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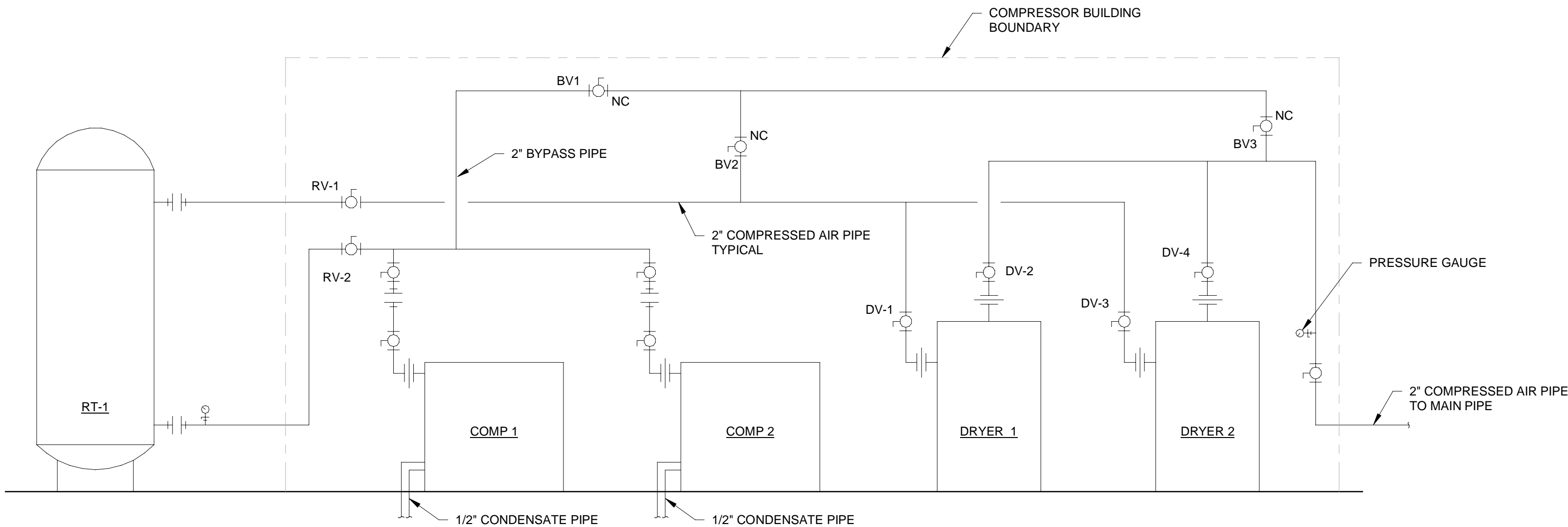
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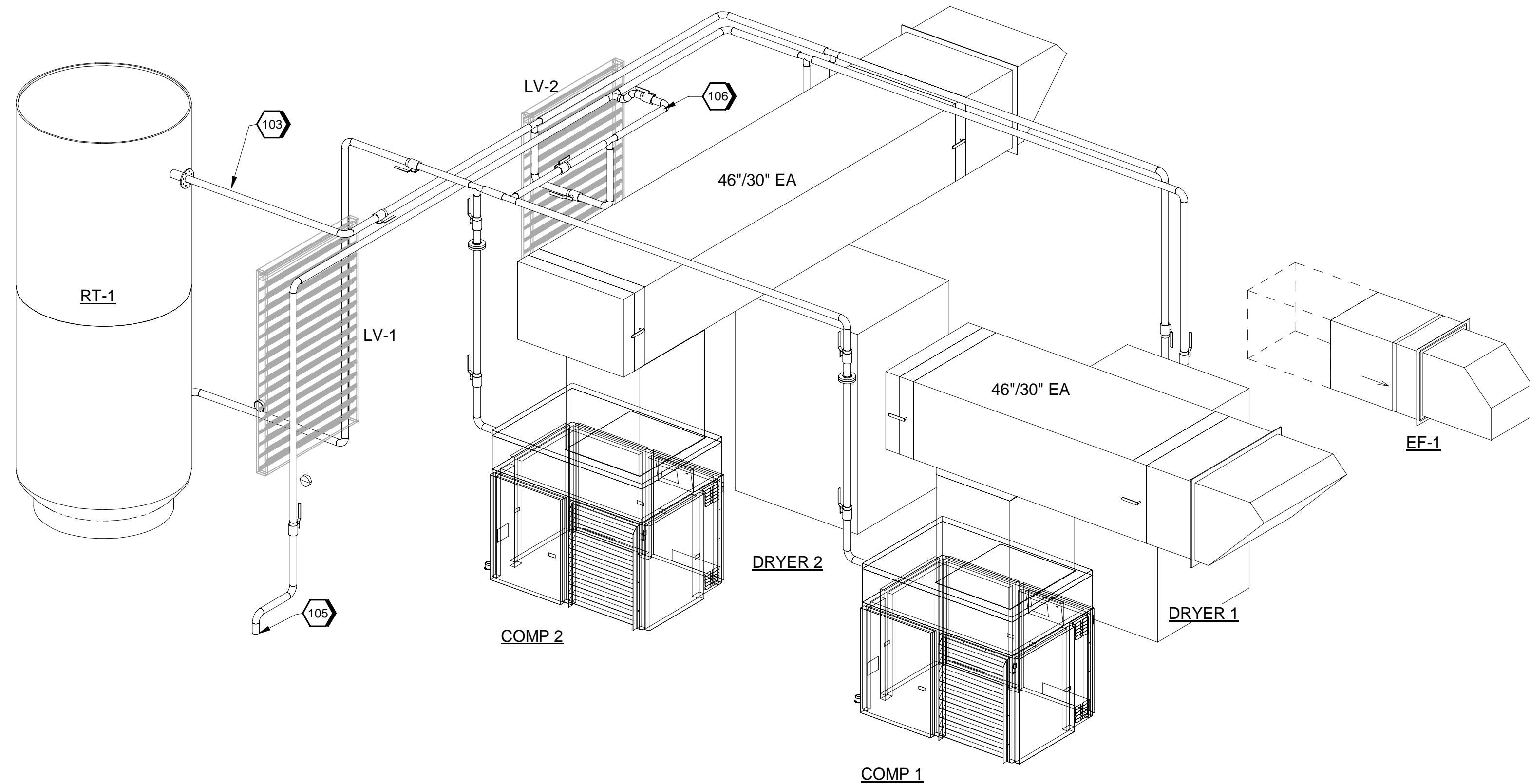
B

A



BY-PASS SEQUENCE				
VALVE	NORMAL OPERATION	RECEIVER TANK BY-PASS	DRYER BY-PASS	RECEIVER TANK AND DRYER BY-PASS
BV-4				
BV-5				
BV-6				
DV-1	OPEN	OPEN	CLOSED	CLOSED
DV-2	OPEN	OPEN	CLOSED	CLOSED
DV-3	OPEN	OPEN	CLOSED	CLOSED
DV-4	OPEN	OPEN	CLOSED	CLOSED
RV-1	OPEN	CLOSED	OPEN	CLOSED
RV-2	OPEN	CLOSED	OPEN	CLOSED

C1 COMPRESSED AIR SCHEMATIC DIAGRAM  
SCALE NTS



A1 MECHANICAL ISOMETRIC VIEW  
SCALE

ALL BYPASS VALVES SHALL BE NORMALLY CLOSED

FOR BYPASS OF THE RECEIVER TANK

- CLOSE RECEIVER TANK ISOLATION VALVES RV-1 AND RV-2
- OPEN BV-1 AND BV-2

FOR BYPASS OF THE DRYER

- CLOSE DRYER ISOLATION VALVES DV-1, DV-2, DV-3, AND DV-4.
- OPEN BV-2 AND BV-3

FOR BYPASS OF THE RECEIVER AND DRYER

- CLOSE DRYER ISOLATION VALVES DV-1, DV-2, DV-3, AND DV-4.
- CLOSE RECEIVER TANK ISOLATION VALVES RV-1 AND RV-2
- OPEN BV-1 AND BV-3

D4 BYPASS VALVE SEQUENCING

LV-1 SHALL OPEN WHEN

- THE ZONE TEMPERATURE IS ABOVE 65°F (ADJ.)
- COMP-1 OR EF-1 RUNS UNLESS SHUTDOWN ON SAFETIES.

LV-1 SHALL CLOSE WHEN

- THE ZONE TEMPERATURE IS BELOW 65°F (ADJ.)
- COMP-1 OR EF-1 IS OFF.

LV-2 SHALL OPEN WHEN

- THE ZONE TEMPERATURE IS ABOVE 65°F (ADJ.)
- COMP-2 RUNS UNLESS SHUTDOWN ON SAFETIES.

LV-2 SHALL CLOSE WHEN

- THE ZONE TEMPERATURE SI BELOW 65°F (ADJ.)
- COMP-2 IS OFF.

C4 LOUVER CONTROL

THE EXHAUST FAN SHALL BE ENABLED TO MAINTAIN A ZONE TEMPERATURE SETPOINT OF 85°F (ADJ.)

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE SETPOINT BY 15°F (ADJ.).

FAN:

THE FAN SHALL RUN ANYTIME THE ZONE TEMPERATURE RISES ABOVE SETPOINT, UNLESS SHUTDOWN ON SAFETIES.

EXHAUST AIR DAMPER:

THE EXHAUST AIR DAMPER AND SHALL OPEN ANYTIME THE UNIT RUNS AND SHALL CLOSE ANYTIME THE UNIT STOPS. THE EXHAUST AIR DAMPER SHALL CLOSE 30 SEC (ADJ.) AFTER THE FAN STOPS.

FAN STATUS:

THE CONTROLLER SHALL MONITOR THE FAN STATUS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.

B4 EXHAUST FAN CONTROL

THE COMPRESSOR SHALL RUN ON ITS INTERNAL SAFETIES AND CONTROLS.

THE COMPRESSOR SHALL RUN TO MAINTAIN PRESSURE SETPOINT OF THE SYSTEM.

EXHAUST AIR MOTORIZED DAMPER SHALL MODULATE TO DISCHARGE AIR INSIDE IF THE ZONE TEMPERATURE IS LESS THAN 55°F (ADJ.)

EXHAUST AIR MOTORIZED DAMPER SHALL MODULATE TO DISCHARGE AIR OUTSIDE IF THE ZONE TEMPERATURE IS GREATER THAN 65°F (ADJ.)

COMPRESSOR LEAD/LAG OPERATION:

THE TWO COMPRESSORS SHALL OPERATE IN A LEAD/LAG FASHION.

- THE LEAD COMPRESSOR SHALL RUN FIRST.
- ON FAILURE OF THE LEAD COMPRESSOR, THE LAG COMPRESSOR SHALL RUN AND THE LEAD COMPRESSOR SHALL TURN OFF.
- ON DECREASING SYSTEM PRESSURE, THE LAG COMPRESSOR SHALL STAGE ON AND RUN IN UNISON WITH THE LEAD COMPRESSOR TO MAINTAIN SYSTEM PRESSURE SETPOINT

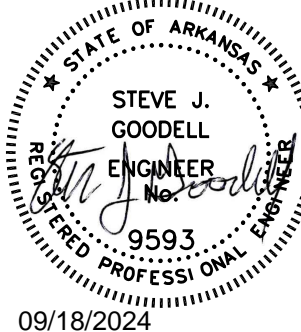
A4 COMPRESSOR SEQUENCE

## #SHEET KEYNOTES

103	2"Ø COMPRESSED AIR PIPE, TYPICAL
105	FULL SIZE CONNECTION DRYER BLOW DOWN PIPE THROUGH WALL AND DISCHARGE TO GRADE
106	2"Ø COMPRESSED AIR BYPASS PIPING.

**Jacobs**

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License: Professional Engineering  
Exp. Date: 12/31/2024



Compressor-Building  
Camden OSD  
Calhoun County, Arkansas  
Aerojet Rocketdyne



MECHANICAL  
ISOMETRIC AND FLOW DIAGRAM

SHEET NO

M-601

SCALE As indicated

DATE 09/18/2024

PROJ D3754502

DWG CAMDN-OSD\_Compressor-Building\_M-601

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