

**MECHANICAL DEMOLITION NOTES**

1. DEMOLISH EXISTING STEAM BOILERS AND ALL ASSOCIATED STEAM AND CONDENSATE PIPING, VALVES, FITTINGS AND WIRING COMPLETE.
2. DEMOLISH EXISTING BURNER, BURNER CONTROLS, CONTROL CABINETS, CONDUITS AND WIRING. COMPLETE.
3. DEMOLISH EXISTING CHILLERS AND ALL ASSOCIATED CHILLED WATER AND CONDENSER WATER PIPING, VALVES, FITTINGS AND WIRING. COMPLETE.
4. DEMOLISH EXISTING CONDENSATE RETURN AND BOILER FEED TANKS AND ALL ASSOCIATED PUMPS, PIPING, VALVES, FITTINGS AND WIRING COMPLETE.
5. DEMOLISH EXISTING UH THERMOSTATS, CONTROLS AND ALL ASSOCIATED CONTROL WIRING AND PNEUMATIC TUBING.
6. DEMOLISH EXISTING BOILER BREACHING TO EXISTING CHIMNEY FROM ALL EXISTING BOILERS. REFER TO GENERAL CONSTRUCTION PLAN FOR PATCHING CHIMNEY.
7. DEMOLISH ALL EXISTING STEAM PIPING, VALVES, FITTINGS AND CONTROL WIRING COMPLETE.
8. DEMOLISH ALL EXISTING CONDENSATE PIPING, VALVES, FITTINGS AND CONTROL WIRING COMPLETE.
9. DEMOLISH EXISTING REGULATOR WITH PRESSURE GAUGE FOR HEAT CONVECTORS 1&2.
10. DEMOLISH EXISTING LOUVERS AND MOTORIZED DAMPERS INCLUDING ALL ASSOCIATED WIRING, LINKAGES, ETC COMPLETE.
11. DEMOLISH EXISTING COOLING TOWER CHEMICAL TREATMENT SYSTEM AND ALL ASSOCIATED PIPING, VALVES, FITTINGS AND EQUIPMENT COMPLETE.
12. DEMOLISH ALL EXISTING STEAM UNIT HEATERS AT CEILING AND ALL ASSOCIATED STEAM AND CONDENSATE PIPING, WIRING AND CONTROLS COMPLETE.
13. DEMOLISH EXISTING RELIEF PIPING AND ALL ASSOCIATED VALVES AND SPECIALTIES UP THROUGH ROOF STRUCTURE. TYPICAL FOR ALL RELIEF PIPING WHETHER SHOWN ON THIS DRAWING OR NOT. REFER TO GENERAL CONSTRUCTION PLAN FOR ROOF PATCHING.
14. DEMOLISH EXISTING CONDENSER WATER PUMPS AND ALL ASSOCIATED PIPING, VALVES, FITTINGS, WIRING AND CONTROLS COMPLETE.
15. DEMOLISH EXISTING CONDENSER WATER PIPING, VALVES, FITTINGS AND CONTROL WIRING IN MER AND ON ROOF COMPLETE.
16. DEMOLISH EXISTING (ABANDONED) PUMP AND ALL ASSOCIATED PIPING, VALVES, FITTINGS, WIRING AND CONTROLS COMPLETE. BLANK OFF PIPING.
17. DEMOLISH EXISTING GENERATOR RADIATOR INTAKE PLENUM AND ALL DUCTWORK, DAMPERS, AND OPERATORS COMPLETE.
18. EXISTING PUMPS, EQUIPMENT, PIPING, VALVES SHOWN AS EXISTING SHALL REMAIN OPERATIONAL UNTIL THEIR REMOVAL IN DEMOLITION PHASE 2.
19. DEMOLISH EXISTING GENERATOR MUFFLER AND ALL EXHAUST PIPING UP THROUGH ROOF INCLUDING ALL HANGERS AND SUPPORTS COMPLETE.
20. DEMOLISH EXISTING HOT WATER UNIT HEATERS.
21. DEMOLISH EXISTING STEAM TO HOT WATER HEAT EXCHANGER AND ALL ASSOCIATED PIPING, VALVES, HANGERS, AND SUPPORTS TO PIPING DISCONNECTION LOCATION SHOWN.
22. DEMOLISH EXISTING DUAL TEMPERATURE SUPPLY AND RETURN PIPING THROUGH TRANSFORMER ROOM AND GENERATOR ROOM. REFER TO GENERAL CONSTRUCTION PLANS FOR PATCHING HOLES.
23. DEMOLISH EXISTING CHILLED WATER SUPPLY AND RETURN PIPING AND ALL ASSOCIATED VALVES, CONTROLS AND SPECIALTIES TO POINTS OF DISCONNECTION INDICATED. PIPING SHALL BE REMOVED SUCH THAT ALL TEMPORARY CONNECTIONS SHOWN ON PHASE 1 NEW WORK PLAN SHALL PROVIDE HOT WATER AND CHILLED WATER THROUGH THE EXISTING HOT WATER HEADERS.
24. DEMOLISH EXISTING EXHAUST AIR DUCTWORK UP TO ROOF DAMPER, FAN, POWER AND CONTROLS COMPLETE.
25. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL PERFORM TESTING AND BALANCING READINGS AT EVERY PUMP TO BE DEMOLISHED. IN ORDER TO DOCUMENT EXISTING FLOW AND PRESSURE IN EACH SYSTEM, PSE-DEMO TAB REPORT SHALL BE SUBMITTED TO THE ENGINEER FOR RECORD.

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**KEYPLAN**

**CAMPUS KEYPLAN**

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**PROJECT**  
CAPITAL PROJECT 4466  
BUILDING E UTILITY PLANT  
RENOVATION & IMPROVEMENTS  
DR. ROBERT L. YEAGER HEALTH CENTER  
50 SANATORIUM ROAD,  
POMONA, NY 10970

**DRAWING TITLE**  
**MECHANICAL DEMOLITION FLOOR PLAN - PHASE 1**

**SCALE**  
SCALE: 1/4" = 1'-0"  
DRAWN BY: NW  
CHECKED BY: RS  
DATE: 04-28-2020

**PROJECT NO.**  
NRCK0016.00

**DRAWING NO.**  
M1.1

**MECHANICAL - DEMOLITION FLOOR PLAN - PHASE 1**  
SCALE: 1/4" = 1'-0"  
NORTH

**MECHANICAL DEMOLITION NOTES**

- 1 DEMOLISH EXISTING DUAL TEMPERATURE BUILDING PUMPS AND ALL ASSOCIATED PIPING, VALVES, FITTINGS, WIRING AND CONTROLS THAT WERE NOT DEMOLISHED DURING PHASE 1.
- 2 DEMOLISH EXISTING DUAL TEMPERATURE SUPPLY AND RETURN WATER PIPING AND ALL ASSOCIATED VALVES, FITTINGS, CONTROL WIRING, HANGERS COMPLETE.
- 3 DEMOLISH EXISTING EXPANSION TANKS AT CEILING AND ALL ASSOCIATED PIPING, VALVES, FITTINGS AND SUPPORTS COMPLETE.
- 4 DEMOLISH EXISTING AIR SEPARATORS AND ALL ASSOCIATED PIPING VALVES, FITTINGS AND SUPPORTS COMPLETE.

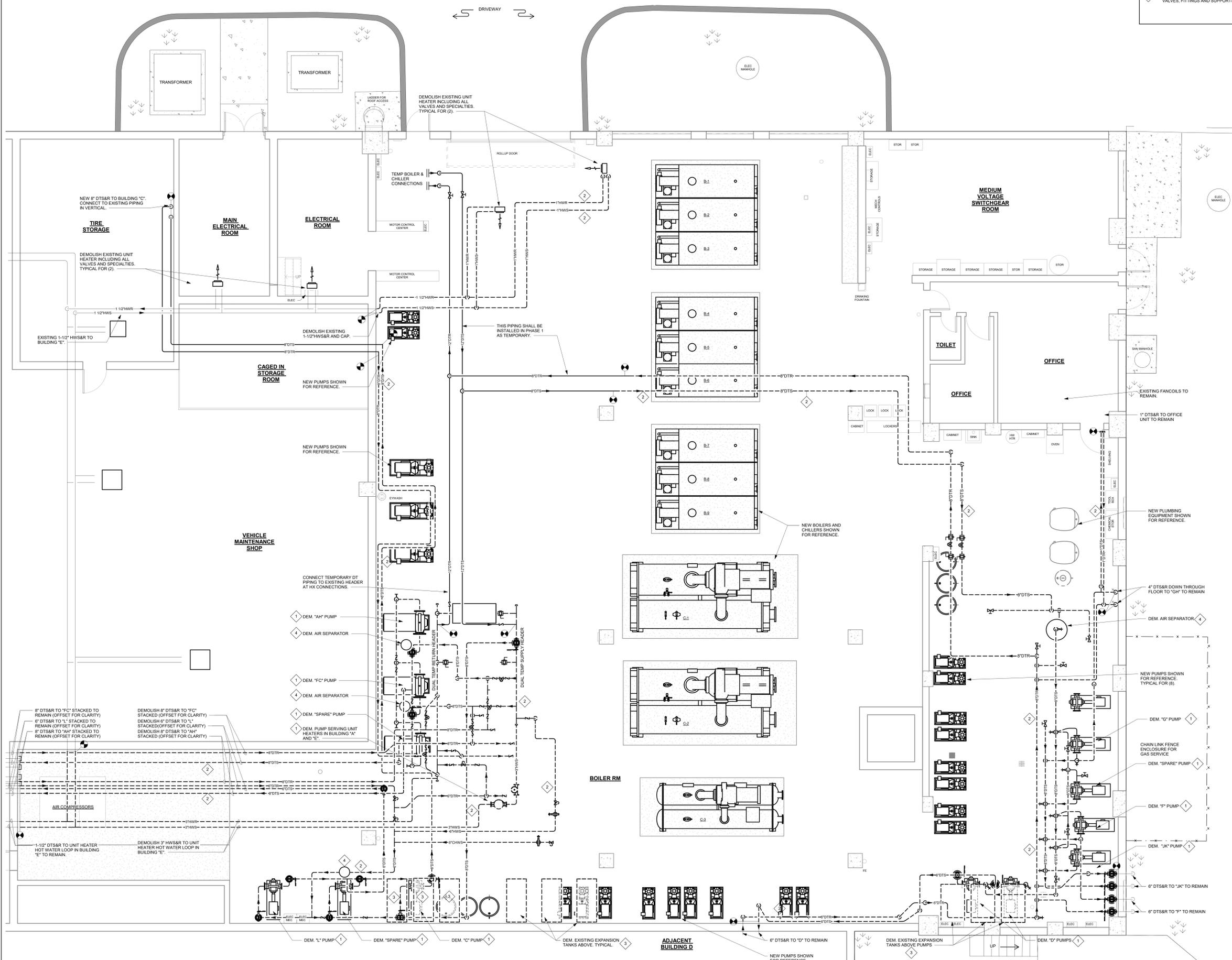
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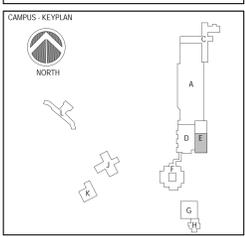
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**MECHANICAL - DEMOLITION FLOOR PLAN - PHASE 2 AND TEMPORARY PIPING**

SCALE: 1/4" = 1'-0"  
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POMONA, NY 10970

DRAWING TITLE  
**MECHANICAL DEMOLITION FLOOR PLAN - PHASE 2 AND TEMPORARY PIPING**

|              |             |
|--------------|-------------|
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| 1/4" = 1'-0" | NRCK0016.00 |
| DRAWN BY     | DRAWING NO. |
| Author       |             |
| CHECKED BY   |             |
| Checker      | <b>M1.2</b> |
| DATE         |             |
| 04-28-2020   |             |

- MECHANICAL DEMOLITION NOTES**
- DEMOLISH EXISTING PRESSURE RELIEF PIPES ON ROOF. REFER TO GENERAL CONSTRUCTION FOR ROOF PATCHING. TYPICAL FOR 24.
  - DEMOLISH EXISTING COOLING TOWERS AND ALL ASSOCIATED PIPING AND FRAMING WORK. REFER TO STRUCTURAL DRAWINGS FOR STEEL.
  - DEMOLISH EXISTING CONDENSER WATER, VALVES, FITTINGS, CONTROL WIRING COMPLETE. PATCH ROOF TO MATCH ADJACENT ROOFING.
  - DEMOLISH EXISTING EXHAUST FANS ON ROOF. EXISTING ROOF CURBS SHALL REMAIN.
  - DEMOLISH EXISTING EXHAUST FAN SERVING THE EXISTING SWITCH ROOM. EXISTING ROOF CURB SHALL REMAIN.
  - DEMOLISH EXISTING EXHAUST PENTHOUSE LOUVER FOR THE GENERATOR. REMOVE DAMPERS AND ALL MECHANICAL EQUIPMENT AND CONTROLS COMPLETE.

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**KEYPLAN**  
 BUILDING E AREA OF WORK

**CAMPUS KEYPLAN**  
 NORTH  
 A  
 B  
 C  
 D  
 E  
 F  
 G  
 H

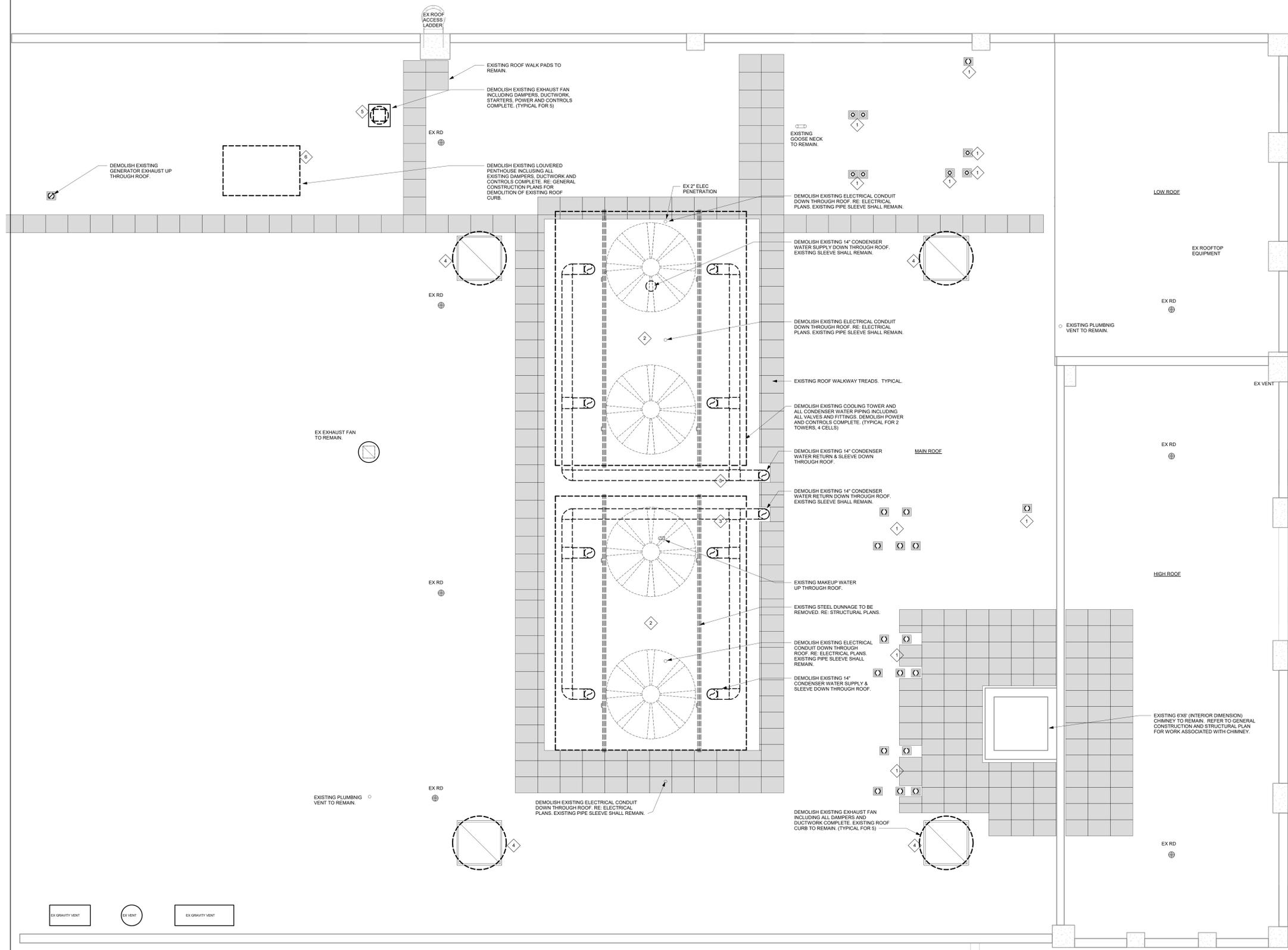
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**DRAWING TITLE**  
 MECHANICAL DEMOLITION  
 ROOF PLAN

| SCALE              | PROJECT NO.  |
|--------------------|--------------|
| 1/4" = 1'-0"       | NRCCK0016.00 |
| DRAWN BY<br>NW     | DRAWING NO.  |
| CHECKED BY<br>RS   | <b>M1.3</b>  |
| DATE<br>04-28-2020 |              |



**MECHANICAL - DEMOLITION ROOF PLAN**  
 SCALE: 1/4" = 1'-0"

THE ROOF SHALL BE PROTECTED DURING ALL PHASES OF WORK. PROVIDE MINIMUM 12" PLWOOD SHEETS LAYED END-TO-END IN ALL AREAS OF WORK. COORDINATE ALL WORK WITH ROOF DRAIN LOCATIONS SO ROOF DRAINAGE IS NOT AFFECTED. DO NOT STORE MATERIALS ON ROOF.



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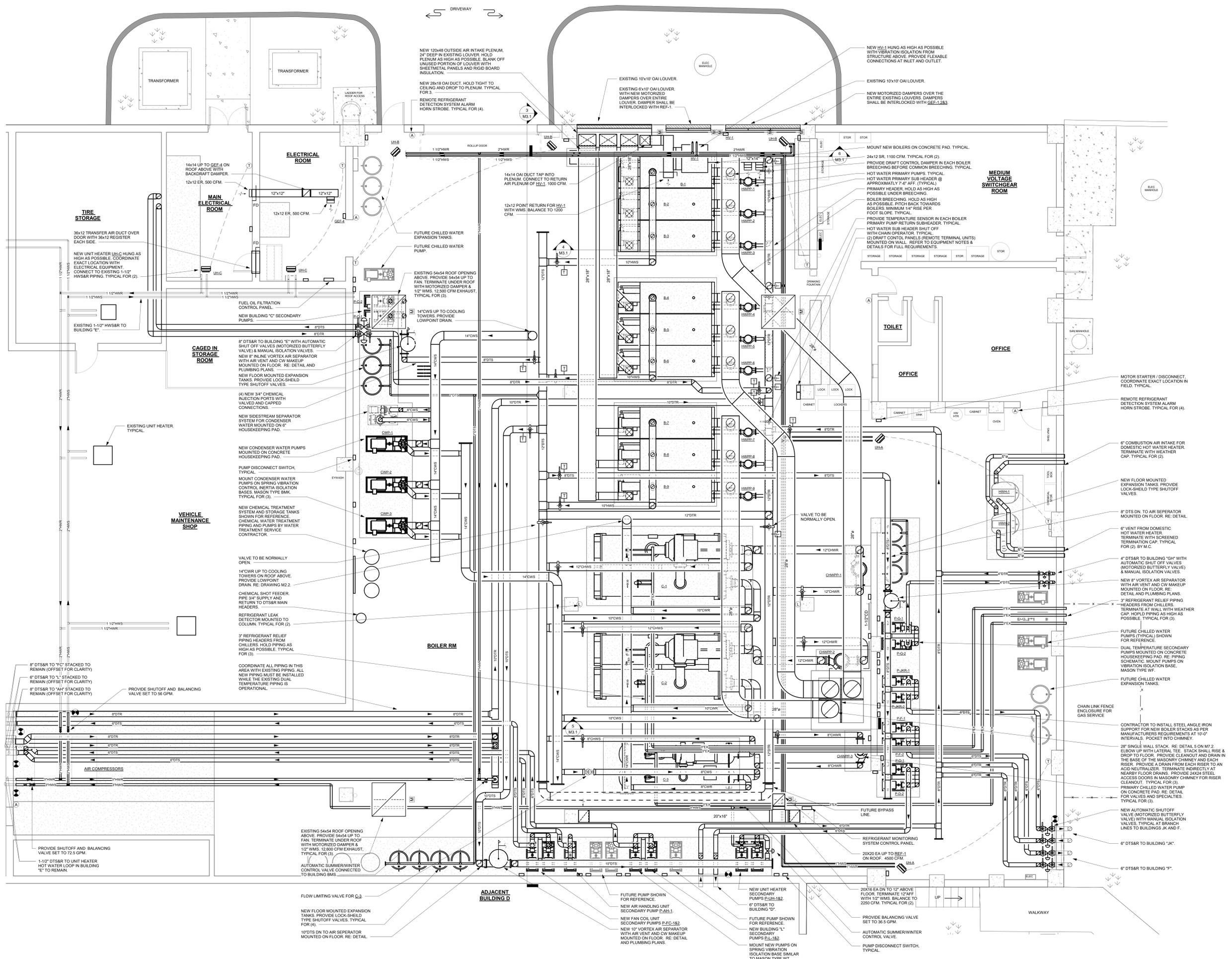
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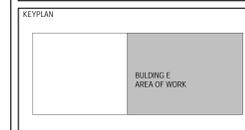
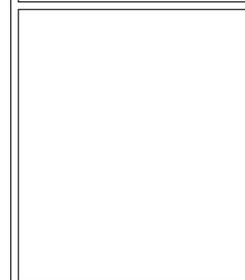
**DRAWING TITLE**  
MECHANICAL NEW WORK  
FLOOR PLAN

|            |              |             |             |
|------------|--------------|-------------|-------------|
| SCALE      | 1/4" = 1'-0" | PROJECT NO. | NRCK0016.00 |
| DRAWN BY   | JRT          | DRAWING NO. |             |
| CHECKED BY | RS           |             |             |
| DATE       | 04-28-2020   |             |             |

**M2.1**



**MECHANICAL - NEW WORK FLOOR PLAN**  
SCALE: 1/4" = 1'-0"  
NOTES:  
- ALL VALVES LOCATED HIGHER THAN 7'-0" AFF SHALL BE PROVIDED WITH CHAIN OPERATORS.  
- ALL PUMP VARIABLE FREQUENCY DRIVES ARE TO BE INCLUDED IN THE MOTOR CONTROL CENTER AND ARE TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. A LOCAL DISCONNECT SWITCH SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.



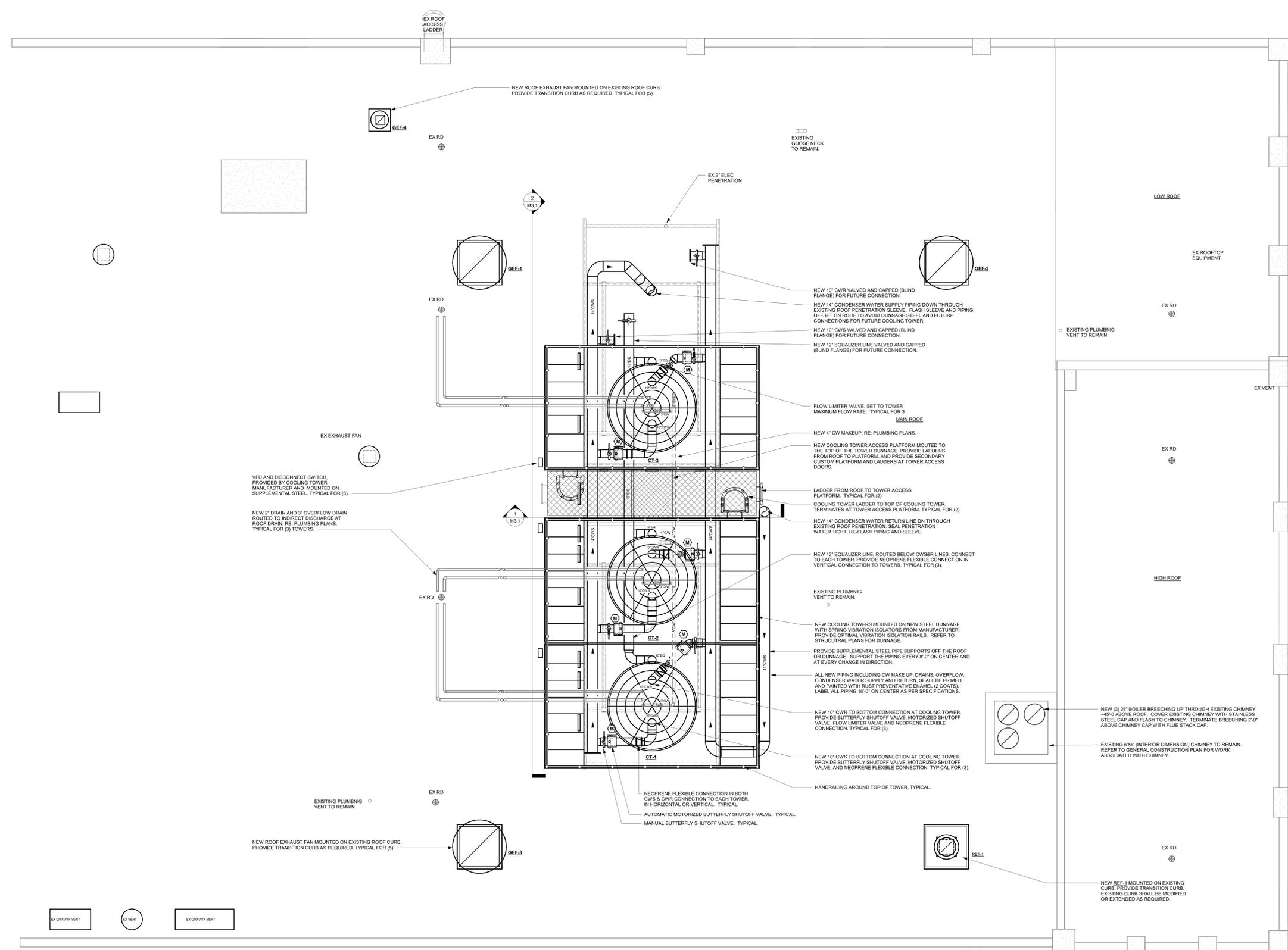
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DRAWING TITLE  
**MECHANICAL NEW WORK  
 ROOF PLAN**

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**MECHANICAL - NEW WORK ROOF PLAN**  
 SCALE: 1/4" = 1'-0"

THE ROOF SHALL BE PROTECTED DURING ALL PHASES OF WORK. PROVIDE MINIMUM 1/2" PLYWOOD SHEETS LAYED END-TO-END IN ALL AREAS OF WORK. COORDINATE ALL WORK WITH ROOF DRAIN LOCATIONS SO ROOF DRAINAGE IS NOT AFFECTED. DO NOT STORE MATERIALS ON ROOF.

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KEYPLAN  
BUILDING E  
AREA OF WORK

CAMPUS KEYPLAN  
NORTH

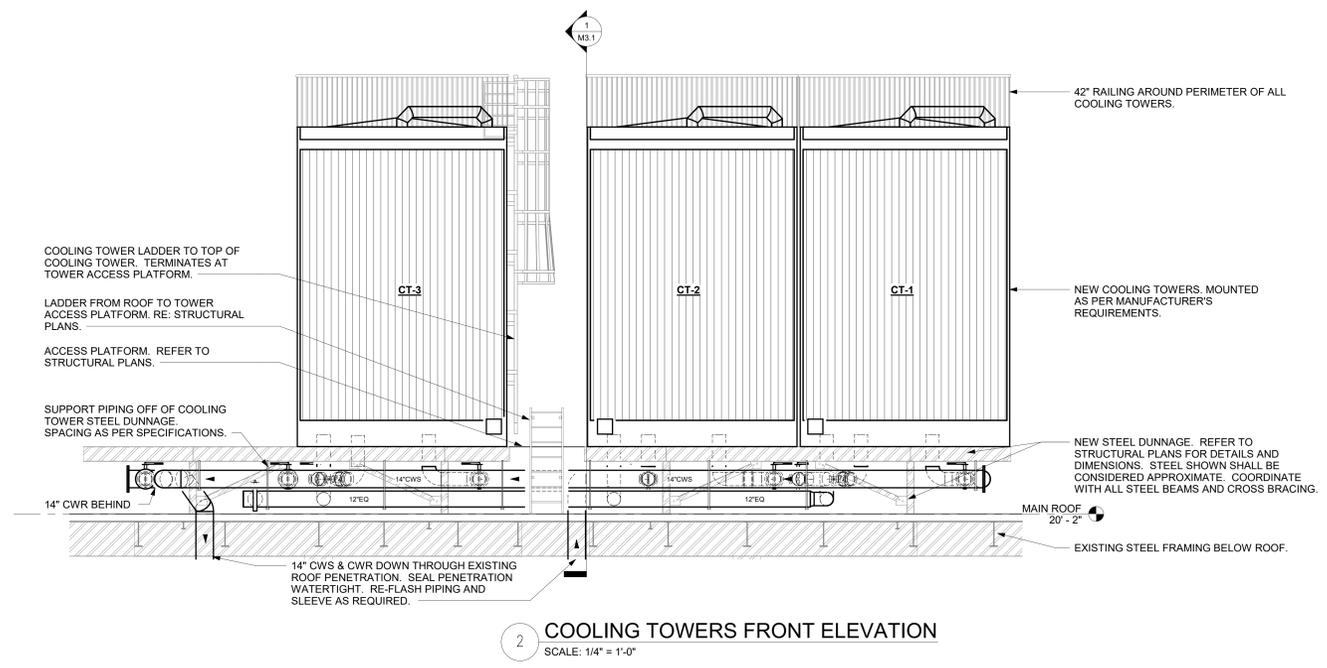
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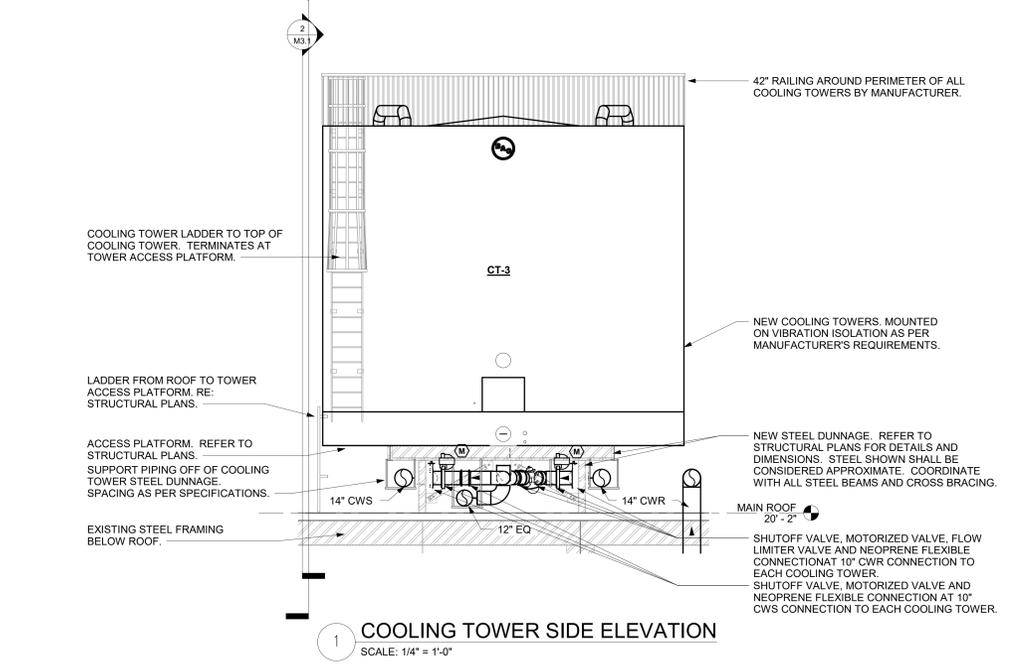
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DRAWING TITLE  
**MECHANICAL ELEVATIONS**

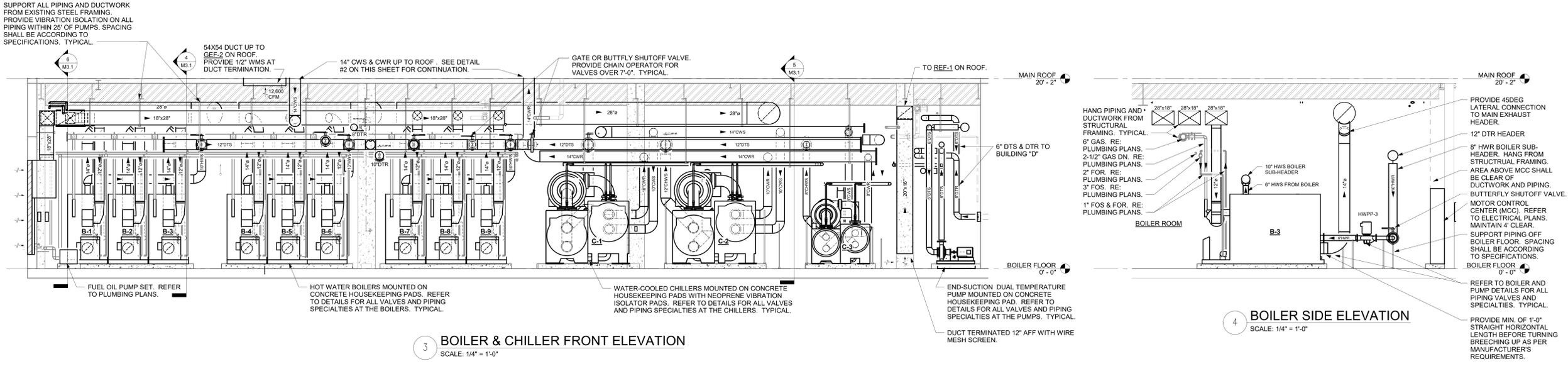
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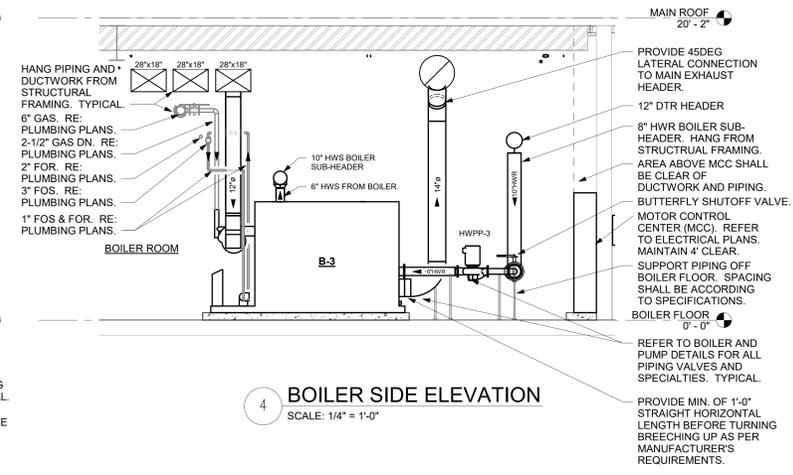
2 COOLING TOWERS FRONT ELEVATION  
SCALE: 1/4" = 1'-0"



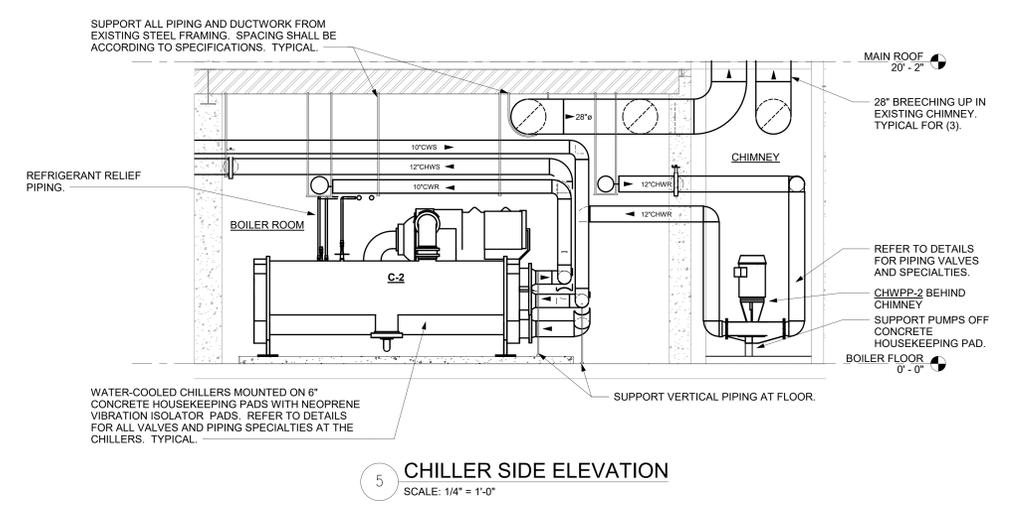
1 COOLING TOWER SIDE ELEVATION  
SCALE: 1/4" = 1'-0"



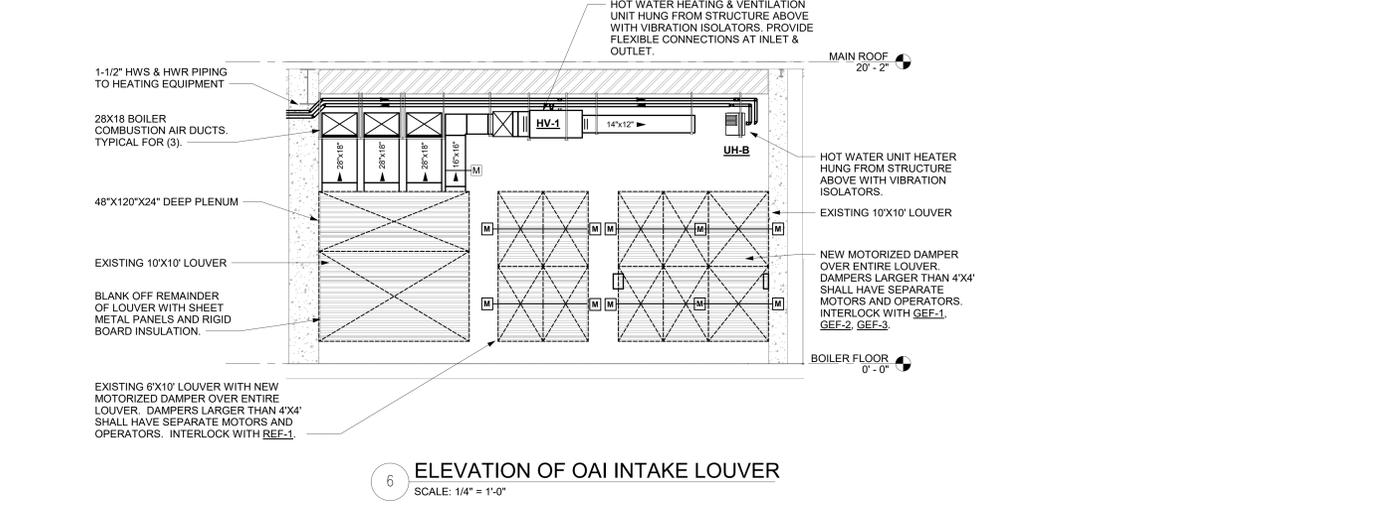
3 BOILER & CHILLER FRONT ELEVATION  
SCALE: 1/4" = 1'-0"



4 BOILER SIDE ELEVATION  
SCALE: 1/4" = 1'-0"



5 CHILLER SIDE ELEVATION  
SCALE: 1/4" = 1'-0"



6 ELEVATION OF OAI INTAKE LOUVER  
SCALE: 1/4" = 1'-0"

| HOT WATER UNIT HEATER SCHEDULE |             |             |             |
|--------------------------------|-------------|-------------|-------------|
| DESIGNATION                    | UH-A        | UH-B        | UH-C        |
| LOCATION                       | BOILER ROOM | BOILER ROOM | BOILER ROOM |
| MODEL                          | HV-84       | HV-120      | HV-36       |
| CFM                            | 1400 / 1100 | 1900 / 1600 | 550 / 480   |
| HP                             | 1/12        | 1/12        | 25 WATT     |
| CAPACITY (MBH)                 | 52.5 / 47.2 | 74.9 / 67.4 | 22.4/2.2    |
| GPM                            | 6.1         | 8.8         | 2.7         |
| E.W.T. / L.W.T.                | 180°F/160°F | 180°F/160°F | 180°F/160°F |
| AMPS                           | 2.2         | 2.2         | 1.2         |
| VOLTS/ØHz                      | 115/1/60    | 115/1/60    | 115/1/60    |

NOTES:  
1. UNIT HEATERS BASED ON VULCAN.  
2. PROVIDE THE FOLLOWING FOR EACH UNIT:  
DISCONNECT SWITCH  
WALL THERMOSTAT  
ADJUSTABLE AIR DEFLECTION LOUVER  
WALL MOUNTED SPEED CONTROLLER  
STRAP ON AQUASTAT HOT WATER SENSOR  
3. HANG UNIT FROM BUILDING STRUCTURE WITH VIBRATION ISOLATORS.

| COOLING TOWER SCHEDULE          |                    |
|---------------------------------|--------------------|
| DESIGNATION                     | CT-1, CT-2, CT-3   |
| LOCATION                        | UTILITY PLANT ROOF |
| MANUFACTURER                    | BALTIMORE AIRCOIL  |
| MODEL                           | XES3-1424-13N      |
| INTERLOCKED                     | CHILLER OPERATION  |
| SHIPPING WEIGHT (LBS)           | 21,780             |
| OPERATING WEIGHT (LBS)          | 45,610 (EACH)      |
| NOMINAL UNIT SIZE (TONS) (EACH) | 838                |
| AMBIENT DBWB (°F)               | -78                |
| GPM (EACH)                      | 2400               |
| W.P.D. (FT H <sub>2</sub> O)    | 19.5               |
| APPROACH (°F)                   | 7                  |
| EWTLWT (°F)                     | 95/85              |
| FANS                            | 1                  |
| No. OF FANS                     | 1                  |
| FAN MOTOR HP (EACH)             | 25                 |
| TOTAL FAN CFM                   | 198,630            |
| VOLTS/ØHz                       | 480/3Ø60           |
| STARTER TYPE                    | VFD                |
| STARTER LOCATION                | MCC                |
| CONNECTION SIZES                |                    |
| INLET (IN)                      | 12                 |
| OUTLET (IN)                     | 12                 |
| COLD WATER MAKE-UP (IN)         | 3                  |
| DRAIN (IN)                      | 2                  |
| EQUALIZER (IN)                  | 12                 |

PROVIDE THE FOLLOWING FEATURES & OPTIONS:  
1. UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS  
MANUFACTURER, COMPATIBLE WITH BUILDING AUTOMATION SYSTEM.  
2. VIBRATION CUTOFF SENSOR WIRED TO FAN MOTOR STARTER.  
3. STAINLESS STEEL BASIN  
4. LOCAL WEATHERPROOF DISCONNECT SWITCH AT UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.  
5. MOTOR STARTERS AND DISCONNECT SWITCHES NOT LOCATED IN THE MOTOR CONTROL CENTER (MCC) SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL MOTOR STARTERS LOCATED IN THE MOTOR CONTROL CENTER (MCC) SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.  
6. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.  
7. SERVICE PLATFORM WITH 42" HANDRAILS AROUND TOP OF TOWER. SAFETY GATES AND ACCESS LADDER BY MANUFACTURER. ALL COMPONENTS SHALL BE GALVANIZED STEEL.  
8. AIR INLET SCREENS.  
9. ELECTRIC WATER LEVEL CONTROL PACKAGE.  
10. PREMIUM EFFICIENCY MOTORS WITH VARIABLE SPEED DRIVE.  
11. EXTENDED LUBRICATION LINES.  
12. LOW AND HIGH LEVEL ALARM FLOAT SWITCHES.  
13. LOW SOUND FAN.  
14. MOTORIZED VALVES ON TOWER INLET AND OUTLET CONNECTIONS.  
15. PROVIDE VIBRATION ISOLATION AS PER SPECIFICATIONS.  
16. VFD STARTER SHALL BE PROVIDED BY THE MANUFACTURER.  
17. SINGLE POINT POWER CONNECTION.

| WATER COOLED ELECTRIC CHILLER SCHEDULE |                         |                         |
|--|-------------------------|-------------------------|
| DESIGNATION                            | C-1, C-2                | C-3                     |
| LOCATION                               | BOILER ROOM             | BOILER ROOM             |
| AREA SERVED                            | YEAGER CAMPUS           | YEAGER CAMPUS           |
| MANUFACTURER                           | CARRIER                 | CARRIER                 |
| MODEL                                  | 19XRV6567C49VEG64       | 19XRV454834HJDT84       |
| INTERLOCKED                            | COOLING TOWER OPERATION | COOLING TOWER OPERATION |
| OPERATING WEIGHT (LBS)                 | 37,907 (EACH)           | 23,705                  |
| NOMINAL SIZE (TONS)                    | 800                     | 400                     |
| FULL LOAD EFF. (KW/TON)                | 0.5763                  | 0.6144                  |
| NPLV (KW/TON)                          | 0.3618                  | 0.3688                  |
| EVAPORATOR:                            |                         |                         |
| GPM                                    | 1600                    | 800                     |
| E.W.T./L.W.T. (°F)                     | 54/42                   | 54/42                   |
| W.P.D. (FT H <sub>2</sub> O)           | 19                      | 14.3                    |
| No. PASSES                             | 2                       | 2                       |
| CONDENSER:                             |                         |                         |
| GPM                                    | 2400                    | 1200                    |
| E.W.T./L.W.T. (°F)                     | 85/95                   | 85/95                   |
| W.P.D. (FT H <sub>2</sub> O)           | 21                      | 16.9                    |
| No. PASSES                             | 2                       | 2                       |
| ELECTRICAL DATA:                       |                         |                         |
| VOLTS/ØHz                              | 460/3Ø60                | 460/3Ø60                |
| MCA                                    | 757                     | 401                     |
| FLA                                    | 605                     | 353                     |
| MOCP                                   | 1200                    | 700                     |

PROVIDE THE FOLLOWING FEATURES & OPTIONS:  
1. PROVIDE CHILLER WITH SINGLE POINT EXTERNAL POWER CONNECTION & FACTORY FURNISHED VFD WITH LOCAL DISCONNECT SWITCH.  
2. SHIPPED FACTORY CHARGED WITH REFRIGERANT.  
3. HOT GAS BYPASS / ENVELOPE STABILITY CONTROL.  
4. THERMAL INSULATION.  
5. CUSTOMER FACTORY PERFORMANCE TESTING.  
6. EXTENDED WARRANTY.  
7. REFRIGERANT ISOLATION VALVES.  
8. SOLEPLATE PACKAGE.  
9. BACNET COMPATIBLE - SHALL BE INTEGRATED WITH THE BUILDING AUTOMATION INTERFACE.  
10. LOSS OF CONDENSER WATER FLOW SENSOR.  
11. FURNISH VIBRATION ISOLATORS FOR CHILLER AS PER THE SPECIFICATIONS.  
CHILLERS SHALL BE EQUIPPED WITH THE FOLLOWING:  
1. MICROPROCESSOR CONTROLS.  
2. LOSS OF CHILLED WATER FLOW SENSOR.  
3. TEMPERATURE AND PRESSURE GAUGES.  
4. LOSS OF CONDENSER WATER FLOW SENSOR.  
5. SAFETY CUTOUPS.

| PUMP SCHEDULE                            |  |                  |             |              |              |                      |              |              |              |              |                  |                 |                |             |             |             |
|--|--|------------------|-------------|--------------|--------------|----------------------|--------------|--------------|--------------|--------------|------------------|-----------------|----------------|-------------|-------------|-------------|
| DESIGNATION                              | HWPP-1, HWPP-2, HWPP-3, HWPP-4, HWPP-5, HWPP-6, HWPP-7, HWPP-8, HWPP-9 | CHWPP-1, CHWPP-2 | CHWPP-3     | CWP-1, CWP-2 | CWP-3        | P-AH-1, P-C-1, P-C-2 | P-C-1, P-C-2 | P-L-1, P-L-2 | P-D-1, P-D-2 | P-F-1, P-F-2 | P-JKR-1, P-JKR-2 | P-G-1, P-G-2    | P-UH-1, P-UH-2 |             |             |             |
| LOCATION                                 | BOILER ROOM  | BOILER ROOM      | BOILER ROOM | BOILER ROOM  | BOILER ROOM  | BOILER ROOM          | BOILER ROOM  | BOILER ROOM  | BOILER ROOM  | BOILER ROOM  | BOILER ROOM      | BOILER ROOM     | BOILER ROOM    | BOILER ROOM | BOILER ROOM | BOILER ROOM |
| SYSTEM SERVED                            | BOILERS  | CHILLERS         | CHILLERS    | CHILLERS     | CHILLERS     | "AH" UNITS           | BUILDING "C" | BUILDING "L" | BUILDING "D" | BUILDING "T" | BUILDINGS "GSH"  | BUILDINGS "GSH" | UNIT HEATERS   |             |             |             |
| PRIMARY OR SECONDARY                     | PRIMARY  | PRIMARY          | PRIMARY     | PRIMARY      | PRIMARY      | SECONDARY            | SECONDARY    | SECONDARY    | SECONDARY    | SECONDARY    | SECONDARY        | SECONDARY       | SECONDARY      |             |             |             |
| MANUFACTURER                             | ARMSTRONG  | ARMSTRONG        | ARMSTRONG   | ARMSTRONG    | ARMSTRONG    | ARMSTRONG            | ARMSTRONG    | ARMSTRONG    | ARMSTRONG    | ARMSTRONG    | ARMSTRONG        | ARMSTRONG       | ARMSTRONG      |             |             |             |
| MODEL                                    | 4380 6X6X8   | 4300 10X10X13    | 4300 8X8X10 | 4030 10X8X15 | 4030 10X8X15 | 4030 8X6X13          | 4030 4X3X13  | 4030 4X3X13  | 4030 4X3X13  | 4030 3X2X6   | 4030 4X3X10      | 4030 3X2X10     | 4030 3X2X10    |             |             |             |
| TYPE                                     | INLINE   | END SUCTION      | END SUCTION | END SUCTION  | END SUCTION  | END SUCTION          | END SUCTION  | END SUCTION  | END SUCTION  | END SUCTION  | END SUCTION      | END SUCTION     | END SUCTION    |             |             |             |
| NOMINAL DESIGN FLOW RATE (GPM)           | 560  | 1600             | 800         | 2400         | 2400         | 1400                 | 400          | 450          | 355          | 260          | 325              | 160             | 165            |             |             |             |
| MINIMUM FLOW RATE (GPM)                  | -  | -                | -           | -            | -            | 490                  | 140          | 160          | 125          | 90           | 115              | 55              | 55             |             |             |             |
| COOLING SEASON FLOW RATE (GPM)           | -  | 1600             | 800         | 2400         | 1200         | 943                  | 383          | 302          | 355          | 260          | 173              | 160             | -              |             |             |             |
| HEATING SEASON FLOW RATE (GPM)           | 560  | -                | -           | -            | -            | 991                  | 354          | 279          | 328          | 238          | 160              | 149             | 130            |             |             |             |
| TOTAL DYNAMIC HEAD (FT H <sub>2</sub> O) | 20   | 30               | 25          | 80           | 80           | 135                  | 135          | 140          | 140          | 100          | 85               | 80              | 33             |             |             |             |
| RPM                                      | 1200   | 1200             | 1200        | 1200         | 1200         | 1800                 | 1800         | 1800         | 1800         | 3600         | 1800             | 1800            | 1586           |             |             |             |
| NPSH (FT H <sub>2</sub> O)               | 5  | 10               | 7           | 9            | 9            | 10                   | 5            | 5            | 5            | 10           | 7                | 5               | 7.81           |             |             |             |
| MOTOR BHP                                | 3.5  | 16               | 7           | 58           | 58           | 58                   | 20           | 23           | 18           | 8            | 4.5              | 4.5             | 1.85           |             |             |             |
| MOTOR HP                                 | 5  | 20               | 7.5         | 75           | 75           | 75                   | 30           | 30           | 30           | 15           | 15               | 7.5             | 3              |             |             |             |
| VOLTAGE/ØHz                              | 460/3Ø60   | 460/3Ø60         | 460/3Ø60    | 460/3Ø60     | 460/3Ø60     | 460/3Ø60             | 460/3Ø60     | 460/3Ø60     | 460/3Ø60     | 460/3Ø60     | 460/3Ø60         | 460/3Ø60        | 460/3Ø60       |             |             |             |
| STARTER TYPE                             | VFD  | VFD              | VFD         | VFD          | VFD          | VFD                  | VFD          | VFD          | VFD          | VFD          | VFD              | VFD             | VFD            |             |             |             |
| STARTER LOCATION                         | BOILER ROOM  | BOILER ROOM      | BOILER ROOM | BOILER ROOM  | BOILER ROOM  | BOILER ROOM          | BOILER ROOM  | BOILER ROOM  | BOILER ROOM  | BOILER ROOM  | BOILER ROOM      | BOILER ROOM     | BOILER ROOM    |             |             |             |
| INTERLOCK                                | BOILERS  | CHILLERS         | CHILLERS    | CHILLERS     | CHILLERS     | BMS                  | BMS          | BMS          | BMS          | BMS          | BMS              | BMS             | BMS            |             |             |             |

NOTES:  
1. ALL PUMPS SHALL BE CAST IRON BODY, BRONZE FITTED, BRONZE IMPELLER. REFER TO SPECIFICATION FOR PUMP CONSTRUCTION.  
2. ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY.  
3. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.  
4. MOTOR STARTERS AND DISCONNECT SWITCHES NOT LOCATED IN THE MOTOR CONTROL CENTER (MCC) SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. ALL MOTOR STARTERS LOCATED IN THE MOTOR CONTROL CENTER (MCC) SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.  
5. REFER TO THE SPECIFICATIONS FOR VIBRATION ISOLATION REQUIREMENTS.  
6. PROVIDE GROUNDING FOR EACH PUMP FOR LIGHTNING PROTECTION.

| HEATING AND VENTILATING UNIT SCHEDULE         |             |  |  |
|---|-------------|--|--|
| DESIGNATION:                                  | HV-1        |  |  |
| LOCATION                                      | BOILER ROOM |  |  |
| MANUFACTURER                                  | CARRIER     |  |  |
| MODEL   | 39SHK05     |  |  |
| UNIT DIMENSIONS - WIDTH x HEIGHT x DEPTH (IN) | 45x42x22    |  |  |
| FILTERS:                                      |             |  |  |
| TYPE  | MERV 8      |  |  |
| QUANTITY/SIZE                                 | 2 / 20x20   |  |  |
| HOT WATER COIL:                               |             |  |  |
| FACE AREA (SQ. FT.)                           | 5           |  |  |
| E.W.T./L.W.T. (°F)                            | 180/160     |  |  |
| E.A.T./L.A.T. (°F)                            | 42.7/85     |  |  |
| CAPACITY (MBH)                                | 100.1       |  |  |
| GPM   | 6.7         |  |  |
| SUPPLY FAN:                                   |             |  |  |
| CFM   | 2200        |  |  |
| OAI CFM                                       | 1000        |  |  |
| FAN MOTOR HP                                  | 0.5         |  |  |
| FAN MOTOR TYPE                                | VFD         |  |  |
| ESP (IN H <sub>2</sub> O)                     | .25         |  |  |
| VOLTS/ØHz                                     | 460/3Ø60    |  |  |

NOTES:  
1. PROVIDE THE FOLLOWING FEATURES & OPTIONS FOR EACH UNIT:  
• UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.  
• COORDINATE RIGHT-HANDLE-HAND COIL CONNECTIONS IN THE FIELD.  
• FURNISH 2-WAY MODULATING CONTROL VALVE FOR EACH COIL. 5 PSI MAX AT CONTROL VALVE.  
• WALL MOUNTED THERMOSTAT.  
• FACTORY FURNISHED LOCAL DISCONNECT SWITCH.  
• COIL AIR VENT.  
• (2) SETS OF SPARE FILTERS FOR EACH UNIT.  
• FINISH SHALL BE CUSTOM ENAMEL. SUBMIT COLOR CHART FOR APPROVAL.  
• VFD STARTER SHALL BE PROVIDED BY MANUFACTURER.  
• ALL MOTORS FURNISHED WITH VFD'S SHALL BE INVERTER DUTY RATED AND APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.

| FAN SCHEDULE             |                     |                      |                        |
|--------------------------|---------------------|----------------------|------------------------|
| DESIGNATION              | GEF-1, GEF-2, GEF-3 | GEF-4                | REF-1                  |
| LOCATION                 | ROOF                | ROOF                 | ROOF                   |
| AREA SERVED              | BOILER ROOM         | ELECTRICAL ROOM      | BOILER ROOM - CHILLERS |
| MANUFACTURER             | COOK                | COOK                 | COOK                   |
| MODEL                    | 490C8B              | 120C17DEC            | 195C8B                 |
| WEIGHT (LBS)             | 700                 | 55                   | 150                    |
| FAN TYPE                 | MUSHROOM            | MUSHROOM             | MUSHROOM               |
| DRIVE TYPE               | BELT                | DIRECT - EC MOTOR    | BELT                   |
| CFM                      | 12,600              | 1,000                | 4,500                  |
| BHP                      | 1.5                 | 0.15                 | 1.22                   |
| HP                       | 1.5                 | 0.168                | 1.5                    |
| RPM                      | 263                 | 1316                 | 1145                   |
| SP (IN H <sub>2</sub> O) | 0.375               | 0.5                  | 0.5                    |
| VOLTS/ØHz                | 480/3Ø60            | 120/1Ø60             | 480/3Ø60               |
| STARTER LOCATION         | MCC                 | ELECTRICAL ROOM WALL | MCC                    |
| STARTER TYPE             | VFD                 | VFD                  | VFD                    |
| INTERLOCK                | BMS/THERMOSTAT      | BMS/THERMOSTAT       | BMS                    |

NOTES:  
1. ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY.  
2. FURNISH RUBBER IN SHEAR OR SPRING VIBRATION ISOLATORS AS PER THE SPECIFICATION.  
3. FURNISH WALL MOUNTED SPEED CONTROLLER OR THERMOSTAT AS INDICATED ON PLAN.  
4. TRANSITION CURB ADAPTER TO FIT ON EXISTING ROOF CURB.  
5. FURNISH BAROMETRIC BACKDRAFT DAMPER IN ROOF CURB FOR ROOFTOP FAN.  
6. WHERE REQUIRED, MOTOR STARTER AND DISCONNECT SWITCH FOR EACH FAN SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. EACH ROOFTOP FAN SHALL BE FURNISHED WITH WEATHERPROOF UNIT-MOUNTED LOCAL DISCONNECT SWITCH.  
7. PROVIDE BIRDSCREEN FOR ALL FANS.  
8. REF-1 SHALL BE PROVIDED WITH REMOTE WALL-MOUNT AIR BALANCE KIT (VFABK).  
9. PROVIDE GROUNDING FOR EACH FAN FOR LIGHTNING PROTECTION.

- ### EQUIPMENT NOTES
- LISTED SPECIAL GAS VENTING: FOR ALL GAS FIRED DIRECT VENTING CONDENSING & NON-CONDENSING APPLIANCES (BOILERS, DOMESTIC HOT WATER HEATERS) SHALL BE HEATFAB "S&T" VENT "C1 PLUS" DOUBLE WALL CONSTRUCTION, 1" FIBERGLASS INSULATION, AL-29-4C STAINLESS STEEL, SPECIAL VENT UL 1736 FOR POSITIVE, NEUTRAL, AND NEGATIVE DRAFT UP TO 15"WC. PRODUCT IS RATED FOR ZERO CLEARANCE TO COMBUSTIBLES. PROVIDE STRAIGHT SECTIONS, ELBOWS, OFFSETS, CONNECTION ADAPTERS, WALL SLEEVES, AND SCREENED TERMINATIONS.
  - OUTSIDE AIR INTAKE: FOR ALL GAS FIRED DIRECT VENTING CONDENSING & NON-CONDENSING APPLIANCES (BOILERS, DOMESTIC HOT WATER HEATERS) SHALL BE SINGLE-WALL, SPIRAL GALVANIZED STEEL BY SHEET METAL CONNECTORS, INC. ALL DUCTWORK IS 4-PLY SPIRAL LOCKSEAM MEETING ASTM A-663. ALL DUCT CONNECTIONS SHALL BE MADE WITH A DOUBLE LEGGED EPDM GASKET CREATING AN AIR-TIGHT CONNECTION MEETING ASTM A-663. SINGLE-WALL DUCT GAUGE SHALL BE SELECTED FOR POSITIVE, NEUTRAL, AND NEGATIVE DRAFT UP TO 15"WC WITH A MINIMUM GAUGE OF 24. PRODUCT IS RATED FOR ZERO CLEARANCE TO COMBUSTIBLES. PROVIDE STRAIGHT SECTIONS, ELBOWS, OFFSETS, CONNECTION ADAPTERS, WALL SLEEVES, AND SCREENED TERMINATIONS.
  - EXPANSION TANKS: SHALL BE WESSELS / ARMSTRONG N.A-SERIES VERTICAL EXPANSION TANK MODEL NLA-800L WITH PRE-CHARGED STEEL TANK WITH HEAVY-DUTY BUTYL BLADDER, SYSTEM CONNECTIONS, CHARGING VALVE, DRAIN PLUG, PRESSURE GAUGE AND BLADDER INTEGRITY MONITOR. TANKS SHALL BE 211 GAL. WITH 189 GAL. ACCEPTANCE. 240°F MAX OPERATING TEMPERATURE. 125 PSI MAX WORKING PRESSURE. FACTORY PRE-CHARGED TO 40 PSIG AND ADJUSTABLE. UNIT SHALL BE MANUFACTURED IN ACCORDANCE WITH ASME SECTION VIII.
  - VORTEX AIR SEPARATOR: SHALL BE ARMSTRONG VAS SERIES. 375°F MAXIMUM WORKING TEMPERATURE, 165 PSIG MAXIMUM WORKING PRESSURE, INLET AND OUTLET CONNECTIONS WITH 150# ANSI FLANGES, BLIND FLANGE FOR STRAINER PULL, AIR OUTLET, AND DRAIN. SIZE SHALL BE VAS-8 OR VAS-10 TO MATCH THE PIPE SIZE SHOWN ON PLAN. UNIT SHALL BE MANUFACTURED IN ACCORDANCE WITH ASME CODE.
  - AUTOMATIC AIR ELIMINATOR: SHALL BE ARMSTRONG MODEL AAE-750, WITH 250°F MAXIMUM OPERATING TEMPERATURE, 2-133 PSIG AIR PRESSURE OPERATING RANGE, 100% SPRING ACTION POSITIVE SHUTOFF, 3/4" NPT SYSTEM CONNECTION.
  - CONDENSER WATER SIDE STREAM SEPARATOR: SHALL BE LAKOS MODEL TBI-0400-SRV, 60 1/2" HIGH, 30" WIDE, 48" LONG, 150 PSIG MAXIMUM WORKING PRESSURE, 6" INLET & 4" OUTLET CONNECTIONS WITH 150# ANSI FLANGES, 1/4" NPT PRESSURE GAUGES AT INLET & OUTLET, 1/2" PURGE OUTLET WITH MANUAL ISOLATION VALVE, 7.5 HP END SUCTION PUMP WITH PREMIUM EFFICIENCY MOTOR, 460/3Ø60, 11AMPS AND NEMA4X CONTROL ENCLOSURE WITH DISCONNECT SWITCH. PROVIDE A 1/2" AUTOMATIC BALL VALVE MODEL #ABV2-15 WITH ASSOCIATED WALL MOUNTED LAKOS CONTROL PANEL. LAKOS CONTROL PANEL AND VALVE SHALL BE 120# HARDWIRED. PROVIDE INLET AND OUTLET VALVE KIT. UNIT SHALL BE MANUFACTURED IN ACCORDANCE WITH ASME CODE.
  - PIPE LABELS: SHALL BE SETON ULTRA-MARK WEATHER RESISTANT FOR OUTDOOR APPLICATION AND OPT-CODE FOR INDOOR APPLICATION. LETTERS AND ARROWS SHALL BE 2 1/2" HIGH AND SHALL BE WHITE ON A GREEN BACKGROUND AND SHALL CONFORM TO ANSI AND OSHA STANDARDS. APPLY OVER INSULATION ONLY.
  - PIPE INSULATION/JACKETING: SHALL BE WHITE ZESTON 2000 PVC COVERS FOR PIPING AND FITTINGS. JACKET ALL PIPING AND FITTINGS THAT ARE EXPOSED IN ANY ROOM. NEW AND EXISTING FROM FLOOR UP TO 10'-0" ABOVE FINISHED FLOOR.
  - HEAVY DUTY SIDEWALL RETURN AIR REGISTERS: SHALL BE TITUS MODEL 33RL STEEL CONSTRUCTION, WITH 1/2" SPACING, 38" FIXED DEFLECTION, 14-GAUGE BORDER, 14-GAUGE BLADES, SUPPORT BARS 6" ON CENTER, OPPOSED BLADE VOLUME DAMPER IN NECK, SIZE AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL. FRAME SHALL BE SUITABLE FOR DUCT MOUNTING.
  - SIDEWALL SUPPLY AIR REGISTERS: SHALL BE TITUS MODEL 30FL ALUMINUM CONSTRUCTION, WITH 3/4" SPACING, DOUBLE DEFLECTION AIRFOIL BLADES, OPPOSED BLADE VOLUME DAMPER IN NECK, SIZE AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL. FRAME SHALL BE SUITABLE FOR LAY-IN OR SURFACE MOUNTING AS REQUIRED. COORDINATE WITH ARCH PLANS.
  - CHEMICAL SHOT FEEDER: SHALL BE NEPTUNE VERTICAL 10-GALLON MODEL DBF-10HP. THE FEEDER SHALL BE CONSTRUCTED OF 10 GAUGE STEEL AND SHALL BE PRIMED. INCLUDE OPTIONAL FILTER BAG KIT WITH BAG, BAG FRAME, TUBING AND CONNECTORS. THE BYPASS FEEDER SHALL BE RATED AT 300 PSI. TANK & SUPPORT STANDS SHALL BE EPOXY COATED.
  - DUAL-FUEL HOT WATER BOILERS (B-1, B-2, B-3, B-4, B-5, B-6, B-7, B-8, B-9): SHALL BE FULTON VANTAGE-6000DF, DUAL-FUEL, CONDENSING HOT WATER BOILER, RATED AS FOLLOWS:
    - 42.8 GPM LIGHT OIL CONSUMPTION @ 67.36 MBH OUTPUT)
    - 6000 MBH GAS INPUT - GAS PRESSURE 18 IN/42 MAX W.C.
    - 5.640 MBH GROSS OUTPUT.
    - 460/ØPHØHz, 15 FLA.
    - 7.5 HP BLOWER MOTOR.
    - 1 HP OIL PUMP MOTOR.
    - 14,800 LBS OPERATING WEIGHT.
    - 480 GAL WATER CONTENT.
    - 12.7 FT HEAD PRESSURE DROP AT 20°F ΔT.
    - THE BOILER SHALL BE IN COMPLIANCE WITH CSD-1.

- STANDARD CONTROLS AND FEATURES:
- 160 PSIG MAXIMUM ALLOWABLE WORKING PRESSURE.
  - 210°F MAXIMUM ALLOWABLE WORKING TEMPERATURE.
  - MINIMUM RETURN WATER TEMPERATURE OF 140°F (#2 FUEL OIL); NO MINIMUM RETURN WATER TEMPERATURE ON NATURAL GAS.
  - FACTORY RECOMMENDED MAXIMUM SETPOINT 190°F.
  - DUAL FUEL (GAS/OIL) BURNER.
  - LMV3 LINKAGELESS BURNER MANAGEMENT SYSTEM.
  - SPRNG COMBINATION GAS VALVE & REGULATOR.
  - TEMPERATURE LOAD CONTROLLER WITH MODBUS.
  - LOW WATER CUT OFF PROBE WITH MANUAL RESET.
  - HIGH AND LOW GAS PRESSURE SWITCHES.
  - AUTOMATIC RESET HIGH LIMIT AQUASTAT.
  - MANUAL RESET HIGH LIMIT AQUASTAT (200°F MAX).
  - OUTLET WATER TEMPERATURE SENSOR.
  - VENTLESS GAS TRAIN UTILIZING VENT LIMITERS.
  - ALARM CONTACT AND ALARM HORN.
  - STATUS (GAS VALVE ENABLED) CONTACT.
  - REMOTE ENABLE/DISABLE CONTACT.
  - LOCAL/OFF/REMOTE 3-POSITION SWITCH.
  - TIME DELAY RELAY FOR PRIMARY (BOILER) PUMP.
  - TIME DELAY RELAY FOR MOTORIZED ISOLATION VALVE.
  - TWO (2) INTERLOCK CONTACTS.
  - EMERGENCY STOP (E-STOP) CONTACTS BACNET INTEGRATION.
  - ASME SAFETY RELIEF VALVE (60 PSIG).
  - PRESSURE & TEMPERATURE GAUGES.
  - INSTALLATION AND OPERATION MANUAL.
  - RUBBER COMBUSTION AIR INTAKE COUPLING.

- FURNISH THE FOLLOWING FEATURES & OPTIONS FOR EACH BOILER:
- BACNET INTEGRATION.
  - SINGLE BOILER CONDENSATE DRAIN TRAP.
  - CONDENSATE PH NEUTRALIZATION KIT.
  - SECONDARY LOW-WATER CUTOFF.
  - 120V MOTORIZED ISOLATION VALVE.
  - DISCONNECT SWITCH.
- BOILER SEQUENCING CONTROLLER:
- FULTON MOD SYNC SE CONTROL PANEL.

- REFRIGERANT LEAK DETECTION SYSTEM: SHALL BE THERMAL GAS SYSTEMS INC MODEL# HALOGUARD II WITH LCD DISPLAY, AUDIBLE ALARM, RELAYS AND OUTPUTS FOR INTERFACE WITH BUILDING MANAGEMENT SYSTEM AND 2 REMOTE IR SENSOR MODULES. REFER TO SPECIFICATION FOR DETAILS. PROVIDE THE FOLLOWING OPTIONS: STROBE LIGHT ALARM, GAS TEST KIT, BATTERY BACK-UP, AUTOMATIC CALIBRATION. PROVIDE REMOTE HORN STROBE ALARMS AT EACH ENTRANCE TO THE BOILER ROOM.
- MOTORIZED DAMPERS: SHALL BE RUSKIN MODEL CD40, 4" DEEP EXTRUDED ALUMINUM AIRFOIL DAMPER. DAMPER SHALL HAVE OPPOSED BLADES, MOTOR AND LINKAGE. DAMPERS SHALL BE 120V/1Ø/60Hz, 3 AMPS MAX. FURNISH DISCONNECT SWITCH.

- BOILER DRAFT CONTROL SYSTEM: SHALL BE US DRAFT CO WITH CDS2 DRAFT CONTROLLERS FOR EACH BOILER. CDS2 SHALL BE 120V/1Ø/60Hz AND SHALL INCLUDE OPTIONAL GAS FLOW SWITCHES. THE SYSTEM SHALL RECEIVE (2) REMOTE TERMINAL UNITS MODEL RTU1 WHICH WILL COMMUNICATE WITH THE BOILER CDS2 CONTROLLERS AND THE BMS SYSTEM. SEE FLOOR PLAN FOR LOCATION, DETAIL FOR SEQUENCE OF OPERATION AND SPECIFICATIONS FOR MORE INFORMATION.

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**KEYPLAN**

**CAMPUS-KEYPLAN**

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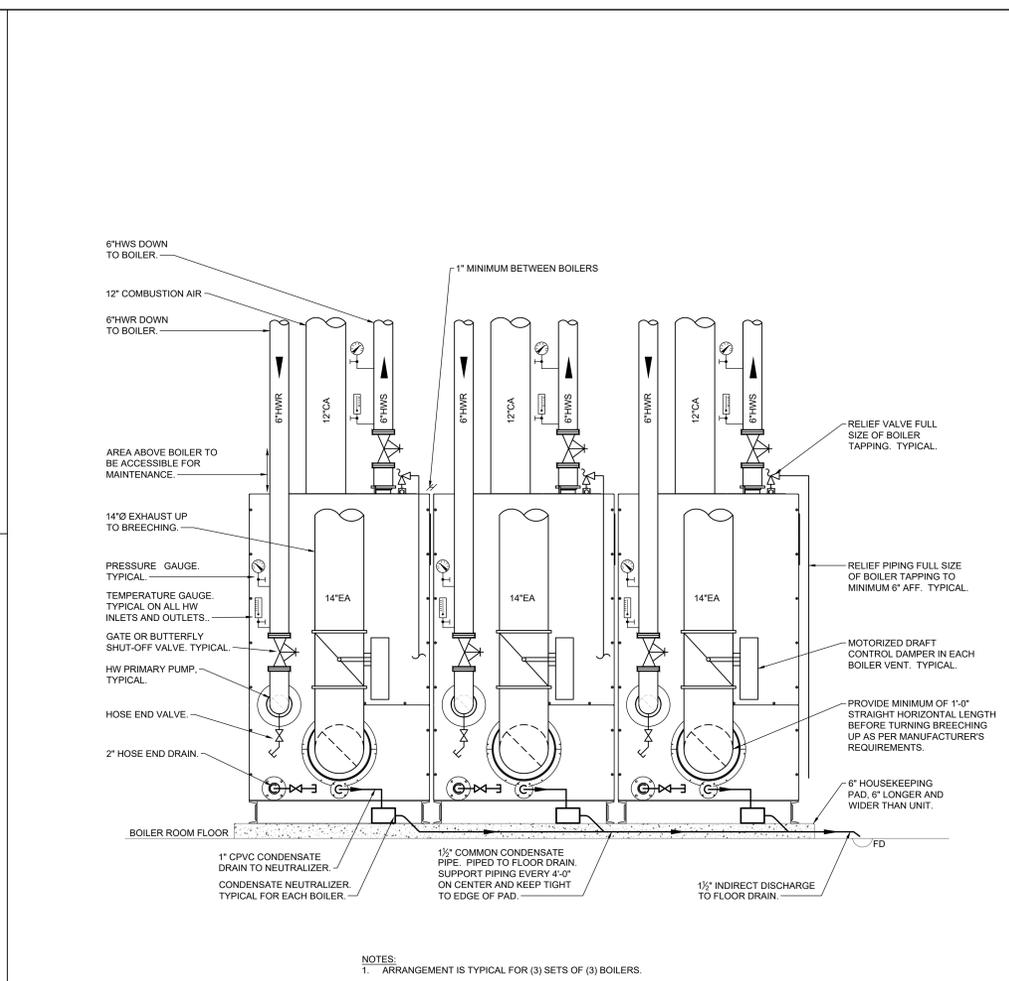
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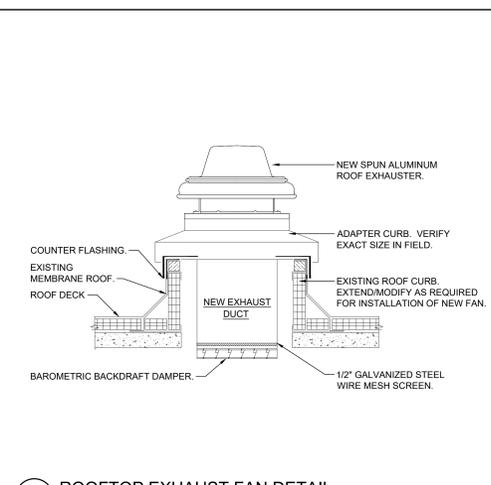
PROJECT: CAPITAL PROJECT 4466 BUILDING E UTILITY PLANT RENOVATION & IMPROVEMENTS DR. ROBERT L. YEAGER HEALTH CENTER 50 SANATORIUM ROAD, POMONA, NY 10970

DRAWING TITLE: MECHANICAL DETAILS

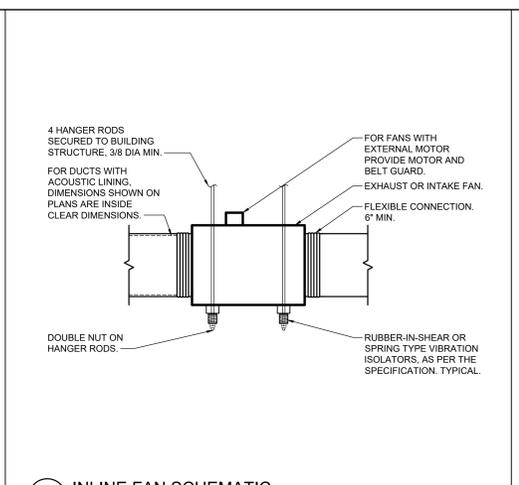
|                 |                         |
|-----------------|-------------------------|
| SCALE: NONE     | PROJECT NO: NRCK0016.00 |
| DRAWN BY: NW    | DRAWING NO: M7.1        |
| CHECKED BY: RIS | DATE: 04-28-2020        |



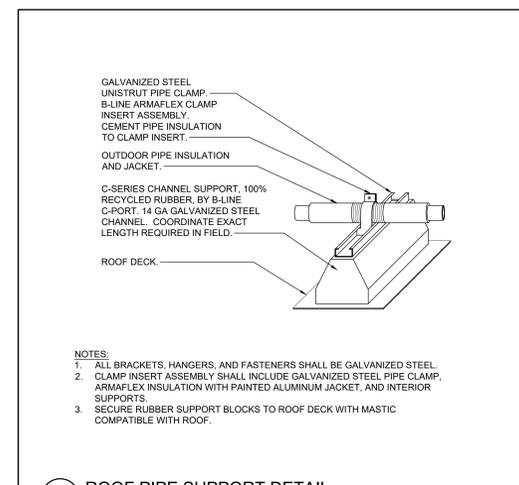
**4 BOILER PIPING SCHEMATIC**  
 SCALE: NONE



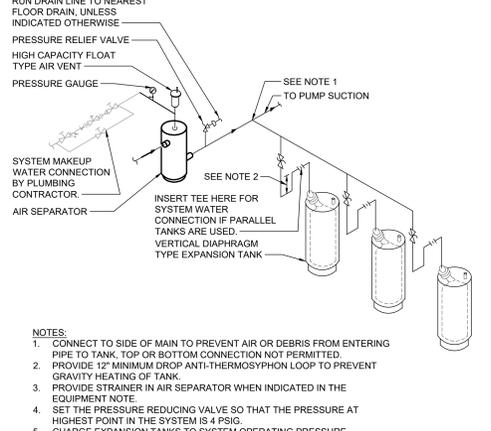
**8 ROOFTOP EXHAUST FAN DETAIL**  
 SCALE: NONE



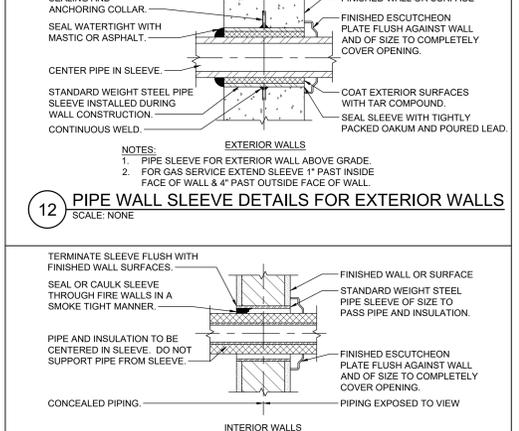
**13 INLINE FAN SCHEMATIC**  
 SCALE: NONE



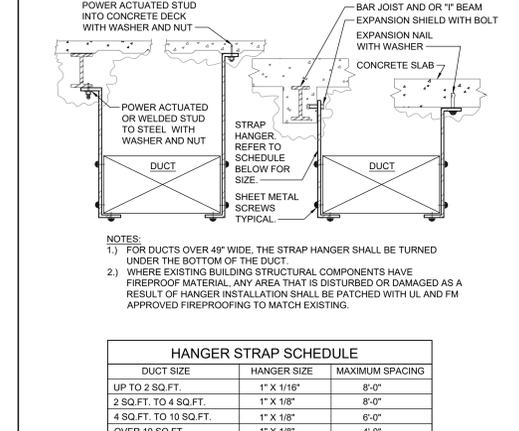
**17 ROOF PIPE SUPPORT DETAIL**  
 SCALE: NONE



**7 EXPANSION TANK PIPING SCHEMATIC**  
 SCALE: NONE

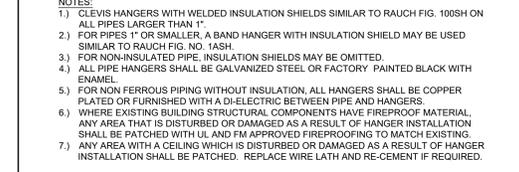


**12 PIPE WALL SLEEVE DETAILS FOR EXTERIOR WALLS**  
 SCALE: NONE

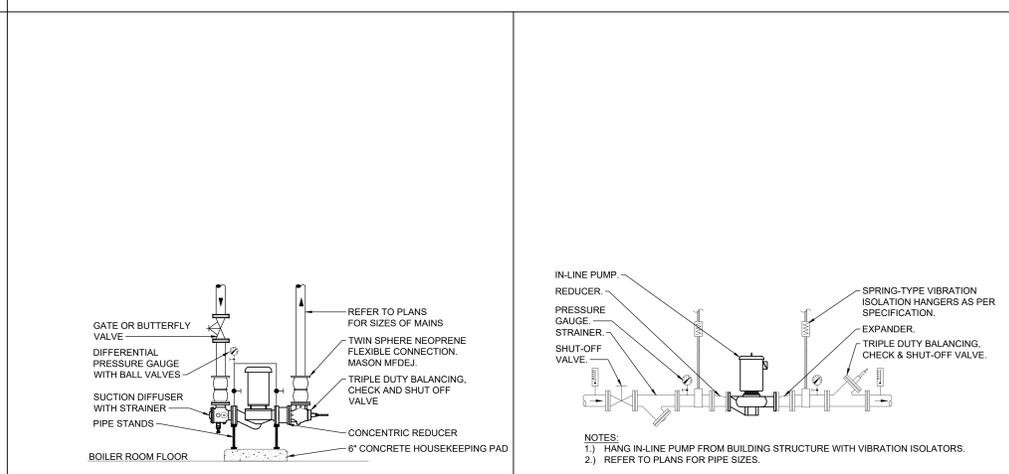


**16 DUCT HANGER DETAIL**  
 SCALE: NONE

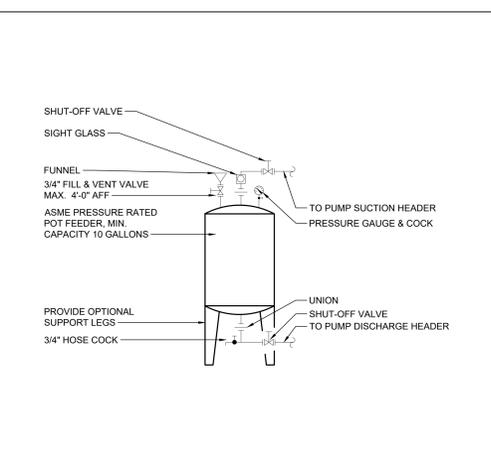
| HANGER STRAP SCHEDULE   |              |                 |
|-------------------------|--------------|-----------------|
| DUCT SIZE               | HANGER SIZE  | MAXIMUM SPACING |
| UP TO 2 SQ. FT.         | 1\" X 1/16\" | 8'-0"           |
| 2 SQ. FT. TO 4 SQ. FT.  | 1\" X 1/8\"  | 8'-0"           |
| 4 SQ. FT. TO 10 SQ. FT. | 1\" X 1/8\"  | 6'-0"           |
| OVER 10 SQ. FT.         | 1\" X 1/8\"  | 4'-0"           |



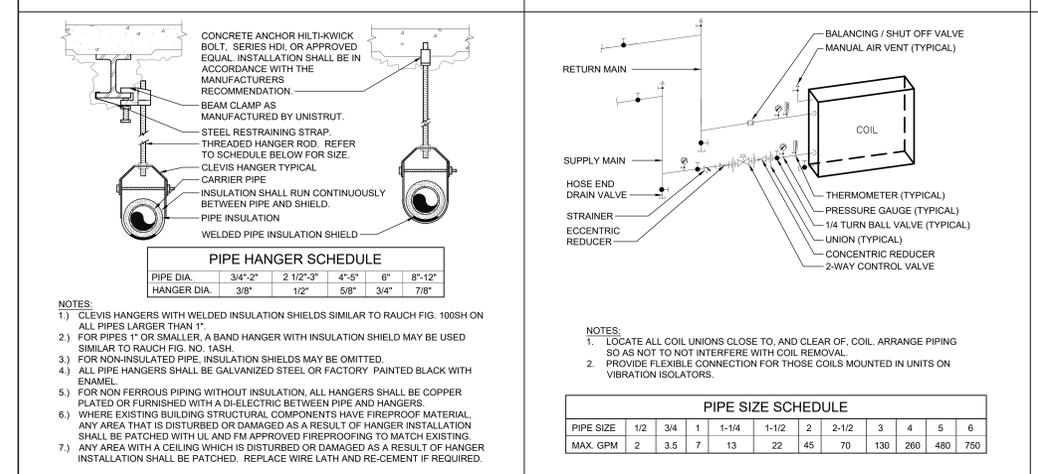
**15 PIPE HANGER DETAIL**  
 SCALE: NONE



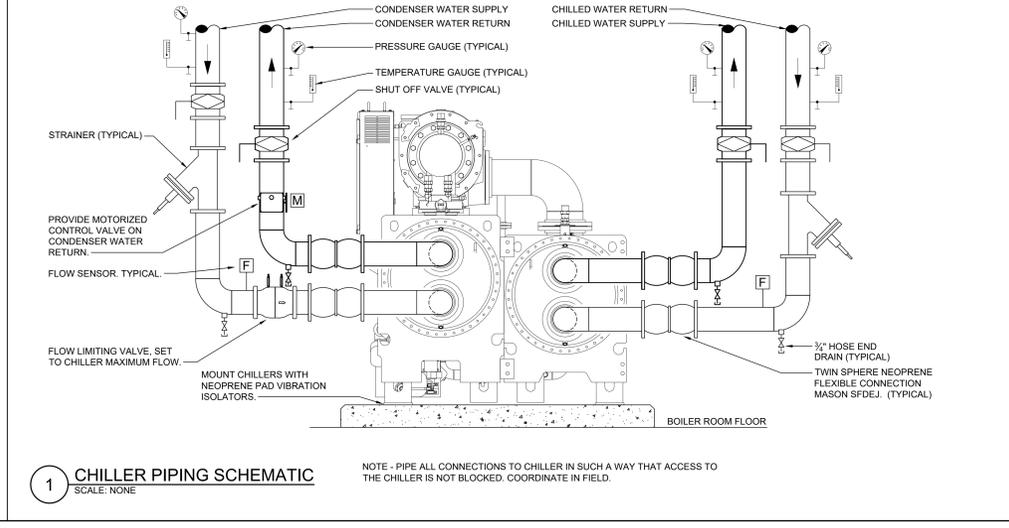
**3 IN-LINE CHILLER PRIMARY PUMP SCHEMATIC**  
 SCALE: NONE



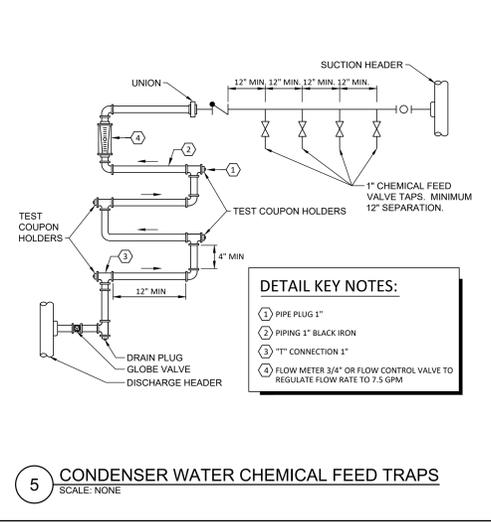
**10 HYDRONIC COIL PIPING SCHEMATIC**  
 SCALE: NONE



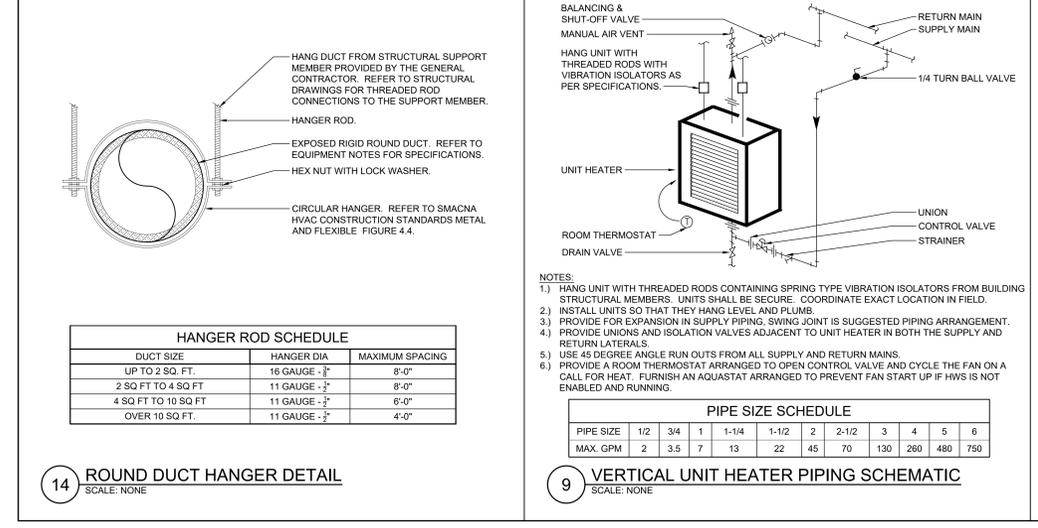
**9 VERTICAL UNIT HEATER PIPING SCHEMATIC**  
 SCALE: NONE



**1 CHILLER PIPING SCHEMATIC**  
 SCALE: NONE



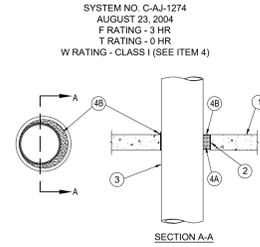
**5 CONDENSER WATER CHEMICAL FEED TRAPS**  
 SCALE: NONE



**14 ROUND DUCT HANGER DETAIL**  
 SCALE: NONE

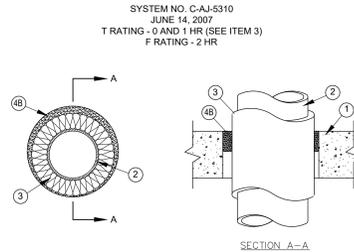
**NOTES:**

- FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS\*. MAX DIAM OF OPENING IS 26 IN.
    - \* SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
  - STEEL SLEEVE (OPTIONAL) - NOM 14 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY.
  - THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING OR SLEEVE SHALL BE MIN 0 IN. (POINT CONTACT) TO MAX 2 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
    - A. STEEL PIPE - NOM 24 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
    - B. IRON PIPE - NOM 24 IN. DIAM (OR SMALLER) SERVICE WEIGHT (OR HEAVIER) CAST IRON SOIL PIPE, NOM 24 IN DIAM (OR SMALLER) CLASS 50 (OR HEAVIER) DUCTILE IRON PRESSURE PIPE.
    - C. CONDUIT - NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT OR NOM 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.
    - D. COPPER TUBING - NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
    - E. COPPER PIPE - NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
  - FIRESTOP SYSTEM - THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
    - A. PACKING MATERIAL - MIN 4 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED TO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
    - B. FILL VOID OR CAVITY MATERIALS\* - CAULK OR SEALANT - MIN 1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS. FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL. MIN 1/4 IN. DIAM BEAD OF CAULK APPLIED TO THE PENETRANT/CONCRETE OR PENETRANT/SLEEVE INTERFACE AT THE POINT CONTACT LOCATION ON THE TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL.
- 3M COMPANY - CP 25WB+ CAULK OR FB-3000 WTT SEALANT.  
(THE W RATING APPLIES ONLY WHEN FB-3000 WTT IS USED.)
- \*BEARING THE UL CLASSIFICATION MARKING



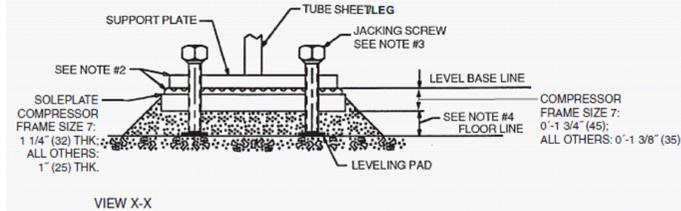
**10 UNINSULATED PIPE AND CONDUIT FIRE STOPPING DETAIL**  
SCALE: NONE

- FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M<sup>3</sup>) CONCRETE. FLOOR ASSEMBLY MAY ALSO BE CONSTRUCTED OF ANY MIN 6 IN. (152 MM) THICK UL CLASSIFIED HOLLOW-CORE PRECAST CONCRETE UNITS\*. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS\*. DIAM OF OPENING TO BE NOM 2 IN. (51 MM) (LARGER THAN OUTSIDE DIAM OF PIPE COVERING MATERIAL (ITEM 3); MAX DIAM OF OPENING 12 IN. (305 MM); MAX DIAM OF OPENING IN FLOORS CONSTRUCTED OF HOLLOW-CORE CONCRETE 8.7 IN. (218 MM).
  - THROUGH PENETRANTS - ONE METALLIC PIPE OR TUBING TO BE INSTALLED CONCENTRICALLY OR ECCENTRICALLY WITHIN OPENING. PENETRANT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBES MAY BE USED:
    - A. STEEL PIPE - NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
    - B. IRON PIPE - NOM 4 IN. (102 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
    - C. COPPER TUBING - NOM 4 IN. (102 MM) DIAM (OR SMALLER) TYPE M (OR HEAVIER) COPPER TUBE.
    - D. COPPER PIPE - NOM 4 IN. (102 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
  - PIPE COVERING - NOM 3 IN. (76 MM) THICK (OR LESS) HOLLOW CYLINDRICAL HEAVY DENSITY GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SECURED WITH METAL FASTENERS OR WITH BUTT TAPE SUPPLIED WITH PRODUCT. ANNULAR SPACE BETWEEN THE PIPE COVERING AND PERIPHERY OF OPENING OR SLEEVE SHALL BE MIN 3/8 IN. (10 MM) TO MAX 1-1/2 IN. (38 MM), WHEN PIPE COVERING MATERIAL THICKNESS IS LESS THAN 3 IN. (76 MM). T RATING IS 0 HR.
  - SEE PIPE AND EQUIPMENT COVERING - MATERIALS (BRGJ) CATEGORY IN THE BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.
  - FIRESTOP SYSTEM - THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
    - A. PACKING MATERIAL - (OPTIONAL, NOT SHOWN) - POLYETHYLENE BACKER ROD OR NOM 1 IN. (25 MM) THICKNESS OF TIGHTLY-PACKED MINERAL WOOL BATT OR GLASS FIBER INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. IN FLOORS CONSTRUCTED OF HOLLOW-CORE CONCRETE, PACKING MATERIAL TO BE RECESSED FROM TOP AND BOTTOM SURFACES OF FLOOR OR SLEEVE AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
    - A1. FORMING MATERIAL - AS AN ALTERNATE TO THE PACKING MATERIAL IN ITEM 5A, NOM 4 IN. (102 MM) WIDE STRIPS OF MIN 1/2 IN. (13 MM) THICK COMPRESSIBLE MAT FOLDED IN HALF LENGTHWISE AND STAGGED TO A THICKNESS GREATER THAN THE WIDTH OF THE ANNULAR SPACE AND COMPRESSION-WITTEN EDGES FIRST TO FILL THE ANNULAR SPACE TO A MIN 2 IN. (51 MM) DEPTH. TOP OF FORMING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS NECESSARY TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL. IN FLOORS CONSTRUCTED OF HOLLOW-CORE CONCRETE, FORMING MATERIAL TO BE RECESSED FROM TOP AND BOTTOM SURFACES OF FLOOR OR SLEEVE AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
    - B. FILL VOID OR CAVITY MATERIALS\* - SEALANT - MIN 2 IN. (51 MM) THICKNESS OF SEALANT APPLIED WITHIN THE ANNULUS. FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL. IN FLOORS CONSTRUCTED OF HOLLOW-CORE CONCRETE, MIN 2 IN. (51 MM) THICKNESS OF SEALANT APPLIED WITHIN THE ANNULUS. FLUSH WITH TOP AND BOTTOM SURFACES OF FLOOR OR SLEEVE.
- 3M COMPANY - FIRE BARRIER PACKING MATERIAL.
- 3M COMPANY - FB-3000 WTT
- \*BEARING THE UL CLASSIFICATION MARK



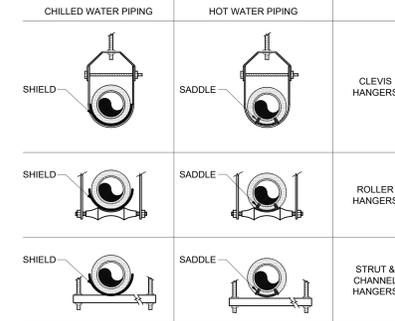
**9 INSULATED PIPE FIRE STOPPING DETAIL**  
SCALE: NONE

**ACCESSORY SOLEPLATE DETAIL**



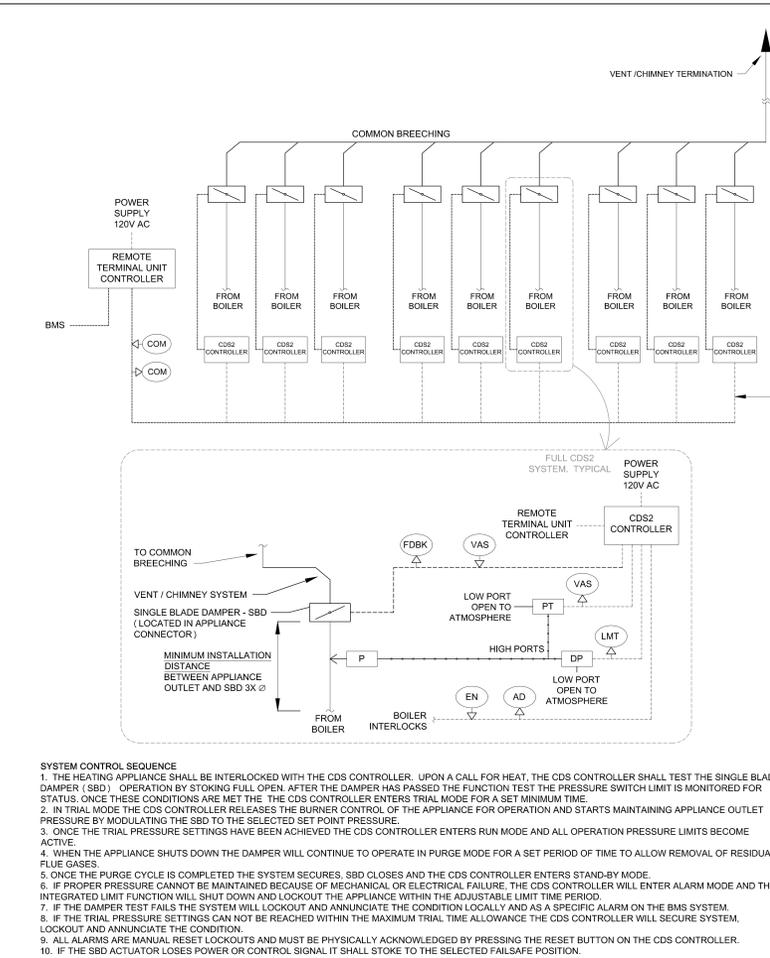
- NOTES:**
- Dimensions in ( ) are in millimeters.
  - Accessory (Carrier-supplied, field-installed) soleplate package includes 4 soleplates, 16 jacking screws and leveling pads. Isolation package is also required.
  - Jacking screws to be removed after grout has set.
  - Thickness of grout will vary, depending on the amount necessary to level chiller. Use only pre-mixed non-shrinking grout, Ceilcoat 748 OR Embecco 636 Plus Grout, 0'-1 1/2" (38.1) to 0'-2 1/4" (57) thick.

**7 ACCESSORY SOLEPLATE DETAIL**  
SCALE: NONE

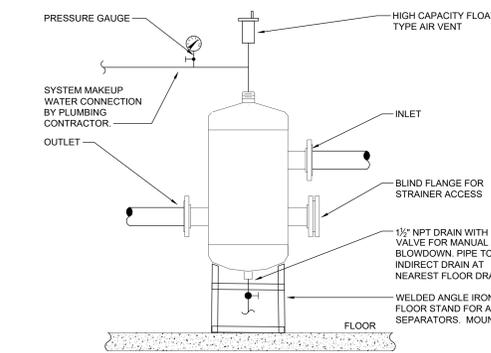


- NOTES:**
- INSULATION ON ALL COLD SURFACES SHALL BE APPLIED WITH A CONTINUOUS, UNBROKEN VAPOR SEAL. HANGERS, SUPPORTS, ANCHORS, ETC. THAT ARE SECURED DIRECTLY TO COLD SURFACES SHALL BE ADEQUATELY INSULATED AND VAPOR SEALED TO PREVENT CONDENSATION.
  - GALVANIZED METAL SHIELDS SHALL BE APPLIED BETWEEN HANGERS OR SUPPORTS AND THE PIPE INSULATION AS SHOWN ABOVE. SHIELDS SHALL BE FORMED TO FIT THE INSULATION AND SHALL EXTEND UP TO THE CENTERLINE OF THE PIPE.
  - RIGID INSULATION INSERTS SHALL BE INSTALLED ON PIPE SIZES 1 1/2" (38 MM) OR LARGER AS SHOWN ABOVE. INSERTS SHALL BE OF EQUAL THICKNESS TO THE ADJOINING INSULATION AND SHALL BE PROVIDED WITH VAPOR RETARDER SEALS.

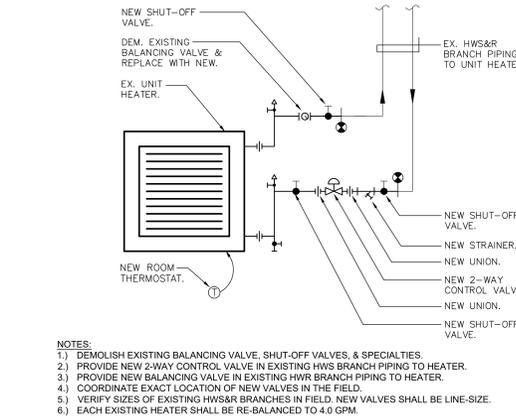
**4 PIPE INSULATION SADDLE/SHIELD SCHEDULE**  
SCALE: NONE



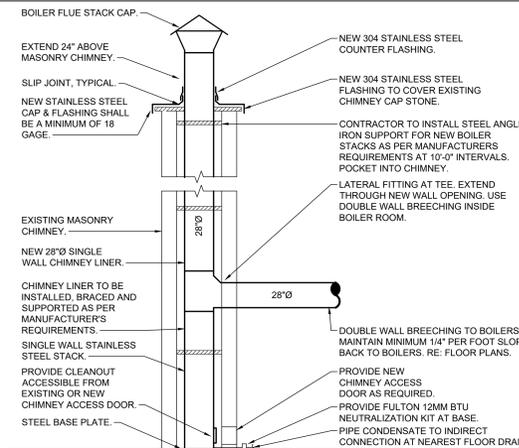
**8 BOILER DRAFT CONTROL SYSTEM DIAGRAM**  
SCALE: NONE



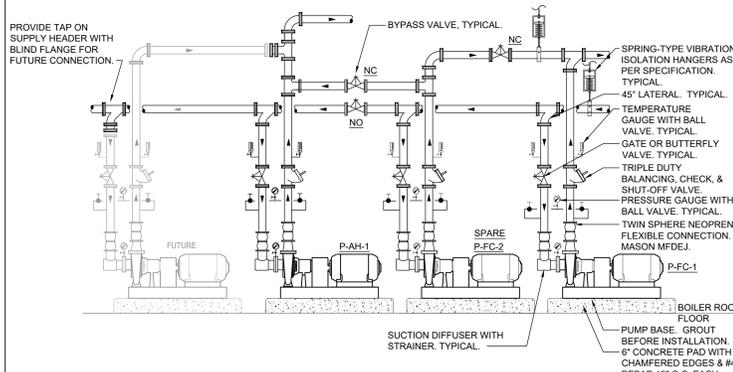
**6 VORTEX AIR SEPARATOR PIPING SCHEMATIC**  
SCALE: NONE



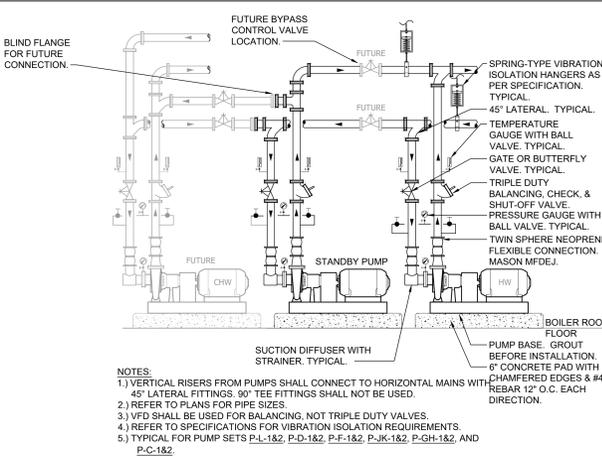
**3 PIPING SCHEMATIC FOR EXISTING UNIT HEATERS**  
SCALE: NONE



**5 CHIMNEY LINER RISER**  
SCALE: NONE



**4 P-AH-1 AND P-FC-1&2 PUMP SCHEMATIC**  
SCALE: NONE



**2 PUMP SCHEMATIC**  
SCALE: NONE

**1 P-UH-1&2 PUMP SCHEMATIC**  
SCALE: NONE

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| 1   | ISSUED FOR BID | 11/01/2021 |

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PROJECT: CAPITAL PROJECT 4466  
BUILDING E UTILITY PLANT  
RENOVATION & IMPROVEMENTS  
DR. ROBERT L. YEAGER HEALTH CENTER  
50 SANATORIUM ROAD,  
POMONA, NY 10970

**MECHANICAL DETAILS**

|                  |                         |
|------------------|-------------------------|
| SCALE: NONE      | PROJECT NO: NRC00016.00 |
| DRAWN BY: NJW    | DRAWING NO:             |
| CHECKED BY: RIS  | <b>M7.2</b>             |
| DATE: 04-28-2020 |                         |