

- DEMOLITION NOTES
- 1 EXISTING TO REMAIN FCU. EXISTING CORRESPONDING CONDENSING UNIT ON ROOF (NOT SHOWN) TO REMAIN. MC TO CLEAN EVAPORATOR AND CONDENSER COILS, CHECK REFRIGERANT CHARGE, CHECK HEAT EXCHANGER. VERIFY UNIT OPERATION, PROVIDE WRITTEN REPORT.
 - 2 MC TO DEMOLISH EXISTING DUCTWORK / DIFFUSER / GRILLE DEVICE AS SHOWN. MC TO DEMOLISH TO NEAREST ACTIVE BRANCH AND CAP / CONNECT TO NEW AS SHOWN ON NEW PLANS.
 - 3 EXISTING TO REMAIN DUCTWORK.
 - 4 EXISTING TO REMAIN OAF
 - 5 EXISTING EXHAUST DUCTWORK TO REMAIN. EXISTING ROOF MOUNTED EXHAUST FAN (NOT SHOWN) TO REMAIN.
 - 6 MC TO RELOCATE EXISTING THERMOSTAT. REFER TO M1 FOR LOCATION.

DEMO HVAC PLAN
 SCALE: 3/16"=1'-0"
 NORTH

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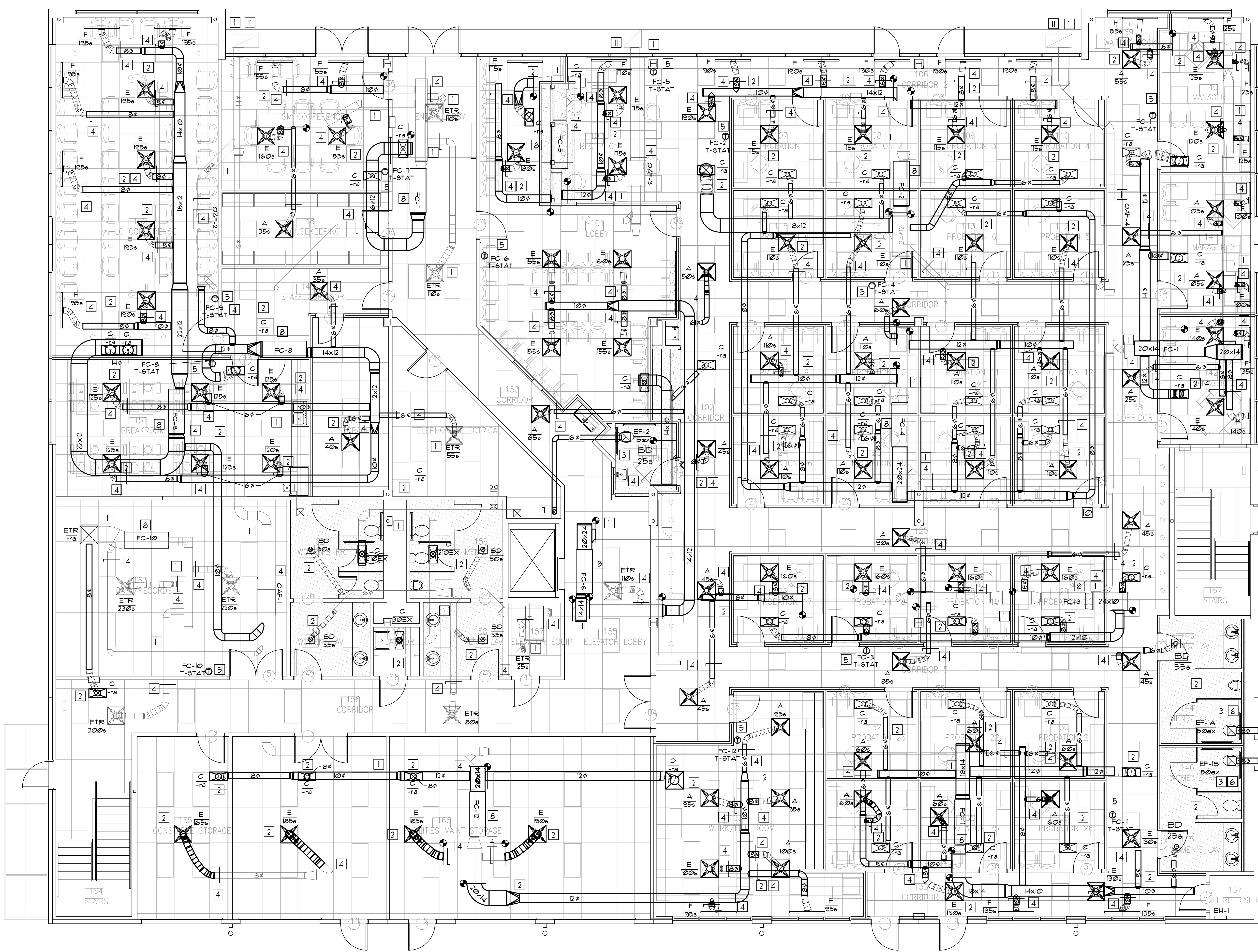
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PROJECT
JUVENILE PROBATION
 PARK PLAZA DEVELOPMENT
 920 E. PARK BOULEVARD
 PLANO, TEXAS 75074

Rev.	Description	Date
1	FOR PERMIT	09/19/2014

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 Drawing Title

MECHANICAL DEMO PLANS			
Drawing No. DM1			
Scale	Dwg By: D.J. ET. FA	Check By: CB	240002

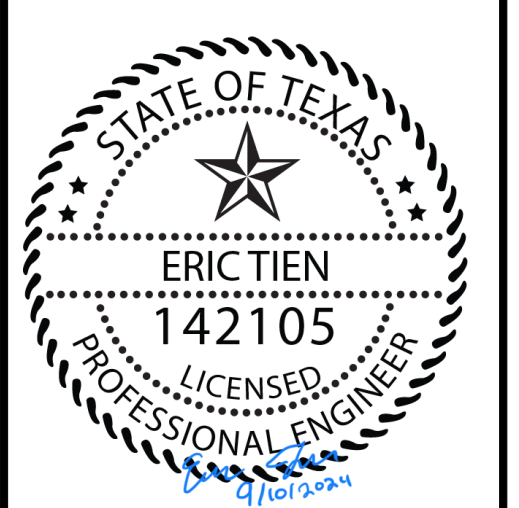


1 HVAC PLAN
SCALE: 3/16"=1'-0"

DRAWING LEGEND	
DETAIL	DESCRIPTION
	SUPPLY DIFFUSER WITH RIGID ROUND ELBOW CONNECTION AND INSULATED FLEXIBLE DUCT RUNOUT
	RETURN GRILLE WITH RIGID ROUND ELBOW CONNECTION AND INSULATED FLEXIBLE DUCT RUNOUT
	FAN (EXHAUST, TRANSFER, ETC.) REFER TO SCHEDULE
	THERMOSTAT (FOR FURNACE, RTU ETC.)
	SPACE TEMPERATURE SENSOR (DUCT MOUNTED UNLESS NOTED OTHERWISE)
	SMOKE DUCT DETECTOR
	HUMIDITY SENSOR (DUCT MOUNTED UNLESS SHOWN / NOTED OTHERWISE)
	CO2 SENSOR (DUCT MOUNTED UNLESS SHOWN / NOTED OTHERWISE)
	MOTORIZED DAMPER
	RECTANGULAR OR ROUND SUPPLY OR RETURN DUCT (AS NOTED)
	ROUND INSULATED FLEXIBLE DUCT
	LOCKING MANUAL BALANCE DAMPER
	RECTANGULAR TAKE-OFF FROM LOCKING DAMPER
	ROUND TAKE-OFF FROM RECTANGULAR DUCT WITH LOCKING VOLUME DAMPER
	TURNING VANES (DOUBLE WALLED)
	DIFFUSER DESIGNATION S: SUPPLY AIR R: RETURN AIR E: EXHAUST AIR O: OUTSIDE AIR F: EXISTING TO REMAIN

- NEW MECHANICAL NOTES
- 1 EXISTING TO REMAIN DUCTWORK. REWORK WITH NEW WALL / CEILING / FLOOR AS NEEDED.
 - 2 NEW MECHANICAL DEVICE. MC TO FURNISH AND INSTALL NEW DUCTWORK, FLEX, AND TRANSITIONS AS NEEDED. DUCTWORK / FLEX FREE AREA SIZE INDICATED ON PLANS. FLEX NOT TO EXCEED 6'. MC TO FURNISH AND INSTALL PREMIUM LOCKING QUADRANT DAMPER PER SUPPLY / EXHAUST DIFFUSER / GRILLE UNLESS DAMPER INCLUDED IN DIFFUSER / GRILLE. MC TO FURNISH AND INSTALL LAY-IN OR DRYWALL CEILING ADAPTER AS NEEDED.
 - 3 MC TO INSTALL NEW CEILING MOUNTED EXHAUST FAN. MC TO TERMINATE EXHAUST THROUGH ROOF / EXTERIOR WALL.
 - 4 MC TO FURNISH AND INSTALL PREMIUM LOCKING DAMPER TO ALL DIFFUSERS ABOVE GRID CEILING IN AREA AS SHOWN.
 - 5 MC TO RELOCATE EXISTING SPACE TEMPERATURE SENSOR TO LOCATION SHOWN AND PULL NEW WIRE.
 - 6 TERMINATE EXHAUST TO EXTERIOR WALL.
 - 7 RUN EXHAUST DUCTWORK UP THRU EXISTING CHASE ON SECOND FLOOR AND TERMINATE THROUGH ROOF.
 - 8 EXISTING TO REMAIN FCU.
 - 9 EF-2 TERMINATION THROUGH ROOF.
 - 10 ROUTE RETURN DUCTWORK OVER EXISTING OA DUCTWORK.
 - 11 EXISTING TO REMAIN OA LOUVERS.

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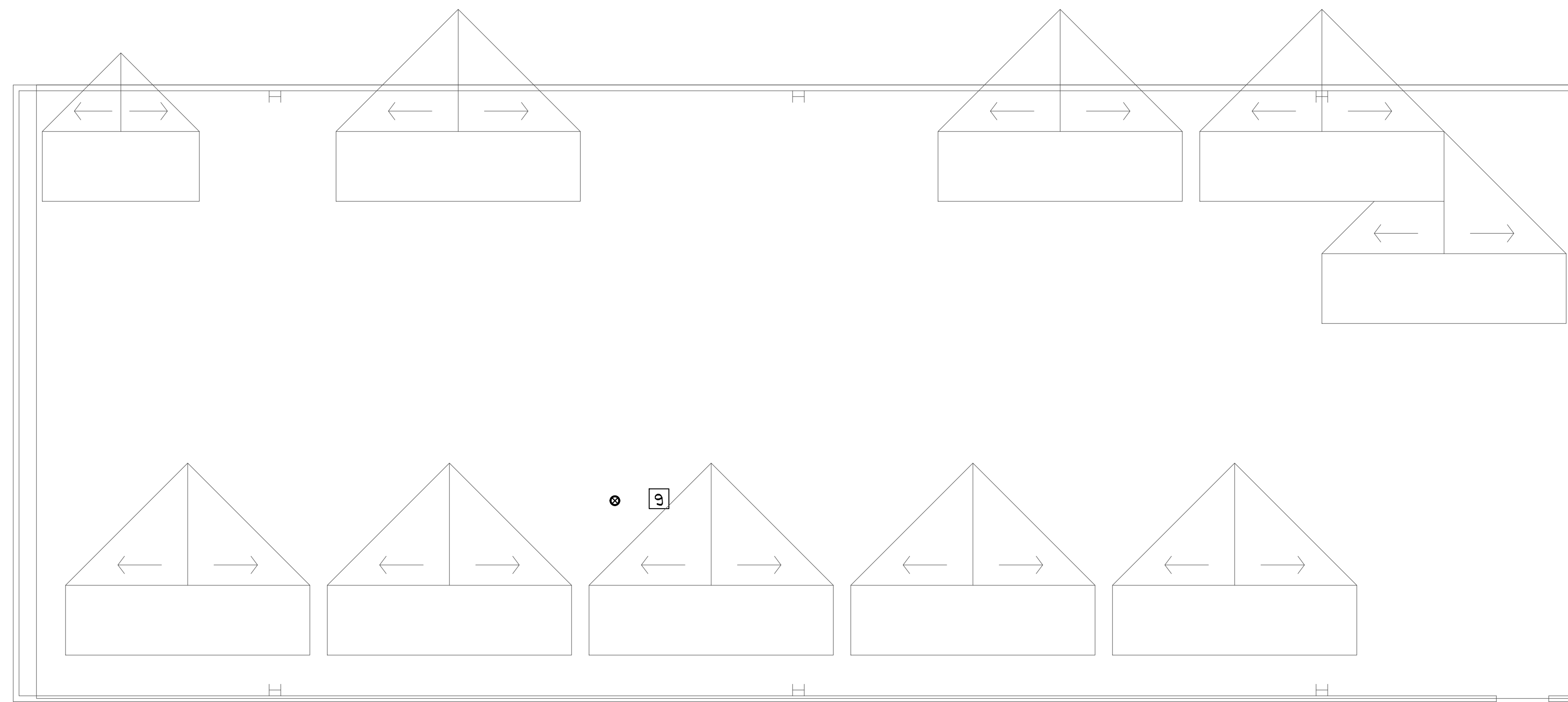
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Drawing Title

MECHANICAL PLANS			
Drawing No. M1			
Scale	Dwg By: D.J. ET. FA	Check By: CB	
	Comp. No. 201	201002	



ROOF
HVAC PLAN
SCALE: 3/16"=1'-0"
NORTH

DRAWING LEGEND	
DETAIL	DESCRIPTION
	SUPPLY DIFFUSER WITH RIGID ROUND ELBOW CONNECTION AND INSULATED FLEXIBLE DUCT RUNOUT
	RETURN GRILLE WITH RIGID ROUND ELBOW CONNECTION AND INSULATED FLEXIBLE DUCT RUNOUT
	FAN (EXHAUST, TRANSFER, ETC.) REFER TO SCHEDULE
	THERMOSTAT (FOR FURNACE, RTU, ETC.)
	SPACE TEMPERATURE SENSOR (DUCT MOUNTED UNLESS NOTED OTHERWISE)
	SMOKE DUCT DETECTOR
	HUMIDITY SENSOR (DUCT MOUNTED UNLESS SHOWN / NOTED OTHERWISE)
	CO2 SENSOR (DUCT MOUNTED UNLESS SHOWN / NOTED OTHERWISE)
	MOTORIZED DAMPER
	RECTANGULAR OR ROUND SUPPLY OR RETURN DUCT (AS NOTED)
	ROUND INSULATED FLEXIBLE DUCT
	LOCKING MANUAL BALANCE DAMPER
	RECTANGULAR TAKE-OFF FROM RECTANGULAR DUCT WITH LOCKING VOLUME DAMPER
	ROUND TAKE-OFF FROM RECTANGULAR DUCT WITH LOCKING VOLUME DAMPER
	TURNING VANES (DOUBLE WALLED)
	DIFFUSER DESIGNATION S: SUPPLY AIR, R: RETURN AIR, EX: EXHAUST AIR, O: OUTSIDE AIR, ETN: EXISTING TO RETURN

NEW MECHANICAL NOTES

- 1. EXISTING TO REMAIN DUCTWORK. REWORK WITH NEW WALL / CEILING / FLOOR AS NEEDED.
- 2. NEW MECHANICAL DEVICE. MC TO FURNISH AND INSTALL NEW DUCTWORK, FLEX, AND TRANSITIONS AS NEEDED. DUCTWORK / FLEX FREE AREA SIZE INDICATED ON PLANS. FLEX NOT TO EXCEED 6'. MC TO FURNISH AND INSTALL PREMIUM LOCKING QUADRANT DAMPER PER SUPPLY / EXHAUST DIFFUSER / GRILLE UNLESS DAMPER INCLUDED IN DIFFUSER / GRILLE. MC TO FURNISH AND INSTALL LAY-IN OR DRYWALL CEILING ADAPTER AS NEEDED.
- 3. MC TO INSTALL NEW CEILING MOUNTED EXHAUST FAN. MC TO TERMINATE EXHAUST THROUGH ROOF / EXTERIOR WALL.
- 4. MC TO FURNISH AND INSTALL PREMIUM LOCKING DAMPER TO ALL DIFFUSERS ABOVE GRID CEILING IN AREA AS SHOWN.
- 5. MC TO RELOCATE EXISTING SPACE TEMPERATURE SENSOR TO LOCATION SHOWN AND PULL NEW WIRE.
- 6. TERMINATE EXHAUST TO EXTERIOR WALL.
- 7. RUN EXHAUST DUCTWORK UP THRU EXISTING CHASE ON SECOND FLOOR AND TERMINATE THROUGH ROOF.
- 8. EXISTING TO REMAIN FCU.
- 9. EF-2 TERMINATION THROUGH ROOF.
- 10. ROUTE RETURN DUCTWORK OVER EXISTING OA DUCTWORK.
- 11. EXISTING TO REMAIN OA LOUVERS.

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Drawing Title MECHANICAL ROOF PLANS			
Drawing No. M2			
Scale	Dwg By D.J. ET. FA	Check By CB	240002

VENTILATION SCHEDULE PER IMC 2021

Main ventilation schedule table with columns: ROOM NUMBER, ROOM NAME, AREA (SF), OCCUPANCY CLASSIFICATION, APPLICABLE VENTILATION CODE, OCCUPANT COUNT, WATER CLOSET COUNT, BREATHING ZONE OA, ZONE AIR EFFECTIVENESS, DATE, ZONE OUTDOOR AIRFLOW, REQUIRED EXH, ROOM SUPPLY, ROOM EXHAUST, ACTUAL OA, SYSTEM, % OUTSIDE AIR.

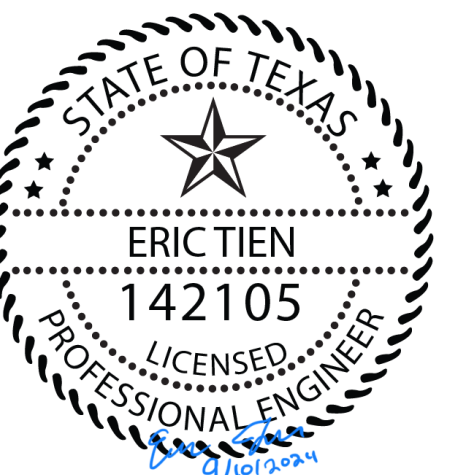
Summary table with columns: UNIT, OA %, PRIMARY OA FRACTION, SYSTEM VENTILATION EFFICIENCY, UNCORRECTED OA INTAKE FLOW, CORRECTED OA INTAKE FLOW, UNIT SIZE (TONS), MIXED AIRFLOW, O.A. AIRFLOW, ACTUAL AIR FLOW 1, MIX FLOW 1, MIX FLOW 2, ACTUAL AIR FLOW TOTAL, ACTUAL - SUPPLY DIFFERENCE.

EQUIPMENT SCHEDULE

FCU-1 THRU 12: EXISTING RESIDENTIAL HEAT PUMP SYSTEMS. MC TO REPLACE FILTERS, CHANGE BELTS, CLEAN EVAPORATOR COIL, CLEAN CONDENSER COIL, CHECK A/C CHARGE, CHECK HEAT EXCHANGER. PROVIDE WRITTEN REPORT ON UNIT. MC TO FURNISH AND INSTALL NEW TSTAT (HONEYWELL TH8321UF) WHERE NECESSARY AND BALANCE UNIT.

EH-1: QMARK AWH4404NW, 3000/1500W, 208/160 ARCHITECTURE GRADE WALL HEATER W/INTEGRAL T-STAT FULLY RECESSED IN WALL. 100 CFM. WIRE FOR 3000W SETTING

RES Root Engineering Services logo and contact information for Mechanical/Electrical/Plumbing Systems Consultant.



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PROJECT JUVENILE PROBATION PARK PLAZA DEVELOPMENT 920 E. PARK BOULEVARD PLANO, TEXAS 75074

Table for drawing issues/revisions with columns: Rev. No., Description, Date.

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M3 logo and drawing title: MECHANICAL SCHEDULES, NOTES AND DETAILS.

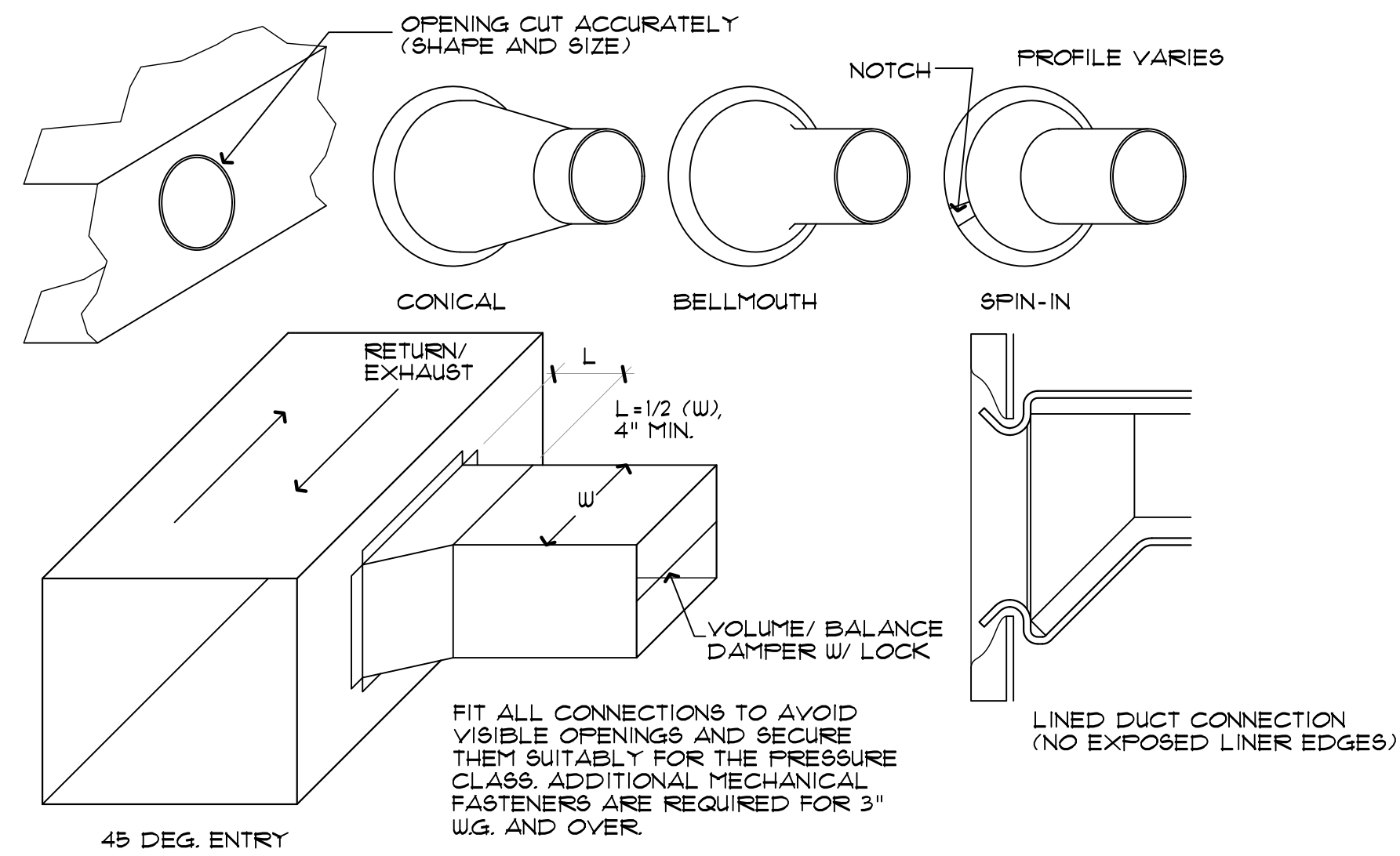
Scale and drawing information table with columns: Scale, Dwg By, Dwg No., Check By, Check No., Date.

EXHAUST FAN SCHEDULE

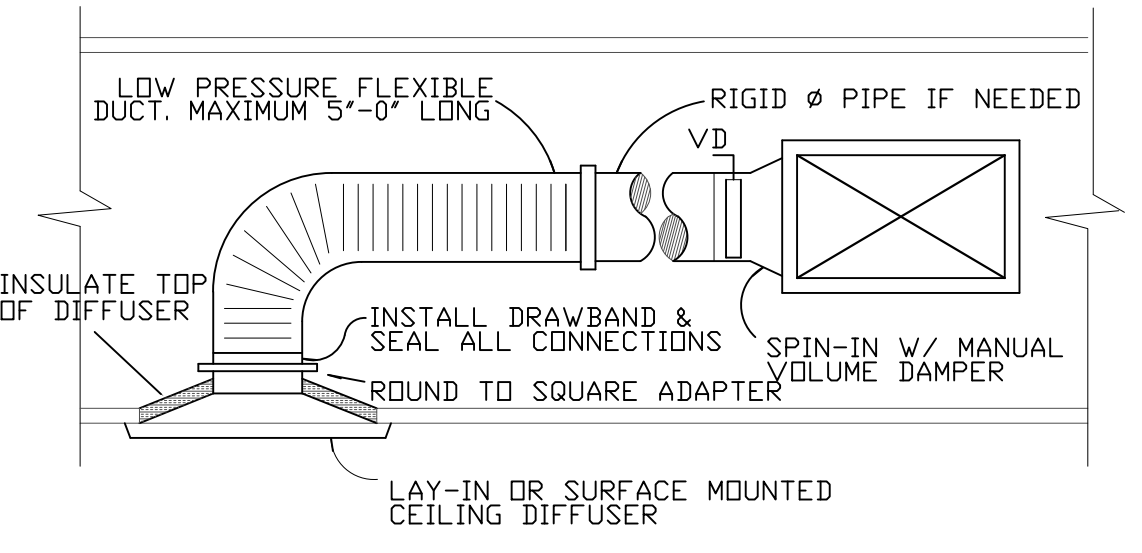
MARK	EF-1A/B	EF-2					
BRAND	GREENHECK	GREENHECK					
MODEL NO.	SP-A200	SP-A110					
CFM	150	75					
SP	.5	.25					
WATTS (HP)	49	17					
MAX SONES	3.5	0.8					
VOLTAGE 1PH	120	120					
NOTES	1-6.8	1-7					

NOTES:

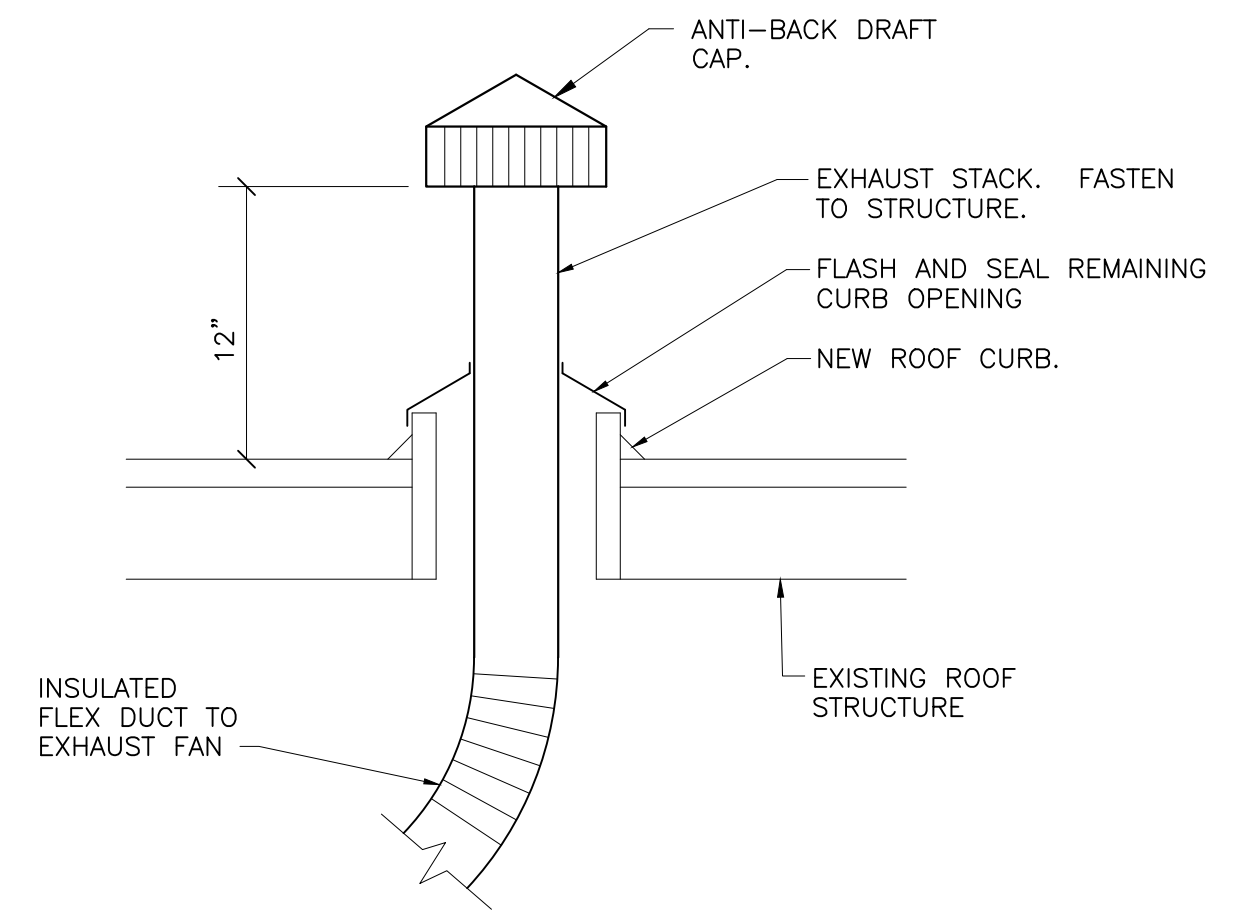
- INCLUDE BACKDRAFT DAMPER
- INCLUDE DISCONNECT ACCESSORY
- FIELD VERIFY 10" CLEARANCE TO ANY OAI, IF EXHAUST
- PROVIDE ALUMINUM GRILLE
- PROVIDE 120V FAN SPEED CONTROLLER PREWIRED IF DIRECT SPEED FAN. PROVIDE BELT TENSIONER ROTARY IF BELT DRIVE.
- MOUNT WITH VIBRATION ISOLATORS
- MC TO FURNISH AND INSTALL WITH 14" ROOF CURB AND CAP, IF EXHAUST. COORDINATE WITH GC
- MC TO TERMINATE THROUGH ROOF AND INSTALL WITH ROOF CURB AND CURB CAP DISCHARGE THROUGH WALL, IF EXHAUST. COORDINATE LOUVER COLOR WITH ARCHITECT / OWNER. MC TO FURNISH AND INSTALL WITH PITCHED ROOF CURB AND ROOF CAP, IF EXHAUSTED TO OUTSIDE. COORDINATE WITH GC



1 DUCT INSTALLATION DETAIL
SCALE: rts



2 DIFFUSER INSTALLATION DETAIL
SCALE: rts



3 CEILING MOUNTED EXHAUST FAN INSTALLATION DETAIL
SCALE: rts

AIR DEVICE SCHEDULE

MARK	TYPE	NECK SIZE	FACE SIZE	THROW PATTERN	MOUNTING	TITUS OR AS INDICATED
A	DIRECTIONAL CEILING DIFFUSER	6"φ	24"x24"	4-WAY	LAY-IN	TMS 6 24x24 326
BD	DIRECTIONAL CEILING DIFFUSER	6"φ	12"x12"	4-WAY	LAY-IN	TMS 6 12x12 326 D-15
C	CUBE CORE CEILING RETURN	22"x10"	24"x12"	-	LAY-IN	50F
D	CUBE CORE CEILING RETURN	22"x22"	24"x24"	-	LAY-IN	50F
E	DIRECTIONAL CEILING DIFFUSER	8"φ	24"x24"	4-WAY	LAY-IN	TMS 8 24x24 326
F	LINEAR SLOT INSULATED BOOT PLENUM	8"φ	4"x48"	2-WAY	LAY-IN	TBD1-30 48 2HP 8 1 1/2 02 0

NOTES:

- MECHANICAL CONTRACTOR TO PROVIDE SQUARE TO ROUND TRANSITIONS AS REQUIRED. PROVIDE LAY-IN FRAME WHERE REQUIRED.
- ALL DEVICES SHALL BE METAL-AIRE, TITUS, T # B, OR APPROVED EQUAL (UNLESS NOTED OTHERWISE) COMPLETE WITH V.D.
- ALL FRAMING REQUIRED FOR DIFFUSER INSTALLATION SHALL BE BY THE GENERAL CONTRACTOR
- SEE MECHANICAL PLAN FOR DIFFUSER LOCATIONS

EQUIPMENT SCHEDULE
L-1: WIND-DRIVEN RAIN LOUVER. LOUVER TO BE CONSTRUCTED OF 6063-T5 ALUMINUM 0.081 WALL THICKNESS, 840 FPM INTAKE VELOCITY. INCLUDE BIRD SCREEN, 75% KYNAR PAINT FINISH, STANDARD COLOR TO BE SELECTED BY OTHERS, GREENHECK EHH-401 12Wx12"H. A 24V POWER OPEN SPRING CLOSE BELIMO DAMPER SHALL BE INSTALLED ON EACH OA DUCT NEAR THE AHU. THE MC SHALL COORDINATE WITH EC 24V POWER. USE OCCUPIED OUTPUT OF TSTAT TO OPEN DAMPER DURING OCCUPIED TIMES.

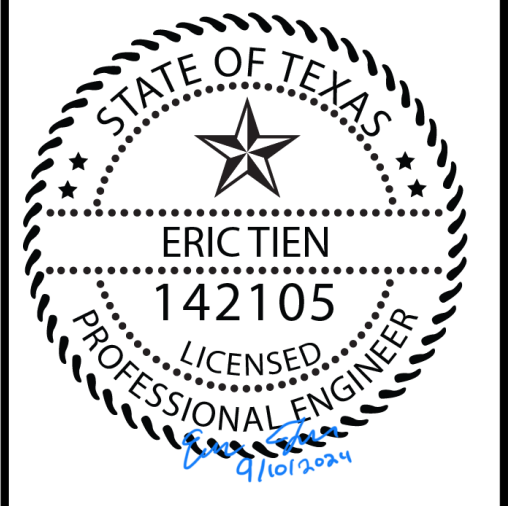
GENERAL MECHANICAL NOTES

- THE MECHANICAL SUBCONTRACTOR SHALL PROVIDE A COMPLETE AND USABLE SYSTEM WITHIN THE INTENT AND SPIRIT OF THAT INDICATED BY THIS DRAWING. WORK OR MATERIALS NOT SHOWN BY THIS DRAWING, BUT NECESSARY TO COMPLETE THE SYSTEM SHALL BE INCLUDED AT NO ADDITIONAL COST. THE MECHANICAL SUBCONTRACTOR SHALL FURNISH AND INSTALL ALL HVAC SYSTEM REQUIREMENTS INCLUDING GRILLES, DIFFUSERS, DUCTWORK, CONTROLS, CONTROL WIRING, DUCTWORK, EQUIPMENT, HVAC PIPING, CUTTING AND PATCHING, ETC.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, MAKE ADJUSTMENTS TO AVOID CONFLICT. NOTIFY THE ENGINEER IN WRITING OF SIGNIFICANT CONSTRUCTABILITY ISSUES.
- PROVIDE VOLUME DAMPERS WHERE INDICATED.
- ALL RECTANGULAR AND ROUND DUCTWORK SHALL BE GALVANIZED SHEET METAL, FABRICATED AND SUPPORTED TO SMACNA STANDARDS. ALL SUPPLY DUCT SHALL HAVE 2" ISF BLANKET INSUL W VAPOR BARRIER (R-8) EXPOSED DUCTWORK THAT IS ROUND TO BE SPIRAL AND TO HAVE 1" LINER, INSIDE DIAMETER AS SHOWN, FURNISH AND INSTALL NEOPRENE FLEX CONNECTION BETWEEN DUCTWORK AND RTUS/AHUS.
- FLEXIBLE DUCT SHALL BE FLEXMASTER TYPE V OR EQUAL FIBERGLASS INSULATED TYPE. FLEX DUCT SHALL NOT EXCEED 6' IN LENGTH RIGID ROUND DUCT WITH EXTERIOR INSULATION. USE RIGID ROUND DUCT WITH EXTERIOR INSULATION ABOVE WHERE SHOWN ON THE PLAN. USE RIGID ELBOW FITTINGS WHENEVER POSSIBLE TO AVOID UNNECESSARY CHANGE OF DIRECTION WITH FLEXDUCT.
- SEAL ALL DUCTWORK SEAMS WITH FIBERGLASS TAPE IMBEDDED IN ARABOL SEALER OR ALUMINUM TAPE. DUCT TAPE IS NOT ACCEPTABLE. VAPOR SEAL ALL EXTERIOR INSULATION WITH ALUMINUM TAPE. DUCT TAPE IS NOT ACCEPTABLE.
- CONTRACTOR SHALL ADJUST CURB PLACEMENT AND TRANSITION DUCTWORK AS REQUIRED TO CLEAR STRUCTURAL AND OTHER OBSTACLES. THE CONFIGURATION OF THE STRUCTURE AND OTHER OBSTACLES IN THE EXISTING BUILDING IS NOT KNOWN IN DETAIL. THE CONTRACTOR WILL INVESTIGATE, VERIFY THE DESIGN SHOWN, AND ADJUST AS REQUIRED.
- ALL WORK SHALL COMPLY WITH APPLICABLE CODES, REGULATIONS, LAWS AND THE DETERMINATIONS OF THE LOCAL BUILDING OFFICIAL AT NO EXTRA COST. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY CONFLICT BETWEEN THE PLANS AND APPLICABLE CODES.
- ALL MATERIALS WILL BE NEW AND IN NEW CONDITION. SCRATCH AND DENTED, SECONDHAND, SURPLUS, ETC ARE NOT ACCEPTABLE.
- ELECTRICAL CONNECTIONS 120V OR HIGHER SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL SUBCONTRACTOR. MECHANICAL SHALL COORDINATE THIS WORK. MECHANICAL SHALL FURNISH DUCT SMOKE DETECTORS AS REQUIRED TO ELECTRICAL FOR FIRE ALARM INSTALLATION.
- THE MECH SUBCONTRACTOR SHALL START UP EACH UNIT, TEST FOR HEAT AND COOL OPERATION, INSURE ALL DUCTWORK IS FREE OF RATTLES, LEAKS, WHISTLES, ETC. AN INDEPENDENT CONTRACTOR SHALL BALANCE THE SYSTEM AS INDICATED BY DRAWINGS, RTU SCHEDULE, AND VENTILATION SCHEDULES. SUBMIT FOUR COPIES OF A CERTIFIED TEST AND BALANCE REPORT TO THE ARCHITECT FOR APPROVAL. UPON APPROVAL CONTRACTOR SHALL FILE REPORT WITH LOCAL AUTHORITY.
- WHEN SYSTEMS ARE COMPLETE AND OPERATIONAL, A 'PUNCH LIST' INSPECTION SHALL BE REQUESTED BY THE CONTRACTOR. SUCH AN INSPECTION SHALL NOT BE CONDUCTED ON INCOMPLETE OR NON-OPERATIONAL SYSTEMS.
- ALL DUCTWORK (SUPPLY AND RETURN) IN UNCONDITIONED SPACES SHALL BE INSULATED WITH A MINIMUM VALUE OF R-6 INSULATION. ALL DUCTS OUTSIDE OF THE BUILDING ENVELOPE SHALL BE INSULATED WITH R-8 MINIMUM.
- DUCTS SHALL BE SUPPORTED WITH APPROVED HANGERS AT INTERVALS NOT EXCEEDING 10 FEET OR BY OTHER APPROVED DUCT SUPPORT SYSTEMS DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE, FLEXIBLE AND OTHER FACTORY MADE DUCTS SHALL BE SUPPORTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- SMOKE DETECTORS SHALL BE INSTALLED IN RETURN AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 20000 CFM IN THE RETURN AIR DUCT OR PLENUM UPSTREAM OF ANY FILTERS, EXHAUST AIR CONNECTIONS, OUTDOOR AIR CONNECTIONS, OR DECONTAMINATION EQUIPMENT AND AFFLIANCES.
- UPON SELECTION OF MECHANICAL AFFLIANCES SUBMIT MANUFACTURING INSTALLATION INSTRUCTION TO BUILDING DEPARTMENT, INCLUDE ANY LISTING FOR OUTDOOR INSTALLATION, IF APPLICABLE.
- EQUIPMENT SHALL BE INSTALLED AS REQUIRED BY THE TERMS OF THEIR APPROVAL, IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND APPLICABLE CODES. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE FOR INSPECTION.
- ALL COVERING LININGS, ADHESIVES, WHEN USED SHALL HAVE A FLAME SPREAD RATING NOT MORE THAN 25 AND SMOKE DEVELOPED RATING NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM-E84.

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MECHANICAL SCHEDULES
NOTES AND DETAILS

Drawing Title
M4

Scale
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Consult Job No: 240002