MINI SPLIT-SYSTEM HEAT PUMP SCHEDULE																	
		INDOOR UNIT			OU	TDOOR UNIT		COC	DLING		HE	ATING		ELEC	TRICAL	_	
MARK	*MANUF'R./ MODEL	TYPE	SERVES	FAN CFM (HI/MED/LO)	MARK	*MANUF'R./ MODEL	TOT. CAP. (BTUH)	EDB (F)	EWB (F	AMB (F) SEER2	TOT. CAP. (BTUH)	AMB (F)	HSPF2	VOLTAGE	MCA	BKR	REMARKS
MSFC-1	LG LVN120HCV	VERTICAL AIR HANDLER	GUARD POST BUILDING	580 / 480 / 380	MSHP-1	LG LVU120HCV	12,000	80.0	67.0	95.0 16.0	15,000	47.0	9.3	208/1/60	13.8	20A	SEE NOTES

* OR APPROVED EQUAL

1. SYSTEM SHALL BE COMPLETE WITH INDOOR AND OUTDOOR UNIT FROM SAME MANUFACTURER

2. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT

3. VARIABLE SPEED INVERTER SCROLL COMPRESSOR

4. ELECTRICALLY COMMUTATED INDOOR FAN MOTOR 5. ELECTRICALLY COMMUTATED OUTDOOR FAN MOTOR

6. HARD-WIRED WALL THERMOSTAT

7. AUTO RESTART

8. 24-HOUR ON/OFF TIMER

9. LOW AMBIENT TO 14-DEGREES F

10. CONDENSATE SENSOR CONNECTION

11. FIVE YEAR COMPRESSOR WARRANTY

12. TWO YEAR FUNCTIONAL PARTS WARRANTY

	EXHAUST FAN SCHEDULE											
GENERAL			FAN						ELECTRICAL			REMARKS
EF-1	EF-1 GREENHECK CSP-A110 RESTROOM / STORM SHELTER 101 DIRECT CENT. 70 1/8" 728 0.3 120/1/60 20W INTERLOCK W/TLT RM LIGHTS SEE N						SEE NOTES					
NOTE:	* OR APPROVED EQUAL NOTES: 1. FACTORY MOUNTED INTEGRAL DISCONNECT AND BACKDRAFT DAMPER. 2. SOLID STATE SPEED CONTROL FACTORY MOUNTED ON FAN HOUSING.											

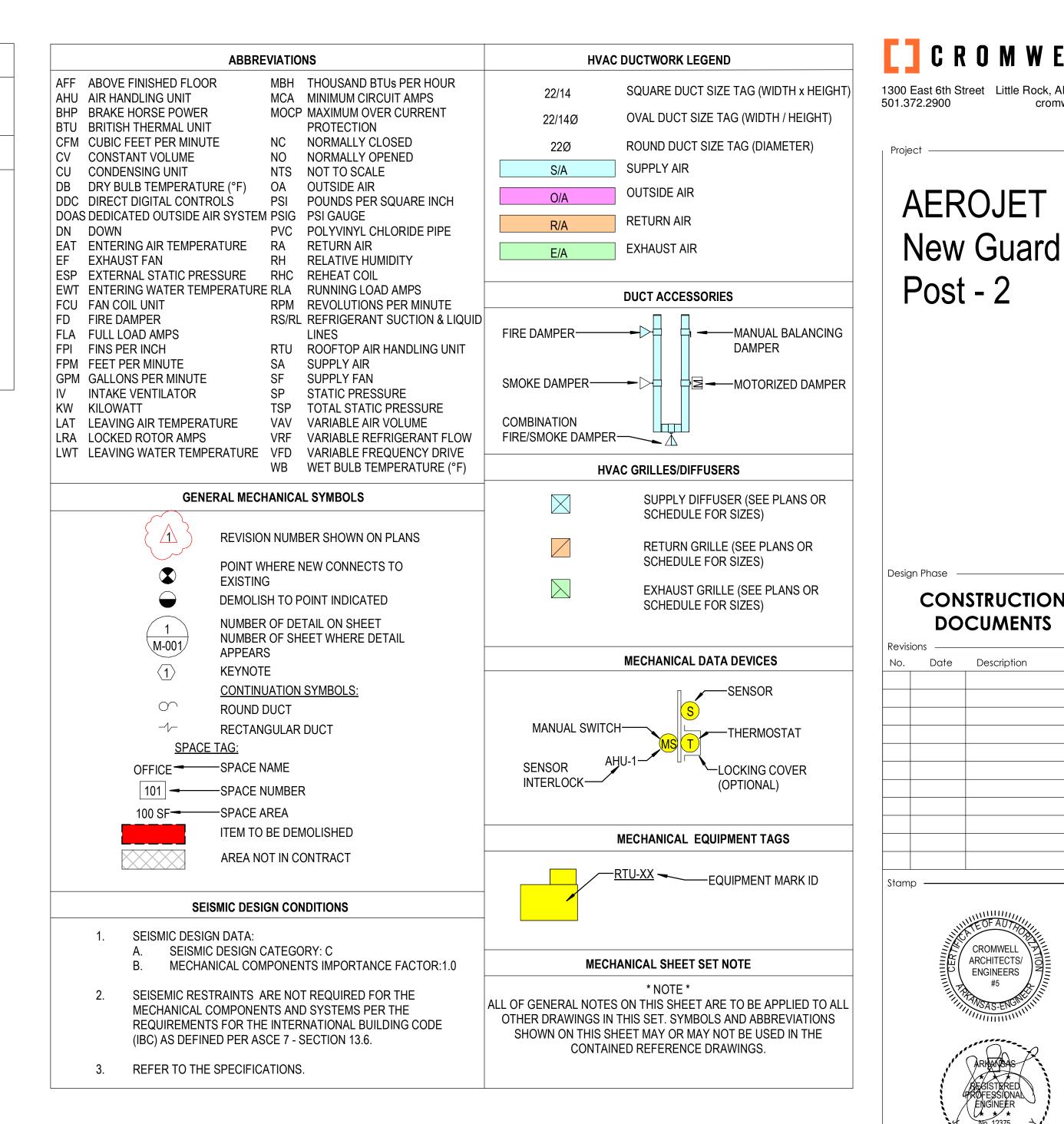
			AIR	CURTAIN	N SCH	EDULE			
MARK	MANUF'R./MODEL	SERVES	CFM	DOOR WIDTH (IN)	HEATING (BTUH)	VOLTAGE	MOTOR	CONTROL	
AC-1	POWEREDAIR MP-1-36	SEE PLANS	984	36.0	N/A	120/1/60	1/5 HP	MOTION DETECTOR	SEE NOTES

3. WALL CAP EQUAL TO A GREENHECK #WC-10X3 WITH INTEGRAL BIRDSCREEN, BACKDRAFT DAMPER, AND BLACK ENAMEL FINISH.

,	AIR DEVICE		KEY NO. IF MO THAN ON	=	4 Th	IROW M		
MARK	DESCRIPTION	SIZE	MOUNTING	MATERIAL	FINISH	*MANUF'R	MODEL	REMARKS
Α	SQUARE CONE	24x24	LAY-IN CLG.	ALUMINUM	WHITE	PRICE	ASCD	NONE
В	SQUARE CONE	12x12	LAY-IN CLG.	ALUMINUM	WHITE	PRICE	ASCD	NOTE 1
1	CUBE CORE	12x12	LAY-IN CLG.	ALUMINUM	WHITE	PRICE	80	NOTE 1
2	CUBE CORE	24x24	LAY-IN CLG.	ALUMINUM	WHITE	PRICE	80	NONE
3	45-DEG FIXED BLADE	12x12	SOFFIT	ALUMINUM	FIELD PAINT	PRICE	630	NONE
NOTES:	* OR APPROVED EQUAL 1. PROVIDE BLANK PANEL BORDER FOR INSTALLATION OF AIR DEVICE IN FULL LAY-IN GRID SPACE.							

GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH THE 2021EDITION OF THE "INTERNATIONAL MECHANICAL CODE". THE 2014 EDITION OF THE "ARKANSAS ENERGY CODE". NFPA 90A, AND ALL CITY, STATE.
- AND LOCAL REQUIREMENTS.
- 2. REFER TO THE PROJECT MANUAL FOR ALL REQUIREMENTS
- 3. REFER TO ARCHITECTURAL PLANS FOR:
- A. REFLECTED CEILING PLAN FOR EXACT LOCATION OF AIR DEVICES AND CEILING TYPES.
- B. EXACT LOCATIONS AND MOUNTING HEIGHTS OF EXTERIOR LOUVERS.
- C. ALL WALL AND ROOF PENETRATIONS AND EQUIPMENT MOUNTING DETAILS. 4. ALL DUCTWORK SHALL BE CONSTRUCTED FROM GALVANIZED STEEL IN CONFORMANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS," LATEST EDITION.
- 5. U.L. LISTED FLEXIBLE DUCT RUN-OUTS MAY BE USED, BUT SHALL NOT EXCEED 5'-0" IN LENGTH, ALL FLEXIBLE DUCT TO BE PROPERLY SUPPORTED WITH NO KINKS OR HARD BENDS.
- 6. DUCT FITTINGS:
- A. SUPPLY TAKE-OFFS TO CEILING SUPPLY DIFFUSERS TO BE CONICAL TAP OR 45° SIDE TAP.
- B. ALL DUCT RUN-OUTS TO HAVE LOCKING QUADRANT VOLUME DAMPERS. PROVIDE STAND-OFF BRACKET TO ACCOMMODATE INSULATION THICKNESS.
- C. ALL 90° ROUND ELBOWS TO HAVE R/D=1.5 (UNLESS OTHERWISE NOTED).
- D. ALL 90° RECTANGULAR ELBOWS TO HAVE TURNING VANES (UNLESS OTHERWISE NOTED).
- E. PROVIDE HARD ELBOW WHEN TRANSITIONING FROM RIGID TO FLEXIBLE DUCT WHEN CONNECTING TO AIR DEVICES. REFER TO DETAIL.
- 7. DUCTWORK TO BE COORDINATED WITH STRUCTURAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION, COMPONENTS AND SYSTEMS. ALL DUCTWORK THAT HAS TO BE OFFSET DUE TO
- AN OBSTRUCTION SHALL BE SLOPED WITH 2-30° ELBOWS UNLESS OTHERWISE NOTED.
- 8. COMPLETELY INSULATE THE TOPS OF ALL CEILING DIFFUSERS. 9. CLOSELY COORDINATE LOCATIONS OF INSTALLED EQUIPMENT TO ACHIEVE THE GREATEST ACCESSIBILITY.
- 10. MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST FANS. FLUES. PLUMBING VENTS. ETC.
- 11. PROVIDE FLEXIBLE CONNECTIONS AT INLETS AND OUTLETS OF ALL AIR HANDLING UNITS, MAKE-UP AIR UNITS, FURNACES, AND/OR EXHAUST FANS.
- 12. CONDENSATE PIPING SHALL BE COMPRISED OF TYPE "M", DWV COPPER, OR SCHEDULE 40 PVC. PVC EXPOSED TO SUNLIGHT SHALL HAVE UV RESISTANT COATING. 13. ALL WALL-MOUNTED, OCCUPANT-CONTROLLED HVAC DEVICES, I.E., THERMOSTATS, HUMIDISTAT, CO2 CONTROLLERS, CONTROL PANELS, ETC., SHALL BE MOUNTED 4'-0" ABOVE FINISHED
- FLOOR. CONTROLS LOCATED IN PUBLIC AREAS SHALL HAVE CLEAR PLASTIC LOCKING COVERS.
- 14. COORDINATE WORK CLOSELY WITH CONTROL CONTRACTOR. PROVIDE ALL NECESSARY DUCT, PIPE TAPS, TEES, WELLS, CONTROL DAMPERS, AIR MEASURING STATIONS, AND OTHER ACCESSORIES REQUIRED BY CONTROL SYSTEM
- 15. SLEEVE AND SEAL ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED AND NON-RATED SLABS AND PARTITIONS.





AEROJET

CONSTRUCTION

DOCUMENTS

CROMWELL

ARCHITECTS/

ENGINEERS

1. CROMWELL ARCHITECTS ENGINEERS, INC.

2. THIS SHEET DESIGNED FOR COLOR PRINTING.

MECHANICAL LEGEND.

SYMBOLS, GENERAL

NOTES, AND

SCHEDULES

CRITICAL INFORMATION MAY BE LOST WITH

2024-052

07-17-2024

ALL RIGHTS RESERVED

Project Number —

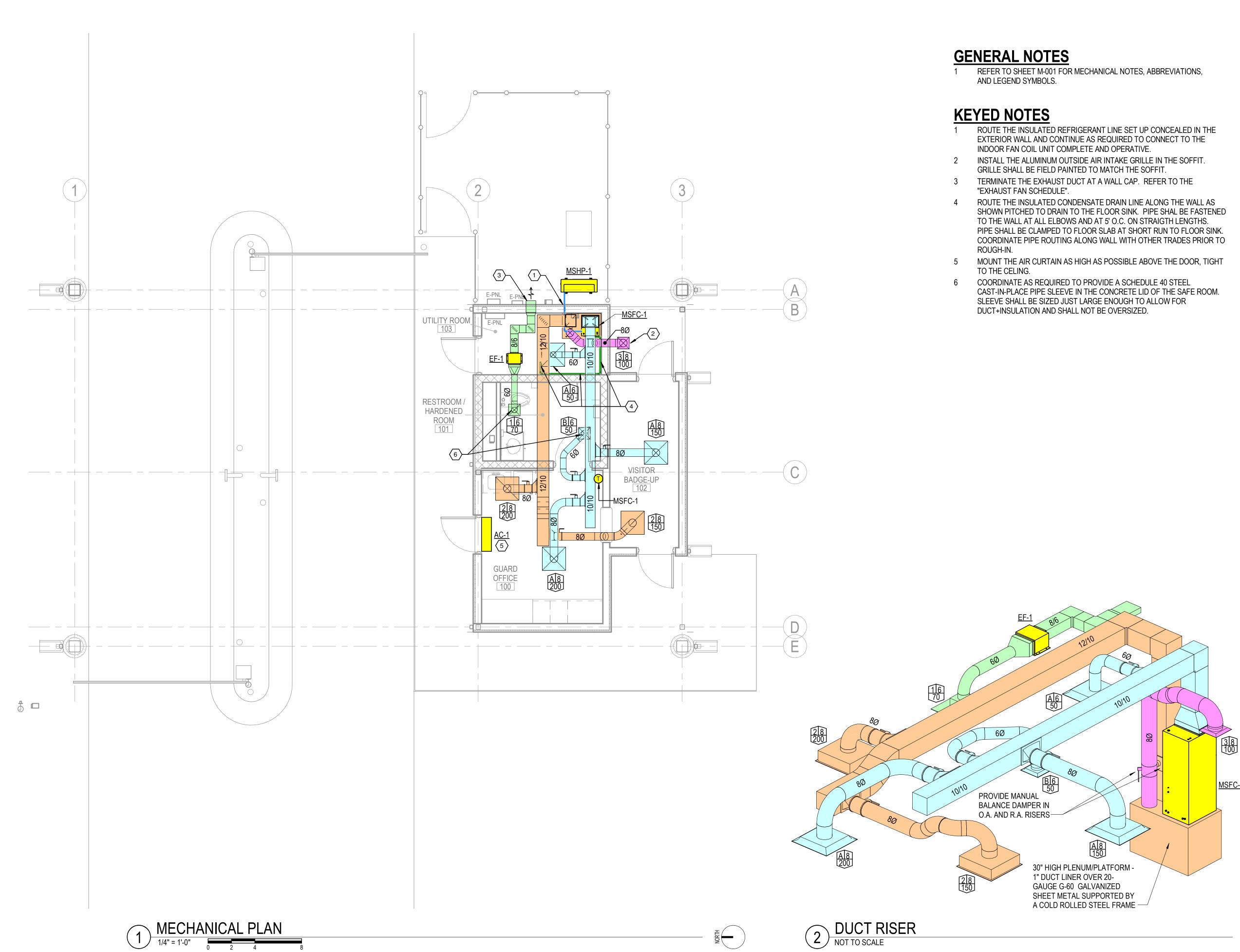
Issue Date -

Sheet Title -

Sheet Number

BLACK AND WHITE PRINTING.

Date Description



CROMWELL

1300 East 6th Street Little Rock, AR 72202 501.372.2900 cromwell.com

Project

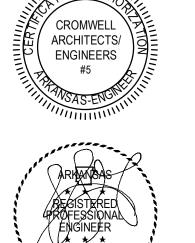
AEROJET New Guard Post - 2

Design Phase ————

CONSTRUCTION DOCUMENTS

Date Description

am	p ——— q	
	•	
		TEOF AUTHOR



10. 12375 -L. GUNDA 07-17-2024

CROMWELL ARCHITECTS ENGINEERS, INC.
 ALL RIGHTS RESERVED

2. THIS SHEET DESIGNED FOR COLOR PRINTING.
CRITICAL INFORMATION MAY BE LOST WITH

CRITICAL INFORMATION MAY BE LOST IN BLACK AND WHITE PRINTING.

Project Number

FIRST FLOOR MECHANICAL PLAN

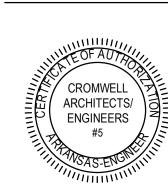
Sheet Number -

M-101

AEROJET New Guard Post - 2

Design Phase CONSTRUCTION

DOCUMENTS Date Description





STANDARDS - METAL AND FLEXIBLE.

VANE LENGTHS UP TO 24".

LENGTHS OVER 24".

MINIMUM 3-PIECE.

AND HIGHER.

ACCEPTABLE.

TURNING VANE ELBOW SHALL BE ASHRAE

FITTING CR3-9 WITH SINGLE WIDTH VANES FOR

CR3-15 WITH DOUBLE WIDTH VANES FOR VANE

4. TURNING VANE ELBOW SHALL BE ASHRAE FITTING

5. ROUND ELBOWS SHALL BE SMOOTH OR GORED.

90-DEGREE GORED ELL'S SHALL BE MINIMUM

5-PIECE AND 45-DEGREE GORED ELL'S SHALL BE

VANES SHALL BE WELDED TO THE VANE RAIL IN

DUCT SYSTEMS WITH AIR VELOCITIES 3000 FPM

SHORT RADIUS ELBOWS, ELBOWS WITH MITERED

THROATS/RADIUS HEELS, AND ELBOWS WITH

MITERED THROATS/CHAMFERED HEELS ARE NOT

1. CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED

2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH

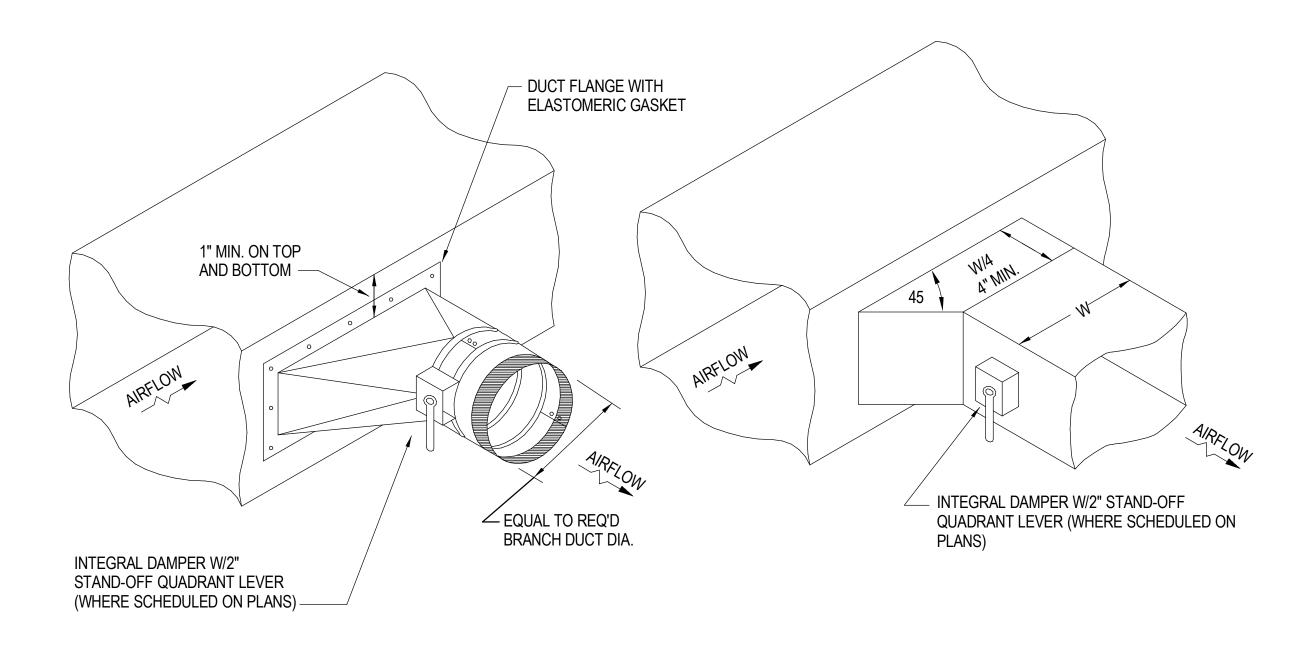
BLACK AND WHITE PRINTING.

Project Number -

2024-052 07-17-2024 Sheet Title

MECHANICAL DETAILS

Sheet Number



1) IN-LINE EXHAUST FAN

ON PLANS -

TRANSITION FROM

UNIT OPENINGS TO

DUCT SIZES SHOWN

FLEXIBLE CONNECTOR

EXHAUST FAN

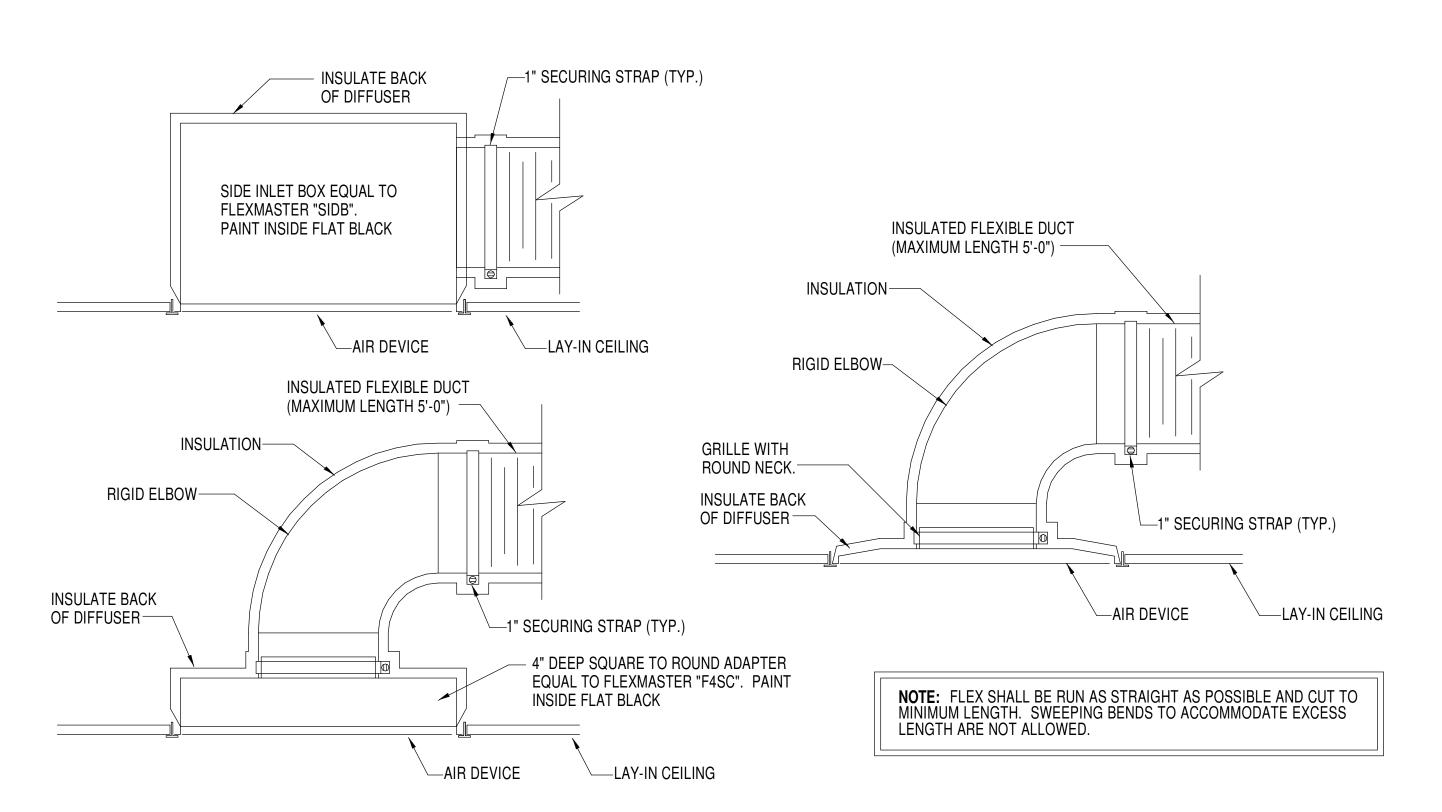
(TYPICAL)

VIBRATION ISOLATORS

__

BY FAN MANUF'R.

2 LOW PRESSURE BRANCH DUCT TAKE-OFF



ALL-THREAD ROD AS RECOMMENDED

BY FAN MANUFACTURER, PROVIDED

BY CONTRACTOR, SECURED TO

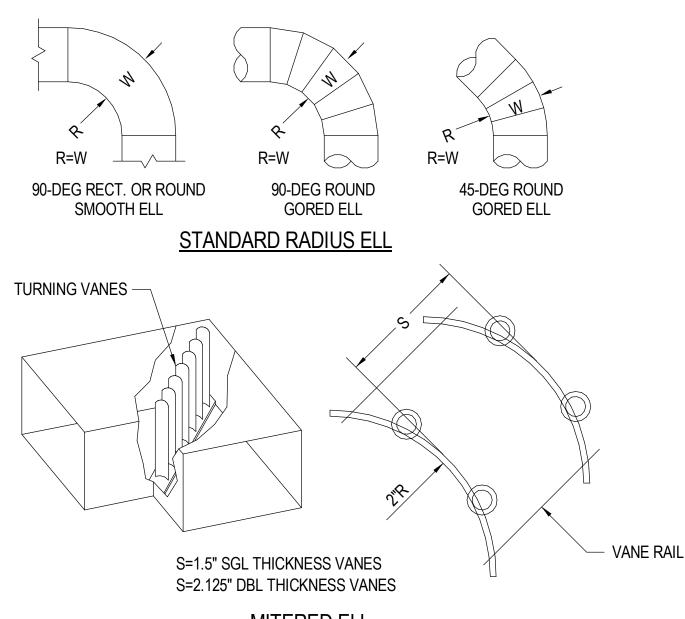
- SOLID STATE SPEED CONTROL -

FACTORY MOUNTED ON HOUSING

AND FACTORY WIRED TO MOTOR

STRUCTURE ABOVE

3 CEILING AIR DEVICE INSTALLATION NONE



WHERE FULL RADIUS TURNS ARE NOT POSSIBLE, MITERED ELL'S WITH TURNING VANES SHALL BE PROVIDED FOR ALL CHANGES IN HORIZONTAL AND VERTICAL DUCT DIRECTION 45-DEGREE OR GREATER. CONSTRUCT ELBOWS IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION

MITERED ELL

4 DUCT ELL NONE