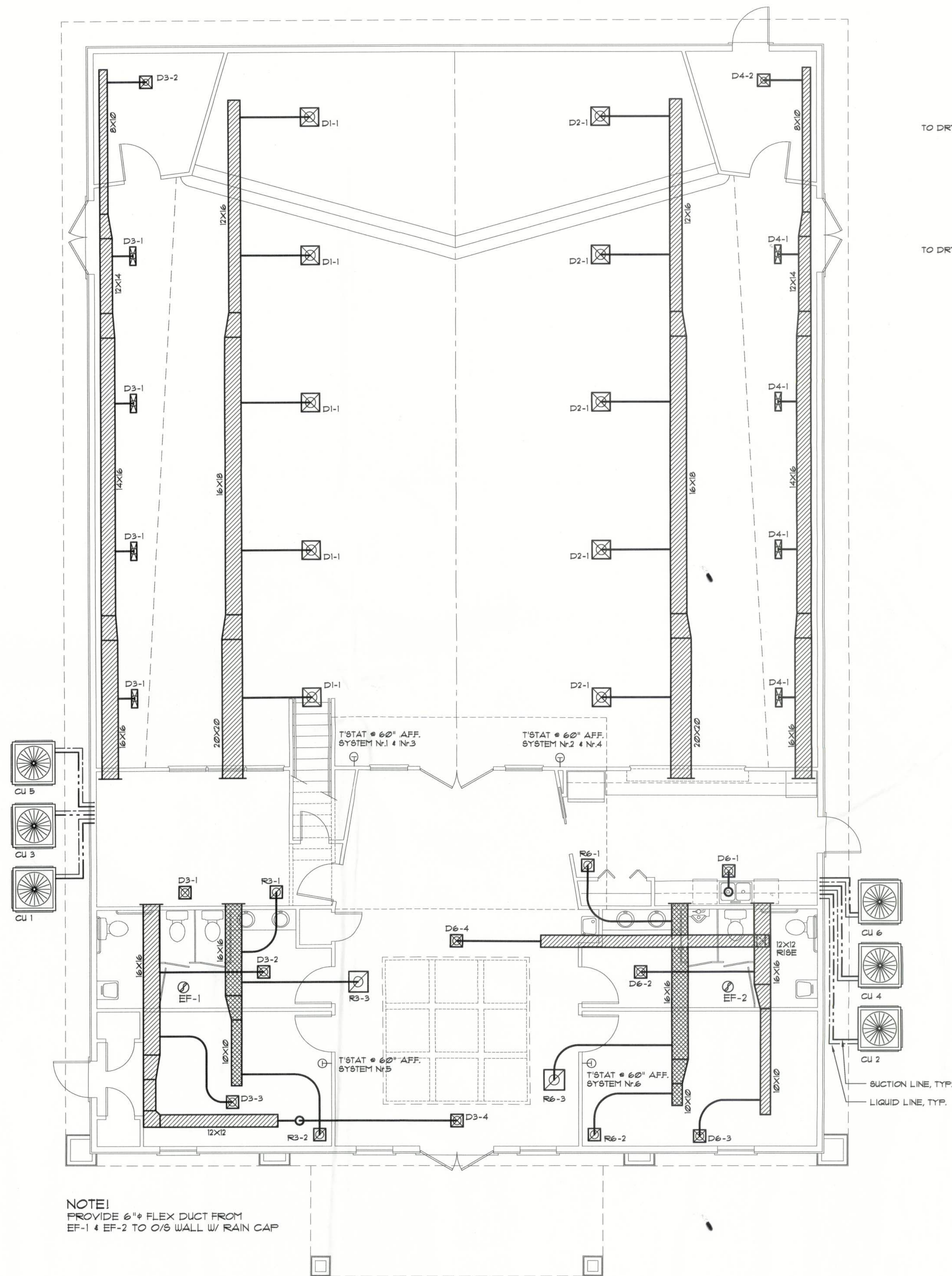


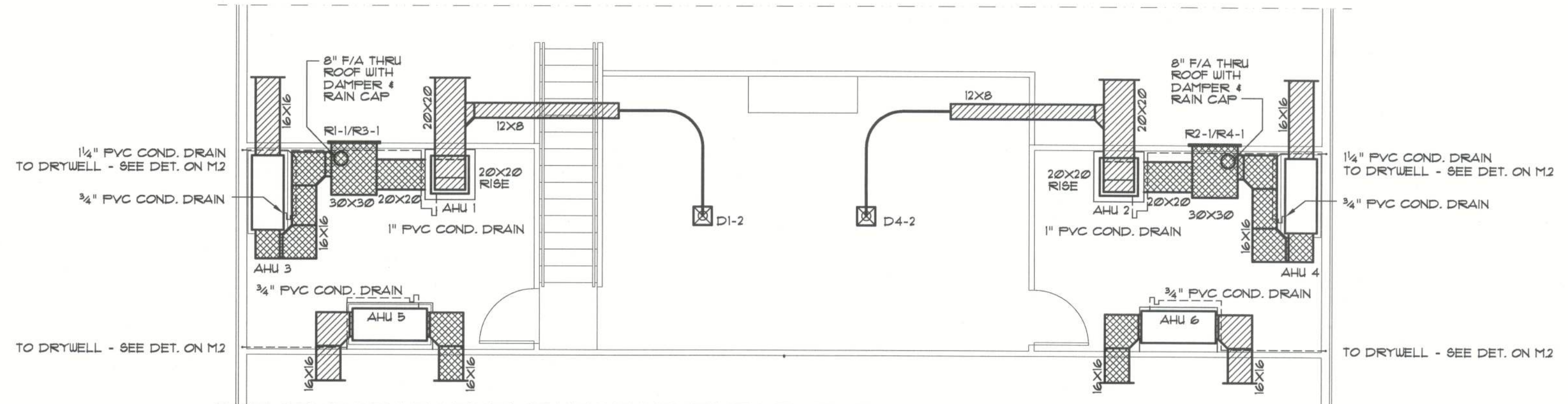
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H. V. A. C. PLAN
SCALE: 3/16" = 1'-0"

NOTE:
PROVIDE A PROGRAMMABLE THERMOSTAT W/ HUMIDISTAT IN EACH ZONE LOCATED 5'-0" AFF. AND WITHIN THE RETURN STREAM OF THE SYSTEM IT CONTROLS - TYPICAL, 6 SYSTEMS

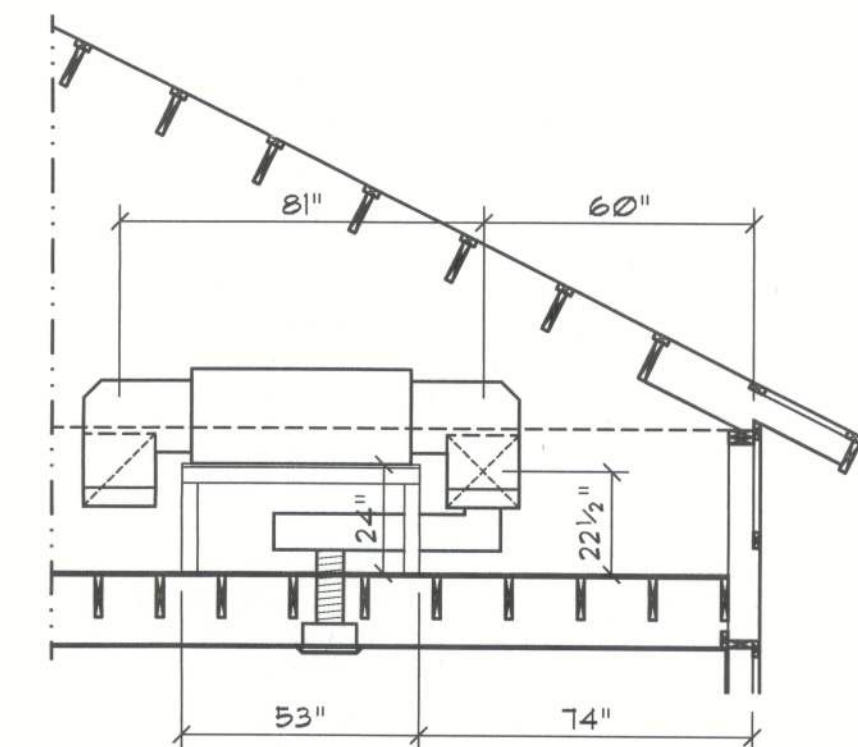
NOTE:
DUCTWORK TO BE RUN IN TRUSSES IS SUGGESTED - SIZES, LOCATIONS, TURNS AND OTHER CHARACTERISTICS OF THE DUCT INSTALLATION WILL REQUIRE FIELD ADJUSTMENTS / MODIFICATIONS AS NEEDED TO ACCOMMODATE THE STRUCTURAL MEMBERS AND LIMITATIONS



**MEZZANINE
H. V. A. C. PLAN**
SCALE: 3/16" = 1'-0"

GENERAL H.V.A.C. NOTES:

- SUB-CONTRACTORS PROVIDING HVAC INSTALLATION SHALL BE SUBJECT TO THE PROVISIONS OF NOTES 1 THRU 6, GENERAL NOTES/D.1a.
- HVAC SUB-CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT TO INSTALL A COMPLETE & OPERATING HVAC SYSTEM.
- HVAC SYSTEM SHALL BE AS DETAILED IN THE PLANS (IF INCLUDED), OR SHALL BE AS DIRECTED BY THE OWNER IN CONSULTATION WITH THE HVAC SUB-CONTRACTOR.
- HVAC SUB-CONTRACTOR SHALL FURNISH SHOP DUGS FOR DUCTWORK, CONDENSING UNIT & AIR HANDLER, EXHAUST FANS AND AIR DEVICES.
- IT IS THE HVAC SUB-CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH NFPA-90A AND ALL APPLICABLE CODES.
- FLEXIBLE DUCT SHALL BE FULLY ANNEALED, CORRUGATED ALUMINUM W/ 1 3/4 LB. DENSITY FIBERGLASS INSULATION AND SHALL BE U.L. LISTED. SHEET METAL DUCT SHALL BE LINED W/ 1" MATFACED DUCT LINER & WRAPPED W/ 1 3/4 LB. FOILFACED FIBERGLASS INSULATION. ALL FIBERGLASS DUCT SHALL BE FOILFACED, R4.2/R6.0 DUCTBOARD.
- ALL EXHAUST AND OUTSIDE AIR DUCT SHALL BE GALVANIZED SHEET METAL CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHREA AND SMACNA STANDARDS.
- ALL AIR DEVICES SHALL BE OF ALUMINUM CONSTRUCTION FOR WALL AND CEILING APPLICATIONS AND STEEL CONSTRUCTION IN FLOOR APPLICATIONS. ACCEPTABLE MANUFACTURERS SHALL BE TITUS, METALAIR, NAILORHART, HART & COOLIE OR AS DIRECTED BY THE OWNER.
- IF REQUIRED BY THE OWNER, THE HVAC SUB-CONTRACTOR SHALL SUPPLY A TEST AND BALANCE REPORT IN ACCORDANCE WITH AIR BALANCE COUNCIL STANDARDS, SIGN AND SEALED BY A REGISTERED ENGINEER.
- HVAC SUB-CONTRACTOR SHALL SUPPLY ALL CONTRACTORS, RELAYS, AND THERMOSTATS. THE ELECTRICAL SUB-CONTRACTOR SHALL PROVIDE ALL SWITCHES, DISCONNECTS & CONTROL WIRING. THERMOSTATS SHALL BE APPROVED BY THE EQUIPMENT MFG.
- ALL DUCT SIZES INDICATED IN THE PLANS (IF INCLUDED) ARE NET INSIDE DIMENSIONS.
- ALL EQUIPMENT SHALL BE FULLY WARRANTED FOR 1 YEAR AND THE COMPRESSOR(S) SHALL BE WARRANTED 5 YEARS FROM DATE OF FINAL ACCEPTANCE, BY THE OWNER.
- ALL WORK IN THIS TRADE SHALL BE COORDINATED WITH ALL OTHER TRADES SO AS TO AVOID CONFLICTS OR HINDERANCE TO COMPLETION OF THE JOB.
- CONDENSATE DRAIN PIPING SHALL BE INSULATED WITH 1/2" THICK ARMAFLEX INSULATION.
- FILTERS SHALL BE DISPOSABLE TYPE AND HAVE INITIAL SHARE WEIGHT ARRESTANCE OF 10% AND A CLEAN PRESSURE DROP OF 0.15. PROVIDE 2 SETS, ONE DURING CONSTRUCTION AND ONE FOR USE AT FINAL ACCEPTANCE.
- HVAC SUB-CONTRACTOR SHALL PROVIDE & INSTALL ALL NECESSARY OFFSETS, TRANSITIONS & BENDS REQUIRED TO PROVIDE A COMPLETE SYSTEM AT NO ADDITIONAL COST TO THE OWNER.
- IT IS THE RESPONSIBILITY OF THE HVAC SUB-CONTRACTOR TO CO-ORDINATE LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS IN THE FIELD WITH THE ELECTRICIAN, LIGHTS AND ARCHITECTURAL ELEMENTS.
- COORDINATE W/ THE ELECTRICIAN, PARTICULARLY ELECTRICAL NOTE N. 23, TO ASSURE SUITABLE SIZES OF BREAKERS, SWITCHES AND WIRING.



**AHU Nr. 5 & 6
DETAIL**
SCALE: 3/8" = 1'-0"

NOTE:
H.V.A.C. CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL H.V.A.C. WORK, INCLUDING ALL DUCTWORK LOC., SIZES, LINES, EQUIPMENT SCH. & BALANCING REPORT - CONTR. SHALL PROVIDE 1 COPY OF AS-BUILT DUGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.

NOTE:
MOUNT CU & AHU ON 4" THK. CONC. PAD, SIZED TO EXTEND 4" BEYOND EQUIPMENT, ALL AROUND. SECURE EQUIPMENT W/ STL. STRAPS & TEC SCREWS @ EACH CORNER. REINF. SLAB W/ 6X6 10/10 WWM.

NOTE:
PROVIDE TURNING VANES @ DUCT TURNS & ADJ. EXTRACTORS @ ALL BRANCH DUCT TAPS

NOTE:
PROVIDE A 20 GA. GALV. MTL DRAIN PAN SIZED 4" LONGER AND WIDER THAN AHU X 2" DP, W/ 3/4" PVC DRAIN TO DRIP OVER THE RESTROOM LAVATORY.

DIFFUSER SCHEDULE

MK	MK	CFM	SIZE	STYLE	PATN	FLEX	LOCATION
D1-1/D4-1	360	CFM	18X18	S/A	4W	10"	CEILING
D1-2/D4-2	200	CFM	12X12	S/A	4W	8"	CEILING
D2-1/D5-1	360	CFM	8X24	S/A	3W	10"	CEILING
D2-2/D5-2	160	CFM	12X12	S/A	4W	8"	CEILING
D3-1	260	CFM	14X14	S/A	3W	8"	CEILING
D3-2	200	CFM	12X12	S/A	1W	8"	CEILING
D3-3	280	CFM	14X14	S/A	4W	8"	CEILING
D3-4	460	CFM	18X18	S/A	3W	12"	CEILING
D6-1	320	CFM	14X14	S/A	2W	10"	CEILING
D6-2	280	CFM	12X12	S/A	4W	8"	CEILING
D6-3	280	CFM	14X14	S/A	4W	10"	CEILING
D6-4	400	CFM	18X18	S/A	3W	12"	CEILING

GRILLE SCHEDULE

MK	CFM	SIZE	STYLE	PATN	FLEX	LOCATION
R1-1/R3-1	3600	CFM	30X30	R/A	-	WALL
R4-1/R5-1	3600	CFM	30X30	R/A	-	WALL
R3-1	200	CFM	12X12	R/A	-	CEILING
R3-2	280	CFM	14X14	R/A	-	CEILING
R3-3	460	CFM	18X18	R/A	-	CEILING
R6-1	320	CFM	14X14	R/A	-	CEILING
R6-2	280	CFM	14X14	R/A	-	CEILING
R6-3	400	CFM	18X18	R/A	-	CEILING

REVISION:

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WORSHIP CENTER for:
CROSS POINT COMMUNITY CHURCH
COLUMBIA COUNTY, FLORIDA
HVAC PLAN

Calculating Services
40 Years of Experience
1972-2012
N.P. Geisler, Architect
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02 Aug 2012
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