

### **REMOVAL NOTES:**

1. THE SCOPE OF REMOVAL SHOWN ON "REMOVALS" DRAWINGS IS DIAGRAMMATIC ONLY AND INDICATES THE INTENT OF THE WORK TO BE PERFORMED AND NOT THE COMPLETE SCOPE OF DEMOLITION AND/OR REMOVAL WORK. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO REMOVE ANY RELATED MECHANICAL DEVICES EVEN IF NOT SPECIFICALLY INDICATED TO BE REMOVED ON THESE DRAWINGS IN ORDER TO ACCOMMODATE NEW WORK.

2. DEVICES SHOWN CROSS HATCHED ON DRAWINGS ARE ITEMS TO BE REMOVED. ANY DEVICES REMOVED SHALL INCLUDE (BUT SHALL NOT BE LIMITED TO) THE REMOVAL OF ALL ASSOCIATED PIPING, CONTROLS, ETC. THAT ARE NOT INCORPORATED IN THE NEW LAYOUT, UNTIL SUCH REMOVAL IS COMPLETE. THIS CONTRACTOR SHALL PERFORM ALL WORK REQUIRED TO INSURE CONTINUITY OF SERVICE TO EXISTING REMAINING EQUIPMENT. NO EXTRAS RELATING TO THE SCOPE OF WORK DESCRIBED WILL BE ALLOWED.

3. EQUIPMENT, PIPING, ETC., REQUIRED TO RECONNECT SHALL BE INSTALLED CONCEALED WITHIN THE NEW SUSPENDED CEILINGS, PARTITIONS AND/OR WALLS, FLOORS, NO SURFACE MOUNTED OR EXPOSED EQUIPMENT, PIPING, ETC., SHALL BE PERMITTED, UNLESS SPECIFICALLY INDICATED.

4. ALL ITEMS TO BE REMOVED SHALL BE REVIEWED WITH THE OWNER PRIOR TO REMOVAL. OWNER SHALL HAVE FIRST SALVAGE RIGHTS. ITEMS THE OWNER WISHES TO KEEP SHALL BE REMOVED WITH CARE AND STORED AS DIRECTED BY OWNER. ITEMS THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

EXISTING HOT WATER SUPPLY PIPING	<u></u>	EXISTING DUCTWORK, EQUIPMENT, ETC. TO REMAIN
PROPOSED CONTROL OF A CONTROL O	*******	
ANSWORD OUTSTURN WITH TURNING VANES  SQUARE DUCT TURN WITH TURNING VANES  MEMORY CELLING DIFFUSER  CELING EXHAUSTRETURN REGISTER THREE SERVICE  CELING EXHAUSTRETURN REGISTER THREE SERVICE  DUCT DOPP, DUCT RISE  MOTORIZED AIR VOLUME DAMPER (WACOCKING DEVICE)  ENSITING VALTER SUPPLY PIPRING  ENSITING HOT WATER SUPPLY PIPRING  FINANCE  ENSITING HOT WATER SUPPLY PIPRING  L L LOUGHD REFRIGERANT PIPRING  S SULTION REFRIGERANT PIPRING  S SULTION REFRIGERANT PIPRING  S SULTION REFRIGERANT PIPRING  S SULTION REFRIGERANT PIPRING  G COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)  THOM PRICE CONNECTION WITHIN PIPE  S STAND CONTROL VALVE  3 - WAY CONTROL VALVE  DOSTING BONER IDENTIFICATION  ENSITING BONER IDENTIFICATION  ENSITING HOT WATER PLAND INITI IDENTIFICATION  BOSTING HOT WATER CABINET HEATER IDENTIFICATION  FOR STAND HOT WATER PLAND INITI IDENTIFICATION  HOT WATER UNIT MEATER IDENTIFICATION  FOR STAND HOT WATER PLAND IDENTIFICATION  HOT WATER UNIT MEATER IDENTIFICATION  FOR CHAIN TABLE  POWER CABINET HEATER IDENTIFICATION  HOT WATER UNIT MEATER IDENTIFICATION  FOR CELING DIFFUSER  FOR CELING REGISTER  TO MALL MOTORIZE A F-U ON J TEMPERATURE SENSOR  WALL MOTORIZE A F-U ON J TEMPERATURE SENSOR  WALL MOTORIZE A F-U ON J CARBON DIOXIDE SENSOR  WALL MOTORIZE A F-U ON J CARBON DIOXIDE SENSOR  WALL MOTORIZE A F-U ON J CARBON DIOXIDE SENSOR  WALL MOTORIZE A F-U ON J CARBON DIOXIDE SENSOR  WAL		NEW DUCTWORK  —
SENTING FORMULT PIPER  COLORS STRENGED AND THE STRENGED S		NEW DUCTWORK
CELING ENTINSTRETURN REGISTER (INC. DELINGE STATE)  CELING ENTINSTRETURN REGISTER (INC. DELINGE)  ARGISTERIORFUSER IGENTIFICATION (INC. DELINGE)  DUCT DROP, DUCT RISE  DUCT DROP, DUCT RISE  DUCT LITD MANUAL ARY VOLUME DAMPER (IWL OCKING DEVICE)  AND TORIZED ARY VOLUME DAMPER (IWL COKING DEVICE)  AND TORIZED ARY VOLUME DAMPER (IWL COKING DEVICE)  AND TORIZED ARY VOLUME DAMPER (IWL COKING DEVICE)  AND TORIZED ARY VOLUME DAMPER (IWL DAMPROVED) & ACCESS DOOR  FIRMS DAMPER (ILL APPROVED) & ACCESS DOOR  AND TORIZED ARY VOLUME DAMPER (IWL APPROVED) & ACCESS DOOR  ENVIR DAMPER (ILL APPROVED) & ACCESS DOOR  AND THATER RETURN PIPHIG  LUCID REFRIGERANT PIPHIG  AND THATER RETURN PIPHIG  AND THATER RETURN PIPHIG  CO COMMENSATE DRAIN PIPHIG  AND THATER RETURN PIPHIG  AND THATER CANNERS PIPHIG  AND THATER CANNERS PIPHIG  CO COMMENSATE DRAIN PIPHIG  AND THATER CANNERS SHITLOFF VALVE (ORGUIT SETTER)  AND CONTROL VALVE  A JUNY CONTROL VALVE  A JUNY CONTROL VALVE  A JUNY CONTROL VALVE  CO CON		
CRUMO ENVIANSTRETURA RESISTER  REGISTER CIPTURES EN DENTIFICATION  REGISTER CONTROLL AND YOU AND CONTROLL OF SOME PROPERTY OF SOME PROJECT OF THE CONTROLL OF SOME PROPERTY OF S		NEW 4-WAY CEILING DIFFUSER ——CFM
DUCT MORP DUCT MISE  DUCT MORP DUCT MISE  DUCT MORP ANNUAL AIR VOLUME DAMPER (WALCKING DEVICE)  MOTORIZED AIR VOLUME DAMPER (WALCKING DEVICE)  MOTORIZED AIR VOLUME DAMPER (WALCKING DEVICE)  PRED DAMPER (ILL APPROVED) & ACCESS DOOR  COMBINATION FRESHINGE DAMPER (ILL APPROVED) & ACCESS DOOR  COMBINATION WATER SUPPLY PIPMIG  CHAST OF A COMBINATION FROM THE MISS  SUCTION REPRICEMENT PIPMIG  JULIUD REPRICEMENT PIPMIG  GOOD COMBINATION WATER PIPMIG  ACTE VALVE DAMPING  COMBINATION BALANCING S SHUT-OFF VALVE (CIRCUIT SETTER)  COMBINATION SHUT-OFF VALVE  COMBINATION BALANCING S SHUT-OFF VALVE (CIRCUIT SETTER)  COMBINATION SHUT-OFF VALVE  COMBINATION SHUT-OFF VALVE  COMBINATION SHUT-OFF VALVE (CIRCUIT SETTER)  COMBINATION SHUT-OFF VALVE  COMBINATION SHUT-OFF VALV		CEILING EXHAUST/RETURN REGISTER ——CFM
DUCT MTD. MANUAL AIR VOLUME DAMPER (WACCESS DOOR)  OR STATE ON THE CONTROL OF THE	***	REGISTER/DIFFUSER IDENTIFICATION
MOTORIZED AIR VOLUME DAMPER (WIACCESS DOOR)  READ  REA	D→ -R→	DUCT DROP; DUCT RISE
FIRE DAMPER (U.L. APPROVED) & ACCESS DOOR FROM STATE SHEED SHOCKE DAMPER (U.L. APPROVED) & ACCESS DOOR COMBINATION FIRE/SMOKE DAMPER (U.L. APPROVED) & ACCESS DOOR EMMS		DUCT MTD. MANUAL AIR VOLUME DAMPER (W/LOCKING DEVICE)
FIRE DAMPER (U.L. APPROVED) & ACCESS DOOR  FIRMS COMMINATION FIRE SMOKE DAMPER (U.L. APPROVED) & ACCESS DOOR  EHWIN EXISTING HOT WATER RETURN PIPING  FIRMS SIZE OF A STATE OF THE WATER SUPPLY PIPING  FIRMS HOT WATER RETURN PIPING  FIRMS HOT WATER RETURN PIPING  FIRMS HOT WATER RETURN PIPING  L LIQUID REFRIGERANT PIPING  - L LIQUID REFRIGERANT PIPING  - NO HOT GAS REFRIGERANT PIPING  - NO HOT GAS REFRIGERANT PIPING  - NO COMDENSATE DRAIN PIPING  - CO CONDENSATE DRAIN PIPING  - CO CHECK VALVES  - CHECK VA	<b></b> -	MOTORIZED AIR VOLUME DAMPER (W/ACCESS DOOR)
COMBINATION FIRESMOKE DAMPER (LL APPROVED) & ACCESS DOOR  ENHANS EXISTING HOT WATER UPING  HOT WATER SUPPLY PIPING  HOT WATER RETURN PIPING  L LIQUID REPRIGERANT PIPING  NO CONDENSATE DRAIN PIPING  HOT GAS REPRIGERANT PIPING  COD CONDENSATE DRAIN PIPING  HOT GAS REPRIGERANT PIPING  COD CONDENSATE DRAIN PIPING  COD CONDENSATE DRAIN PIPING  AT EVALVE (HORIZONTALVERTICAL)  COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)  2 - WAY CONTROL VALVE  CHECK VALVES  PIPE CONNS. (BOTTOM, TOP 45 OR 90, PIPE UP)  EXISTING BOILER IDENTIFICATION  EXISTING BOILER IDENTIFICATION  EXISTING HOT WATER HEATER IDENTIFICATION  EXISTING CONVECTOR IDENTIFICATION  EXISTING CONVECTOR IDENTIFICATION  EXISTING CONVECTOR IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  AIR SOURCE HEAT PUMP UNIT IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  WALL WITD (5-2* AF F-U O N) CARBON DIOXIDE SENSOR  HOD WALL WITD (5-2* AF F-U O N) CARBON DIOXIDE SENSOR  WALL WITD (5-2* AF F-U O N) TEMPERATURE SENSOR  TOO WALL WALL WITD (5-2* AF F-U O N) TEMPERATURE SENSOR  WALL WITD (5-2* AF F-U O N) TEMPERATURE SENSOR  TOO WALL WATER PUMP IDENTIFICATION  WALL WITD (5-2* AF F-U O N) TEMPERATURE SENSOR  TOO WALL WATER PUMP IDENTIFICATION  TO WALL WATER PUMP IDENTIFICATION  WALL WITD (5-2* AF F-U O N) TEMPERATURE SENSOR  CO CELLAN OUT HUMAND ITEMPERATURE CONTROLS  CO CELLAN OUT HUMAND INTO THE PUMP IDENTIFICATION  FIRE POWER COATED SHEET METAL RISER ENCLOSURE  ATC AUTOMATIC TEMPERATURE CONTROLS  CO CELLAN OUT HUMAND INTO THE PUMP IDENTIFICATION  FIRE OWALL WAS CONNECTION  AD ACCESS DOOR  1-2* SQ WINE MESH GRILLE  FO FIRE DAMBER  VERYEY IN FIELD	_•	
EMINS — EXISTING HOT WATER RETURN PIPING  HOT WATER SUPPLY PIPING  LUQUID REFRIGERANT PIPING  S SUCTION REFRIGERANT PIPING  HOT GAS REFRIGERANT PIPING  CC CONDENSATE DRAIN PIPING  HOT GAS REFRIGERANT PIPING  CC CONDENSATE DRAIN PIPING  FLOW DIRECTION WITHIN PIPE  CONSENSATE DRAIN PIPING  COMMENDATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)  2 - WAY CONTROL VALVE  3 - WAY CONTROL VALVE  CHECK VALVES  PIPE CONNS. (BOTTOM. TOP 45 OR 90, PIPE UP)  EXISTING BOILER IDENTIFICATION  EXISTING HOT WATER HEATER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING HOT WATER PLUMP IDENTIFICATION  EXISTING HOT WATER PLUMP IDENTIFICATION  EXISTING HOT WATER PLUMP IDENTIFICATION  AIR SOURCE HEAT PLUMP UNIT IDENTIFICATION  HOT WATER CONVECTOR IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  WALL MITD, IS -2** LA F-J-J-J-N-J- CARBON DIOXIDE SENSOR		— FSD & AD  COMBINATION FIRE/SMOKE DAMPER (U.L. APPROVED) & ACCESS DOOR
HINS HOT WATER SUPPLY PIPING  HOT WATER RETURN PIPING  L LIQUID REFRIGERANT PIPING  S SUCTION REFRIGERANT PIPING  S SUCTION REFRIGERANT PIPING  HOT GAS REFRIGERANT PIPING  CO CONDENSATE DRAIN PIPING  EXAMPLE ON WITHIN PIPE  CONCENTE TO SUMMERS HOWE  AGTE VALVE (PONDEON TAUVERTICAL)  COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)  COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)  CHECK VALVES  D PIPE CONNIS, (BOTTOM, TOP 45 OR 96, PIPE UP)  EXISTING EXHAUST FAIN IDENTIFICATION  EXISTING BOILER IDENTIFICATION  EXISTING FOR WATER HEATER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING CONVECTOR IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING HOT WATER PLUMP IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  AIR SOURCE HEAT PLUMP UNIT IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  WALL MIT IDENTIFICATION  DOOR UNDERCOT  WALL MIT IDENTIFICATION  TO CONTINUE IN PUMP IDENTIFICATION  WALL MIT IDENTIFICATION  CONTINUE IN PUMP IDENTIFICATION  WALL MIT IDENTIFICATION  WALL MIT IDENTIFICATION  CONTINUE IN PUMP IDENTIFICATION  CONTINUE IN PUMP IDENTIFICATION  CONTINUE IN PUMP IDENTIFICATION  CONTINUE IN PU	— EHWR ——	EXISTING HOT WATER SUPPLY PIPING
HWS HOT WATER RETURN PIPING  L UQUID REFRIGERANT PIPING  S SUCTION REFRIGERANT PIPING  HOT GAS REFRIGERANT PIPING  HOT GAS REFRIGERANT PIPING  CO CONDENSATE DRAIN PIPING  A FLOW DIRECTION WITTHIN PIPE  CONSECTION OF THAN PIPE  GATE VALVE (HORIZONTAL/VERTICAL)  COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)  2 - WAY CONTROL VALVE  3 - WAY CONTROL VALVE  CHECK VALVES  PIPE CONNS. (BOTTOM: TOP 45 OR 90, PIPE UP)  EXISTING EXHAUST FAIN IDENTIFICATION  EXISTING HOT WATER HEATER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  AIR SOURCE HEAT PUMP UNIT IDENTIFICATION  CO CHARLES HOR WATER HEATER IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  CO CHARLES HEATER IDENTIFICATION  PUMP WALL WITH IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  EXISTING LECTRIC BASEBOARD IDENTIFICATION  WALL WITH USE RADIATION IDENTIFICATION  PUMP WALL WITH IDENTIFICATION  EXIST HOR ELECTRIC BASEBOARD IDENTIFICATION  TO DOOR UNDERFOUT  SMRE  POWDER COATED SHEET METAL RISER ENCLOSURE  ATC  AUTOMATIC TEMPERATURE CONTROLS  CO CELING DIFFUSER  GENERAL TRADES CONTRACTOR  FOR CELING REGISTER  TO PUML REGISTER  TO FURNICLE FREE MINUTE  OUTS DE (FRESH) AIR INTAKE  OO CLEAN OUT  HVAC HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  GC GENERAL TRADES CONTRACTOR  FC FLEXIBLE CONNECTION  FSC FULL SIZE CONNECTION  FSC FULL SIZE CONNECTION  FSC FULL SIZE CONNECTION  FSC FULL SIZE CONNECTION  FIRE DAMPER  VER IN FIELD	— EHWS ——	EXISTING HOT WATER RETURN PIPING
L UQUID REFRIGERANT PIPING  S SUCTION REFRIGERANT PIPING  HG HOT GAS REFRIGERANT PIPING  CC) CONDENSATE DRAIN PIPING  AND DIRECTION WITHIN PIPE  REMOVE WITHIN PIPE  R	—HWR ——	HOT WATER SUPPLY PIPING
S SUCTION REFRIGERANT PIPING  HIS HOT GAS REFRIGERANT PIPING  CD CONDENSATE DRAIN PIPING  FLOW DIRECTION WITHIN PIPE  COMEDINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)  2 - WAY CONTROL VALVE  3 - WAY CONTROL VALVE  CHECK VALVE  3 - WAY CONTROL VALVE  CHECK VALVES  PIPE CONNS. (BOTTOM: TOP 45 OR 90; PIPE UP)  EXISTING EXHAUST FAN IDENTIFICATION  EXISTING BOILER IDENTIFICATION  EXISTING HOT WATER HEATER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXISTING HOT WATER PUMP UNIT IDENTIFICATION  EXISTING HOT WATER PUMP UNIT IDENTIFICATION  AIR SOURCE HEAT PUMP UNIT IDENTIFICATION  CH HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  WAS WITH THEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  WAS WITH THEATER IDENTIFICATION  TO CONVENIEUS THE ADDIATION IDENTIFICATION  WAS WITH THE TOP WAS RESERVED THE CONTROLS  CO CELING BUFFURE REPORTS  CO CELING BUFFURE REPORTS  TO CONVENIEUS THE CONTROLS  CO CELING BUFFURE REPORTS  CO CELING BUFFURE REPORTS  THE TOP WALL REGISTER  CFM CUBIC FEET PER LIMINUTE  OALFAL OUTSIDE (FRESH) AIR INTAKE  CO CLEAN OUT  HVAC HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  FEC FILES SUBJECTION  AD ACCESS DOOR  WAS WITH THE LOD.	— HWS ——	HOT WATER RETURN PIPING
HG HOT GAS REFRIGERANT PIPING  CD CONDENSATE DRAIN PIPING  CD CONDENSATE DRAIN PIPING  FLOW DIRECTION WITHIN PIPE  COMMENT DEUMBRIT MODE  GATE VALVE (HORIZONTALVERTICAL)  COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)  2. WAY CONTROL VALVE  3. WAY CONTROL VALVE  CHECK VALVE  CHECK VALVE  PIPE CONNS, (BOTTOM, TOP 45 OR 90, PIPE UP)  EXISTING EXHAUST FAN IDENTIFICATION  EXISTING BOILER IDENTIFICATION  EXISTING HOT WATER HEATER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING CONVECTOR IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  AIR SOURCE HEAT PUMP IDENTIFICATION  FAN COIL UNIT IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER UNIT HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  WALL WITO (6-2 th A F-4J O N.) TEMPERATURE SENSOR  DOOR UNDERCUT  SINGE POWDER COATED SHEET METAL RISER ENCLOSURE  ATC AUTOMATIC TEMPERATURE CONTROLS  CO CELLING DIFFUSER  TO WALL REGISTER  TO WALL REGISTER  TO WALL REGISTER  CPM CUBIC FEET PER MINUTE  COULD CLEAN OUT  HVAC HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  GENERAL TRADES CONTRACTOR  FOR FILE SIZE CONNECTION  AD ACCESS DOOR  WAMM 12° SQ, WIRE MESH GRILLE  FD FIRE DAMPER  VERIFY IN FIELD	— L ——	LIQUID REFRIGERANT PIPING
CO CONDENSATE DRAIN PIPING  FLOW DIRECTION WITHIN PIPE COMMENT TO ROUGHNAM THAT PIPE COMMENT TO ROUGHNAM THAT PIPE COMMENT TO ROUGHNAM THAT PIPE  2 - WAY CONTROL VALVE 3 - WAY CONTROL VALVE 3 - WAY CONTROL VALVE  CHECK VALVES  PIPE CONNS, (BOTTOM, TOP 45 OR 90, PIPE UP)  EXISTING EXHAUST PAN IDENTIFICATION  EXISTING BY AUTOMATICAL PROPERTY OF THE PIPE PIPE PIPE PIPE PIPE PIPE PIPE PI	s	SUCTION REFRIGERANT PIPING
FLOW DIRECTION WITHIN PIPE CONNECTION TO COMMENTATION ABOVE  GATE VALVE (HORIZONTAL/VERTICAL)  COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)  2 - WAY CONTROL VALVE  3 - WAY CONTROL VALVE  CHECK VALVES  PIPE COMS. (BOTTOM: TOP 45 OR 90, PIPE UP)  EXISTING EXHAUST FAN IDENTIFICATION  EXISTING BOILER IDENTIFICATION  EXISTING HOT WATER HEATER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXISTING HOT WATER PUMP UNIT IDENTIFICATION  AIR SOURCE HEAT PUMP UNIT IDENTIFICATION  COMMENT HEATER IDENTIFICATION  HE AND WATER PUMP IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  WALL WITH (3-2 th F-U, O, N) TEMPERATURE SENSOR  TO COMMENTATION THE PUMP IDENTIFICATION  EXISTING ELECTRIC BASEBOARD IDENTIFICATION  THE WIND THE PUMP IDENTIFICATION  TO COMPANIE THE ATTENDENTIFICATION  AND WALL WITH (3-2 th F-U, O, N) TEMPERATURE SENSOR  TO CONTROLLED THE WATER FOR THE ATTENDENTIFICATION  TO COMPANIE THE PUMP IDENTIFICATION  TO COMPANIE THE PUMP IDEN	— HG ——	HOT GAS REFRIGERANT PIPING
GATE VALVE (HORIZONTAL/VERTICAL)  GATE VALVE (HORIZONTAL/VERTICAL)  COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)  2 - WAY CONTROL VALVE  3 - WAY CONTROL VALVE  GHECK VALVES  PIPE CONNS. (BOTTOM, TOP 45 OR 90; PIPE UP)  EXISTING EXHAUST FAN IDENTIFICATION  EXISTING BOILER IDENTIFICATION  EXISTING HOT WATER HEATER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  AIR SOURCE HEAT PUMP UNIT IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  WALL MITD (5 - 2½ A.F. F-U.O. N.) TEMPERATURE SENSOR  TO CONTROLLED THE WALL MITD SENSOR  DOOR UNDERCUT  SMRE  POWDER COATED SHEET METAL RISER ENCLOSURE  ATC  AUTOMATIC TEMPERATURE CONTROLS  CR  CELLING DIFFUSER  TR  TOP WALL REGISTER  TR  T	— CD ——	CONDENSATE DRAIN PIPING
GATE VALVE (HORIZONTALIVERTICAL)  COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)  2 - WAY CONTROL VALVE  3 - WAY CONTROL VALVE	X	
2 - WAY CONTROL VALVE  3 - WAY CONTROL VALVE  3 - WAY CONTROL VALVE  CHECK VALVES  PIPE CONNS. (BOTTOM; TOP 45 OR 90; PIPE UP)  EXISTING EXHAUST FAN IDENTIFICATION  EXISTING BOILER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXISTING HOT WATER PUMP UNIT IDENTIFICATION  HOT WATER COLL UNIT IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER CUNIT HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  WALL MIDDING  EXEMPT TUBE RADIATION IDENTIFICATION  EXEMPT TUBE RADIATION IDENTIFICATION  EXEMPT TUBE RADIATION IDENTIFICATION  TO CONTROLLED ITEM  WALL MIDDING  EXISTING ELECTRIC BASEBOARD IDENTIFICATION  EXEMPT TUBE RADIATION IDENTIFICATION  TO CONTROLLED ITEM  WALL MIDDING  EXISTING ELECTRIC BASEBOARD IDENTIFICATION  TO CONTROLLED ITEM  WALL MIDIGIAL POPULA  WALL MIDIGIAL POPULA	<del>← →</del>	
S-WAY CONTROL VALVE  CHECK VALVES  PIPE CONNS. (BOTTOM: TOP 45 OR 90; PIPE UP)  EXISTING EXHAUST FAN IDENTIFICATION  EXISTING BOILER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  AIR SOURCE HEAT PUMP UNIT IDENTIFICATION  FAN COIL UNIT IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  WATER PUMP IDENTIFICATION  FOR THE PUMP IDENTIFICATION  WALL MITD (\$-2\frac{1}{2} + A F F-U, O, N.) TEMPERATURE SENSOR  WALL MITD (\$-2\frac{1}{2} + A F F-U, O, N.) CARBON DIOXIDE SENSOR  DOOR UNDERCUT  SMRE  POWDER COATED SHEET METAL RISER ENCLOSURE  ATC  AUTOMATIC TEMPERATURE CONTROLS  CR  CEILING DIFFUSER  CR  CEILING REGISTER  TO PWALL REGISTER  CFM  CUBIC FEET PER MINUTE  OAUFAI  OUTSIDE (FRESH) AIR INTAKE  CO  CLEAN OUT  HVAC  HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  FCC  FLEXIBLE CONNECTION  AD  ACCESS DOOR  WING  1/2-SQ, WIRE MESH GRILLE  FO  FIRE DAMPER  VIF  VERIFY IN FIELD	<b>—</b>	COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)
CHECK VALVES  POPO  PIPE CONNS. (BOTTOM: TOP 45 OR 90; PIPE UP)  EXISTING EXHAUST FAN IDENTIFICATION  EXISTING BOILER IDENTIFICATION  EXISTING BOILER IDENTIFICATION  EXISTING HOT WATER HEATER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  HAP  AIR SOURCE HEAT PUMP UNIT IDENTIFICATION  FAN COIL UNIT IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER UNIT HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  WALL MITD (5-2*2*A.F.F-U.O.N.) TEMPERATURE SENSOR  WALL MITD (5-2*2*A.F.F-U.O.N.) TEMPERATURE SENSOR  WALL MITD (5-2*4*A.F.F-U.O.N.) TEMPERATURE SENSOR  OF COURSELIES THE TEMPERATURE CONTROLS  CO. TO COURSELIES THE TEMPERATURE CONTROLS  CO. CELLING DIFFUSER  CR. CELLING REGISTER  TO PWALL REGISTER  CFM. CUBIC FEET PER MINUTE  OAUFAI  OUTSIDE (FREST) AIR INTAKE  CO. CLEAN OUT  HVAC. HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  FC. FLEXIBLE CONNECTION  AD. ACCESS DOOR  WING. 1/2* SQ. WIRE MESH GRILLE  FD. FIRE DAMPER  VERLEY IN FIELD.	——————————————————————————————————————	2 - WAY CONTROL VALVE
EFENDENT PRICE CONNS (BOTTOM; TOP 45 OR 90; PIPE UP)  EXISTING EXHAUST FAN IDENTIFICATION  EXISTING BOILER IDENTIFICATION  EXISTING HOT WATER HEATER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXIST ING HOT WATER PUMP UNIT IDENTIFICATION  FOR AN COIL UNIT IDENTIFICATION  FOR HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  EXEMPTIFY THE REAL PROPERTIES OF THE WALL MITD (5-2* ± 4.FU.O.N.) TEMPERATURE SENSOR  FOR CONTROLLED TIES  WALL MITD (5-2* ± 4.FU.O.N.) TEMPERATURE SENSOR  DOOR UNDERCUT  SMRE  POWDER COATED SHEET METAL RISER ENCLOSURE  ATC  AUTOMATIC TEMPERATURE CONTROLS  CO  CEILING REGISTER  TR  TOP WALL REGISTER  TR  TOP WALL REGISTER  CPM  CUBIC FRESH) AIR INTAKE  CO  CLEAN OUT  HVAC  HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  GC  GENERAL TRADES CONTRACTOR  FC  FIEXBLE CONNECTION  AD  ACCESS DOOR  WING  1/2* SQ, WIRE MESH GRILLE  FD  FIRE DAMPER  VER VERFEY IN FIELD		3 - WAY CONTROL VALVE
EXISTING EXHAUST FAN IDENTIFICATION  EXISTING BOILER IDENTIFICATION  EXISTING BOILER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING CONVECTOR IDENTIFICATION  EXISTING HOT WATER PUMP UNIT IDENTIFICATION  EXIST ING HOT WATER PUMP UNIT IDENTIFICATION  FOR AN COIL UNIT IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  EXEMPTION  HOT WATER PUMP IDENTIFICATION  EXEMPTION  EXEMPTION  FOR CONTROLLED TEST  WALL MITD (5-2* ± 4.FU.O.N.) TEMPERATURE SENSOR  DOOR UNDERCUT  SMRE  POWDER COATED SHEET METAL RISER ENCLOSURE  ATC  AUTOMATIC TEMPERATURE CONTROLS  CD  CEILING DIFFUSER  CR  CEILING REGISTER  TR  TOP WALL REGISTER  TR  TOP WALL REGISTER  CO  CLEAN OUT  HVAC  HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  GC  GENERAL TRADES CONTRACTOR  FC  FLEXIBLE CONNECTION  AD  ACCESS DOOR  WMG  1/2* SQ. WIRE MESH GRILLE  FD  FIRE DAMPER  VERFY IN FIELD		CHECK VALVES
EXISTING EARAGS PAIN LIEUTIFICATION  EXISTING BOILER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING CONVECTOR IDENTIFICATION  EXISTING CONVECTOR IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  ERV ENERGY RECOVERY VENTILATOR IDENTIFICATION  HIP AIR SOURCE HEAT PUMP UNIT IDENTIFICATION  FO FAN COIL UNIT IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER UNIT HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  FO WALL MITD (5-2*±4.F.F-U.O.N.) TEMPERATURE SENSOR  OF OUTBOURDED THE WALL MITD (5-2*±4.F.F-U.O.N.) CARBON DIOXIDE SENSOR  DOOR UNIDERCUT  SMRE POWDER COATED SHEET METAL RISER ENCLOSURE  ATC AUTOMATIC TEMPERATURE CONTROLS  CD CEILING DIFFUSER  CR CEILING REGISTER  TR TOP WALL REGISTER  TR TOP WALL REGISTER  CFM CUBIC FEET PER MINUTE  OAUFAI OUTSIDE (FRESH) AIR INTAKE  CO CLEAN OUT  HVAC HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  GC GENERAL TRADES CONTRACTOR  FC FLEXIBLE CONNECTION  AD ACCESS DOOR  WMG 1/2* SQ. WIRE MESH GRILLE  FD FIRE DAMPER  VIF VERIFY IN FIELD	<del>-</del>	PIPE CONNS. (BOTTOM; TOP 45 OR 90; PIPE UP)
EXISTING BOILER IDENTIFICATION  EXISTING HOT WATER HEATER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING CONVECTOR IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXIST ING HOT WATER PUMP IDENTIFICATION  ERP  ENERGY RECOVERY VENTILATOR IDENTIFICATION  FO  FAN COIL UNIT IDENTIFICATION  FO  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER UNIT HEATER IDENTIFICATION  HOT WATER UNIT HEATER IDENTIFICATION  WHIP  HOT WATER PUMP IDENTIFICATION  FO  NEW FIN TUBE RADIATION IDENTIFICATION  EXEMPTIONAL PREV  WALL MTD (5-2+A.F.F-U.O.N.) TEMPERATURE SENSOR  OO ONT OLD TO SENSOR WALL MTD (5-2+A.F.F-U.O.N.) TEMPERATURE SENSOR  OO ONT OLD TO SENSOR WALL MTD (5-2+A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  DOOR UNDERCUT  SMRE  POWDER COATED SHEET METAL RISER ENCLOSURE  ATC  AUTOMATIC TEMPERATURE CONTROLS  CD  CEILING DIFFUSER  CR  CEILING REGISTER  TR  TOP WALL REGISTER  TR  TOP WALL REGISTER  CFM  CUBIC FEET PER MINUTE  OAUFAI  OUTSIDE (FRESH) AIR INTAKE  CO  CLEAN OUT  HVAC  HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  GC  GENERAL TRADES CONTRACTOR  FC  FLEXIBLE CONNECTION  AD  ACCESS DOOR  WMG  1/2* SQ. WIRE MESH GRILLE  FD  FIRE DAMPER  VIF  VERIFY IN FIELD	EF	EVICTING EVHALIST FAN IDENTIFICATION
EXISTING HOT WATER HEATER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  ENERGY RECOVERY VENTILATOR IDENTIFICATION  ENERGY RECOVERY VENTILATOR IDENTIFICATION  AIR SOURCE HEAT PUMP UNIT IDENTIFICATION  FAN COIL UNIT IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  FIVE  MALL WITH TUBE RADIATION IDENTIFICATION  EXISTING ELECTRIC BASEBOARD IDENTIFICATION  TO CONTROLLEDITEM  WALL MITD (5-2** A.F.F-U.O.N.) TEMPERATURE SENSOR  OFFICE OF THE WALL WITH TUBE RADIATION TEMPERATURE SENSOR  DOOR UNDERCUT  SMRE  POWDER COATED SHEET METAL RISER ENCLOSURE  ATC  AUTOMATIC TEMPERATURE CONTROLS  CD  CEILING DIFFUSER  CR  CEILING REGISTER  TR  TOP WALL REGISTER  CFM  CUBIC FEET PER MINUTE  OALIFAI  OUTSIDE (FRESH) AIR INTAKE  CO  CLEAN OUT  HVAC  HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  GC  GENERAL TRADES CONTRACTOR  FC  FLEXIBLE CONNECTION  AD  ACCESS DOOR  WMG  1/2* SQ. WIRE MESH GRILLE  FD  FIRE DAMPER  VERIFY IN FIELD	$\sim$	EXISTING EXHAUST FAN IDENTIFICATION
EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING CONVECTOR IDENTIFICATION  EXISTING CONVECTOR IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  ENERGY RECOVERY VENTILATOR IDENTIFICATION  AIR SOURCE HEAT PUMP UNIT IDENTIFICATION  FOR FAN COIL UNIT IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER UNIT HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  FOR WATER PUMP IDENTIFICATION  FOR WATER PUMP IDENTIFICATION  FOR WATER PUMP IDENTIFICATION  FOR WALL INTO, 52°2 A.F.F-U.O.N.) TEMPERATURE SENSOR  FOR CONTROLLED ITEM WALL INTO, 52°2 A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  FOR CONTROLLED ITEM WALL INTO, 52°2 A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  FOR CONTROLLED ITEM WALL INTO, 52°2 A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  FOR CONTROLLED ITEM WALL INTO, 52°2 A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  FOR CONTROLLED ITEM WALL INTO, 52°2 A.F.F-U.O.N.) TEMPERATURE CONTROLS  CO CEILING DIFFUSER  CO CEILING REGISTER  TR TOP WALL REGISTER  TR TOP WALL REGISTER  CFM CUBIC FEET PER MINUTE  CALIFARI  CO CLEAN OUT  HVAC HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  GC GENERAL TRADES CONTRACTOR  FC FLEXIBLE CONNECTION  FSC FULL SIZE CONNECTION  AD ACCESS DOOR  WMG 1/2° SQ. WIRE MESH GRILLE  FD FIRE DAMPER  VERIFY IN FIELD		EXISTING BOILER IDENTIFICATION
EXISTING HOT WATER CABINET HEATER IDENTIFICATION  EXISTING CONVECTOR IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  ENERGY RECOVERY VENTILATOR IDENTIFICATION  ENERGY RECOVERY VENTILATOR IDENTIFICATION  ENERGY RECOVERY VENTILATOR IDENTIFICATION  FC FAN COIL UNIT IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER UNIT HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  PIPE NEW FIN TUBE RADIATION IDENTIFICATION  EDBELOW RELIGIOUS A.F.FU.O.N.) TEMPERATURE SENSOR  TO CONTROLLED TIES WALL INTO, (5-2" A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  DOOR UNDERCUT  SMRE POWDER COATED SHEET METAL RISER ENCLOSURE  ATC AUTOMATIC TEMPERATURE CONTROLS  CD CEILING DIFFUSER  CR CEILING REGISTER  TR TOP WALL REGISTER  CFM CUBIC FEET PER MINUTE  OALIFAI  OUTSIDE (FRESH) AIR INTAKE  CO CLEAN OUT  HVAC HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  GC GENERAL TRADES CONTRACTOR  FC FLEXIBLE CONNECTION  FSC FULL SIZE CONNECTION  AD ACCESS DOOR  WMG 1/2" SQ. WIRE MESH GRILLE  FD FIRE DAMPER  VERIFY IN FIELD		EXISTING HOT WATER HEATER IDENTIFICATION
EXISTING CONVECTOR IDENTIFICATION  EXISTING HOT WATER PUMP IDENTIFICATION  ENERGY RECOVERY VENTILATOR IDENTIFICATION  ENERGY RECOVERY VENTILATOR IDENTIFICATION  ENERGY RECOVERY VENTILATOR IDENTIFICATION  HP  AIR SOURCE HEAT PUMP UNIT IDENTIFICATION  FAN COIL UNIT IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER UNIT HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  PRESSURE OF THE PUMP IDENTIFICATION  EXISTING ELECTRIC BASEBOARD IDENTIFICATION  WALL MITD (5-2° ± A.F.F-U.O.N.) TEMPERATURE SENSOR  WALL MITD (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  DOOR UNDERCUT  SMRE  POWDER COATED SHEET METAL RISER ENCLOSURE  ATC  AUTOMATIC TEMPERATURE CONTROLS  CD  CEILING DIFFUSER  CR  CEILING REGISTER  TR  TOP WALL REGISTER  CFM  CUBIC FEET PER MINUTE  OALIFAI  OUTSIDE (FRESH) AIR INTAKE  CO  CLEAN OUT  HVAC  HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  FC  FC  FLEXIBLE CONNECTION  ACCESS DOOR  WMG  1/2° SQ. WIRE MESH GRILLE  FD  FIRE DAMPER  VERIFY IN FIELD		EXISTING HOT WATER CABINET HEATER IDENTIFICATION
EXISTING HOT WATER PUMP IDENTIFICATION  ENERGY RECOVERY VENTILATOR IDENTIFICATION  AIR SOURCE HEAT PUMP UNIT IDENTIFICATION  AIR SOURCE HEAT PUMP UNIT IDENTIFICATION  AIR SOURCE HEAT PUMP UNIT IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER UNIT HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  EMEMORY FIN TUBE RADIATION IDENTIFICATION  EMEMORY FIN TUBE RADIATION IDENTIFICATION  EMEMORY FIN TUBE RADIATION IDENTIFICATION  TO CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROLLED ITEM WALL MITD (5°-2°± A.F.F-U.O.N.) TEMPERATURE TO CONTROLLED ITEM WALL MITD (5°-2°±	$\times$	
EXISTING HOT WATER PUMP IDENTIFICATION  ENERGY RECOVERY VENTILATOR IDENTIFICATION  AIR SOURCE HEAT PUMP UNIT IDENTIFICATION  FAN COIL UNIT IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER UNIT HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  EXISTING ELECTRIC BASEBOARD IDENTIFICATION  FOR CONTROLLED ITEM WALL MITD. (5-2* ± A.FU.O.N.) TEMPERATURE SENSOR  TO CONTROLLED ITEM WALL MITD. (5-2* ± A.FU.O.N.) CARBON DIOXIDE SENSOR  DOOR UNDERCUT  SMRE  POWDER COATED SHEET METAL RISER ENCLOSURE  ATC  AUTOMATIC TEMPERATURE CONTROLS  CD  CEILING REGISTER  TR  TOP WALL REGISTER  TR  TOP WALL REGISTER  CFM  CUBIC FEET PER MINUTE  OAI/FAI  OUTSIDE (FRESH) AIR INTAKE  CO  CLEAN OUT  HVAC  HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  FC  FLEXIBLE CONNECTION  AD  ACCESS DOOR  WMG  1/2" SQ. WIRE MESH GRILLE  FD  FIRE DAMPER  VERIFY IN FIELD	EXIST	EXISTING CONVECTOR IDENTIFICATION
ENERGY RECOVERY VENTILATOR IDENTIFICATION  AIR SOURCE HEAT PUMP UNIT IDENTIFICATION  FAN COIL UNIT IDENTIFICATION  HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER UNIT HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  FYPE  SERVING ELECTRIC BASEBOARD IDENTIFICATION  EXISTING ELECTRIC BASEBOARD IDENTIFICATION  FOR CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) TEMPERATURE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) TEMPERATURE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) TEMPERATURE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) TEMPERATURE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) TEMPERATURE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) TEMPERATURE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) TEMPERATURE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) TEMPERATURE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) TEMPERATURE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) TEMPERATURE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) TEMPERATURE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) TEMPERATURE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) TEMPERATURE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U.O.N.) TEMPERATURE SENSOR  ON TO CONTROLLED ITEM WALL MITD (5°-2"± A.F.F-U	$\longrightarrow$	EXISTING HOT WATER PUMP IDENTIFICATION
FC FAN COIL UNIT IDENTIFICATION  CH HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER UNIT HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  FYPE NEW FIN TUBE RADIATION IDENTIFICATION  EBBE EXISTING ELECTRIC BASEBOARD IDENTIFICATION  TO CONTROLLED ITEM WALL MTD (5-2*± A.F.F-U.O.N.) TEMPERATURE SENSOR  TO CONTROLLED ITEM WALL MTD (5-2*± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  DOOR UNDERCUT  SMRE POWDER COATED SHEET METAL RISER ENCLOSURE  ATC AUTOMATIC TEMPERATURE CONTROLS  CD CEILING DIFFUSER  CR CEILING REGISTER  TR TOP WALL REGISTER  CFM CUBIC FEET PER MINUTE  OAUFAI OUTSIDE (FRESH) AIR INTAKE  CO CLEAN OUT  HVAC HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  GC GENERAL TRADES CONTRACTOR  FC FLEXIBLE CONNECTION  AD ACCESS DOOR  WMG 1/2* SQ. WIRE MESH GRILLE  FD FIRE DAMPER  VIF VERIFY IN FIELD	(ERV)	ENERGY RECOVERY VENTILATOR IDENTIFICATION
HAT WATER CABINET HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  LEGION POLICIA PUMP IDENTIFICATION  EXEMPTIAL TUBE RADIATION IDENTIFICATION  EXISTING ELECTRIC BASEBOARD IDENTIFICATION  EXISTING ELECTRIC BASEBOARD IDENTIFICATION  TO CONTROLLED ITEM WALL MITD. (5-2"±.A.F.F-U.O.N.) TEMPERATURE SENSOR  OF TO CONTROLLED ITEM WALL MITD. (5-2"±.A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF TO CONTROLLED ITEM WALL MITD. (5-2"±.A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF TO CONTROLLED ITEM WALL MITD. (5-2"±.A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF TO CONTROLLED ITEM WALL MITD. (5-2"±.A.F.F-U.O.N.) TEMPERATURE SENSOR  OF TO CONTROLLED ITEM WALL MITD. (5-2"±.A.F.F-U.O.N.) TEMPERATURE SENSOR  OF CONTROL ITEM. (5-2"±.A.F.F-U.O.N.) TEMPERATURE	(HP)	AIR SOURCE HEAT PUMP UNIT IDENTIFICATION
CH HOT WATER CABINET HEATER IDENTIFICATION  UH HOT WATER UNIT HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  PYPE NEW FIN TUBE RADIATION IDENTIFICATION  ELEMENT LENGTH  TO CONTROLLED ITEM WALL MTD. (5-2*±.A.F.F-U.O.N.) TEMPERATURE SENSOR  TO CONTROLLED ITEM WALL MTD. (5-2*±.A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  TO CONTROLLED ITEM WALL MTD. (5-2*±.A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  DOOR UNDERCUT  SMRE POWDER COATED SHEET METAL RISER ENCLOSURE  ATC AUTOMATIC TEMPERATURE CONTROLS  CD CEILING DIFFUSER  CR CEILING REGISTER  TR TOP WALL REGISTER  CFM CUBIC FEET PER MINUTE  OAI/FAI OUTSIDE (FRESH) AIR INTAKE  CO CLEAN OUT  HVAC HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  GC GENERAL TRADES CONTRACTOR  FC FILEXIBLE CONNECTION  AD ACCESS DOOR  WMG 1/2* SQ. WIRE MESH GRILLE  FD FIRE DAMPER	FC	FAN COIL UNIT IDENTIFICATION
HOT WATER CABINET HEATER IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  HOT WATER PUMP IDENTIFICATION  PROBLEM FIN TUBE RADIATION IDENTIFICATION  ELEMBRI LENDIN  EXISTING ELECTRIC BASEBOARD IDENTIFICATION  TO CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) TEMPERATURE SENSOR  OF TO CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF TO CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF TO CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF TO CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF TO CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF TO CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  OF CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE  OF CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE  OF CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.O.N.) CARBON DIOXIDE  OF CONTROLLED ITEM WALL MITD. (5-2° ± A.F.F-U.	CH	
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HOT WATER PUMP IDENTIFICATION  TYPE  NEW FIN TUBE RADIATION IDENTIFICATION  ELEMENT LENGTH  EXISTING ELECTRIC BASEBOARD IDENTIFICATION  ELEMENT LENGTH  WALL MTD. (5-2*± A.F.F-U.O.N.) TEMPERATURE SENSOR  TO CONTROLLED ITEM WALL MTD. (5-2*± A.F.F-U.O.N.) CARBON DIOXIDE SENSOR  -U  DOOR UNDERCUT  SMRE  POWDER COATED SHEET METAL RISER ENCLOSURE  ATC  AUTOMATIC TEMPERATURE CONTROLS  CD  CEILING DIFFUSER  CR  CEILING REGISTER  TR  TOP WALL REGISTER  CFM  CUBIC FEET PER MINUTE  OAI/FAI  OUTSIDE (FRESH) AIR INTAKE  CO  CLEAN OUT  HVAC  HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  GC  GENERAL TRADES CONTRACTOR  FC  FLEXIBLE CONNECTION  AD  ACCESS DOOR  WMG  1/2" SQ. WIRE MESH GRILLE  FD  FIRE DAMPER  VERIFY IN FIELD	(UH)	HOT WATER UNIT HEATER IDENTIFICATION
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ATC AUTOMATIC TEMPERATURE CONTROLS  CD CEILING DIFFUSER  CR CEILING REGISTER  TR TOP WALL REGISTER  CFM CUBIC FEET PER MINUTE  OAI/FAI OUTSIDE (FRESH) AIR INTAKE  CO CLEAN OUT  HVAC HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  GC GENERAL TRADES CONTRACTOR  FC FLEXIBLE CONNECTION  FSC FULL SIZE CONNECTION  AD ACCESS DOOR  WMG 1/2" SQ. WIRE MESH GRILLE  FD FIRE DAMPER  VIF VERIFY IN FIELD	<b>-</b> U <b>→</b>	DOOR UNDERCUT
CD CEILING DIFFUSER  CR CEILING REGISTER  TR TOP WALL REGISTER  CFM CUBIC FEET PER MINUTE  OAI/FAI OUTSIDE (FRESH) AIR INTAKE  CO CLEAN OUT  HVAC HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  GC GENERAL TRADES CONTRACTOR  FC FLEXIBLE CONNECTION  FSC FULL SIZE CONNECTION  AD ACCESS DOOR  WMG 1/2" SQ. WIRE MESH GRILLE  FD FIRE DAMPER  VERIFY IN FIELD	SMRE	POWDER COATED SHEET METAL RISER ENCLOSURE
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OAI/FAI OUTSIDE (FRESH) AIR INTAKE  CO CLEAN OUT  HVAC HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  GC GENERAL TRADES CONTRACTOR  FC FLEXIBLE CONNECTION  FSC FULL SIZE CONNECTION  AD ACCESS DOOR  WMG 1/2" SQ. WIRE MESH GRILLE  FD FIRE DAMPER  VIF VERIFY IN FIELD	CFM	CUBIC FEET PER MINUTE
CO CLEAN OUT  HVAC HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  GC GENERAL TRADES CONTRACTOR  FC FLEXIBLE CONNECTION  FSC FULL SIZE CONNECTION  AD ACCESS DOOR  WMG 1/2" SQ. WIRE MESH GRILLE  FD FIRE DAMPER  VERIFY IN FIELD		
HVAC HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR  GC GENERAL TRADES CONTRACTOR  FC FLEXIBLE CONNECTION  FSC FULL SIZE CONNECTION  AD ACCESS DOOR  WMG 1/2" SQ. WIRE MESH GRILLE  FD FIRE DAMPER  VIF VERIFY IN FIELD		
GC GENERAL TRADES CONTRACTOR  FC FLEXIBLE CONNECTION  FSC FULL SIZE CONNECTION  AD ACCESS DOOR  WMG 1/2" SQ. WIRE MESH GRILLE  FD FIRE DAMPER  VIF VERIFY IN FIELD		
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AD ACCESS DOOR  WMG 1/2" SQ. WIRE MESH GRILLE  FD FIRE DAMPER  VIF VERIFY IN FIELD		
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## PROFESSIONAL DEVELOPMENT CENTER

NYACK UFSD

13A DICKINSON AVE NYACK,NY 10960



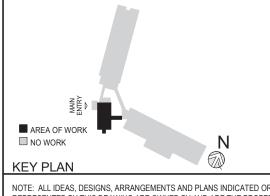
285 MAIN STREET MOUNT KISCO . NEW YORK . 10549
P:914 666 5900 KGDARCHITECTS COM



CONSULTING ENGINEERS
39 MARBLE AVE PLEASANTVILLE, NY 10570
HONE: 914.328.6060 FAX: 914.328.9304 General@BGA-Eng

NY SED PROJECT CONTROL NO. 66-23-00-01-0-008-011

CONSTRUCTION DOCUMENTS



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Professional Seal

2 2022-07-12 ISSUE FOR BID
1 2022-03-24 CONSTRUCTION DOCUMENTS
No. Date Issue
Sheet Title

LEGEND, NOTES, &
PART BASEMENT,
1ST, & 2ND FLOOR
PLANS (REMOVALS)

 Job No.
 Date

 2021-1048
 09/10/2021

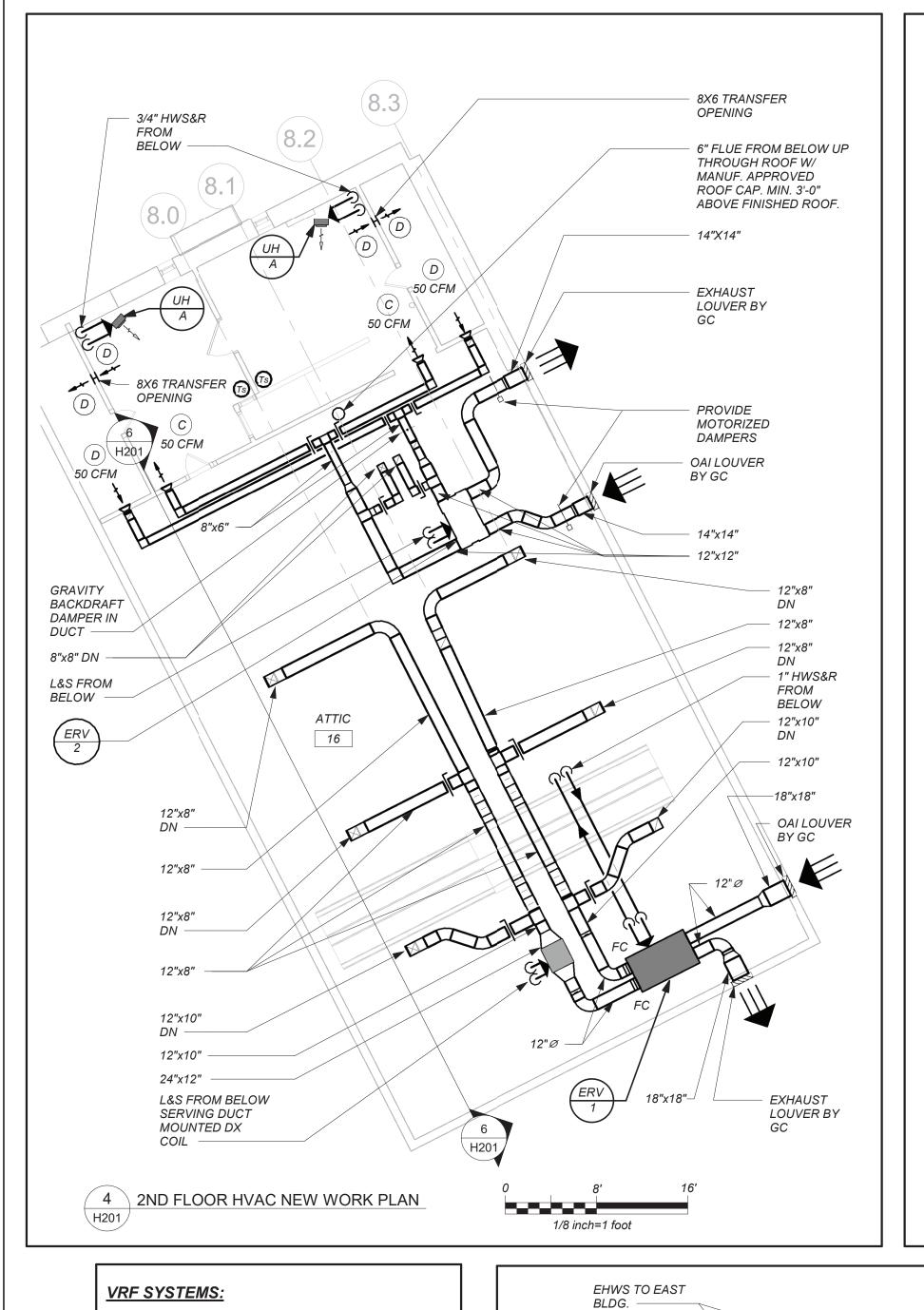
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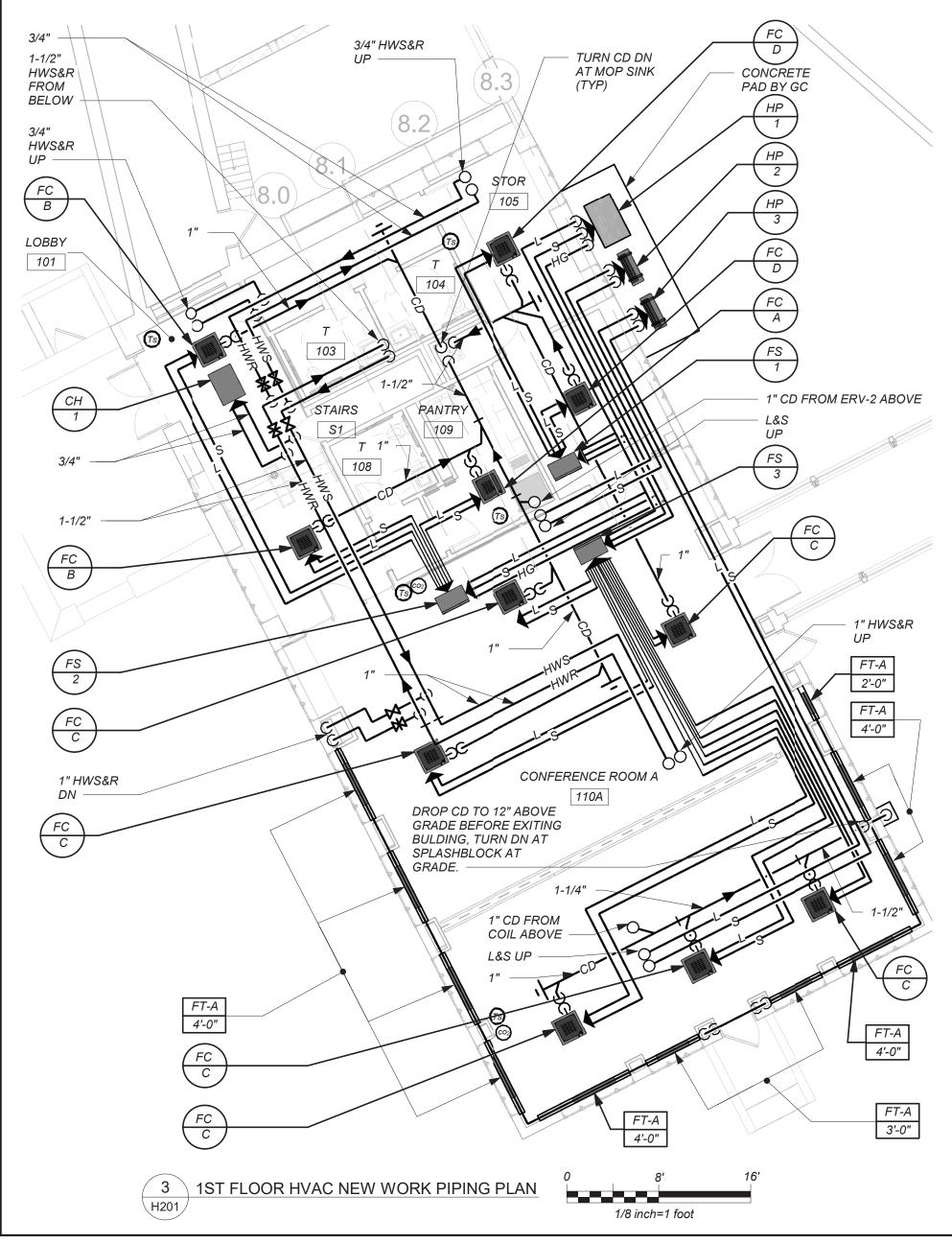
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 BGA / BGA

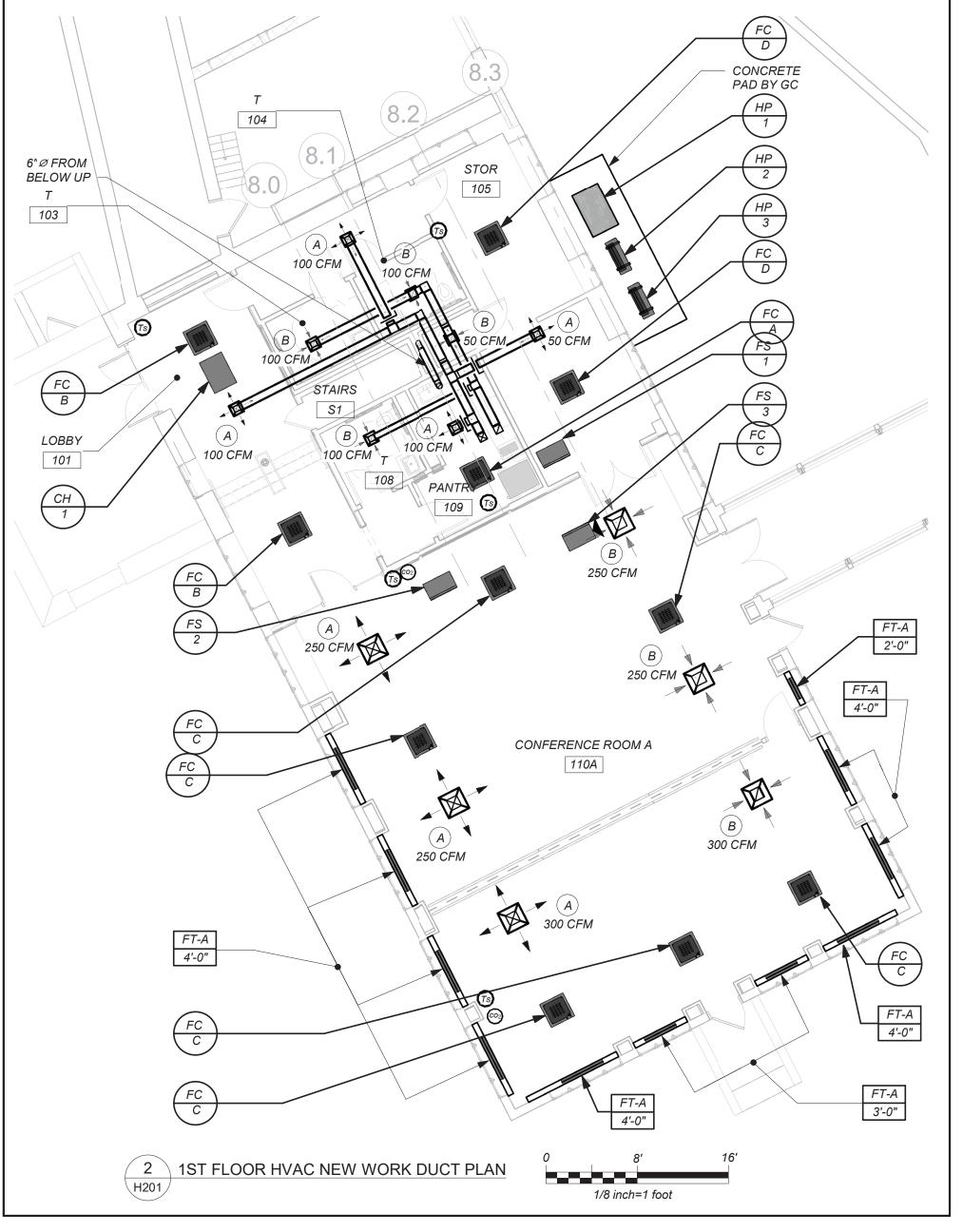
Sheet Number

H101

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL THE OTHER CONTRACTORS







HWP 1

1 BASEMENT HVAC NEW WORK PLAN

## **PROFESSIONAL** DEVELOPMENT CENTER

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NY SED PROJECT CONTROL NO.

66-23-00-01-0-008-011 CONSTRUCTION

**DOCUMENTS** 

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Professional Seal

**BOILER RM** 

103

1-1/2" HWS&R

PROVIDE EXISTING

HOT WATER HEATER

WITH NEW 6" Ø FLUE

- 1-1/2" HWS&R

1/8 inch=1 foot

SCALED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENCED COPYRIGHT KAEYER, GARMENT + DAVIDSON ARCHITECTS & ENGINEERS, PC ALL RIGHTS RESERVED.

2022-07-12 ISSUE FOR BID 2022-03-24 CONSTRUCTION DOCUMENTS No. Date

PART BASEMENT 1ST, & 2ND FLOOR PLANS (NEW WORK)

Job No. 09/10/2021 2021-1048 Scale Drawn / Checked AS NOTED BGA / BGA

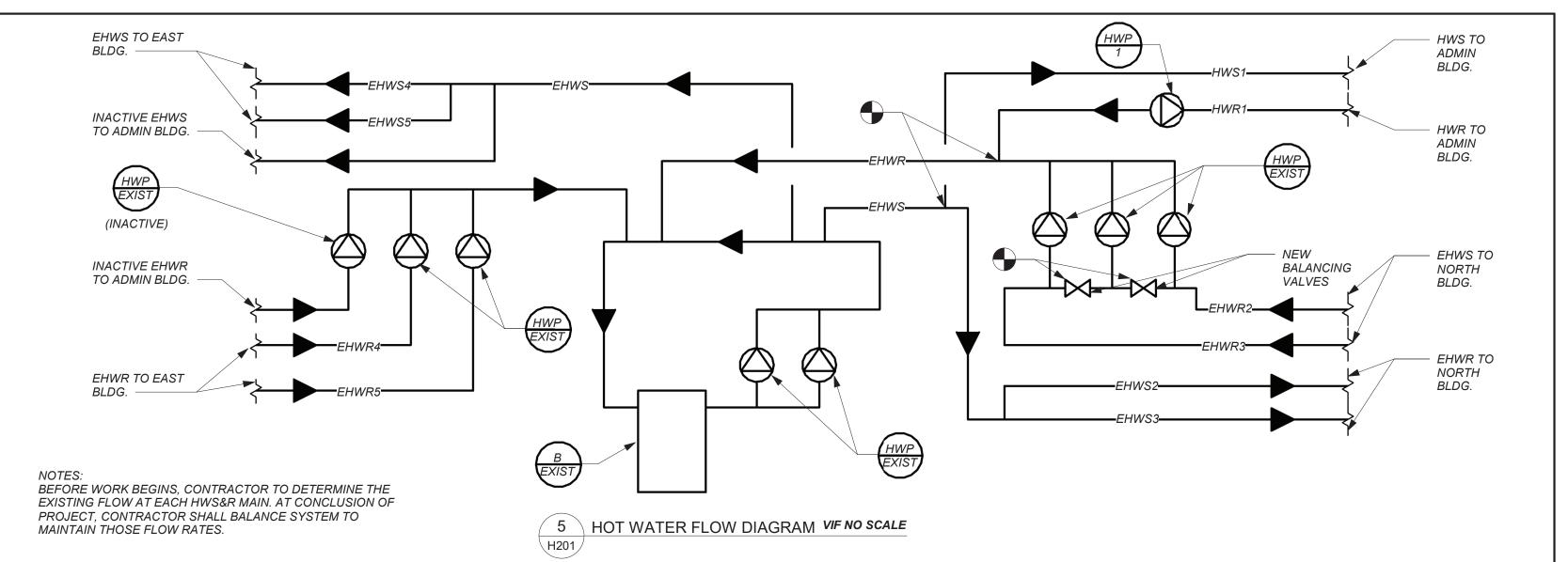
Sheet Number

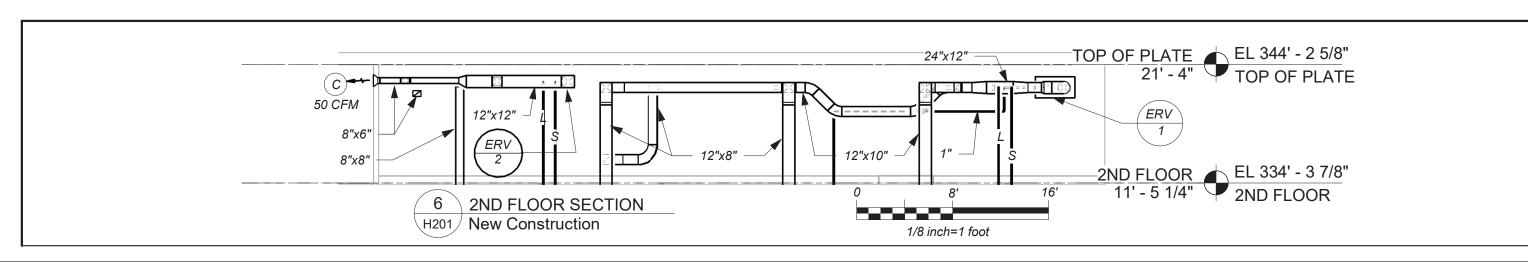
H201

THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT, FOR COMPLETE AND OPERABLE SYSTEMS.

### **CONDENSATE PIPING:**

PROVIDE CONDENSATE PIPING FOR ALL INDOOR FAN COIL EVAPORATOR UNITS AND AIR HANDLER CONDENSATE PANS.





7/11/2022 7:23:23 PM

BEFORE FABRICATION THIS CONTRACTOR SHALL

# SCHEDULE OF ENERGY RECOVERY VENTILATORS GENERAL DATA SUPPLY FAN DATA EXHAUST FAN DATA FLECTRICAL DATA HEAT EXCHANGER HOT WATER COLL 3

	GENERAL	L DATA		SUPPLY	FAN DATA	EXHAUST	FAN DATA	ELE	CTRICAL	L DATA	HEAT EXC	CHANGER		HOT	WATE	ER CO	/L3			DX CO	IL <b>4</b>			FILTER	DATA	PHY.	SICAL	L DAT.	Ā	
MARI	<i>SERVICE</i>	LOCATION	MODEL No.	OUTSIDE AIR CFM	EXT. S.P. IN WG	CFM	EXT. S.P. IN WG	мса	MOP	ELECTRICAL SERVICE	TYPE	EFFIC.	CAP. MBH	EAT (°F)	LAT (°F)	COIL FACE VELOCITY FPM	ROWS	GPM	TOTAL CLG. CAP. BTU/HR	TOTAL HTG. CAP. BTU/HR	ENT. AIR TEMP. CLG. / HTG.	. LVG. AIR TEMP. CLG. / HTG.	QTY.	SIZE (IN.)	CLASS	L (in.) W	(in.) H	H (in.)	WEIGHT (LBS)	REMARKS
ERV 1	CONFERENCE ROOM 110	ATTIC 16	FR800HW-0 208-3-CAV	800	1.25	800	1.25	5.2	15	208/3/60	WHEEL	<i>75</i>	53	10	70	475	1	5	24,000	27,000	90/40	75/70	2	17X13X17	OA MERV 13 RET. MERV 9	63	22	40	425	REFER TO  25
ERV 2	LOBBY, STORAGE TOILET ROOMS	ATTIC 16	U-ERV-600	450	1.0	450	1.0	8.3	15	208/1/60	CORE	69	N/A	N/A	N/A	N/A	N/A	N/A	24,000	27,000	90/10	75/70	4	6X21X2	MERV 13	69	<i>57</i>	12	140	REFER TO  26

 $\stackrel{N}{O}$  (1) AS MANUFACTURED BY "TOPVEX."

(b) AS MANUFACTURED BY "ENERGYWALL."

S INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

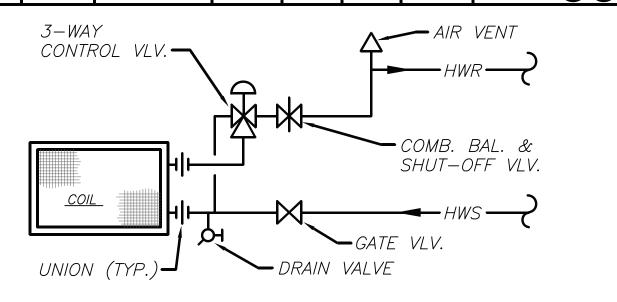
(3) INTEGRAL HOT WATER COIL. PROVIDE FREEZE STAT.

E.W.T=180° F. L.W.T.=160° F.

(4) BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A.

FLOOR MOUNTED UNIT WITH INTEGRAL HIGH CAPACITY HOT WATER COIL AND DUCT MOUNTED DX COIL. PROVIDE VIBRATION ISOLATORS
EXHAUST/DEFROST CONTROLS, DEMAND CONTROL VENTILATION, LOW TEMPERATURE LIMIT CONTROLS, DIFFERENTIAL ENTHALPY ECONOMIZER
CONTROLS, MOTORIZED OA AND EA DAMPERS, DIRTY FILTER CONTACTS, PHASE PROTECTION AND DISCONNECT SWITCH. TIE INTO BMS.

FLOOR MOUNTED UNIT WITH INTEGRAL DX COIL. PROVIDE VIBRATION ISOLATORS EXHAUST/DEFROST CONTROLS, LOW TEMPERATURE LIMIT CONTROLS, DIFFERENTIAL ENTHALPY ECONOMIZER CONTROLS, DIRTY FILTER CONTACTS, MOTORIZED OA AND EA DAMPERS, AND DISCONNECT SWITCH. TIE INTO BMS.



TYPICAL HOT WATER HEATING COIL PIPING CONNS.

### SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES OUTDOOR AIR FLOW MINIMUM **ZONE AIR** MINIMUM ROOM PEOPLE OUTDOOR AIR AREA OUTDOOR AIR FLOW NUMBER OF RATE WITHOUT ZONE **EXHAUST** OCCUPANCY ROOM AREA PEOPLE DENSITY EXHAUST AIR FLOW RATE DISTRIBUTION | VENTILATION AIR ROOM NAME/NUMBER RATE IN BREATHING ZONE PEOPLE **EFFECTIVENESS** AIR FLOW FLOW RATE CATEGORY (#P/1000 SQ.FT.) EFFECTIVENESS FLOW RATE (SQ.FT.) (CFM/PERSON) (A×B)÷1000=#P **FACTOR** RATE G÷H=CFM $(F \times C) + (A \times D) = CFM$ A×E=CFM Lobby/ 101 **MAIN ENTRY LOBBIES** 0.06 0 Corridor/102 CORRIDORS 0.06 0 0.8 0 70 0 0 0 4 CCUPIABLE STORAG ROOMS FOR DRY MATERIALS **KITCHENETTES** 20 7.5 0.12 0.3 34 30 Pantry/109 Conf/ 110 CONFERENCE/MEETING 0.06 558 0.8 697 OCCUPIABLE STORAG ROOMS FOR DRY Second Floor Storage MATERIALS CCUPIABLE STORAG Second Floor Storage ROOMS FOR DRY MATERIALS

	SCHEDULE OF REGISTERS AND DIFFUSERS													
MARK	TYPE	SERVICE	MODEL No. (1)	NOMINAL FACE SIZE	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	REMARKS						
A	CEILING DIFFUSER	SUPPLY	SCD	12X12/24X24	FOUR-WAY	OPPOSED BLADE	PER ARCH.	REFER TO 2345						
B	CEILING REGISTER	RETURN/EXHAUST	635	8X4/24X24	_	OPPOSED BLADE	PER ARCH.	REFER TO 2346						
0	SIDE WALL REGISTER	SUPPLY	620	8X4	DOUBLE DEFLECTION	OPPOSED BLADE	PER ARCH.	REFER TO 2345						
D	SIDE WALL REGISTER	RETURN/EXHAUST	635	8X4	-	OPPOSED BLADE	PER ARCH.	REFER TO 2346						

N 1 AS MANUFACTURED BY "PRICE".

O 2 INSTALL PER MANUFACTURERS RECOMMENDATIONS.

7 3 PROVIDE CABLE OPERATED DAMPERS IN UN-ACCESSIBLE AREAS.

S PROVIDE MOUNTING FRAME COMPATIBLE W/ MOUNTING SURFACE. COORDINATE ALL BORDER TYPES, COLORS, FINISHES AND DIMENSIONS WITH ARCHITECT.

(N	JPPLY IOT TO	NECK S EXCEE	SIZE PEI D 700 i	R CFM I fpm)	RANGE	6	RETUI (NOT	RN NEO	CK SIZE CEED 6		CFM R. m)	ANGE	
50 TO 135	100 TO 245	246 TO 380	381 TO 550	551 TO 750	751 TO 860	50 TO 149	150 TO 249	250 TO 399	400 TO 599	600 TO 799	800 TO 1099	1100 TO 1199	1200 TO 2399
6"ø	8"ø	10 <b>"</b> ø	12"ø	14"ø	15"ø	6x6	8X8	10X10	12X12	14X14	16X16	18X18	24X24

	SCHEDULE OF UNIT HEATERS													
MARK	MODEL No. <b>1</b>	BTU/HR	CAPACIT EWT °F	Y DATA LWT °F	GPM	MOTOR WATTS	ELECTRIC SERVICE		DATA WEIGHT (LBS)	REMARKS				
UH A	HS-36	20,100	180	160	3	25	120/1/60	15"x10"x18"	40	REFER TO				

N (1) AS MANUFACTURED BY "STERLING".

(2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS

3 PROVIDE UNIT MOUNTED MANUAL VARIABLE SPEED CONTROLLER, REMOTE WALL SENSOR, DISCONNECT SWITCH, AND MOUNTING HARDWARE.

		SCF	HEDUL	EC	DF I	PUM	IPS		
MARK	SERVICE	LOCATION	MODEL Nº <b>①</b>	GPM	HEAD FT.H₂O	RPM	MOTOR HP	ELECTRIC SERVICE	REMARKS
HWP 1	CONFERENCE BLDG	BOILER ROOM	SERIES E-90 1AAB	17	25	1800	1/2	208/1/60	REFER TO 235

(1) AS MANUFACTURED BY "BELL & GOSSETT".

O (2) INSTALL PUMPS PER MANUFACTURER'S RECOMMENDATIONS.

PROVIDE ECM PERMANENT MAGNET VARIABLE SPEED MOTOR WITH MOUNTED USER INTERFACE, DISCONNECT SWITCH,

AND STEAL BRAIDED FLEXIBLE CONNECTIONS

PUMP DIMENSIONS 8" W  $\times$  12" L  $\times$  16" H / WEIGHT 55 LBS

# SCHEDULE OF AIR SOURCE HEAT PUMP UNITS MARK LOCATION MODEL COOLING CAPACITY (MBH) ON CRADE ADVINCABREE AREA OF AIR SOURCE HEAT PUMP UNITS COMPRES. DATA FLECTRICAL DATA DIMENSION/WEIGHT (L"XW"XH")/(LBS) REMARKS ON CRADE ADVINCABREE AREA OF A

,,,,,,,,	200/11/011	Ŋ <u>u</u> ()	(МВН)	(MBH)		TYPE	QIY	MCA	моР	SERVICE	(L"XW"XH")/(LBS)	7 (E1717 (1 ( ) ( )	
HP 1	ON GRADE	ARUM168BTE5	168	189	11.7	DC SCROLL	2	54	70	208/3/60	49X30X67/666	REFER TO 2345	ŀ
HP 2	ON GRADE	ARUNO24GSS4	24	27	12.2	DC INVERTER	1	20	30	208/1/60	38X16X33/176	REFER TO 2346	
HP 3	ON GRADE	ARUN024GSS4	24	27	12.2	DC INVERTER	1	20	30	208/1/60	38X16X33/176	REFER TO 2346	

AS MANUFACTURED BY "LG."

(2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

 $rac{I}{F}$   $rac{I}{G}$  REFRIGERANT USED SHALL BE R-410a.

S 4 DESIGN AIR CONDITIONS: SUMMER: OA (95°F); WINTER: OA (47°F/43°F)

MOUNT ON PRECAST CONCRETE PAD BY GC. THREE PIPE SYSTEM. PROVIDE STAND, NEOPRENE VIBRATION ISOLATION PADS, EQUIPMENT SUPPORTS, DISCONNECT SWITCH, CONVENIENCE OUTLET, LOW AMBIENT CONTROLS AND PHASE PROTECTION. COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD.

MOUNT ON PRECAST CONCRETE PAD BY GC. TWO PIPE SYSTEM. PROVIDE STAND, NEOPRENE VIBRATION ISOLATION PADS, EQUIPMENT SUPPORTS, CONVENIENCE OUTLET. LOW AMBIENT CONTROLS. EEV AND AHU COMMUNICATION KIT. AND DISCONNECT SWITCH. COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD.

# SCHEDULE OF VRF INDOOR UNITS

	MODEL	SU	'PPLY	FAN	DATA	TOTAL	DIM	ENSIC	DN/WE	EIGHT	
MARK	No. 1	CFM HIGH	MCA	моср	ELECTRIC SERVICE	COOL/HEAT MBH	W (IN.)	D (IN.)	H (IN.)	LBS	REMARKS
FC A	ARNU053TRD4	265	0.25	15	208/1/60	5.5/6.1	25	25	10	45	REFER TO 2345
FC B	ARNU093TRD4	388				9.6/10.9	25	25	10	49	
FCC	ARNU153TQD4	396				15.4/17.1	25	25	12	51	
FC D	ARNU183TQD4	812	V			19.1/21.5	25	25	12	51	
FS 1	PRHR023A	N/A	0.17			N/A	20	19	9	46	REFER TO 236
FS 2	PRHR033A		0.17				20	19	9	50	
FS 3	PRHR063A	V	0.27			<b>\</b>	32	19	9	75	

N 1 AS MANUFACTURED BY "LG."

Q (2) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

 $m{E}$   $m{\Im}$  Based on A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A.

FOUNDE FACTORY MOUNTED INTEGRAL CONDENSATE PUMP, CHECK VALVE, ANTI SWEAT SLEEVE, BALL VALVES, AND AUTO SHUTDOWN OVERFLOW SWITCH.

(5) PROVIDE MOUNTING HARDWARE, VIBRATION ISOLATORS, DISCONNECT AND HARDWIRED REMOTE WALL MOUNTED CONTROLLER/THERMOSTAT. WHERE
MULTIPLE UNITS TIE INTO ONE ZONE CONTROLLER PROVIDE WIRED REMOTE GROUP CONTROL CABLE ASSEMBLE PZCWRC1 AS REQUIRED. TIE INTO BMS.

6 PROVIDE MOUNTING HARDWARE. MOUNT HORIZONTALLY.

# SCHEDULE OF CABINET HEATERS

MARK	TYPE UNIT	MODEL Nº <b>①</b>	CAP. MBH	ACITY L CFM	DATA GPM	PD.FT.	MOTOR HP	MOTOR RPM	ELECTRIC SERVICE	REMARKS					
CH A	CEILING MTD.	RC 1170 03	20.6	335	2.0	0.25	1/15	1050	120/1/60	2 3 4 5 6					

AS MANUFACTURED BY "STERLING".

install per manufacturer's recommendations.

 $\mathcal{E}$   $\mathcal{E}$  CAPACITIES BASED ON LOW SPEED FAN SETTING, AND 160° F A.W.T.

PROVIDE 2 ROW COIL, THROWAWAY FILTERS, INTEGRAL SPEED CONTROL, DISCONNECT SWITCH, REMOTE WALL SENSOR, GASKET AND PERMA LAP FRAME. COORDINATE FINISH AND COLOR WITH ARCHITECT.

(5) UNIT DIMENSIONS 36"x25"x9.5", WEIGHT 150 LBS.

6 PROVIDE WITH HOT WATER RETURN AQUASTAT. AQUASTAT SHALL NOT ALLOW FAN TO OPERATE AT WATER TEMPERATURE BELOW 110 DEGREES F.

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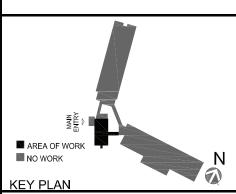
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2 2022-07-12 ISSUE FOR BID 1 2022-03-24 CONSTRUCTION DOCUMENTS

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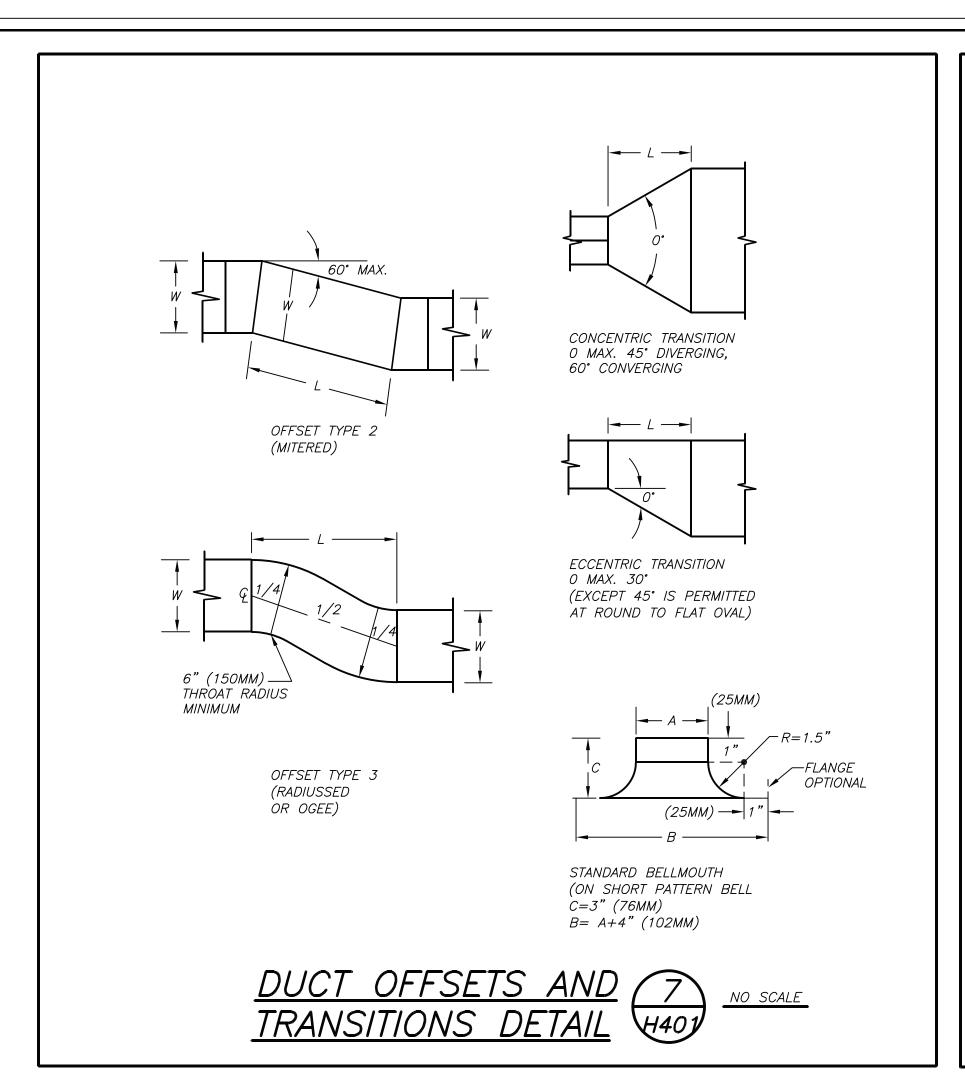
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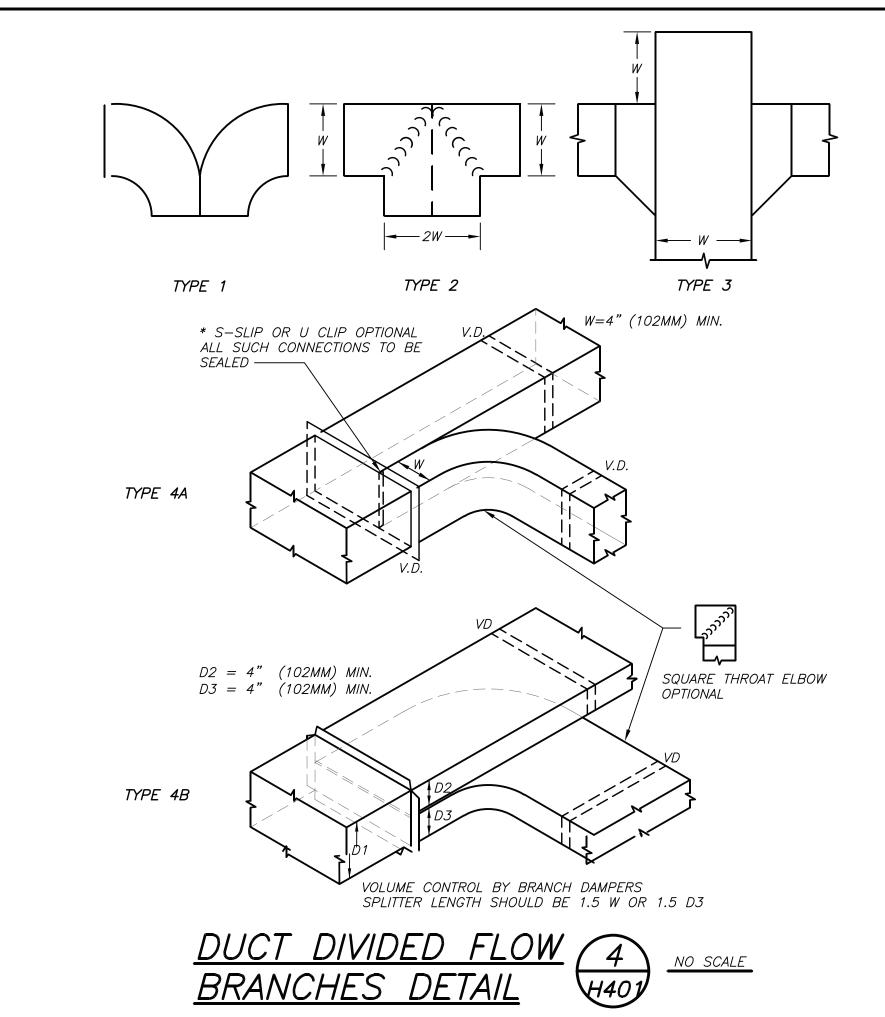
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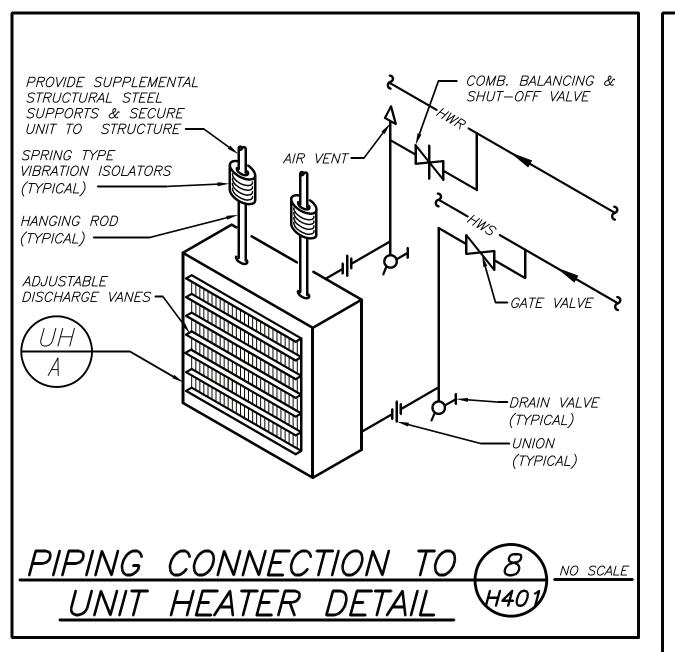
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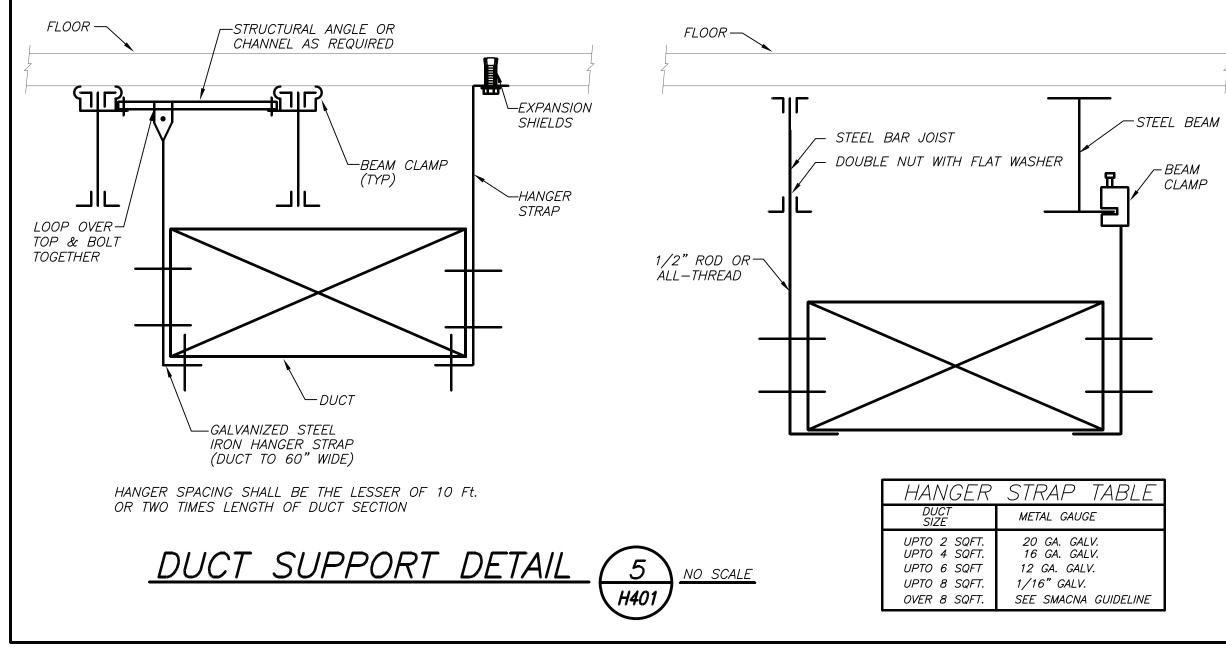
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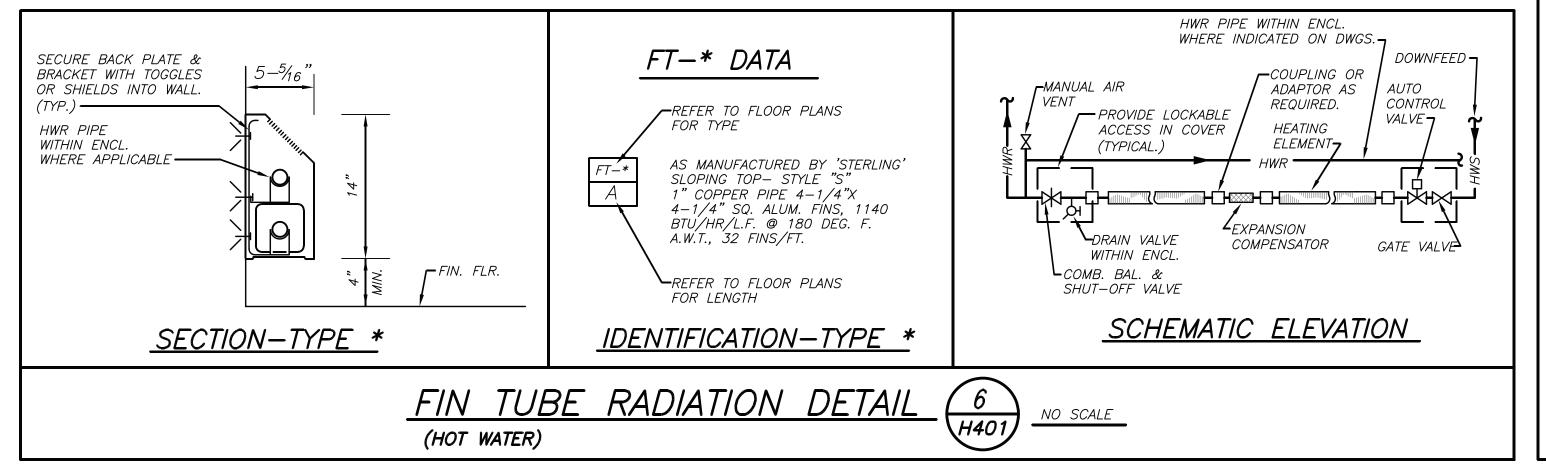
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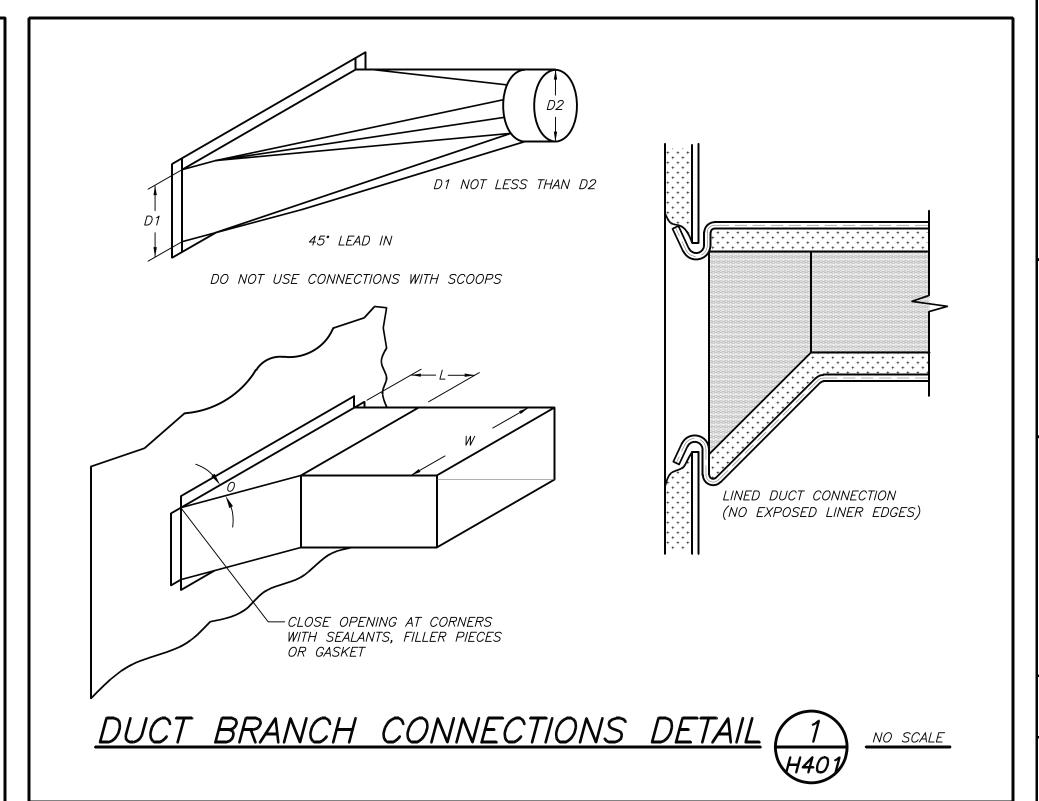


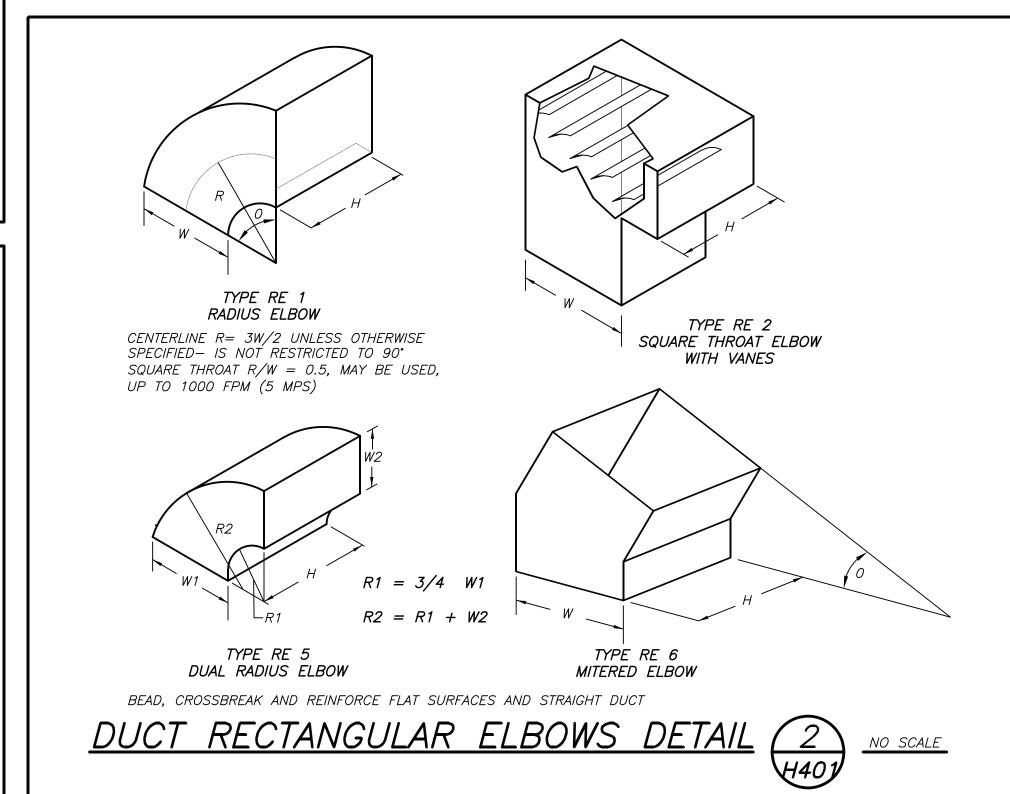


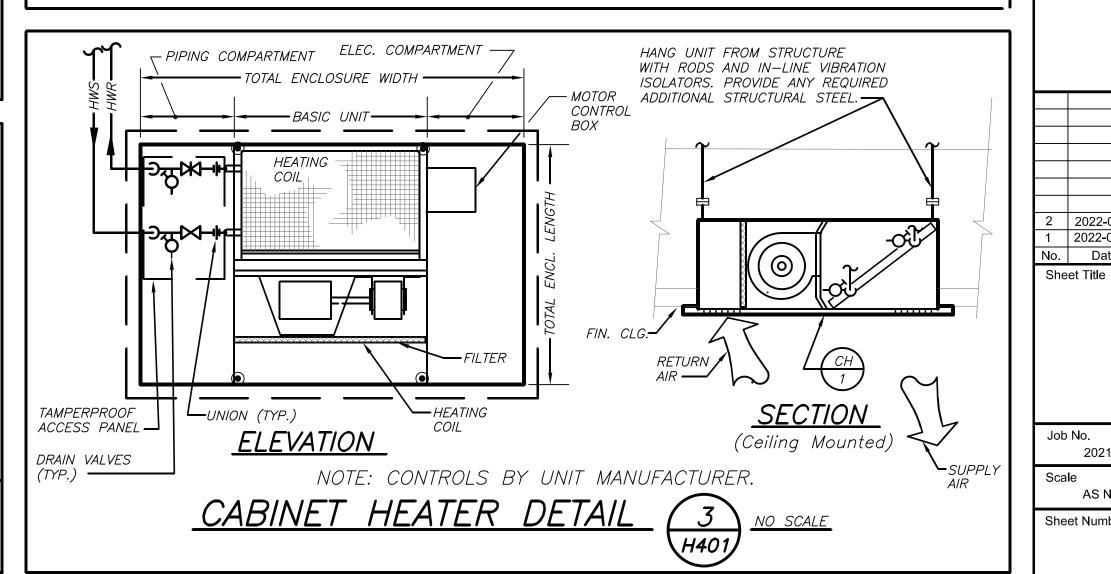














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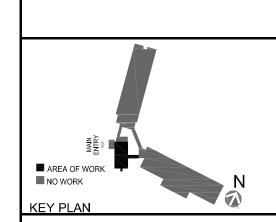
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1 2022-03-24 CONSTRUCTION DOCUMENTS
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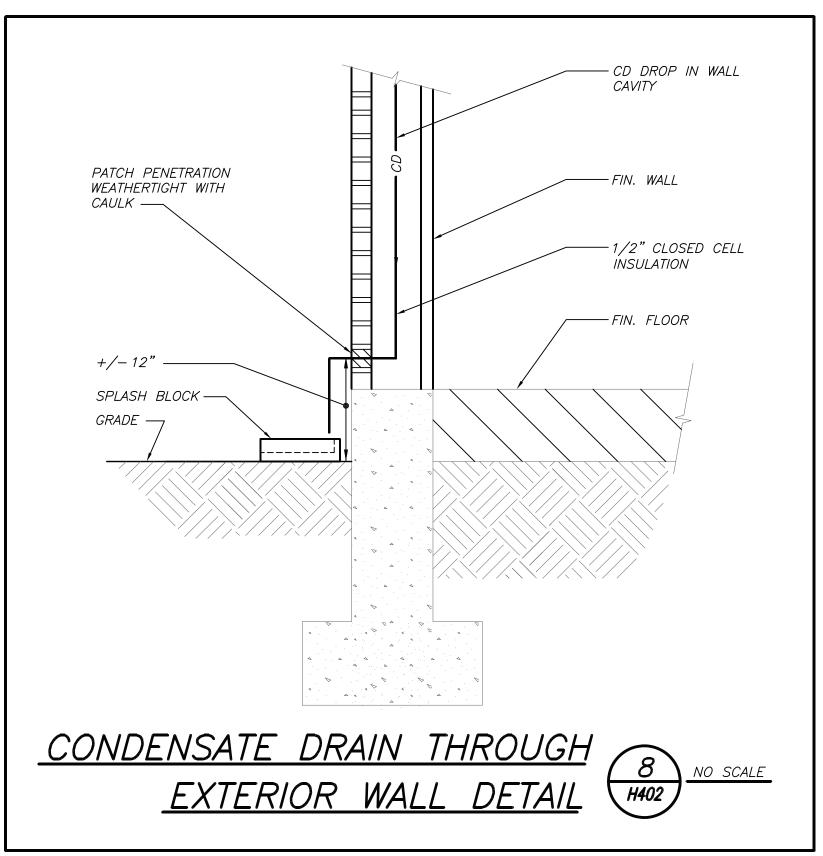
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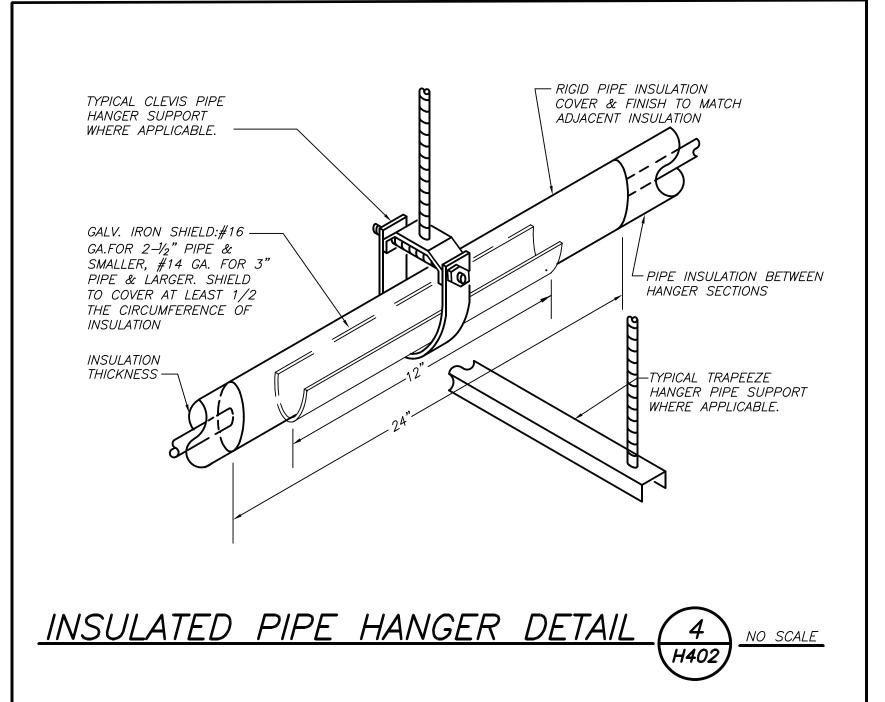
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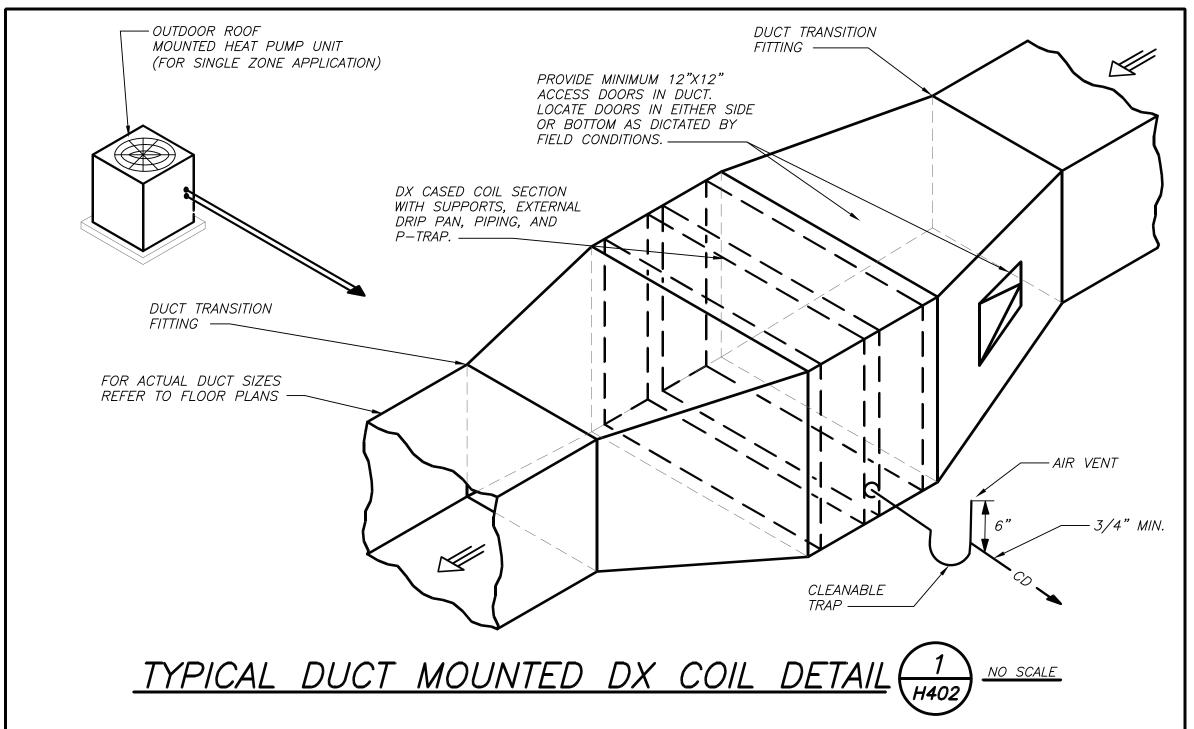
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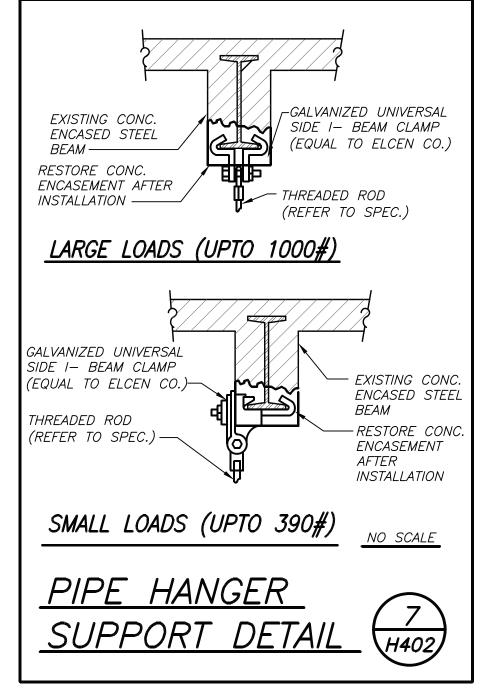
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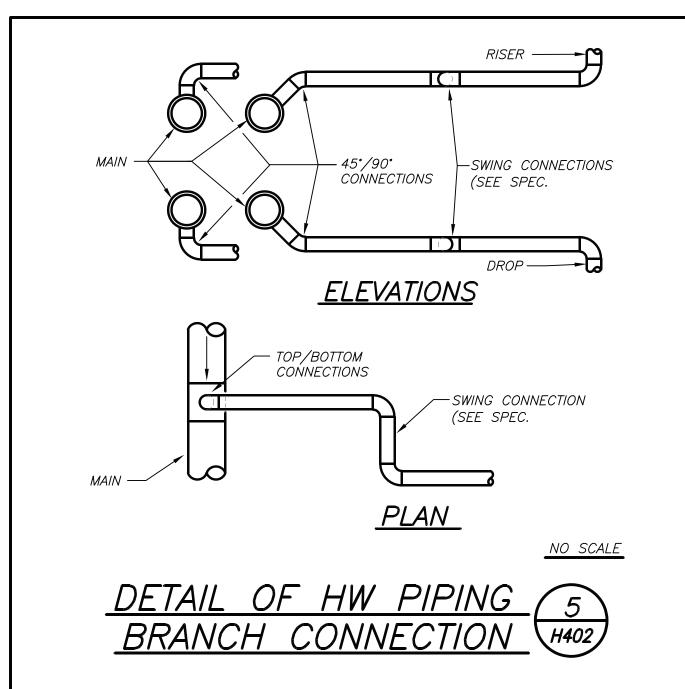
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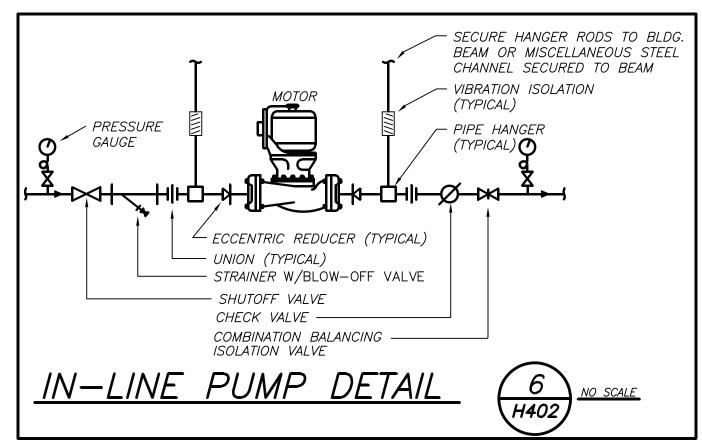


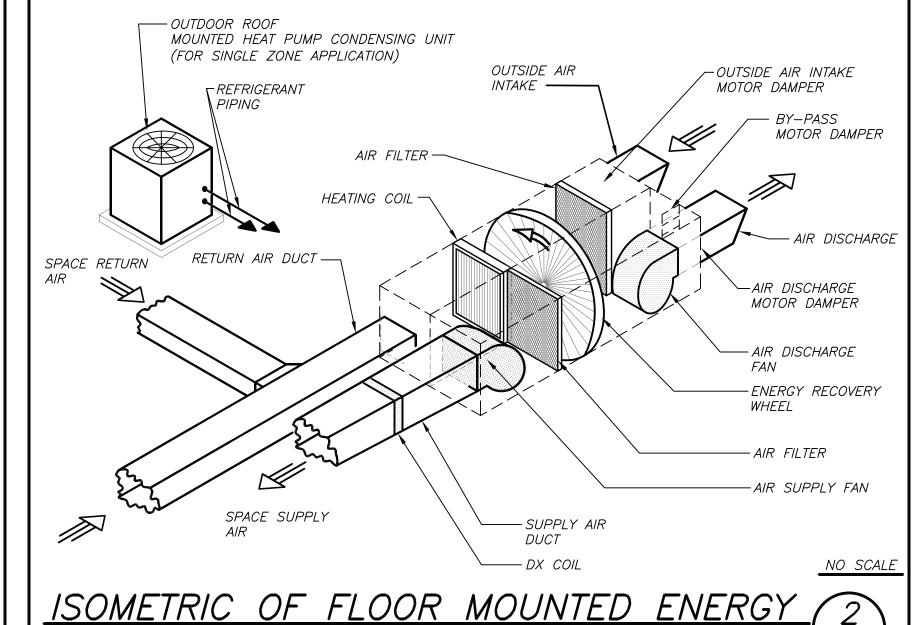




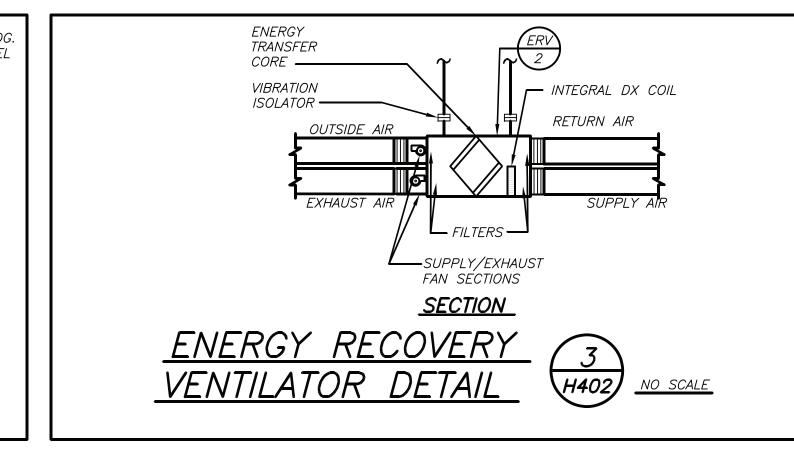








RECOVERY AIR HANDLING UNIT DETAIL





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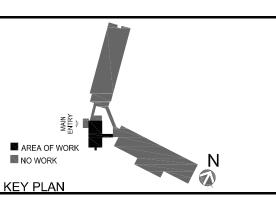
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