06E - MECHANICAL (MAINTENANCE)
INDEX OF DRAWINGS

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THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

Adam Fox
2022.03.09
07:56:38-05'00'

TRANSPORTATION PRINCIPAL ENGINEER

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: JJT CHECKED BY: JAB

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0042-0324
PROJECT DESCRIPTION: EAST HARTFORD MAINTENANCE FACILITY AND SIGNS AND MARKING FACILITY
TOWN(S): EAST HARTFORD
DRAWING TITLE: INDEX OF DRAWINGS

DRAWING NO. MM-001
SHEET NO. **06E.01**

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PLOTTED DATE: 2/22/2022

LEGEND

PIPING

- BD — BOILER BLOW DOWN
- CWR — CHILLED WATER RETURN
- CWS — CHILLED WATER SUPPLY
- CR — CONDENSER WATER RETURN
- CS — CONDENSER WATER SUPPLY
- D — DRAIN LINE
- FR — FUEL OIL RETURN
- FS — FUEL OIL SUCTION
- G — GAS
- HR — HOT WATER RETURN
- HS — HOT WATER SUPPLY
- H — HUMIDIFICATION LINE
- LG — LIQUID PETROLEUM GAS
- MU — MAKEUP WATER
- RD — REFRIGERANT DISCHARGE
- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- W — WASTE
- UNDERGROUND STORAGE TANK - ELECTRICAL CONDUIT
- UNDERGROUND STORAGE TANK - GASOLINE OR DIESEL
- UNDERGROUND STORAGE TANK - STAGE II VAPOR RECOVERY
- VENT

FITTINGS

- BRANCH OFF TOP OF MAIN
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- PIPE RISER DOWN
- PIPE RISER UP
- UNION

VALVES

- AIR ELIMINATOR
- BALL
- CHECK
- FLOW CONTROL
- GAS
- HOT WATER CONTROL
- PLUG
- PRESSURE AND TEMPERATURE RELIEF
- PRESSURE REDUCING
- SAFETY
- SHOW
- SOLENOID
- SQUARE HEAD COCK
- THREE-WAY MIXING
- TRIPLE DUTY
- TWO-WAY MIXING

PIPING SPECIALTIES

- AIR SEPARATOR
- AIR VENT
- REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTER
- CAP
- CIRCUIT SETTER WITH GAUGE CONNECTIONS
- CONVECTOR
- DIAL TYPE THERMOMETER
- DRAW OFF DRAIN
- EXPANSION JOINT
- FINNED TUBE RADIATION
- FLEXIBLE CONNECTOR
- FLOW SWITCH
- HORIZONTAL UNIT HEATER (UH), PLAN VIEW
- IMMERSION SENSOR IN SENSOR WELL

LEGEND CONT.

PIPING SPECIALTIES CONT.

- FLOWMETER, ORIFICE
- FLOWMETER, VENTURI
- OIL TRANSFER PUMP
- PRESSURE GUAGE WITH BRASS PETCOCK
- RUNNING TRAP
- STRAIGHT TYPE THERMOMETER
- STRAINER
- WATER HAMMER ARRESTOR (WITH ACCESS DOOR IF REQUIRED)
- ZONE CIRCULATING WATER PUMP

AIR MOVING DEVICES

- DETECTOR, CARBON DIOXIDE
- DETECTOR, CARBON MONOXIDE #X
- DETECTOR, NITROGEN DIOXIDE #X
- FAN, AXIAL FLOW (AF-X)
- FAN, AXIAL FLOW - PLAN VIEW (AF-X)
- FAN, CENTRIFUGAL (CF-X)
- FAN, PADDLE (PF-X)
- FAN, PADDLE - PLAN VIEW (PF-X)
- FAN SPEED CONTROL SWITCH
- ROOF VENTILATOR, EXHAUST
- ROOF VENTILATOR, INTAKE
- ROOF VENTILATOR, LOUVERED
- UNIT VENTILATOR, PLAN VIEW

DUCTWORK

- ACCESS DOOR
- DAMPER, BACKDRAFT
- DAMPER, ELECTRIC OPERATED
- DAMPER, FIRE
- DAMPER, PNEUMATIC
- DAMPER, SMOKE
- DAMPER, SPLITTER
- DAMPER, VOLUME
- DUCT SECTION, RETURN OR EXHAUST
- DUCT SECTION, SUPPLY
- DUCT SIZE (WIDTH x DEPTH) - INCHES (DUCT SIZES ARE INSIDE DIMENSIONS)
- DUCT SMOKE DETECTOR
- FLEXIBLE CONNECTION
- FLEXIBLE DUCT
- FREEZESTAT
- LOW LIMIT THERMOSTAT
- MIXING BOX
- PRESSURE AIR FLOW, NEGATIVE
- PRESSURE AIR FLOW, POSITIVE
- TERMINAL UNIT, REHEAT VARIABLE VOLUME
- TERMINAL UNIT, VARIABLE VOLUME
- SENSOR, DUCT
- SENSOR, VELOCITY
- TERMINAL UNIT, REHEAT VARIABLE VOLUME
- TERMINAL UNIT, VARIABLE VOLUME

LEGEND CONT.

GRILLES, REGISTERS, AND DIFFUSERS

- 2-WAY CEILING DIFFUSER (D)
- 4-WAY CEILING DIFFUSER (D)
- DOOR GRILLE
- INTAKE LOUVERS ON SCREEN
- LINEAR DIFFUSER
- LOUVER OPENING
- RETURN GRILLE (RG)
- UNDERCUT DOOR

MISCELLANEOUS

- CENTER LINE
- COMPRESSOR SUCTION VALVE, PRESSURE LIMITING THROTTLING TYPE (COMPRESSOR SIDE)
- CONDENSING UNIT
- CONSTANT PRESSURE VALVE, SUCTION
- CURRENT SWITCH
- DOOR POSITION SWITCH
- DRYER
- EVAPORATOR PRESSURE REGULATING VALVE, SNAP-ACTION
- EVAPORATOR PRESSURE REGULATING VALVE, THERMOSTATIC, THROTTLING TYPE
- EVAPORATOR PRESSURE REGULATING VALVE, THROTTLING TYPE (EVAPORATOR SIDE)
- EXPANSION VALVE
- FILTER
- FILTER AND STRAINER
- FILTER DRYER
- OUTDOOR AIR TEMPERATURE SENSOR
- PRESSURE SWITCH
- SCALE TRAP
- SIGHT GLASS
- SPACE SENSOR
- SPACE SENSOR WITH EMERGENCY OVERRIDE
- SPACE SENSOR WITH TIMED OVERRIDE
- SPACE SENSOR-WEATHERPROOF
- THERMAL BULB

GENERAL NOTES

1. THE INSTALLER SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. FAILURE TO NOTIFY THE ENGINEER WILL NOT RELIEVE THE INSTALLER OF RESPONSIBILITY. THE INSTALLER SHALL CORRECT ALL WORK ARISING FROM SUCH FAILURE TO COORDINATE DISCREPANCIES TO THE SATISFACTION OF THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
2. MECHANICAL INSTALLER SHALL BE REQUIRED TO COORDINATE WITH ALL NECESSARY CONTRACTORS TO PREVENT INSTALLATION CONFLICTS.
3. ALL DUCTWORK AND EQUIPMENT SHALL BE SUPPORTED TO SUIT FIELD CONDITIONS AS APPROVED BY THE DESIGNER.
4. USE FLEXIBLE CONNECTIONS ON ALL EQUIPMENT SUPPLY, RETURN, & EXHAUST OPENINGS.
5. METHOD OF SEALING HVAC WALL PENETRATIONS SHALL BE IN ACCORDANCE WITH NFPA STANDARDS.
6. HVAC EQUIPMENT CLEARANCES SHALL BE IN ACCORDANCE WITH NFPA STANDARDS, INCLUDING NFPA 90A AND NFPA 251.
   a. ALL SPACE SENSORS IN THE OFFICE CORE SHALL BE MOUNTED 48" AFF MAX TO TOP OF SENSOR WHILE ALL SPACE SENSORS IN THE BAY AREAS SHALL BE MOUNTED 72" AFF MAX TO TOP OF SENSOR.
   b. ALL CARBON DIOXIDE SENSORS IN THE OFFICE CORE SHALL BE MOUNTED 48" AFF MAX TO TOP OF SENSOR.
   c. ALL REMOTE CARBON MONOXIDE SENSORS SHALL BE MOUNTED AT THE BOTTOM OF STEEL JOISTS.

ABBREVIATIONS

AC	AIR CONDITIONING
AD	ACCESS DOOR
AF	AXIAL FAN
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AL	ACOUSTICAL LINING
AMB	AMBIENT
ATC	AUTOMATIC TEMPERATURE CONTROL
AVG	AVERAGE
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACKDRAFT DAMPER
BO	BLANK OFF
BOD	BOTTOM OF DUCT
BOS	BOTTOM OF STEEL
BTUH	BRITISH THERMAL UNITS/HOUR
C	CONVECTOR
CA	COMBUSTION AIR
CAP	CAPACITY
CCH	CABINET CONVECTION HEATER
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CSBV	COMBINATION SHUTOFF & BALANCE
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
D	DIFFUSER
DBT	DRY BULB TEMPERATURE
DC	DOOR CONTACT
dia	DIAMETER
DN	DOWN
DOD	DRAW OFF DRAIN
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EL	ELEVATION
ELEC	ELECTRICAL
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
FA	FRESH AIR
FC	FLEXIBLE CONNECTION
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FO	FUEL OIL
FPM	FEET PER MINUTE
FRP	FIBERGLASS REINFORCED PIPE
FT	FOOT/FEET
FTR	FINNED TUBE RADIATION
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GPM	GALLONS PER MINUTE
H	HOT
HM	HOT WATER MAIN LOOP
HP	HORSEPOWER
HGT	HEIGHT
HV	HEATING AND VENTILATION
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HWB	HOT WATER BOILER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
Hz	HERTZ

ABBREVIATIONS CONT.

id	INSIDE DIAMETER
JB	JUNCTION BOX
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MAINT	MAINTENANCE
max	MAXIMUM
MBH	THOUSAND BTUH
min	MINIMUM
MOD	MOTOR OPERATED DAMPER
MTD	MOUNTED
N	NEUTRAL
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTDOOR AIR
oc	ON CENTER
od	OUTSIDE DIAMETER
OL	OVER LOAD
OPP	OPPOSITE
PD	PRESSURE DROP
PF	PADDLE FAN
PH	PHASE
PLCS	PLACES
PVC	POLY VINYL CHLORIDE CONDUIT
R	RETURN
rad	RADIUS
RA	RETURN AIR
REQ'D	REQUIRED
RG	RETURN GRILLE
RHC	REHEAT COIL
RMC	RIGID METAL CONDUIT
RPM	REVOLUTIONS PER MINUTE
RSC	RIGID STEEL CONDUIT
S	SUPPLY
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SP	STATIC PRESSURE
SQ	SQUARE
STD	STANDARD
TCM	THERMOSTAT CONTROL MODULE
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UST	UNDERGROUND STORAGE TANK
UV	UNIT VENTILATOR
V	VOLT
VAC	VOLTAGE ALTERNATING CURRENT
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VIF	VERIFY IN FIELD
W/	WITH
WG	WATER GAUGE
WBT	WET BULB TEMPERATURE
WPD	WATER PRESSURE DROP
WTD	WATER TEMPERATURE DROP

GENERAL NOTES CONT.

7. METHODS OF ATTACHMENT OF SEISMIC RESTRAINT CABLES SHALL COMPLY WITH THE FOLLOWING:
   a. TO EQUIPMENT: BOLT ANGLE CLIPS TO SUSPENDED EQUIPMENT ADJACENT TO THE HANGER RODS. ORIENT THE FOUR SEISMIC CABLES 90º TO EACH OTHER. ATTACH SEISMIC CABLES TO ANGLE CLIPS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
   b. TO STRUCTURE: ATTACH SEISMIC CABLE TO TOP CORD OF ROOF JOISTS WITH APPROPRIATE FASTENING DEVICES. WELDING, BURNING, OR DRILLING OF THE ROOF JOISTS SHALL NOT BE PERMITTED. THE SEISMIC CABLE SHALL BE DRAWN TAUT BUT SHALL NOT DISPLACE THE UNITS. ATTACHMENT TO BOTTOM CHORD OF ROOF JOISTS SHALL NOT BE PERMITTED! PROVIDE DESIGNER WITH METHOD OF ATTACHMENT TO ROOF JOISTS FOR APPROVAL.
8. UNLESS OTHERWISE INDICATED, ALL BRANCH PIPING SHALL BE OFF THE BOTTOM OF THE MAIN PIPING RUN.

REVISION DESCRIPTION | DATE | REV

DESIGNER/DRAFTER: JJT CHECKED BY: JAB

NOT TO SCALE

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0042-0324
PROJECT DESCRIPTION: EAST HARTFORD MAINTENANCE FACILITY AND SIGNS AND MARKING FACILITY
TOWN(S): EAST HARTFORD
DRAWING TITLE: LEGEND & GENERAL NOTES

DRAWING NO. MM-002
SHEET NO. 06E.02

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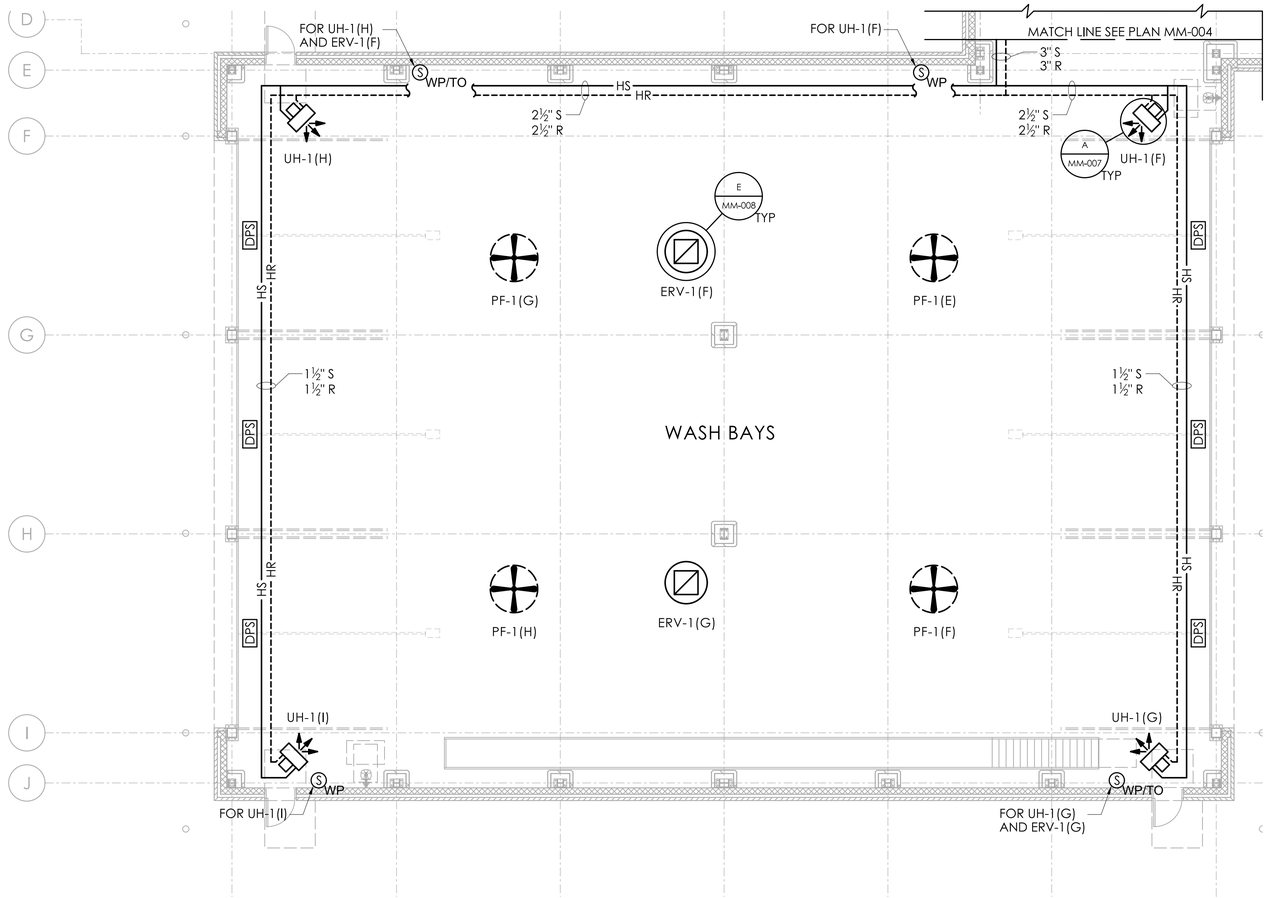
PLOTTED DATE: 2/22/2022

NOTES:

1. CONTRACTOR SHALL INSULATE BEHIND SENSORS.
2. REFER TO DRAWING NO. PM-015 FOR WALL SLEEVE DETAILS.
3. THE FOLLOWING TYPES OF SURFACE MOUNTED CONDUIT SHALL BE INSTALLED IN THE BAY AREAS: RMC BELOW 10'-0" AFF, EMT ABOVE 10'-0". REFER TO CSI SECTION 260533 FOR ADDITIONAL INFORMATION.
4. REFER TO ELECTRICAL DRAWINGS FOR PADDLE FAN SPEED CONTROLLER LOCATIONS.



KEY PLAN

REVISION DESCRIPTION | DATE | REV.

DESIGNER/DRAFTER: JJT CHECKED BY: JAB

SCALE: ⅛" = 1'-0"

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0042-0324
PROJECT DESCRIPTION: EAST HARTFORD MAINTENANCE FACILITY AND SIGNS AND MARKING FACILITY
TOWN(S): EAST HARTFORD
DRAWING TITLE: WASH BAY AREA MECHANICAL PLAN

DRAWING NO. MM-003
SHEET NO. **06E.03**

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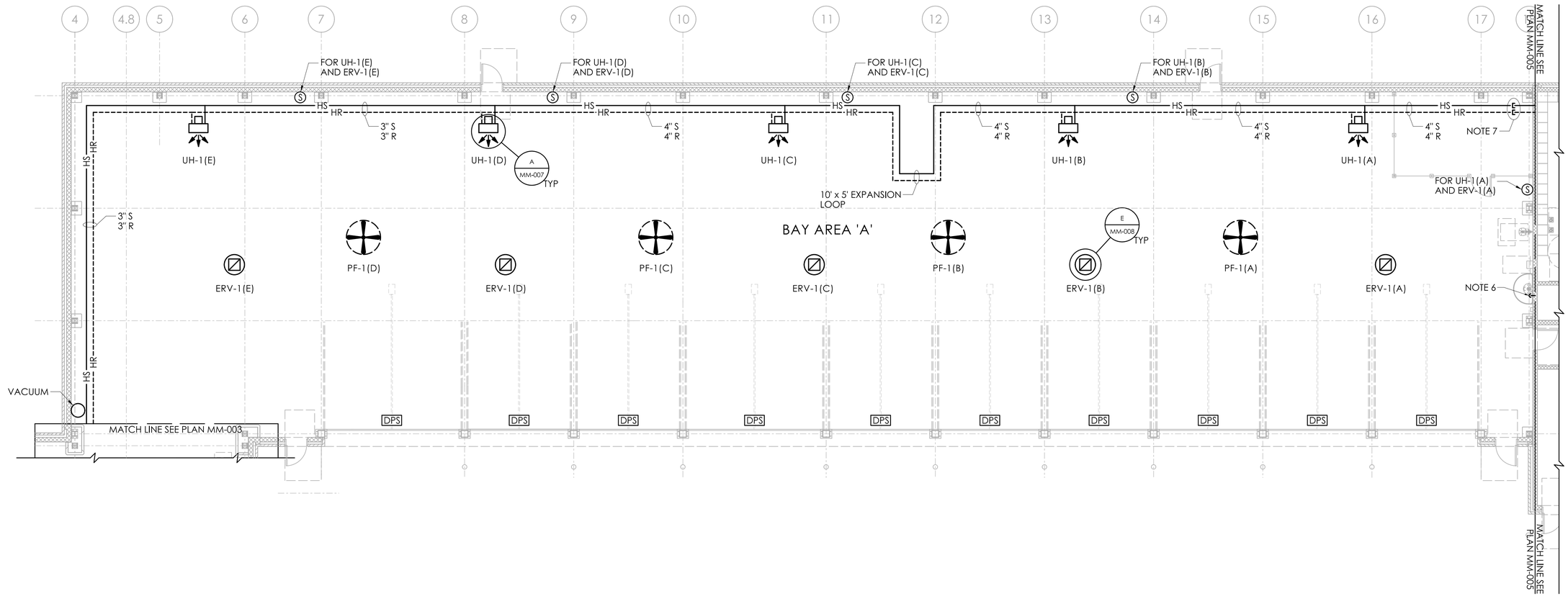
PLOTTED DATE: 2/22/2022

NOTES:

1. CONTRACTOR SHALL INSULATE BEHIND SENSORS.
2. REFER TO DRAWING NO. PM-015 FOR WALL SLEEVE DETAILS.
3. THE FOLLOWING TYPES OF SURFACE MOUNTED CONDUIT SHALL BE INSTALLED IN THE BAY AREAS: RMC BELOW 10'-0" AFF, EMT ABOVE 10'-0". REFER TO CSI SECTION 260533 FOR ADDITIONAL INFORMATION.
4. REFER TO ELECTRICAL DRAWINGS FOR PADDLE FAN SPEED CONTROLLER LOCATIONS.
5. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HVAC EQUIPMENT AND PIPING WITH TOOL STORAGE AREA FENCE.
6. PROVIDE CONDENSATE DRAIN PIPING FROM AC-2 THRU WALL TO WASH FOUNTAIN. CONTRACTOR SHALL MAINTAIN ⅛" PER FOOT MINIMUM DRAINING PITCH AND RUN PIPING TIGHT TO WALLS. PROVIDE 4" AIR GAP ABOVE WASH FOUNTAIN.
7. STUB PIPING THROUGH WALL AND CAP AS PART OF PHASE 2 CONSTRUCTION. CONNECTION TO BAY AREA PIPING SHALL BE MADE IN PHASE 3. REFER TO SUPPORTING DOCUMENTS SUBSET FOR PHASING PLANS



KEY PLAN

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: JJT CHECKED BY: JAB

SCALE: ⅛" = 1'-0"

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0042-0324
PROJECT DESCRIPTION: EAST HARTFORD MAINTENANCE FACILITY AND SIGNS AND MARKING FACILITY
TOWN(S): EAST HARTFORD
DRAWING TITLE: BAY AREA 'A' MECHANICAL PLAN

DRAWING NO. MM-004
SHEET NO. **06E.04**

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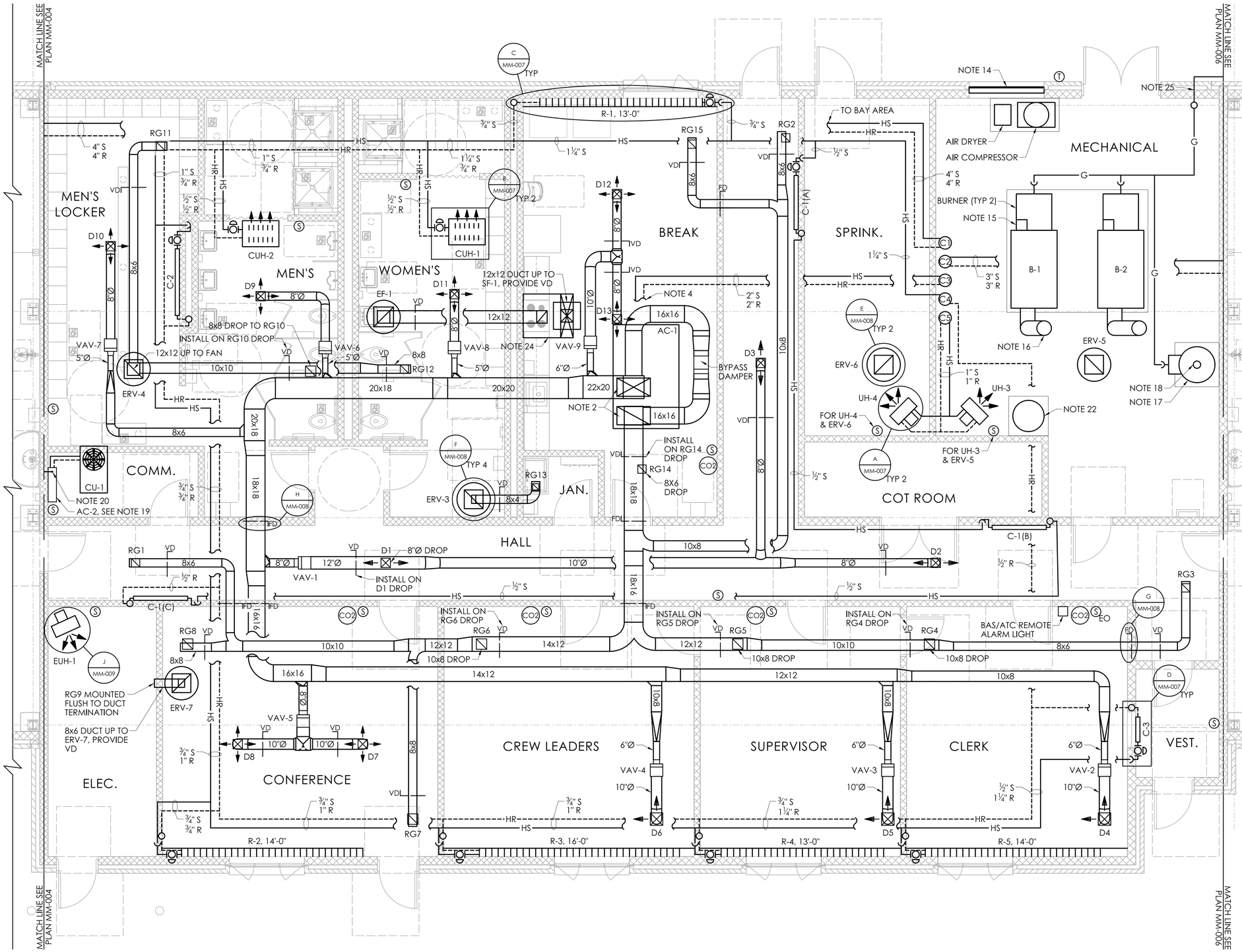
PLOTTED DATE: 2/22/2022



NOTES:

1. DUCT MOUNTED SMOKE DETECTOR TO BE FURNISHED IN SUPPLY AND RETURN PLENUM, WIRED, AND CONNECTED BY THE ELECTRICAL INSTALLER. TO BE INSTALLED BY THE MECHANICAL INSTALLER. REFER TO ELECTRICAL DRAWINGS.
2. OPENING THRU ROOF FOR AC-1. FIELD VERIFY SIZE WITH APPROVED AC UNIT BASED UPON AS SPECIFIED.
3. [L][S][V]. IN SUPPLY DUCTWORK UP THROUGH ROOF TO ROOFTOP UNIT.
4. TO HYDRONIC HEATING COIL (HWC-1) IN SUPPLY DUCTWORK. REFER TO DRAWING NO. MM-007 FOR HWC PIPING DIAGRAM.
5. PROVIDE RECTANGULAR TO ROUND DUCT TRANSITIONS AT VAV DAMPER LOCATIONS.
6. EXHAUST DUCTWORK IN BATHROOMS AND JANITOR'S CLOSET SHALL BE ALUMINUM IN ACCORDANCE WITH CSI SECTION 233113.
7. REFER TO DRAWING NO. AM-109 FOR THE REFLECTED CEILING PLAN.
8. REFER TO DRAWING NO. MM-008 FOR DUCT DETAILS.
9. INSTALL CONVECTOR AND FIN TUBE RADIATION PIPING IN ACCORDANCE WITH THE DETAILS ON DRAWING NO. MM-007. ALL PIPING DROPS AND RISES SHALL BE IN THE ENCLOSURE AND WALLS, SOME LOCATIONS SHOWN ARE FOR CLARITY ONLY. TWO POSITION HOT WATER CONTROL VALVES SHALL BE WITHIN THE ENCLOSURES, LOCATIONS SHOWN ARE FOR CLARITY ONLY.
10. REFER TO PLAN MM-007 FOR HYDRONIC PIPING DIAGRAM.
11. REFER TO DRAWING NO. PM-015 FOR EXTERIOR WALL, FLOOR, AND FIRE WALL PIPE SLEEVE DETAILS.
12. SURFACE MOUNTED CONDUITS IN THE MECHANICAL, ELECTRICAL, DATA, AND BAY AREAS SHALL BE: RMC BELOW 10'-0" AFF, EMT ABOVE 10'-0". REFER TO CSI SECTION 260533 FOR ADDITIONAL INFORMATION.
13. EQUIPMENT IS TO BE INSTALLED ON 6" THICK CONCRETE PADS, SIZED 4" LARGER ON EACH SIDE THAN THE EQUIPMENT BASE INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
    a. BOILERS 1 & 2 - ONE PAD
    b. EXPANSION TANK - ONE PAD
    c. WATER HEATER - ONE PAD
    d. AIR COMPRESSOR AND AIR DRYER - ONE PAD
    CONCRETE PADS SHALL BE INSTALLED BY THE CONCRETE INSTALLER IN THE LOCATIONS INDICATED BY THE MECHANICAL INSTALLER.
14. COMBUSTION AIR LOUVER WITH MOTORIZED ACTUATOR, WITH A MINIMUM OF 14.34 SQUARE FEET OF FREE AREA. INSTALL 12" BELOW CEILING. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND SIZE. INTERLOCK WITH BURNERS FOR BOILERS (BY BAS/INSTALLER).
15. BOILER OVERRIDE (AUTO/MANUAL) SWITCH TO BE INSTALLED BY BAS/ATC INSTALLER (TYP 2 PLCS).
16. 14" i.d. BREECHING AND CHIMNEY (TYP 2 PLCS), REFER TO DETAIL ON DRAWING NO. MM-009.
17. WATER HEATER, REFER TO DETAIL ON DRAWING NO. PM-013.
18. 7" i.d. BREECHING AND CHIMNEY WITH BAROMETRIC DAMPER.
19. AC-2 MOUNTED 7' AFF TO BOTTOM OF UNIT, CU-1 IS ROOF MOUNTED. PROVIDE REFRIGERANT PIPING FROM CU-1 TO AC-2. SIZE REFRIGERANT PIPING PER MANUFACTURERS REQUIREMENTS.
20. PROVIDE CONDENSATE DRAIN PIPING FROM AC-2 THRU WALL TO WASH FOUNTAIN. CONTRACTOR SHALL MAINTAIN ⅛" PER FOOT MINIMUM DRAINING PITCH AND RUN PIPING TIGHT TO WALLS.
21. PIPE CONDENSATE DRAIN FOR AC-1 AND CU-1 A MINIMUM OF 1'-0" AWAY TOWARDS ROOF DRAIN.
22. 211 GALLON (FULL ACCEPTANCE) BLADDER-TYPE EXPANSION TANK, FLOOR MOUNTED.
23. CONTRACTOR SHALL INSULATE BEHIND SENSORS.
24. TYPE II COMMERCIAL KITCHEN EXHAUST HOOD WITH BACK SUPPLY PLENUM. REFER TO CSI SECTION 233813 FOR MORE INFORMATION.
25. GAS PIPING PENETRATION THRU WALL AT APPROXIMATELY 5'-0" AFF, PROVIDE SLEEVE THRU WALL.

KEY PLAN

REVISION DESCRIPTION | DATE | REV.

DESIGNER/DRAFTER: JJT CHECKED BY: JAB

SCALE: ¼" = 1'-0"

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0042-0324
PROJECT DESCRIPTION: EAST HARTFORD MAINTENANCE FACILITY AND SIGNS AND MARKING FACILITY
TOWN(S): EAST HARTFORD
DRAWING TITLE: OFFICE AREA MECHANICAL PLAN

DRAWING NO. MM-005
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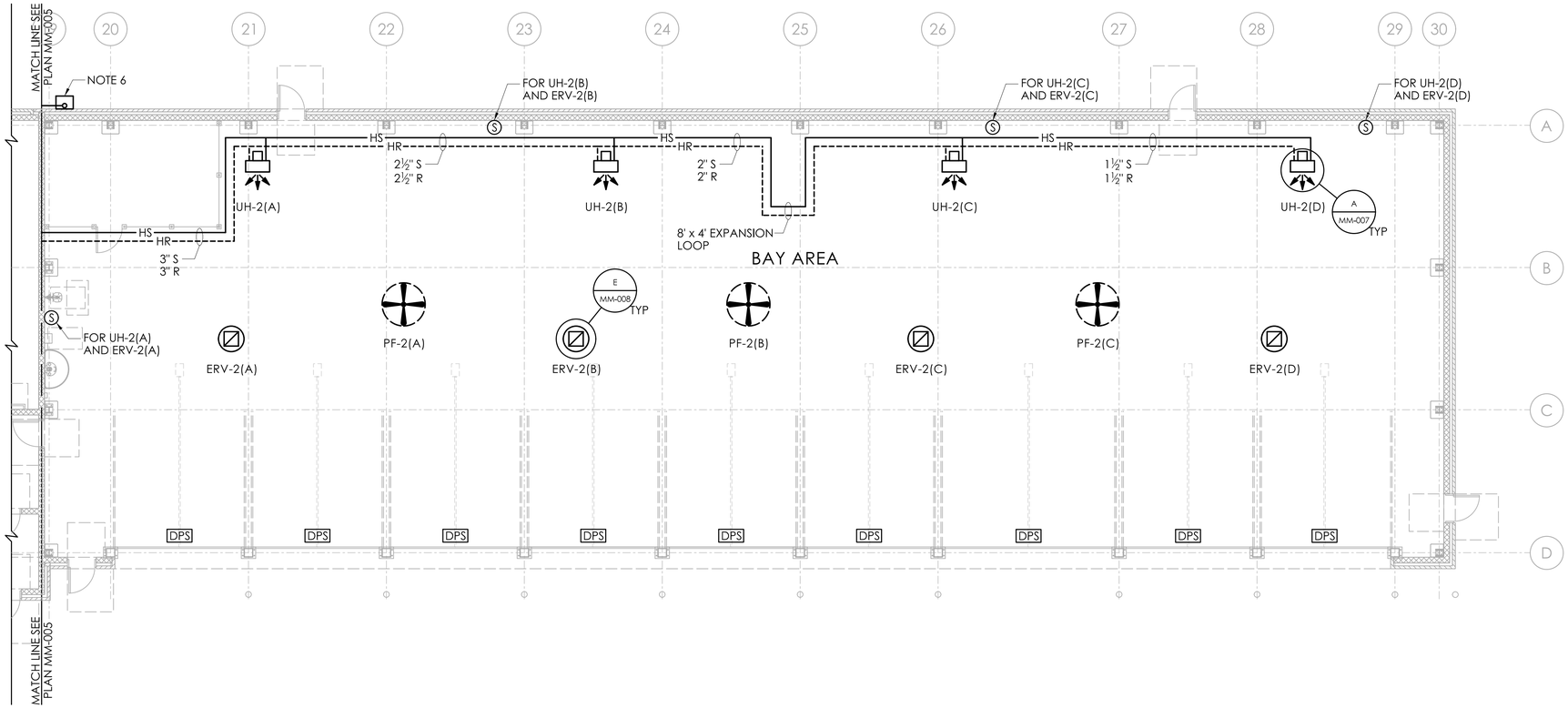
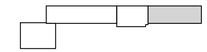
NOTES:

1. CONTRACTOR SHALL INSULATE BEHIND SENSORS.
2. REFER TO DRAWING NO. PM-015 FOR WALL SLEEVE DETAILS.
3. THE FOLLOWING TYPES OF SURFACE MOUNTED CONDUIT SHALL BE INSTALLED IN THE BAY AREAS: RMC BELOW 10'-0" AFF, EMT ABOVE 10'-0". REFER TO CSI SECTION 260533 FOR ADDITIONAL INFORMATION.
4. REFER TO ELECTRICAL DRAWINGS FOR PADDLE FAN SPEED CONTROLLER LOCATIONS.
5. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HVAC EQUIPMENT AND PIPING WITH TOOL STORAGE AREA FENCE.
6. METER-SET INSTALLED BY CNG. REFER TO DRAWING NO. C-006 FOR LOCATION OF GAS SERVICE LINE BY CNG. REFER TO DRAWING NO. MM-009 FOR GAS PIPING RISER DIAGRAM. INSTALL METER-SET IN ACCORDANCE WITH CNG REQUIREMENTS.



KEY PLAN



REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: JJT CHECKED BY: JAB

SCALE: 1/8" = 1'-0"

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT
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PROJECT NUMBER: 0042-0324
PROJECT DESCRIPTION: EAST HARTFORD MAINTENANCE FACILITY AND SIGNS AND MARKING FACILITY
TOWN(S): EAST HARTFORD
DRAWING TITLE: BAY AREA MECHANICAL PLAN

DRAWING NO. MM-006
SHEET NO. **06E.06**

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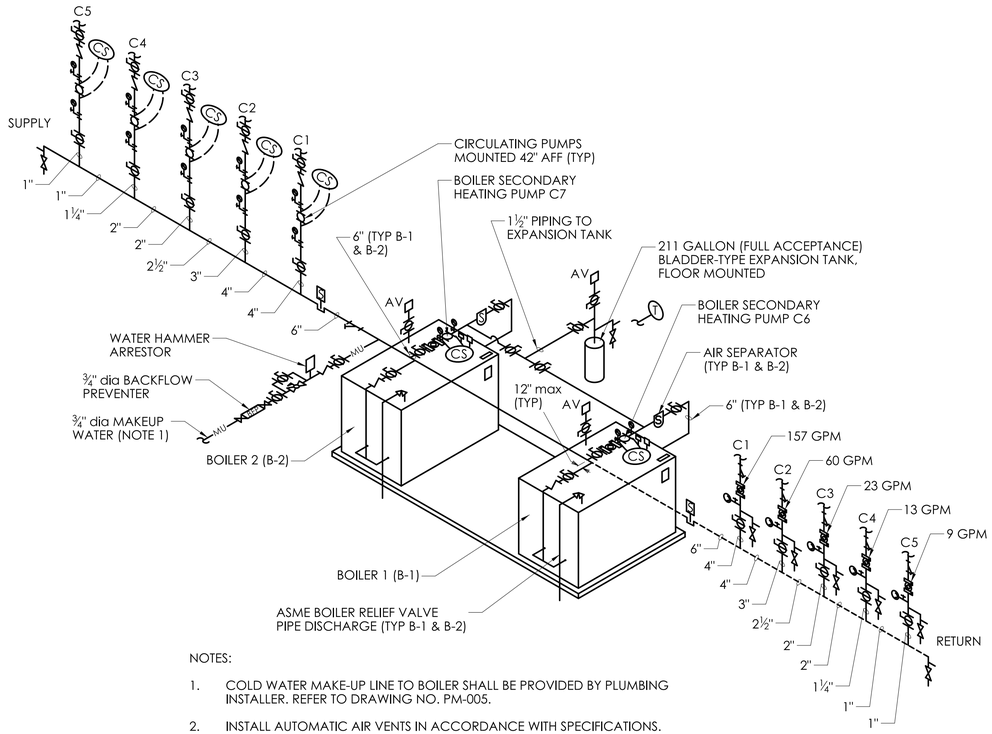
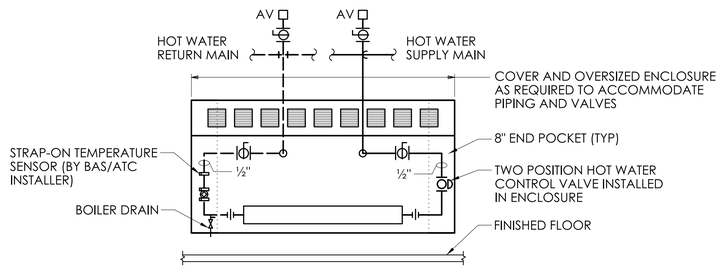
PLOTTED DATE: 2/22/2022



NOTES:

1. COLD WATER MAKE-UP LINE TO BOILER SHALL BE PROVIDED BY PLUMBING INSTALLER. REFER TO DRAWING NO. PM-005.
2. INSTALL AUTOMATIC AIR VENTS IN ACCORDANCE WITH SPECIFICATIONS.

HYDRONIC PIPING DIAGRAM

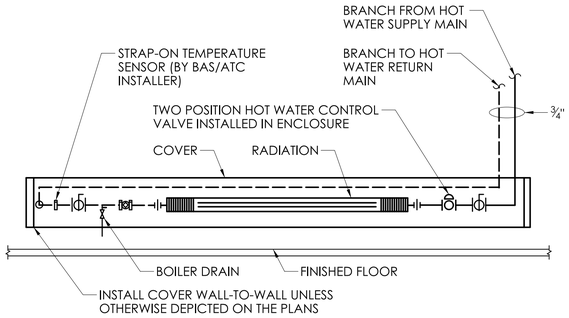


NOTES:

1. GC TO COORDINATE THE INSTALLATION OF THE CONVECTORS WITH THE INSTALLATION OF THE FINISHED FLOOR TO PREVENT DAMAGE TO THE EXPOSED PIPING, HEATING ELEMENT, PIPING SPECIALTIES, AND ENCLOSURE (INCLUDING BACK PANEL). DAMAGED WORK DEEMED TO BE UNACCEPTABLE TO THE ENGINEER SHALL BE REMOVED AND REPLACED.
2. GC TO COORDINATE THE INSTALLATION OF THE CONVECTORS WITH THE INSTALLATION OF TERRAZZO BASE. REFER TO DRAWING NO. AM-506 FOR DETAIL.
3. PROVIDE AIR VENTS WITH BALL VALVE AT HIGH POINTS IN PIPING.

TYPICAL CONVECTOR PIPING DETAIL

D
MM-005

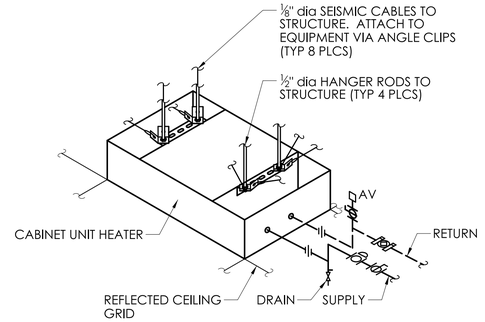


NOTES:

1. GC TO COORDINATE THE INSTALLATION OF THE FINNED TUBE RADIATION WITH THE INSTALLATION OF THE FINISHED FLOOR TO PREVENT DAMAGE TO THE EXPOSED PIPING, FINS, PIPING SPECIALTIES, AND ENCLOSURE (INCLUDING BACK PANEL). DAMAGED WORK DEEMED TO BE UNACCEPTABLE TO THE ENGINEER SHALL BE REMOVED AND REPLACED.
2. GC TO COORDINATE THE INSTALLATION OF THE FINNED TUBE RADIATION WITH THE INSTALLATION OF TERRAZZO BASE. REFER TO DRAWING NO. AM-506 FOR DETAIL.
3. PROVIDE AIR VENTS WITH BALL VALVE AT HIGH POINTS IN PIPING.

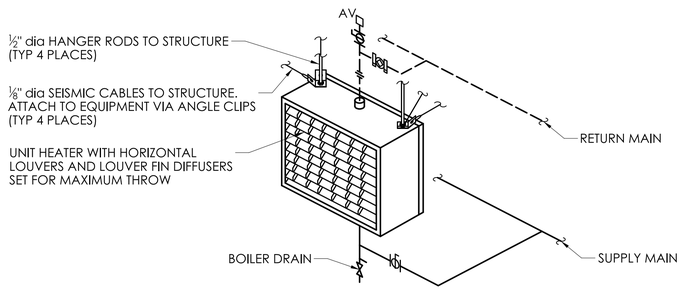
TYPICAL FIN TUBE RADIATION PIPING DETAIL

C
MM-005



TYPICAL CABINET UNIT HEATER PIPING DETAIL

B
MM-005

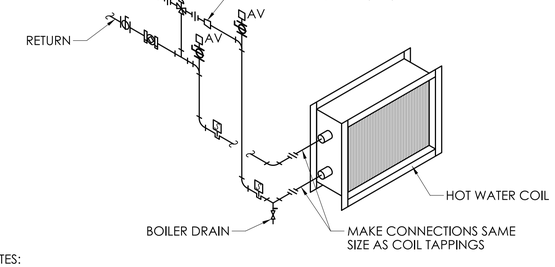


NOTE:

1. PROVIDE OSHA FAN GUARD.

TYPICAL HORIZONTAL UNIT HEATER PIPING DETAIL

A MM-003 | A MM-004 | A MM-005 | A MM-006



NOTES:

1. CONNECTIONS TO COIL INLET AND OUTLET SHALL BE FULL SIZE OF COIL TAPPINGS AND SHALL BE PROVIDED WITH UNIONS OR FLANGES TO FACILITATE COIL REMOVALS AND CONNECTIONS TO ADDED COILS.
2. MAKE BRANCH PIPING CONNECTIONS TO COIL HEADERS TO achieve AIR-WATER COUNTER-CROSSFLOW. PLUG COIL HEADER TAPPINGS WITH NO CONNECTIONS.
3. REFER TO SPECIFICATION SECTION 230993, "SEQUENCE OF OPERATIONS FOR HVAC CONTROLS" FOR ADDITIONAL INFORMATION.

DUCT MOUNTED HOT WATER COIL (HWC) PIPING DETAIL

REV. | DATE | REVISION DESCRIPTION

DESIGNER/DRAFTER: JJT CHECKED BY: JAB

NOT TO SCALE

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0042-0324
PROJECT DESCRIPTION: EAST HARTFORD MAINTENANCE FACILITY AND SIGNS AND MARKING FACILITY
TOWN(S): EAST HARTFORD
DRAWING TITLE: TYPICAL MECHANICAL PIPING DETAILS

DRAWING NO. MM-007
SHEET NO. 06E.07

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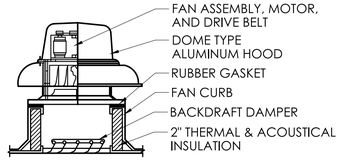
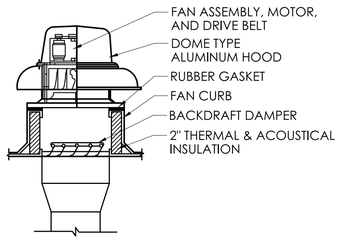


NOTE:

1. OPENING THROUGH ROOF AS SPECIFIED IN SCHEDULE. FIELD VERIFY SIZE WITH EXHAUST FAN AND ROOF CURB.

ROOF MOUNTED EXHAUST FAN (ERV) DETAIL

E MM-003 | E MM-004 | E MM-005 | E MM-006



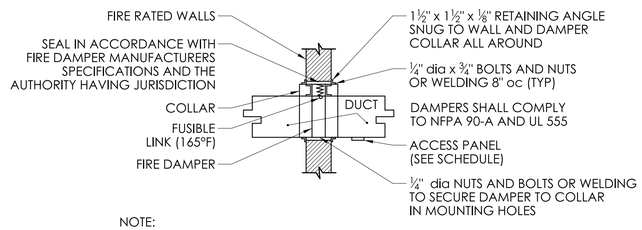
NOTE:

1. OPENING THROUGH ROOF AS SPECIFIED IN SCHEDULE. FIELD VERIFY SIZE WITH EXHAUST FAN AND ROOF CURB.

DUCTED ROOF MOUNTED EXHAUST FAN (ERV) DETAIL

F MM-005

ACCESS PANEL SCHEDULE	
DUCT WIDTH	MINIMUM PANEL SIZE
UP TO 12"	6" x 12"



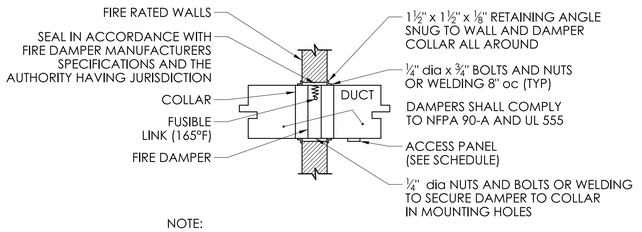
NOTE:

1. FOR USE IN HIGH AND MEDIUM PRESSURE DUCTWORK AND LOW PRESSURE DUCTWORK WITH SIDE DIMENSION LESS THAN 12".

FIRE DAMPER DETAIL FOR DUCTWORK WITH SIDE DIMENSION UP TO 12"

G MM-005

ACCESS PANEL SCHEDULE	
DUCT WIDTH	MINIMUM PANEL SIZE
UP TO 12"	6" x 12"
13" TO 24"	12" x 12"
25" AND UP	18" x 18"

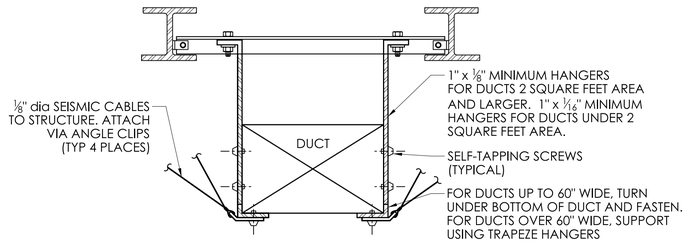


NOTE:

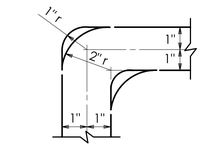
1. FOR USE IN LOW PRESSURE DUCTWORK.

FIRE DAMPER DETAIL FOR DUCTWORK WITH SIDE DIMENSION 12" AND GREATER

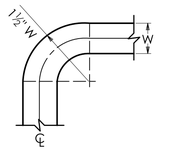
H MM-005



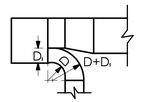
METHOD OF HANGING DUCTWORK



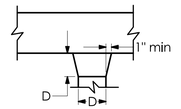
TURNING VANES
SUPPLY & RETURN DUCTS



FULL RADIUS ELBOW
SUPPLY & RETURN DUCTS



TAKE - OFF
SUPPLY DUCTS ONLY



TAKE - OFF
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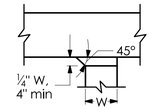

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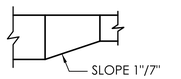
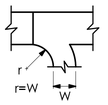
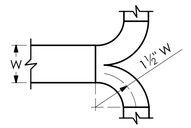


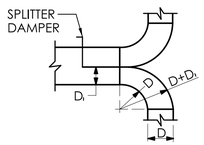
TRANSITION
SUPPLY & RETURN DUCTS



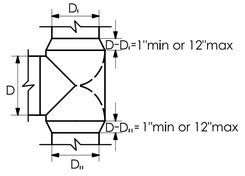
CONVERGING WYE
RETURN DUCTS ONLY



LONG RADIUS TEE
RETURN DUCTS ONLY

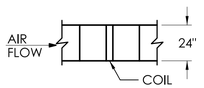


LONG RADIUS TEE
SUPPLY DUCTS ONLY

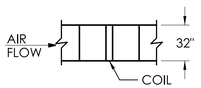


BULLHEAD TEE WITH VANES
ROUND SUPPLY DUCTS ONLY

TYPICAL DUCT DETAILS



FRONT VIEW



PLAN VIEW

HEATING COIL DUCT TRANSITIONS

NOTES:

1. REFER TO AM-505 FOR FLASHING DETAILS.
2. REFER TO PM-015 FOR PIPING SUPPORT AND SLEEVE DETAILS.

REV. | DATE | REVISION DESCRIPTION

DESIGNER/DRAFTER: JJT CHECKED BY: JAB

NOT TO SCALE

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0042-0324
PROJECT DESCRIPTION: EAST HARTFORD MAINTENANCE FACILITY AND SIGNS AND MARKING FACILITY
TOWN(S): EAST HARTFORD
DRAWING TITLE: TYPICAL HVAC DETAILS

DRAWING NO. MM-008
SHEET NO. 06E.08

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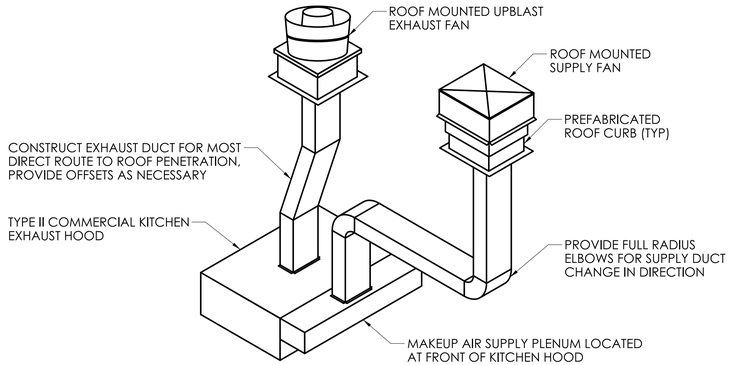
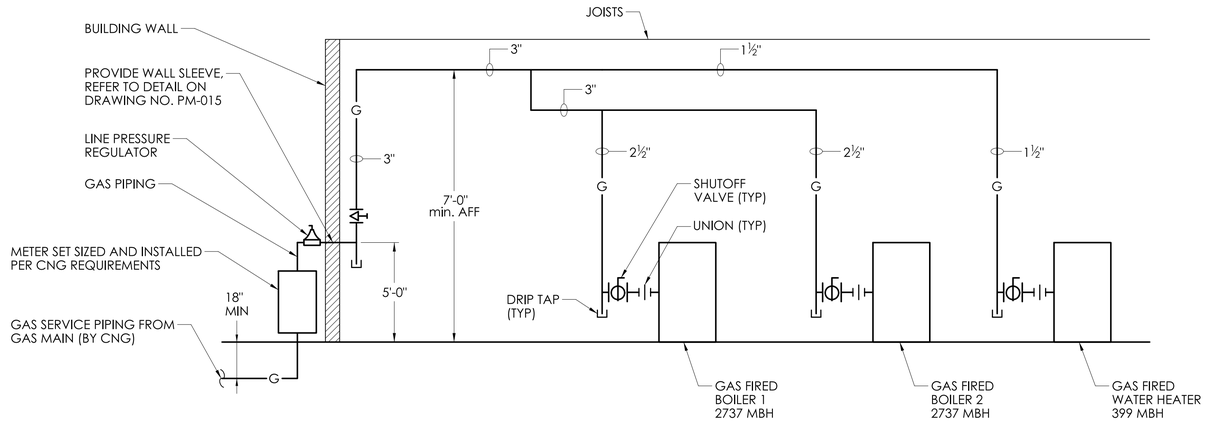


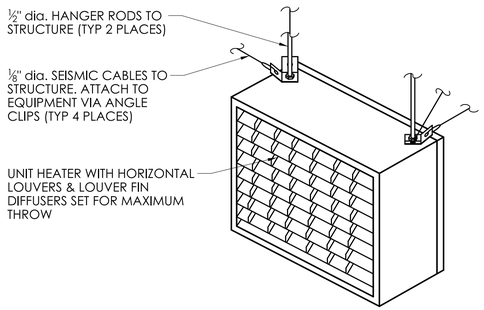
NOTES:

1. PROVIDE 10' MINIMUM HORIZONTAL CLEARANCE BETWEEN SUPPLY & EXHAUST FANS
2. DUCT ORIENTATION MAY DEVIATE FROM DETAIL BASED ON SUPPLY & EXHAUST FAN LOCATIONS SPECIFIED IN MECHANICAL PLANS

TYPICAL COMMERCIAL KITCHEN HOOD SYSTEM



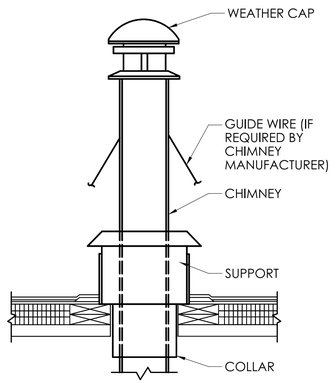
NATURAL GAS PIPING RISER DIAGRAM



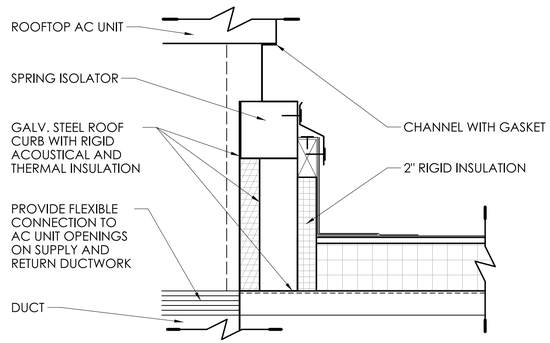
HORIZONTAL ELECTRIC UNIT HEATER (EUH) DETAIL

J

MM-005



BOILER CHIMNEY PENETRATION DETAIL



ROOFTOP AIR CONDITIONER CURB DETAIL

NOTE: REFER TO AM-505 FOR FLASHING DETAILS.

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: JJT CHECKED BY: JAB

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0042-0324
PROJECT DESCRIPTION: EAST HARTFORD MAINTENANCE FACILITY AND SIGNS AND MARKING FACILITY
TOWN(S): EAST HARTFORD
DRAWING TITLE: MISCELLANEOUS MECHANICAL DETAILS

DRAWING NO. MM-009
SHEET NO. 06E.09

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PLOTTED DATE: 2/22/2022

CONVECTOR/CABINET UNIT HEATER SCHEDULE

MARK	LOCATION	MODEL NO.	GPM	MBH	H x D x L	EWT	LWT	EAT	TYPE
C-1(A) THRU (C)	HALLWAY	SW-A	0.71	6.9	14" x 4" x 52"	200	180	65	SLOPETOP
C-2	MEN'S LOCKER	SW-A	0.96	9.3	18" x 4" x 64"	200	180	65	SLOPETOP
C-3	VESTIBULE	SW-A	0.29	2.8	14" x 4" x 24"	200	180	65	SLOPETOP
CUH-1	WOMEN'S ROOM	RC-1200	1.22	11.8	25" x 9½" x 35"	200	180	65	CEILING
CUH-2	MEN'S ROOM	RC-1200	1.22	11.8	25" x 9½" x 35"	200	180	65	CEILING

NOTES:
1. BASED ON VULCAN RADIATOR
2. TEMPERATURES ARE IN DEGREES - FAHRENHEIT
3. H x D x L DIMENSIONS DO NOT INCLUDE END POCKETS
4. CUH-1 & CUH-2 MOTOR: 1/15HP, 120V, 1PH, 60HZ

ROOFTOP AIR CONDITIONER SCHEDULE

MARK	AREA SERVED	MODEL NO.	CFM	OA CFM	COOLING LOAD		EDB	EWB	LDB	LWB	ESP	EER	SEER	COMP. MOTOR	IND. FAN MOTOR	OUT. FAN MOTOR	VOLT/PH/HZ
					SENSIBLE	LATENT											
AC-1	OFFICE	THC120F3R0A	3133	857	87.28	19.43	78.51	64.56	55.05	53.44	1.30	12.4	----	7.76 kW	1.53 kW	0.53 kW	208V, 1PH, 60HZ
AC-2	COMM. ROOM	CS-S9NKUA	230-395	0	8.5	-	-	-	-	-	-	13.1	21.0	-	-	-	208V, 1PH, 60HZ

NOTES:
1. AC-1 BASED ON TRANE CO., AC-2 BASED ON PANASONIC
2. WITH ECONOMIZERS
3. TEMPERATURES ARE IN DEGREES - FAHRENHEIT
4. AMBIENT TEMPERATURE = 90 DEGREES

CONDENSING UNIT SCHEDULE

MARK	AREA SERVED	EQUIPMENT SERVED	MODEL NO.	TONS	REFRIG.	NO. OF CIRCUITS	SEER	MOTOR	VOLT/PH/HZ
CU-1	COMM. ROOM	AC-2	CU-S9NKUA	0.75	R-410A	1	21.0	-	208V, 1PH, 60HZ

NOTES:
1. BASED ON PANASONIC
2. PROVIDE WITH LOW AMBIENT CONTROLS

HYDRONIC COIL SCHEDULE

MARK	LOCATION	TYPE & MODEL NO.	FINS/FT	MBH	GPM	CFM	EAT	EWT	LAT	WTD	WPD	APD	FACE VELOCITY (FPM)
HWC-1	DUCT MOUNTED, AC-1	24"x32" TYPE 5W 5/8" - 2 ROW	128	227.65	22.68	3133	53.07	200	120	20	0.54	0.222	587

NOTES:
1. BASED ON TRANE CO.
2. TEMPERATURES ARE IN DEGREES - FAHRENHEIT

PADDLE FAN SCHEDULE

MARK	MODEL NO.	BLADE SWEEP	DOWN ROD LENGTH	CFM	RPM	MOTOR
PF-1(A) THRU (D)	56301RDP	56"	24"	27,500	275	110W, 120V, 1PH, 60HZ
PF-1(E) THRU (H)	56101	56"	24"	25,500	265	110W, 120V, 1PH, 60HZ
PF-2(A) THRU (C)	56301RDP	56"	24"	27,500	275	110W, 120V, 1PH, 60HZ

NOTES:
1. BASED ON LEADING EDGE INC.
2. COLOR: WHITE
3. PF-1(E) THRU (H) SHALL BE WATERPROOF.
4. BOTTOM OF FAN SHALL BE 16' min. ABOVE SLAB. CUT DOWN ROD AS REQUIRED.

ELECTRIC UNIT HEATER SCHEDULE

MARK	TYPE & MODEL NO.	MBH	kW	CFM	RPM	THROW	MOUNTING HGT	MOTOR
EUH-1	HORIZONTAL - UHEC - 032A0C0	11.2	3.3	400	1550	12'	9'	1/125HP, 208V, 3PH, 60HZ

NOTES:
1. BASED ON TRANE CO.
2. MOUNTING HEIGHT IS THE DISTANCE FROM THE FLOOR TO THE BOTTOM OF THE HEATER.
3. TEMPERATURES ARE IN DEGREES - FAHRENHEIT.

RETURN GRILLE SCHEDULE

MARK	LOCATION	DIMENSION	CFM
RG1, RG2, RG3	HALLWAY	8x8	154
RG4	CLERK	10x10	304
RG5	SUPERVISOR	10x10	298
RG6	CREW LEADERS	10x10	313
RG7, RG8	CONFERENCE ROOM	10x10	280
RG9	ELECTRICAL ROOM	8x8	183
RG10	MEN'S ROOM	10x10	275
RG11	MEN'S LOCKER	8x8	172
RG12	WOMEN'S ROOM	8x8	220
RG13	JANITOR'S CLOSET	6x6	70
RG13, RG14	BREAK ROOM	8x8	170

NOTES:
1. BASED ON TITUS.
2. DIMENSIONS ARE BASED ON CORE AREA.

FINNED TUBE RADIATION SCHEDULE

MARK	AREA SERVED	BTU PER FT @ 190°F AVG. WT. TEMP.	TUBE SIZE	TUBE TYPE	FIN SPACING	FIN SIZE	COVER STYLE	ENCLOSURE HEIGHT	MOUNTING
R-3, R-4, R-5	OFFICE	900	1-1/4"	CU - AL	32 FINS/FT	3¼" x 3¼"	FS5	14"	WALL
R-1, R-2	OFFICE	1140	1-1/4"	CU - AL	48 FINS/FT	3¼" x 3¼"	FS5	14"	WALL

NOTE: BASED ON RITTLING

SUPPLY FAN SCHEDULE

MARK	AREA SERVED	TYPE	CFM	SP"	FAN RPM	MOTOR
SF-1	BREAK AREA	ROOF MOUNTED RSF-90	700	.375	683	1/4HP, 120V, 1PH, 60HZ

NOTE: BASED ON GREENHECK

UNIT HEATER SCHEDULE

MARK	TYPE & MODEL NO.	MBH	GPM	CFM	EWT	LWT	WPD	MOUNTING HGT	MOTOR
UH-1(A) THRU (E)	HORIZONTAL - 240 - S	174.0	17.4	3500	200	180	1.06	14	1/3HP, 120V, 1PH, 60HZ
UH-1(F) THRU (I)	HORIZONTAL - 240 - S	174.0	17.4	3500	200	180	1.06	14	1/3HP, 120V, 1PH, 60HZ
UH-2(A) THRU (D)	HORIZONTAL - 204 - S	148.1	14.9	2900	200	180	0.79	13	1/3HP, 120V, 1PH, 60HZ
UH-3	HORIZONTAL - 096 - S	62.7	7.0	1100	200	180	0.29	11	1/12HP, 120V, 1PH, 60HZ
UH-4	HORIZONTAL - A18 - S	18.4	1.9	500	200	180	2.20	8	16W, 120V, 1PH, 60HZ

NOTES:
1. BASED ON TRANE CO.
2. MOUNTING HEIGHT IS THE DISTANCE FROM THE FLOOR TO THE BOTTOM OF THE HEATER.
3. TEMPERATURES ARE IN DEGREES - FAHRENHEIT.

PUMP SCHEDULE

PUMP	AREA SERVED	TYPE & MODEL NO.	GPM	HEAD (FT)	MOTOR
C1	BAY AREA 'A' & WASH BAYS	1935 - 2"	157	67	4½HP, 208V, 3PH, 60HZ
C2	BAY AREA	1635 - 2"	60	28	1HP, 208V, 3PH, 60HZ
C3	OFFICE - HEATING COIL	1611 - 1½"	23	15	1/4HP, 120V, 1PH, 60HZ
C4	OFFICE - FTR & CONV.	2445 - 1½"	13	28	1/3HP, 120V, 1PH, 60HZ
C5	MECHANICAL & SPRINKLER RM.	IL0011 - ¾"	9	17	1/8HP, 120V, 1PH, 60HZ
C6	BOILER SECONDARY	KV4007D - 4" x 4"	196	11	3/4HP, 208V, 3PH, 60HZ
C7	BOILER SECONDARY	KV4007D - 4" x 4"	196	11	3/4HP, 208V, 3PH, 60HZ

NOTE: BASED ON TACO.

DIFFUSER SCHEDULE

MARK	LOCATION	FACE	DIMENSION	MOUNTING	MODEL	CFM	PATTERN
D1, D2, D3	HALLWAY	SQ	9x9	FL	S2	206	2-W
D4	CLERK	SQ	12x12	FL	G2	320	2-W
D5	SUPERVISOR	SQ	12x12	FL	G2	314	2-W
D6	CREW LEADERS	SQ	12x12	FL	G2	329	2-W
D7, D8	CONFERENCE ROOM	SQ	9x9	FL	A4	295	4-W
D9	MEN'S ROOM	SQ	9x9	FL	A4	250	4-W
D10	MEN'S LOCKER	SQ	9x9	FL	A4	156	4-W
D11	WOMEN'S ROOM	SQ	9x9	FL	A4	200	4-W
D12, D13	BREAK ROOM	SQ	9x9	FL	A4	179	4-W

NOTES:
1. BASED ON TITUS.
2. DIMENSIONS ARE BASED ON NECK AREA.

EXHAUST FAN SCHEDULE

MARK	AREA SERVED	TYPE & MODEL NO.	CFM	SP"	TIP SPEED	FAN RPM	MOTOR
ERV-1(A) THRU (E)	BAY AREA 'A' & WASH BAYS	ROOF MOUNTED 135C3B	1671	.125	4096	1159	1/4HP, 120V, 1PH, 60HZ
ERV-1(F) THRU (G)	WASH BAYS	ROOF MOUNTED 180C5B	3281	.125	4439	942	1/2HP, 208V, 3PH, 60HZ
ERV-2(A) THRU (D)	BAY AREA	ROOF MOUNTED 120C4B	1641	.125	4995	1590	1/3HP, 120V, 1PH, 60HZ
ERV-3	JANITOR'S CLOSET	ROOF MOUNTED 70C2B	70	.250	2434	930	1/6HP, 120V, 1PH, 60HZ
ERV-4	RESTROOMS & LOCKERS	ROOF MOUNTED 80C3B	667	.500	4728	1806	1/4HP, 120V, 1PH, 60HZ
ERV-5	MECHANICAL ROOM	ROOF MOUNTED 80C2B	510	.125	3241	1238	1/6HP, 120V, 1PH, 60HZ
ERV-6	SPRINKLER ROOM	ROOF MOUNTED 60C2B	233	.125	4510	1723	1/6HP, 120V, 1PH, 60HZ
ERV-7	ELECTRICAL ROOM	ROOF MOUNTED 60C2B	183	.250	4000	1528	1/6HP, 120V, 1PH, 60HZ
EF-1	BREAK ROOM	ROOF MOUNTED CUBE-99	668	.375	-	1238	1/4HP, 120V, 1PH, 60HZ

NOTES:
1. ERV'S BASED ON LOREN COOK.
2. EF-1 BASED ON GREENHECK.

VARIABLE AIR VOLUME BOX SCHEDULE

MARK	MOUNTING LOCATION	AREA SERVED	REQUIRED CFM	ELECTRICAL	MODEL NO.	REMARKS
VAV-1	HALLWAY	HALLWAY	617	24 VAC	VCCF08	8" INLET
VAV-2	CLERK	CLERK	320	24 VAC	VCCF06	6" INLET
VAV-3	SUPERVISOR	SUPERVISOR	314	24 VAC	VCCF06	6" INLET
VAV-4	CREW LEADERS	CREW LEADERS	329	24 VAC	VCCF06	6" INLET
VAV-5	CONFERENCE ROOM	CONFERENCE ROOM	590	24 VAC	VCCF08	8" INLET
VAV-6	MEN'S ROOM	MEN'S ROOM	250	24 VAC	VCCF05	5" INLET
VAV-7	MEN'S LOCKER	MEN'S LOCKER	156	24 VAC	VCCF05	5" INLET
VAV-8	WOMEN'S ROOM	WOMEN'S ROOM	200	24 VAC	VCCF05	5" INLET
VAV-9	BREAK ROOM	BREAK ROOM	357	24 VAC	VCCF06	6" INLET
BYPASS	CEILING PLENUM - BYPASS DUCT	-	1917	24 VAC	VADA - 14 x12	14"x12" INLET

NOTE: BASED ON VARITRAC DAMPERS BY TRANE CO.

REV.	DATE	REVISION DESCRIPTION

DESIGNER/DRAFTER: JJT CHECKED BY: JAB

NOT TO SCALE

SIGNATURE/ BLOCK:

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

PROJECT NUMBER: 0042-0324
PROJECT DESCRIPTION: EAST HARTFORD MAINTENANCE FACILITY AND SIGNS AND MARKING FACILITY
TOWN(S): EAST HARTFORD
DRAWING TITLE: MECHANICAL SCHEDULES

DRAWING NO. MM-010
SHEET NO. **06E.10**

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