FUSE	TRK CAPACITY	MAX FUSE
AHU-1 CU-1	208-230/1/60	1	26.4	1	15	3/4	6.8	10 KH	33.4	60	58.5	60
AHU-2 CU-2	208-230/1/60	1	25.8	1	12	1/2	4.3	10 KH	28.8	50	58.5	60
AHU-3 CU-3	208-230/1/60	1	14.7	1	0.6	1/2	4.3	8 KH	14	40	48.5	50

AIR TERMINAL SCHEDULE						
SERVICE	SYSTEM	LOCATION	ACCESSORIES	MANUFACTURER	MODEL	DESCRIPTION (NECK/FLOW PATTERN)
A	SUPPLY	CEILING	PATTERN CONTROLLER	TTUS OR APPROVED EQUAL	FL-15 HT - 4'-0" (2) 15" SLOT	SEE PLAN
B	SUPPLY	CEILING	O.B.D.	TTUS OR APPROVED EQUAL	250-AA 12x10	SEE PLAN
C	SUPPLY	CEILING	O.B.D.	TTUS OR APPROVED EQUAL	250-AA 14x12	SEE PLAN-HAY
D	SUPPLY	CEILING	O.B.D.	TTUS OR APPROVED EQUAL	250-AA 6x6	SEE PLAN
E	SUPPLY	CEILING	O.B.D.	TTUS OR APPROVED EQUAL	250-AA 6x6	SEE PLAN
F	SUPPLY	CEILING	O.B.D.	TTUS OR APPROVED EQUAL	250-AA 14x12	SEE PLAN
AA	RETURN	CEILING	-	TTUS OR APPROVED EQUAL	HLR-34 4'-0" (3) SLOT	SEE PLAN
BB	RETURN	CEILING	-	TTUS OR APPROVED EQUAL	350FL 20X20	SEE PLAN
CC	RETURN	CEILING	-	TTUS OR APPROVED EQUAL	350FL 12X10	SEE PLAN
DD	RETURN	CEILING	-	TTUS OR APPROVED EQUAL	350FL 12x12	SEE PLAN
AIR TERMINAL NOTES: 1) STANDARD FINISH TO BE WHITE FOR ALL DEVICES. 2) ALL DIFFUSER TYPES MIGHT NOT BE USED. 3) PROVIDE INSULATION ON THE BACK OF DIFFUSER IF IN UNCONDITIONED SPACE 4) PROVIDE VOLUME CONTROL DAMPERS FOR ALL RETURN GRILLES OR REGISTERS FOR BALANCED AIRFLOW. 5) DIFFUSERS & RETURN GRILLES TO BE MADE OF ALUMINUM. 6) PROVIDE SURFACE MOUNT HARDWARE IN ALL INACCESSIBLE CEILING SYSTEM. 7) CONTRACTOR SHALL COORDINATE WITH OWNER FOR DIFFUSER SPECIFICATIONS BEFORE PURCHASING.						



NEW HOUSE FOR:
BHAGWANSINGH HOUSE
8100 SW 120TH STREET
PINECREST, FL 33156

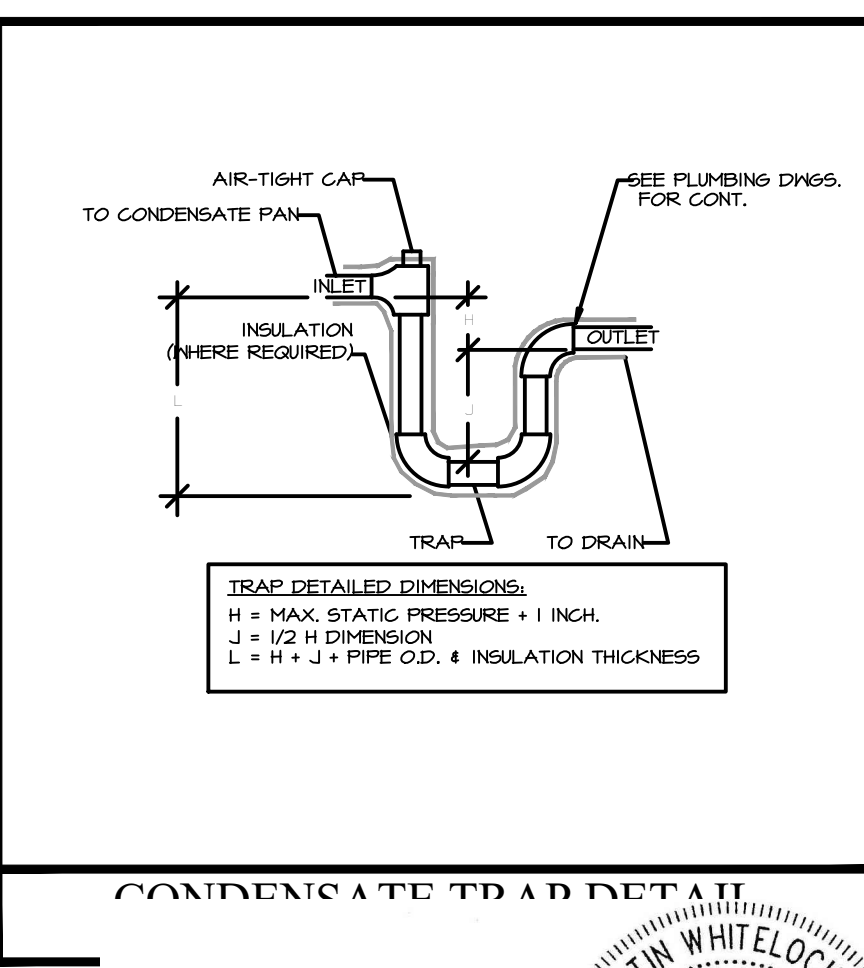
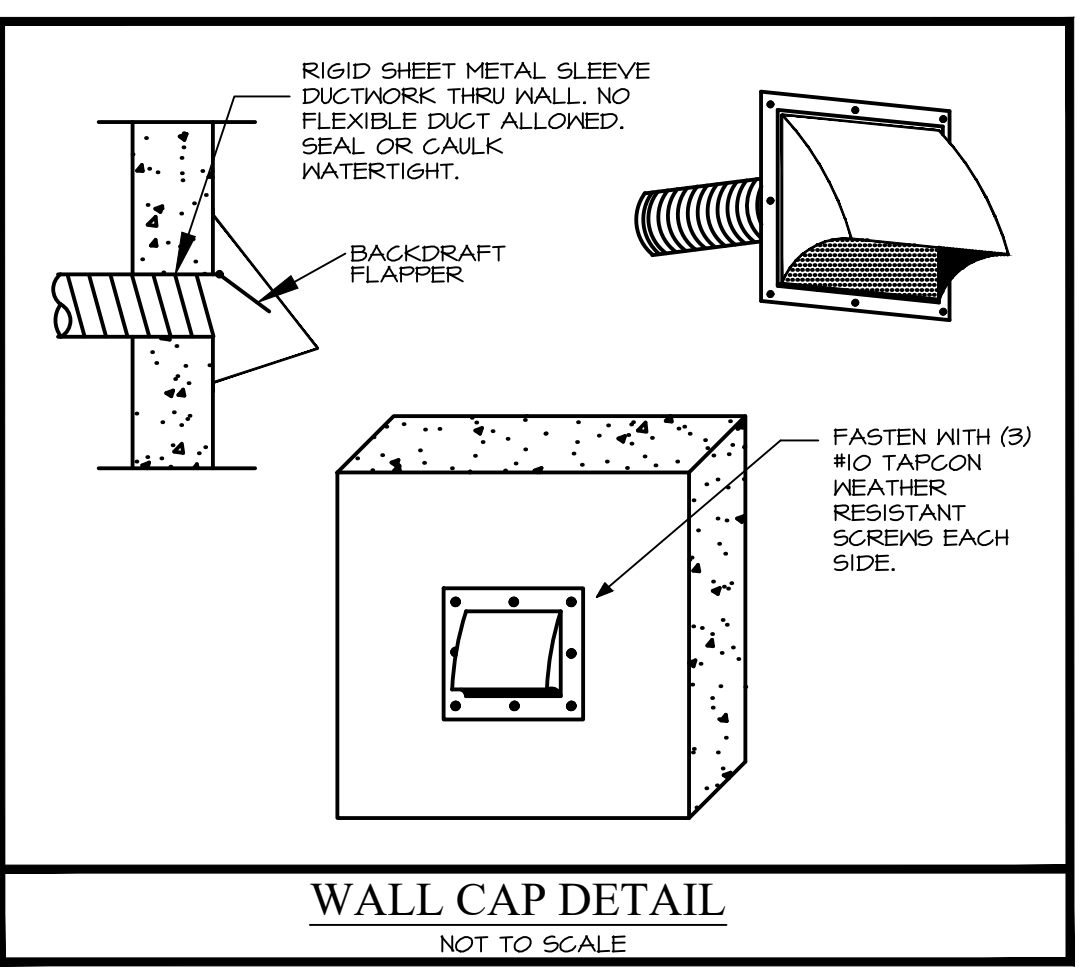
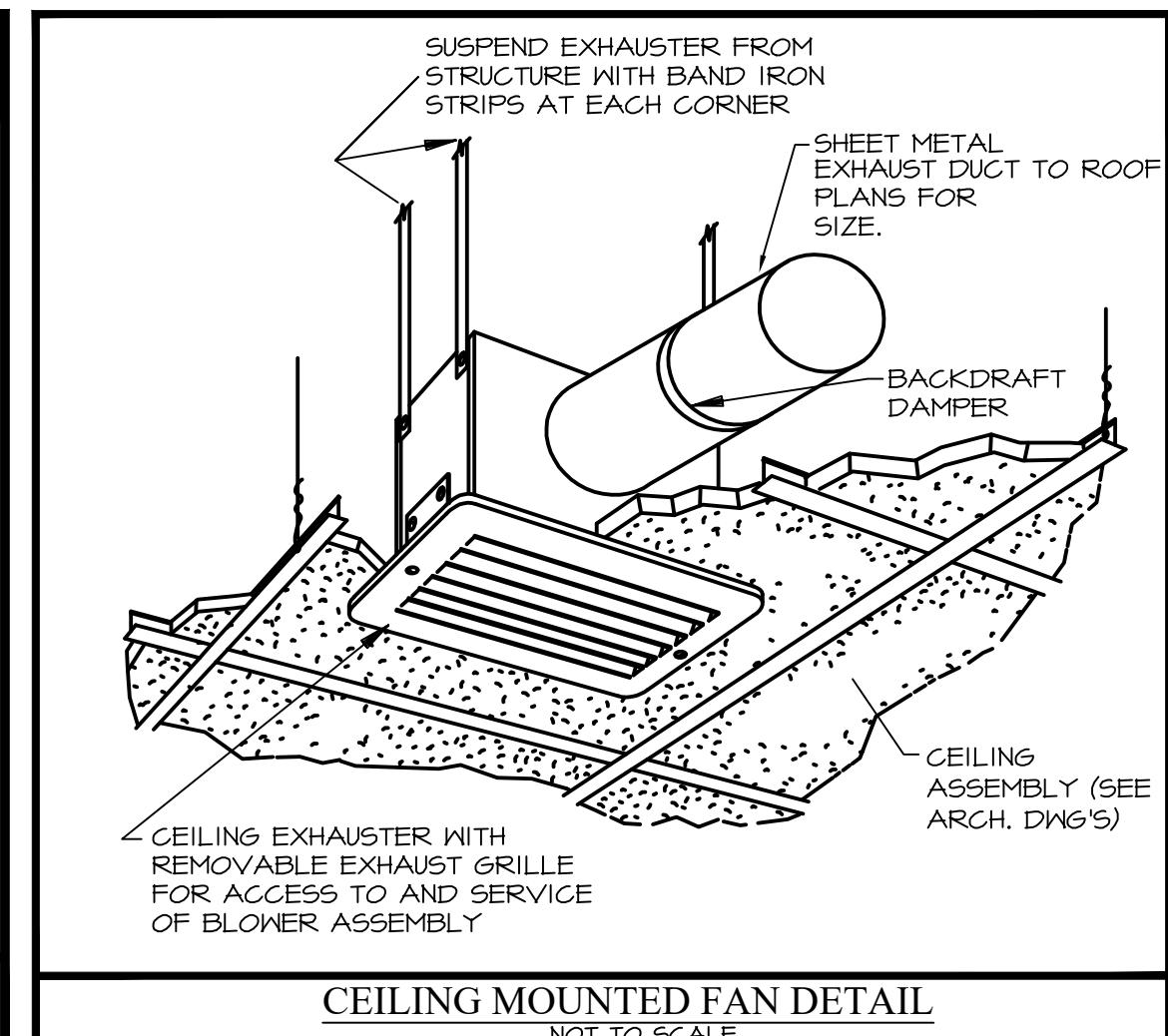
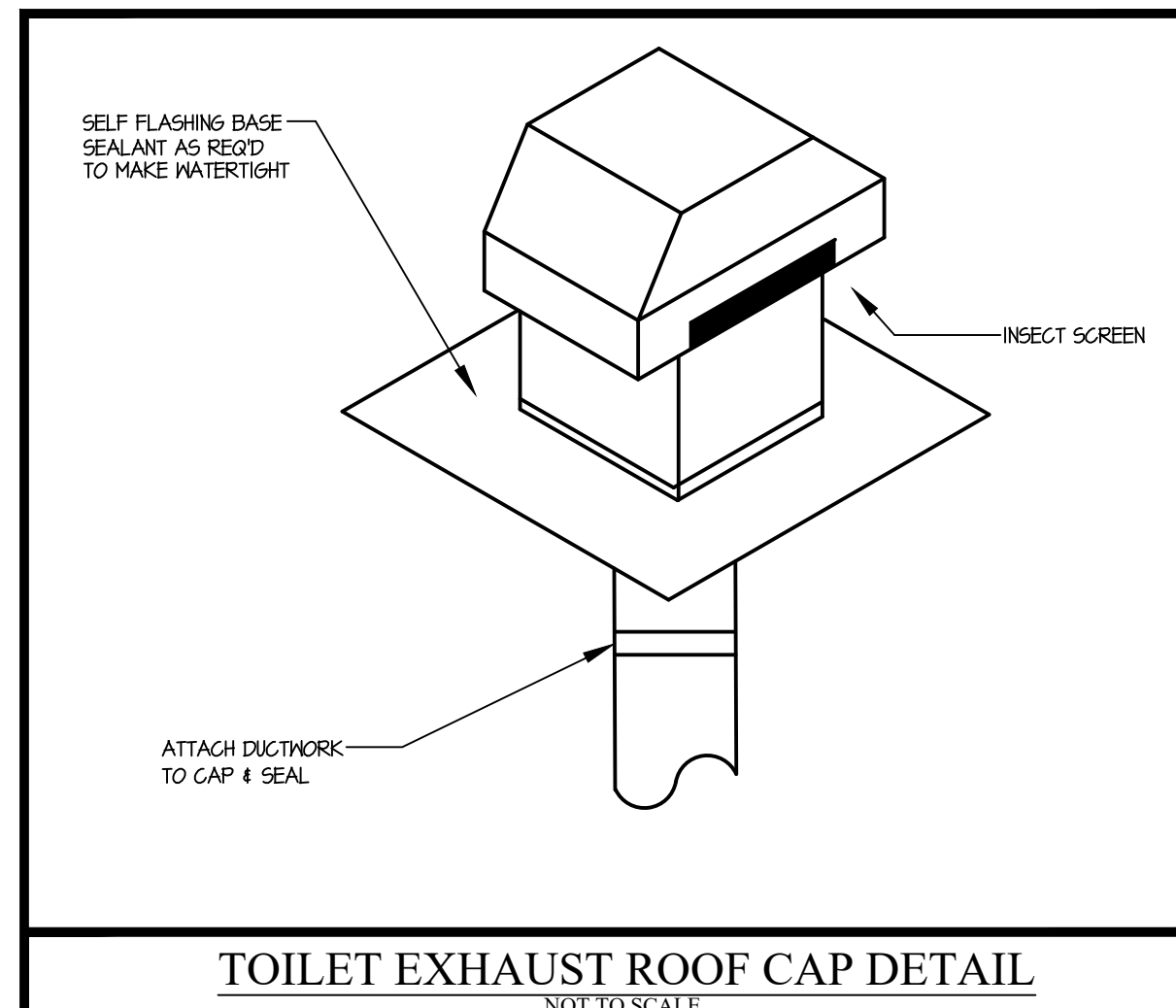
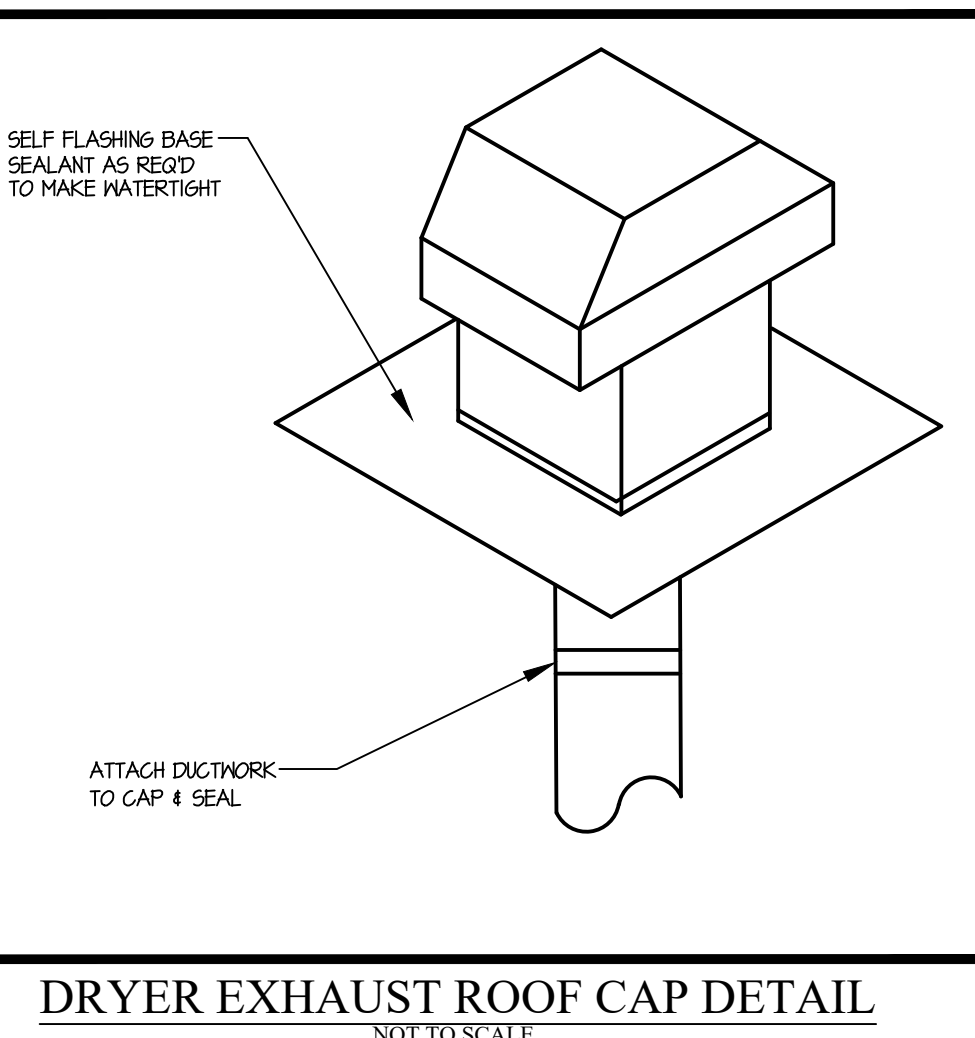
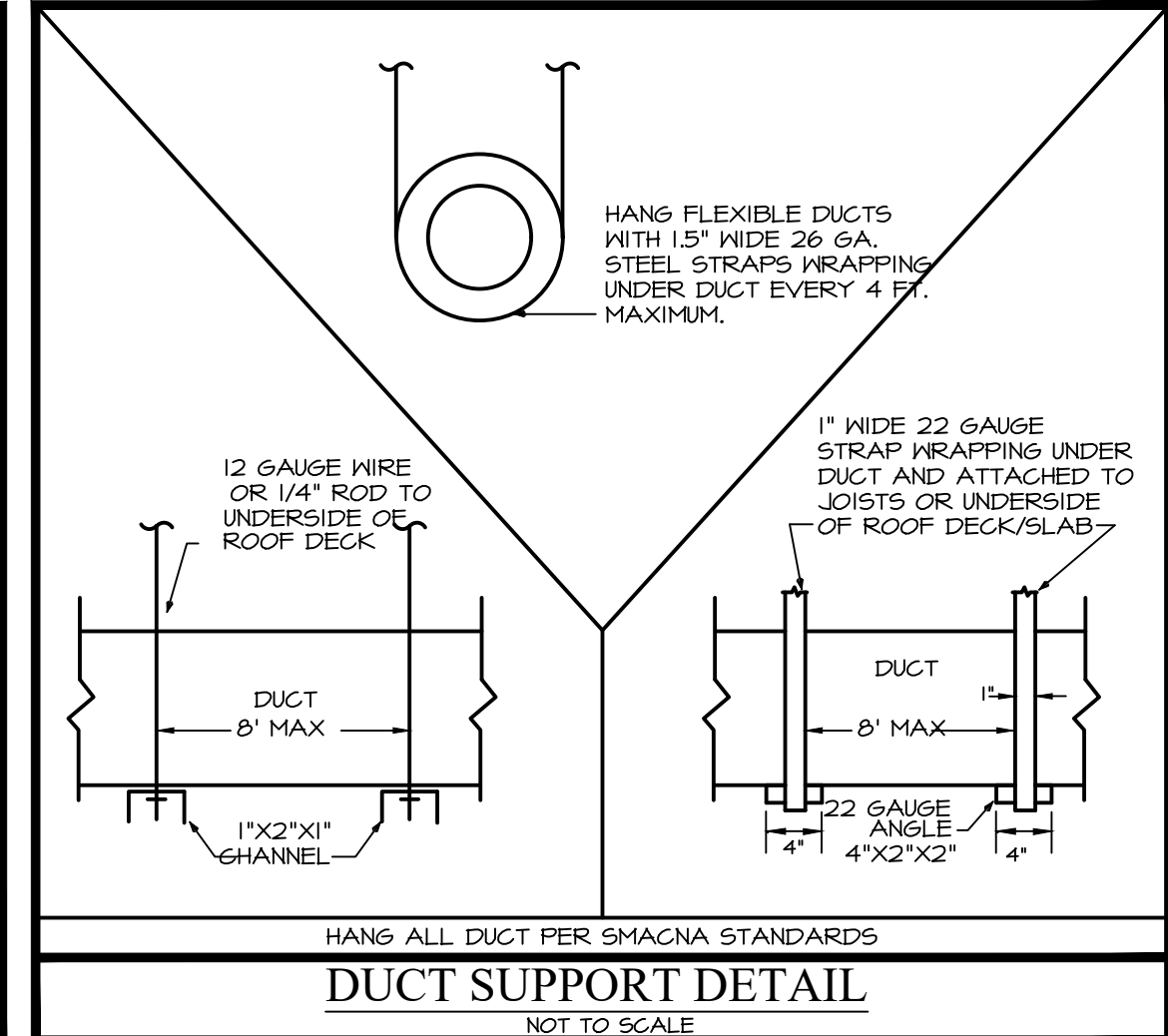
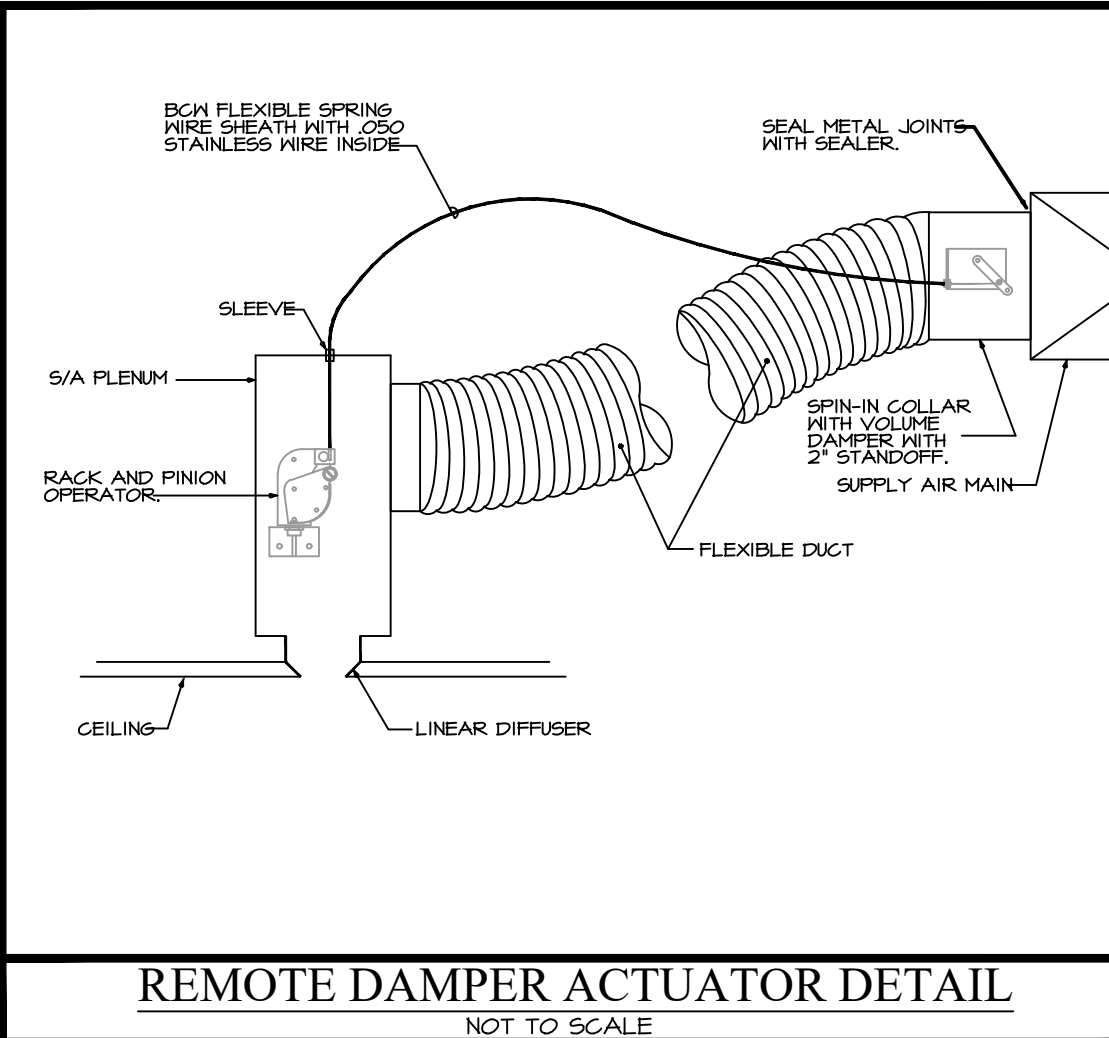
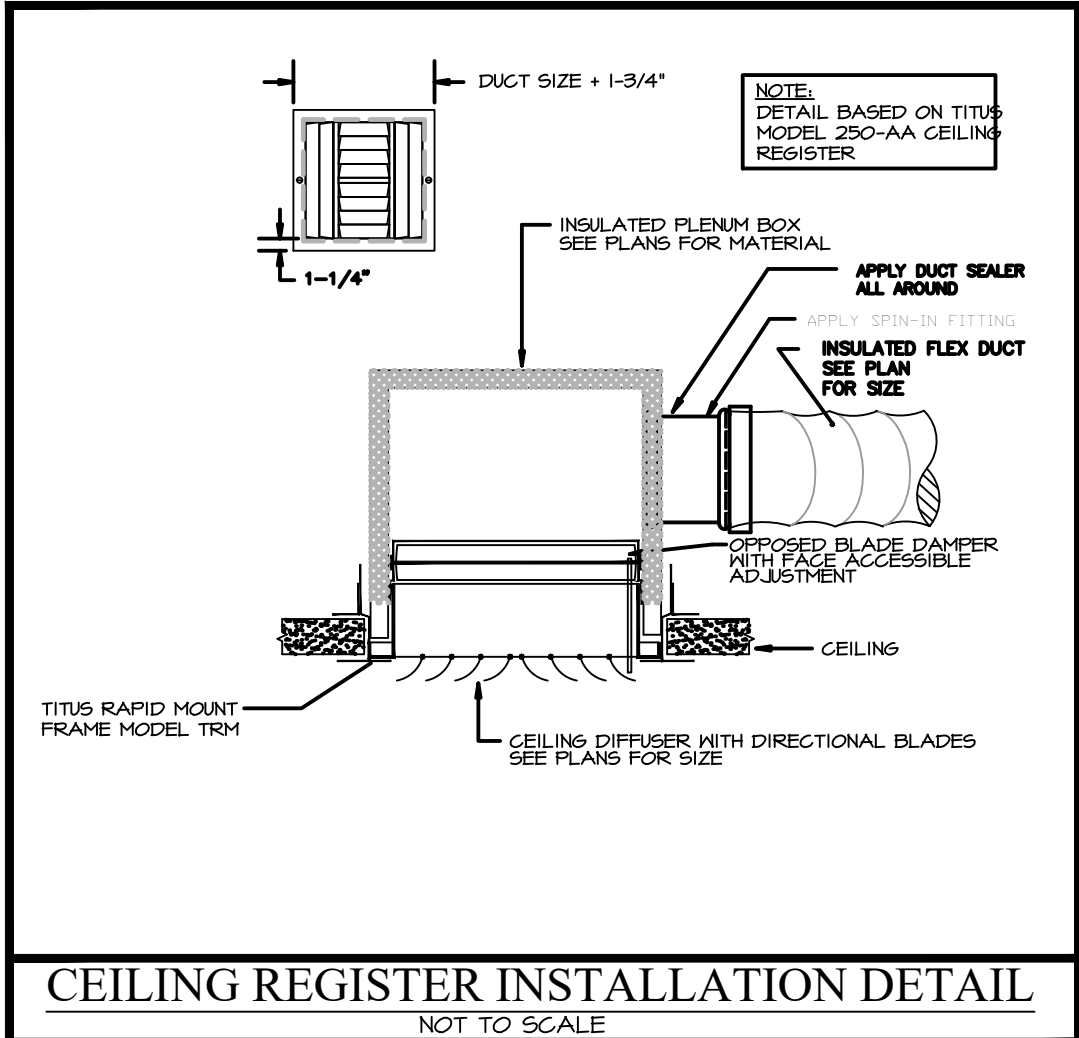
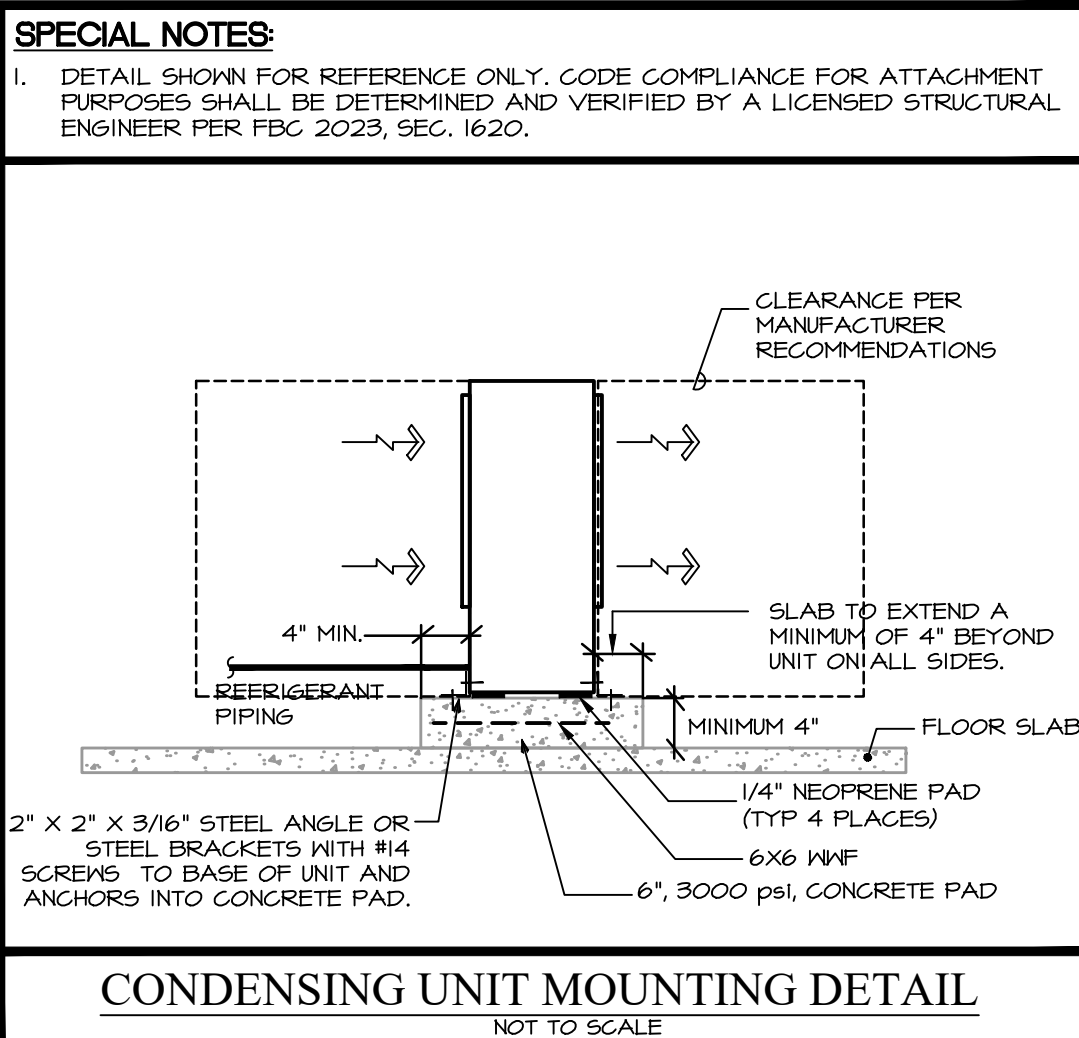
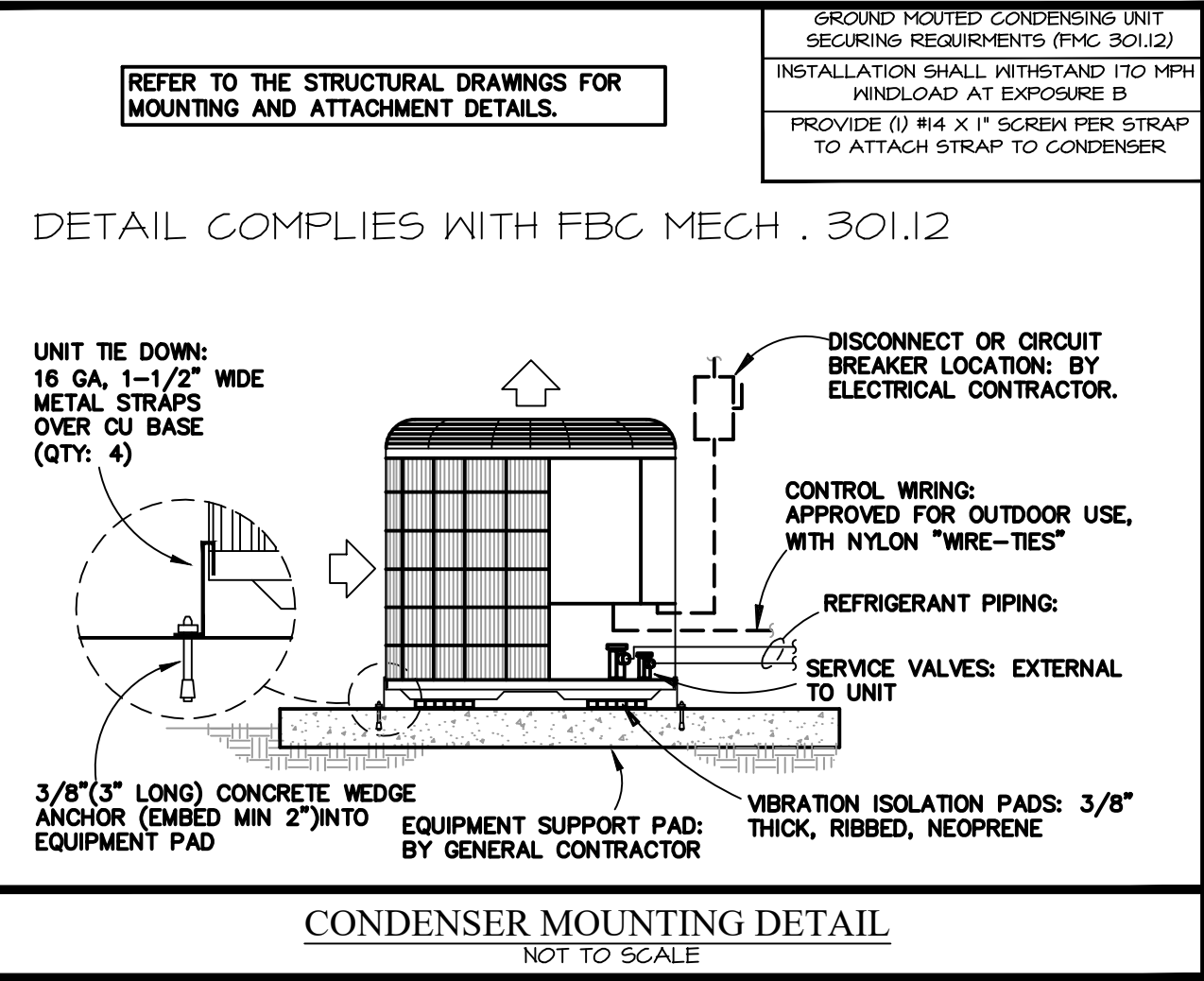
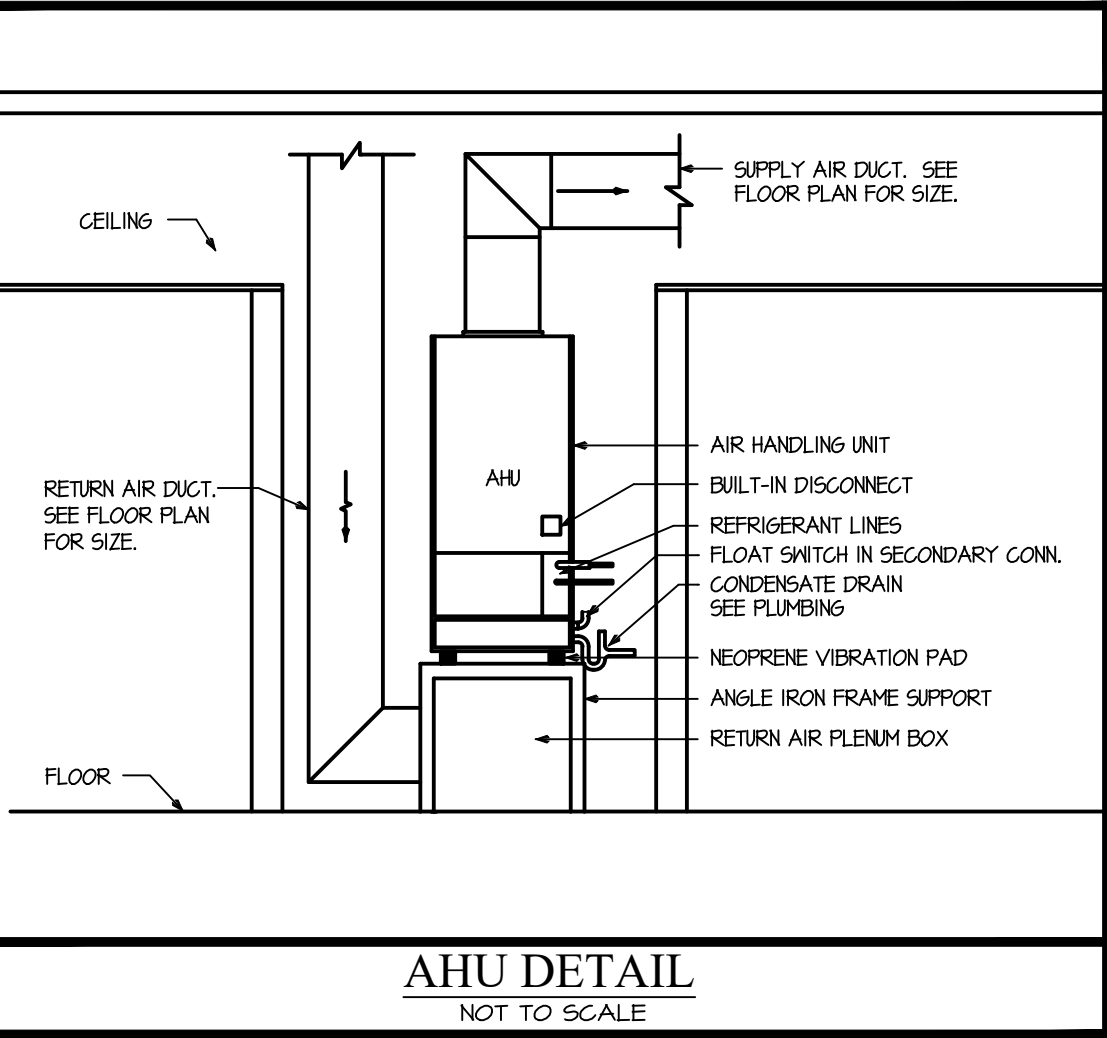
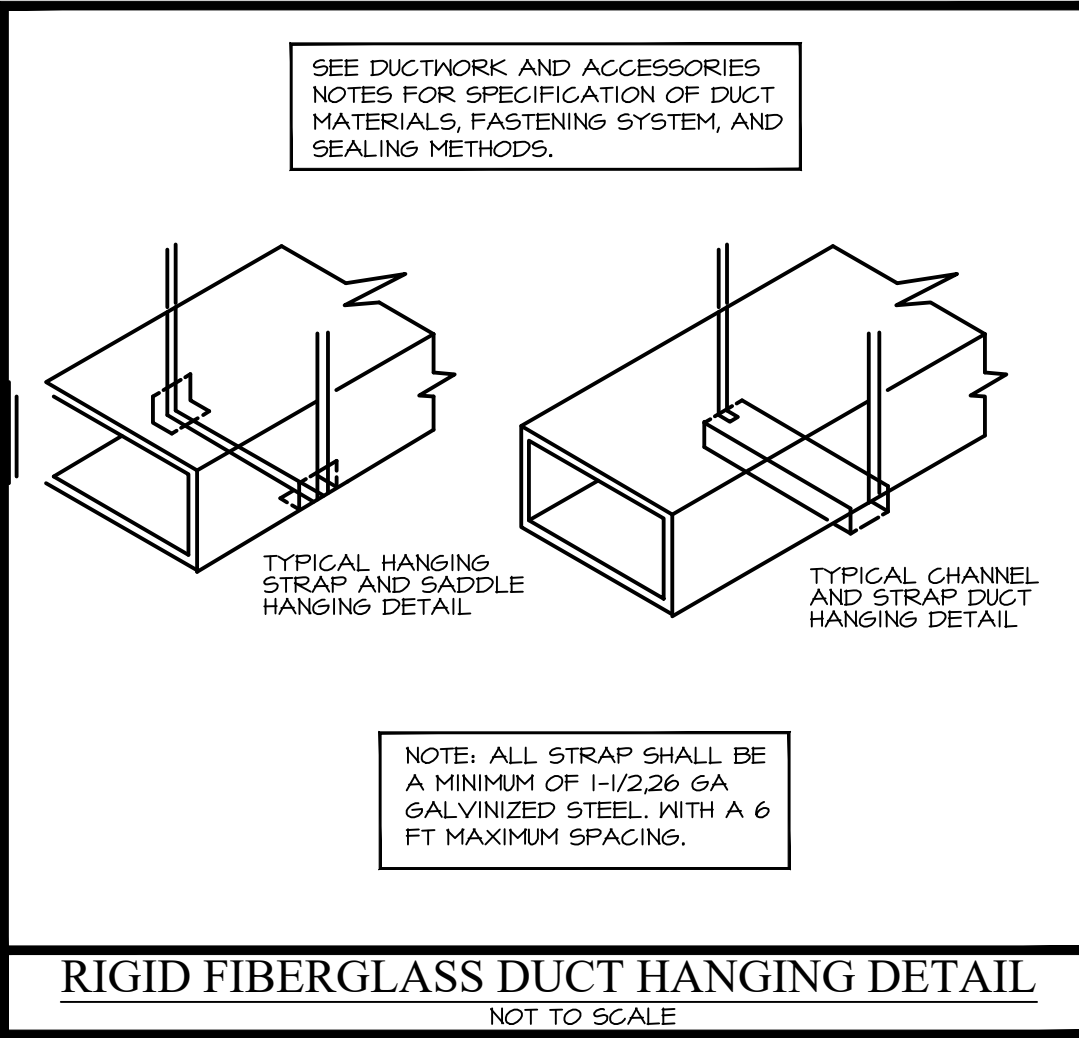
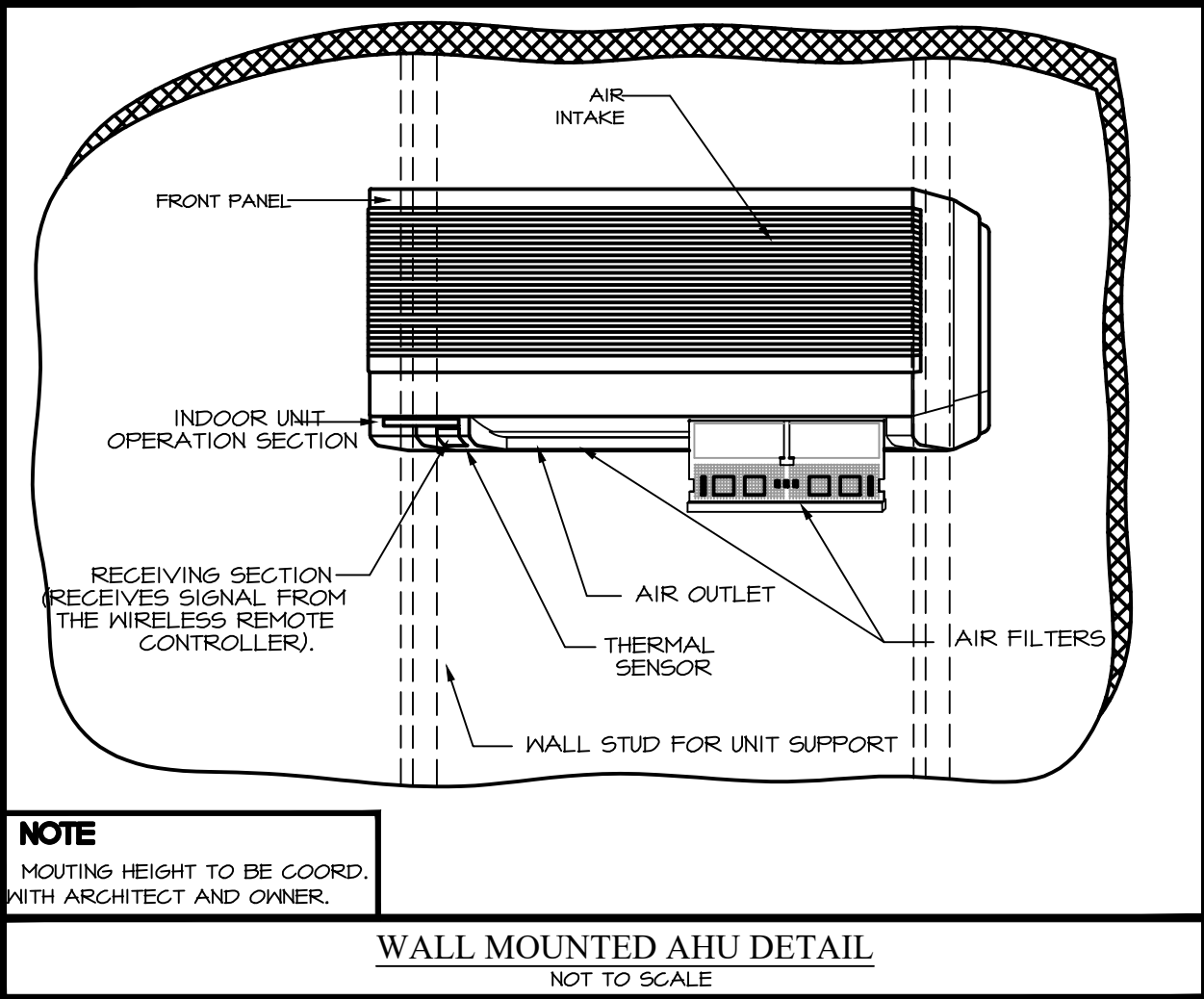
JOHN SHERMAN REED
ARCHITECT
FL LICENSE # AR05171

JSR DESIGN GROUP INC.
11 WEST CAMINO REAL, SUITE 101
BOCA RATON, FL 33432
TEL: 561-667-7203
FAX: 561-667-7203

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3. Contractor to verify and approve all shop drawings and dimensions before having drawings reviewed and accepted by the architect prior to construction.

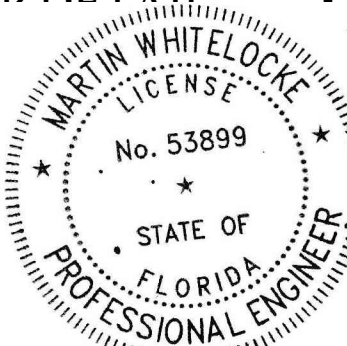
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HVAC DETAILS, N.T.S.

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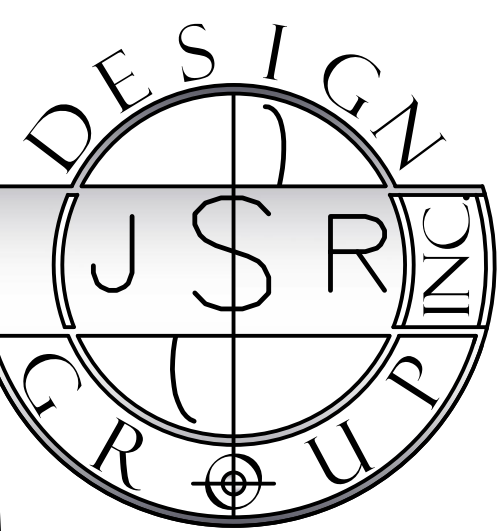
DRAWING ISSUED FOR: PERMIT
NUMBER: 2024-085 DATE: 02/25/2024

ENGINEER OF RECORD
MARTIN WHITELOCKE
FLORIDA LICENSE NO. 53899

3/4/2025
DATE

Whitelocke & Williams
CONSULTING ENGINEERS, LLC

18446 OLD PRINCETON LANE,
BOCA RATON, FL 33418
TEL: 561-103-0625
FAX: 561-691-8100
EMAIL: INFO@WHITELOCKE.COM
CERTIFICATE OF AUTHORIZATION # 24016



NEW HOUSE FOR:
BHAGWANSINGH HOUSE
8100 SW 120TH STREET
PINECREST, FL 33156

JOHN SHERMAN REED
ARCHITECT
FL LICENSE # AR0571

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