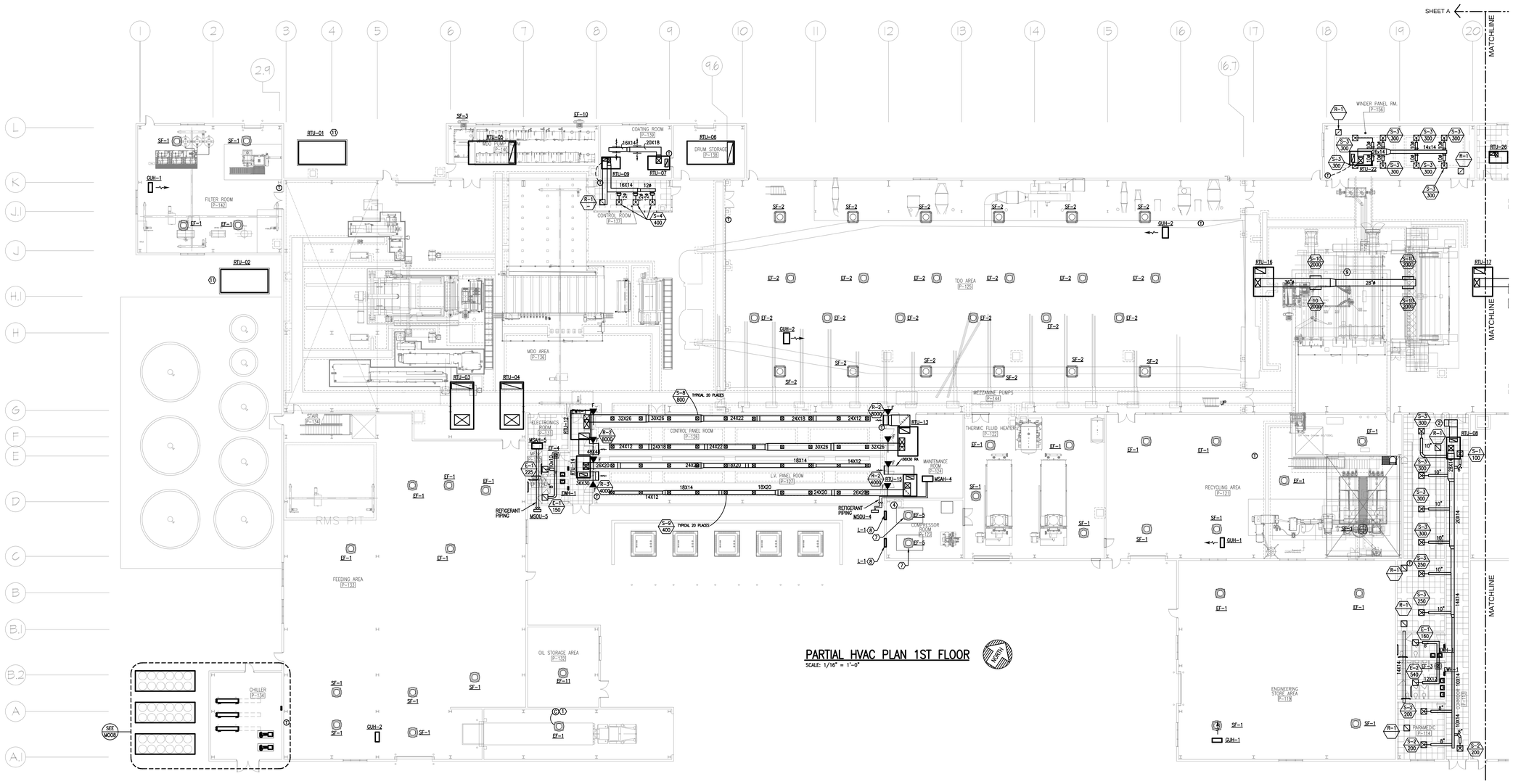
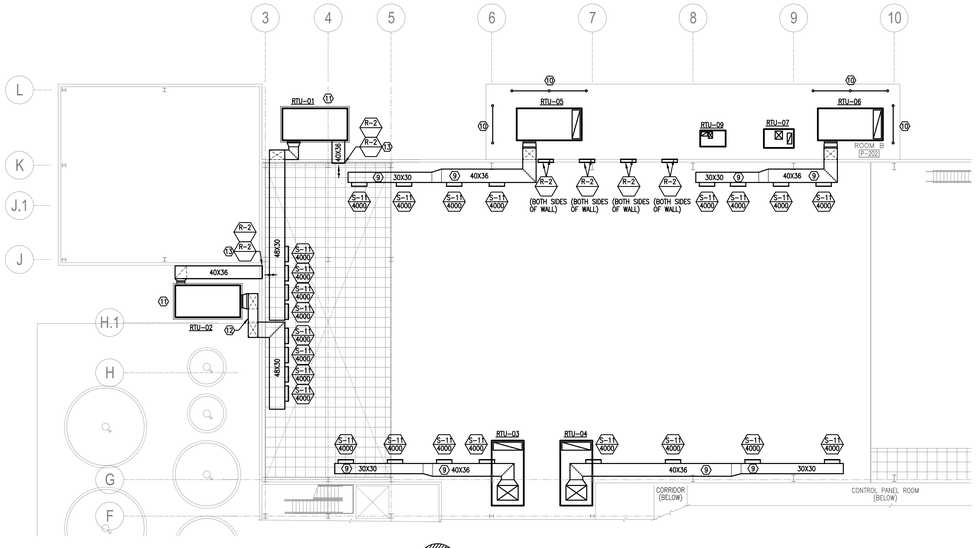


PARTIAL HVAC PLAN 1ST FLOOR

SCALE: 1/16" = 1'-0"



PARTIAL HVAC PLAN LOW ROOF PLAN

SCALE: 1/16" = 1'-0"

HVAC LEGEND

SYMBOL	DESCRIPTION
	SUPPLY AIR DUCTWORK; PLAN, UP AND DOWN
	RETURN AIR DUCTWORK; PLAN, UP AND DOWN
	EXHAUST AIR DUCTWORK; PLAN, UP AND DOWN
	OUTSIDE AIR DUCTWORK; PLAN, UP AND DOWN
	RECTANGULAR TO ROUND DUCTWORK TRANSITION
	MANUAL BALANCING DAMPER
F	FIRE DAMPER (F=FIRE; S=SMOKE; C=COMBO)
	TURNING VANE
	FLEXIBLE DUCTWORK
	SUPPLY DIFFUSER W/ DAMPER & 3' TO 5' OF FLEXIBLE DUCT
	RETURN OR EXHAUST DIFFUSER W/ 1' TO 3' OF FLEXIBLE DUCT
T	THERMOSTAT, MOUNT BOTTOM @ 48" AFF
S-1 240	S-SUPPLY; R-RETURN; E-EXHAUST; CFM, CUBIC FEET PER MINUTE
CD	CONDENSATE DRAIN
CWS	CHILLED WATER SUPPLY PIPING
CWR	CHILLED WATER RETURN PIPING
	PIPE TURNED UP
	PIPE TURNED DOWN
	PIPE OUT TOP
	PIPE OUT BOTTOM

HVAC LEGEND

SYMBOL	DESCRIPTION
	UNION
	BALL VALVE
	GATE VALVE
	BUTTERFLY VALVE
	GLOBE VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE
	STRAINER
	THERMOMETER
	AIR FLOW DIRECTION
1	SHEET NOTE
24x12	RECTANGULAR DUCT SIZE
8ø	ROUND DUCT SIZE
HVAC	HEATING, VENT. & AIR CONDITIONING
ERU	ENERGY RECOVERY UNIT
EF	EXHAUST FAN
GUH	GAS UNIT HEATER
EA	EXHAUST AIR
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
AFF	ABOVE FINISHED FLOOR
U.O.N.	UNLESS OTHERWISE NOTED
EWH	ELECTRIC WALL UNIT HEATER

GENERAL NOTES:

THE FOLLOWING NOTES AND ANY OTHER GENERAL NOTES IN THE DRAWINGS ARE GENERAL IN NATURE AND PERTAIN TO THE ENTIRE PROJECT. WHERE THERE ARE EXCEPTIONS, ADDITIONS OR REVISIONS TO THESE NOTES, SUCH EXCEPTIONS, ADDITIONS OR REVISIONS ARE NOTED ON THE PARTICULAR DRAWING WHERE THEY OCCUR:

1. FOR CLARITY, THE PIPING SHOWN ON THE PLANS ARE DIAGRAMMATIC, AND MAY NOT SHOW ALL BENDS, OFFSET, ROUTING, AND FITTINGS NECESSARY FOR THE INSTALLATION OF THE EQUIPMENT AS INTENDED.
2. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES IN THE INSTALLATION OF MECHANICAL EQUIPMENT AND ALL ASSOCIATED ACCESSORIES, PRIOR TO INSTALLING EQUIPMENT.
3. PROVIDE MECHANICAL SLEEVES FOR ALL PENETRATIONS BELOW GRADE.
4. CONCEAL ALL PIPING WHENEVER POSSIBLE UNLESS OTHERWISE NOTED.
5. ALL PENETRATIONS IN MECHANICAL ROOMS, CORRIDORS AND STAIRWELLS NEED TO BE FIRE STOPPED AND ANY EXISTING HOLES IN WALLS, FLOORS AND CEILING OR HOLES CREATED BY REMOVAL OF EQUIPMENT, DUCT OR PIPING MUST BE PATCHED TO MATCH EXISTING FIRE RATING, FINISH & COLOR.
6. THE CONTRACTOR IS TO VERIFY EXISTING CONDITIONS PRIOR TO BID AND START OF ANY WORK.
7. ALL MECHANICAL INSTALLATION SHALL COMPLY WITH FEDERAL, STATE AND LOCAL CODES.
8. HVAC SYSTEM TO BE BALANCED TO CFM NOTED ON PLANS.
9. ALL ROOF TOP EQUIPMENT TO BE LOCATED A MINIMUM OF 10' FROM EDGE OF ROOF OR HAVE BARRIERS INSTALLED PER KY/OSAA STANDARDS.
10. INSULATED FLEXIBLE DUCT MAY BE USED TO MAKE CONNECTIONS TO DIFFUSER COLLAR EXTENSION. MAXIMUM LENGTH OF FLEX DUCT IS 5'-0".

SHEET NOTES:

1. PROVIDE CARBON MONOXIDE MONITOR TO ACTIVATE EXHAUST FANS WHEN CO LEVEL REACHES 25 PPM.
2. RETURN AIR OPENING ABOVE CEILING.
3. DROP CONDENSATE DRAIN BESIDE COLUMN OR IN WALL, TURN OUT AND SPILL TO GRADE.
4. DROP CONDENSATE DRAIN INTO OPEN RECEPTACLE.
5. 30"ø COMBUSTION AIR DUCT FROM HOOD ON ROOF TO BLOWER ON BOILER.
6. NOT USED
7. PROVIDE 30X30 EXHAUST AIR DUCT FROM AIR COMPRESSOR TO EXHAUST FAN ON ROOF. PROVIDE FLEXIBLE CONNECTION AT CONNECTION TO AIR COMPRESSOR.
8. LOUVER L-1 INTERFACE DAMPER OPERATOR WITH OPERATOR OF EF-5 AND AIR COMPRESSOR.
9. ROUTE DUCTWORK ABOVE CRANE.
10. INSTALL GUARD RAIL ON ROOF PER OSHA REQUIREMENTS.
11. PROVIDE ROOFTOP UNIT INSTALLED ON CONCRETE PAD.
12. OFFSET DUCTWORK IN VERTICAL.
13. PROVIDE 2 RETURN GRILLS STACKED VERTICALLY.

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PROJECT L-12 BOPET U.S.A.

DATE	REVISION	BY
NOV 1, '11	VALUE ENGINEERING RE-DESIGN DOCUMENT	
JAN 20, '12	REVISIONS ASSOCIATED WITH REVISED FLOOR PLAN	

DESIGN DOCUMENTS
The drawings, specifications and designs are and all responsibility and liability for problems which arise from failure to follow these plans, specifications and the design intent they convey.

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PROJECT NO.	8529-02
DESIGNED BY	RCD
DRAWN BY	RCD
CHECKED BY	TBW
REVIEWED BY	JLM
DATE	JULY 2011
SCALE	AS NOTED

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COMMONWEALTH OF KENTUCKY

DRAWING NO.

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