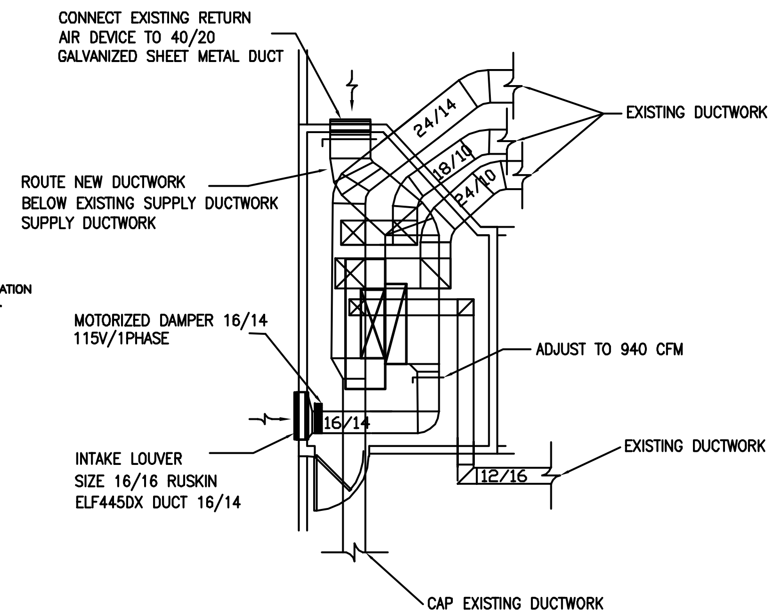

Mechanical Room 124 Detail

KEY NOTES: H.V.A.C.

1. INSTALL NEW 4 TON FAN COIL SYSTEM. REFER TO EQUIPMENT SCHEDULE FOR CAPACITY. INSTALL UNIT PER MANUFACTURER'S RECOMMENDATIONS AND EQUIPMENT'S MAINTENANCE REQUIREMENTS. ROUTE FCU-1 CONDENSATE TO DRAIN ON WALL, COORDINATE WITH PLUMBING ON DRAIN LOCATION.
2. INSTALL CONDENSING UNIT AS PER MANUFACTURER'S CLEARANCE RECOMMENDATIONS. PLACE CONDENSER ON 4" CONCRETE HOUSEKEEPING PAD.
3. INSTALL NEW EXHAUST FAN ON ROOF CURB. ROUTE DUCTWORK UP THROUGH ROOF PENETRATION TO ROOF MOUNTED EXHAUST FAN. REF. TO FAN SCHEDULE FOR EXHAUST FAN INFORMATION. MECHANICAL CONTRACTOR TO PROVIDE WALL MOUNTED ON/OFF SWITCH COORDINATE WITH ELECTRICAL CONTRACTOR FOR SWITCH LOCATION.
4. CAP EXISTING DUCTWORK AT THIS POINT SEAL CAP AIRTIGHT.
5. ADJUST PROPOSED GOVERN AIR – AIR HANDLING UNIT TO 440 CFM OUTSIDE AIR.
6. ADJUST EXISTING SUPPLY AIR DEVICE TO 440 CFM. DUCTWORK CONNECTING TO DIFFUSER SHALL BE 10"ø.
7. NO HVAC WORK SHALL BE DONE TO THIS SECTION OF BUILDING. EXISTING SYSTEM TO REMAIN.
8. REPLACEMENT ROOF TOP UNIT TO BE INSTALLED ON EXISTING ROOF CURB. CONDENSATE SHALL BE CONNECTED TO EXISTING DRAIN SYSTEM, MECHANICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR FOR EXACT DRAIN LOCATION.
9. PROVIDE RAIN RESISTANT LOUVER BY RUSKIN. SIZE 12"X12" WITH 12" WALL SLEEVE AND BIRDSCREEN. MODEL SHALL BE ELF375DX. COLOR TO MATCH EXTERIOR BUILDING.
10. DUCT DOWN 16/16 MAIN DUCT, BRANCH OUTWARD AS SHOWN IN PLAN.
11. PROVIDE 12"X12" DOOR RETURN GRILLE 350RL BY TITUS OR ENGINEER APPROVED EQUAL PROVIDE AIR DEVICE WITH FLANGE BORDER FOR BOTH SIDES OF DOOR.
12. INSTALL NEW 15 TON AIR HANDLING UNIT MODEL TAA180 WITH GAS FIRED DUCT FURNACE MODEL LD 24-100S OR EQUAL AND ADJUST EXISTING DUCTWORK TO PROPOSED UNIT. SEE DETAIL FOR MORE.
13. REMOVE AND REPLACE TWO (2) 7.5 TON CONDENSING UNITS ON EXISTING CONCRETE PAD AS PER MANUFACURE'S CLEARANCE RECOMMENDATIONS
14. INSTALL HEPA FILTER IN THE EXHAUST AIR DUCT WITH A PRESSURE INDEPENDENT, CONSTANT VOLUME, AIR FLOW AND CONTROL VALVE IN THE EXHAUST AIR SYSTEM; PROVIDE ANY OTHER APPURTENANCE TO MAKE EXHAUST SYSTEM OPERABLE. (SEE "HEPA FILTER CONTROLS FOR AUTOPSY EXHAUST SYSTEM DETAIL")
15. INSTALL DIRECTIONAL VENTS, AND RE-LOCATE DUCT OPENING, IF NECESSARY, TO KEEP AIRFLOW AWAY FROM DISSECTING TABLES.
16. RELOCATE EXHAUST REGISTER TO BE ABOVE THE SINK IN THE DECOMPOSITION ROOM, AND PROVIDE ANY OTHER APPURTENANCE TO MAKE EXHAUST SYSTEM OPERABLE.
17. PROVIDE WALL REGISTERS APPROXIMATELY 7 INCHES ABOVE FINISHED FLOOR TO EXHAUST AUTOPSY ROOM AIR NEAR EACH AUTOPSY TABLE, AND PROVIDE ANY OTHER NECESSARY APPURTENANCE TO MAKE THE EXHAUST SYSTEM OPERABLE.
18. PROVIDE ADEQUATE CHASE TO COVER DUCT WORK.
18. PROVIDE EXHAUST STACK ABOVE ROOF AS PER EXHAUST STACK DETAIL.

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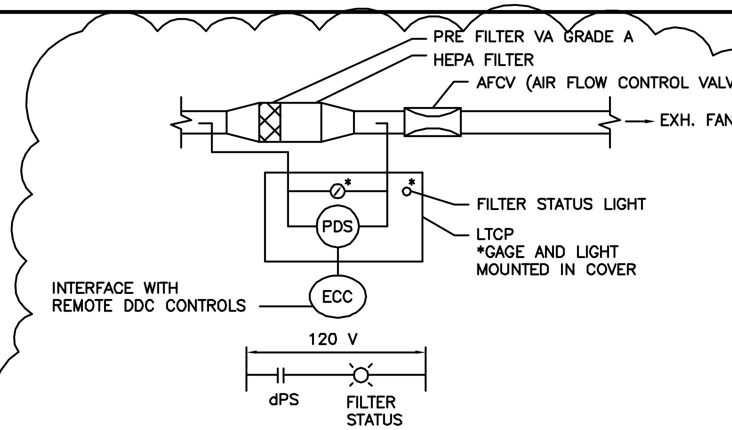

SEQUENCE OF OPERATION:

WHEN FILTER PRESSURE DROP RISES TO 2" [7 KPA] OF WATER COLUMN, FILTER STATUS LIGHT (RED) SHALL BE ENERGIZED.

HEPA FILTER CONTROLS FOR AUTOPSY EXHAUST SYSTEM DETAIL

NTS

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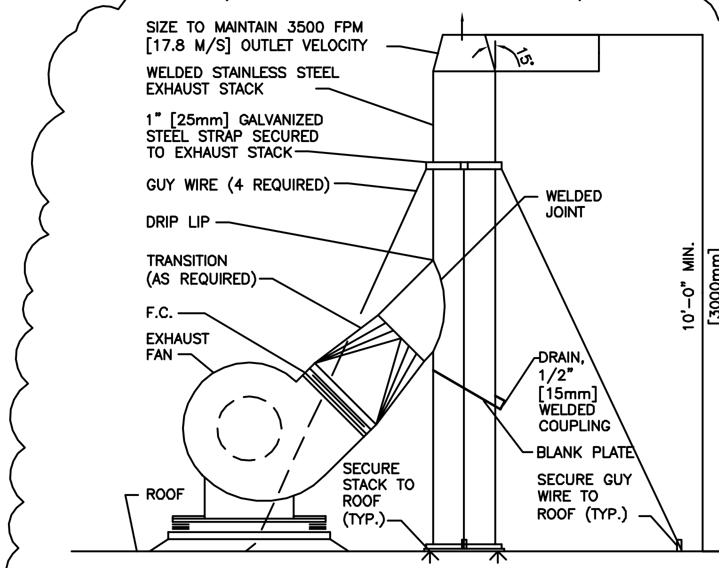


EXHAUST STACK DETAIL

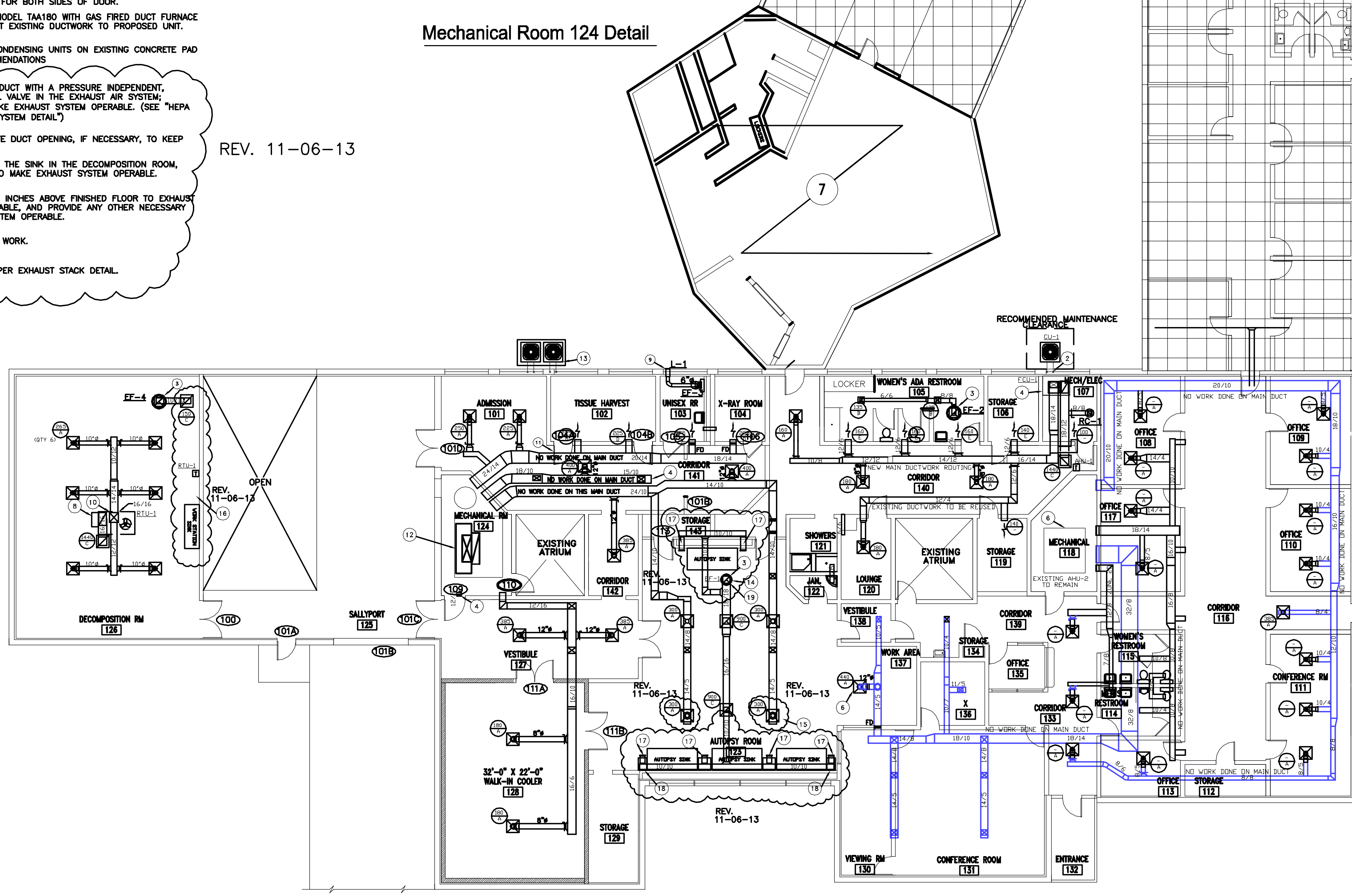
NTS

DESIGNER'S NOTE:

1. 10 FEET MINIMUM HEIGHT IS SHOWN. INCREASE THE HEIGHT, AS REQUIRED, TO COMPLY WITH THE RECOMMENDATIONS OF THE DISPERSION ANALYSIS.
2. USE THIS DETAIL FOR FUME HOODS,BIOLOGICAL SAFETY CABINETS, ISOLATION ROOM EXHAUST AND ANY OTHER APPLICABLE AREA.

REV. 11-06-13

1 Floor Plan: H.V.A.C.
Scale: 3/32"=1'-0"



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HIDALGO COUNTY AUTOPSY FACILITY RENOVATION

MECHANICAL PLAN

DRAWN BY: NS	DATE: 12/08/2010	SCALE: 3/32"=1'-0"
CHECKED BY: NS	DATE: 12/08/2010	PROJECT NO: U1189
APPROVED BY: XX	DATE: 12/10/2010	

STATE	COUNTY	SHEET NO.	DWG NO.
TEXAS	HIDALGO	29 OF 47	M-3