

MODULAR CENTRAL PLANT SCHEDULE

MARK	MANUFACTURER	COMPONENTS					ELECTRICAL			INITIAL WEIGHT (LBS)	FUTURE WEIGHT (LBS)	REMARKS
		FLUID COOLERS	CW PUMPS	BOILER	HW PUMPS	EXPANSION TANK	V/PH/Hz	MCA	MOCP			
MCP 1	DAIKIN	REFER TO SCHEDULE	REFER TO SCHEDULE	REFER TO SCHEDULE	REFER TO SCHEDULE	REFER TO SCHEDULE	REFER TO MANUFACTURER'S MODULE DESIGN			-	-	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37
<p>1. PROVIDE SINGLE POINT CONNECTION AT 480V, 3 PHASE. PROVIDE A BAS GUI INTERFACE INSIDE THE PLANT (32" 4K MONITOR).</p> <p>2. PROVIDE ALL RIGGING, INTERNAL PIPING, AND INTERNAL WIRING TO BE PERFORMED BY THE MANUFACTURERS OF THE PLANT.</p> <p>3. PROVIDE BAC NET INTERFACE TO CONNECT TO OWNER BAS. PROVIDE FREEZE-LESS HOSE BIB.</p> <p>4. SINGLE POINT 480V-3-PHASE POWER CONNECTION WITH ALL REQUIRED TRANSFORMERS, WIRING, CONDUIT ETC TO SERVE ALL PACKAGED PLANT COMPONENTS - EACH MODULE.</p> <p>5. FLUID COOLER AND SUPPORT STRUCTURE TO BE DESIGNED, PROVIDED, AND INSTALLED BY THE MCP MANUFACTURER'S FIELD PERSONNEL.</p> <p>6. SEE SPECIFICATIONS FOR BAS CONTROLS AND INTERFACE.</p> <p>7. MINIMUM QTY (10) GFI OUTLETS SPACED THROUGHOUT THE PACKAGED PLANT.</p> <p>8. REFRIGERANT LEAK DETECTION SYSTEM WITH VENTILATION FAN AND DAMPER, AUDIBLE ALARMS AND STROBES.</p> <p>9. EXTERIOR EMERGENCY SHUTDOWN SWITCHES FOR BOILER SYSTEMS.</p> <p>10. EMERGENCY EYEWASH/SHOWER STATION AND CHEMICAL WATER TREATMENT AREA.</p> <p>11. PROVIDE FIRST YEAR CHEMICAL WATER TREATMENT EQUIPMENT, CHEMICALS AND SERVICE FOR OPEN LOOP COOLING TOWERS.</p> <p>12. EMERGENCY LIGHTS AND EXIT SIGNS AT EACH MAIN ENTRY DOOR.</p> <p>13. ALL ACCESS DOORS TO BE PROVIDED WITH KEYED LOCKING HARDWARE.</p> <p>14. PROVIDE EMERGENCY PANIC HARDWARE AT ALL DOORS TO ALLOW FOR EXIT WHEN DOOR IS LOCKED FROM OUTSIDE.</p> <p>15. LABEL ALL ELECTRICAL, CONTROLS AND EQUIPMENT COMPONENTS WITH PERMANENT BLUE MECHANICALLY FASTENED PHENOLIC COATED NAMEPLATES.</p> <p>16. PROVIDE ALL STAINLESS STEEL BOILER VENT MATERIAL REQUIRED TO COMPLETE INSTALLATION - MOUNTED BY FACTORY.</p> <p>17. FACTORY TEST ALL ELECTRICAL, CONTROLS AND PIPING SYSTEMS PRIOR TO SHIPMENT.</p> <p>18. PROVIDE INTERNAL LED LIGHTING FIXTURES.</p> <p>19. PROVIDE FACTORY INSTALLED HEATING AND COOLING SYSTEMS TO CONDITION THE PACKAGED PLANT AND ELECTRICAL ROOMS.</p> <p>20. PROVIDE MINIMUM 18"x18" STAINLESS STEEL FLOOR SINKS AND DRAINS WITH WALK-ON SAFETY GRATING AT ALL PUMPS, BOILERS, EMERGENCY EYEWASH LOCATIONS AND IN ANY OTHER AREA WHERE SPILLS MAY OCCUR.</p> <p>21. ROUTE ALL AIR VENT AND PRESSURE RELIEF VALVE BLEED CONNECTIONS TO FLOOR DRAINS.</p> <p>22. PROVIDE ALL PIPING SECTIONS WITH HIGH POINT TAPS WITH MANUAL VENTING BALL VALVES WITH HOSE END CAP.</p> <p>23. PROVIDE WATER TREATMENT SYSTEMS.</p> <p>24. PROVIDE MAKEUP WATER METERS FOR CS AND FLUID COOLER SYSTEMS.</p> <p>25. PROVIDE CORROSION COUPON RACKS FOR EACH SYSTEM.</p> <p>26. PROVIDE CHEMICAL FILTER FEEDER - POT FEEDERS ON EACH CLOSED LOOP.</p> <p>27. PROVIDE MAKEUP WATER BACKFLOW PREVENTERS, PRV'S STRAINERS AND BYPASS QUICK FILL LINES FOR EACH SYSTEM.</p> <p>28. ALL COMPONENT WIRING MUST BE ROUTED IN CONDUIT AND RACEWAYS.</p> <p>29. PROVIDE MINIMUM 4" WALLS, FLOOR AND CEILING CONSTRUCTION.</p> <p>30. PROVIDE 12 GA GALVANIZED TREADPLATE INTERNAL FLOORS.</p> <p>31. ALL THE MODULE RIGGING, ASSEMBLY AND FLASHING OF MODULES, AND ALL INTERNAL PIPING, WIRING, AND INSULATING WILL BE DONE BY THE FACTORY ON SITE.</p> <p>32. PROVIDE 2-YEAR PARTS AND LABOR WARRANTY FROM STARTUP FOR ENTIRE CENTRAL PLANT.</p> <p>33. PROVIDE 2-YEAR MAINTENANCE AGREEMENT BY THE FACTORY FOR ENTIRE CENTRAL PLANT.</p>												

AIR SEPARATOR SCHEDULE

MARK	MANUFACTURER MODEL	TYPE	SERVICE	GPM	CONNECTION SIZE (IN)	MAX PD (FT)	SIZE (IN)		WEIGHT (LBS)	REMARKS
							DIA	HEIGHT		
AS 1	SPIROTHERM VHR1600FA	AIR ELIMINATOR	CONDENSER WATER	5500	16	10	32	106	1740	1, 2
<p>1. PROVIDE ISOLATION VALVES.</p> <p>2. PROVIDE SUPPORTS.</p>										

FLUID COOLER SCHEDULE

MARK	MANUFACTURER MODEL	TYPE	GPM	EAT (WB)	EWT (°F)	LWT (°F)	FANS		ELECTRICAL		OPERATING WEIGHT (LBS)	MAX DIM (LXWXH) (FT)	REMARKS
							NO.	CFM (TOTAL)	HP	V/PH/Hz			
FC 1	EVAPCO ECO-ATWB 20-3N36-Z	CLOSED CIRCUIT	2200	80	95	85	4	453,189	160	460/3/60	131,520	21'X37'X17'	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
FC 2	EVAPCO ECO-ATWB 20-3N36-Z	CLOSED CIRCUIT	2200	80	95	85	4	453,189	160	460/3/60	131,520	21'X37'X17'	1, 2, 3, 4, 5, 6, 7, 8, 9, 10
<p>1. PROVIDE 5 PROBE ELECTRIC WATER LEVEL CONTROL.</p> <p>2. PROVIDE LOW SOUND FAN AND WATER SILENCERS.</p> <p>3. PROVIDE ACCESS LADDER WITH SAFETY CAGE, PLATFORM, AND HANDRAIL.</p> <p>4. PROVIDE VIBRATION CUT-OUT SWITCH.</p> <p>5. PROVIDE HIGH EFFICIENCY INVERTER DUTY MOTOR AND VFD.</p> <p>6. SINGLE INLET CONNECTION.</p> <p>7. PROVIDE 2-18KW HEATERS PER CELL WITH UNIT MOUNTED DISCONNECT AND TRANSFORMER.</p> <p>8. PROVIDE STAINLESS STEEL WATER TOUCH CONSTRUCTION.</p> <p>9. PROVIDE EACH CELL WITH ITS OWN MOTOR DAVIT (LESS WINCH).</p> <p>10. PROVIDE PREMIUM EFFICIENT MOTOR.</p>													

BOILER SCHEDULE

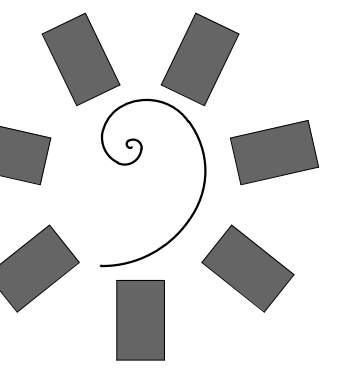
MARK	MANUFACTURER MODEL	SYSTEM	INPUT (MBH)	OUTPUT (MBH)	GPM	EWT (°F)	LWT (°F)	EFF (%)	WATER CONNECTION SIZE	GAS CONNECTION SIZE	TURN DOWN	AIR INLET SIZE	AIR OUTLET SIZE	ELECTRICAL			OPERATING WEIGHT (LBS)	REMARKS
														FLA	MOCP	V/PH/Hz		
B 1	CAMUS DR(H)2000	HEATING	2000	1896	133	100	140	95	3"	1-1/4"	5/1	12"	8"	-	-	480/3/60	1200	1, 2, 3, 4, 5
B 2	CAMUS DR(H)2000	HEATING	2000	1896	133	100	140	95	3"	1-1/4"	5/1	12"	8"	-	-	480/3/60	1200	1, 2, 3, 4, 5
B 3	CAMUS DR(H)2000	HEATING	2000	1896	133	140	140	95	3"	1-1/4"	5/1	12"	8"	-	-	480/3/60	1200	1, 2, 3, 4, 5
<p>1. MOUNT BOILERS ON A 4" HOUSEKEEPING PAD TO ACCOMMODATE THE CONDENSATE NEUTRALIZATION KIT.</p> <p>2. PROVIDE ELECTRONIC LOW WATER CUT OFF WITH MANUAL RESET.</p> <p>3. PROVIDE COMMUNICATION INTERFACE TO EMS.</p> <p>4. NEUTRALIZATION KIT FOR CONDENSATE.</p> <p>5. ROUTE DRAINS TO CONDENSATE NEUTRALIZATION KIT.</p>																		

EXPANSION TANK SCHEDULE

MARK	MANUFACTURER MODEL	TYPE	SERVICE	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	SIZE (IN)		ASME RATED PRESSURE (PSI)	SYSTEM TEMP (°F)		SYSTEM PRESSURE @ TANK MIN (PSI)	OPERATING WEIGHT (LBS)	REMARKS
						DIA	HT/LEN		MIN.	MAX.			
ET 1	-	BLADDER	CONDENSER WATER	-	-	-	-	150	80	100	65	-	1, 2
<p>1. FINAL SYSTEM PRESSURE TO BE DETERMINED IN THE FIELD BY THE AIR/WATER BALANCE CONTRACTOR. ADJUST TO PROVIDE 10 PSI AT THE TOP OF THE SYSTEM UNDER STATIC CONDITIONS.</p> <p>2. INSULATE TANK TO MIN. R-15 VALUE.</p>													

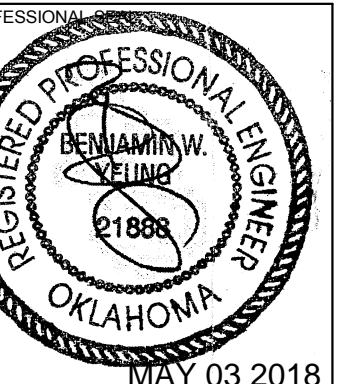
HYDRONIC PUMP SCHEDULE

MARK	GENERAL DATA				GPM	HEAD (FT)	EFF (%)	NPSHR (FT)	IMPELLER SIZE (IN)	MOTOR				OPERATING WEIGHT (LBS)	REMARKS
	MANUFACTURER MODEL	LOCATION	TYPE	SERVICE						BHP	HP	RPM	V/PH/Hz		
CWP 1	ARMSTRONG SERIES 4300	MCP	VERTICAL INLINE	CONDENSER WATER	2200	100	78	17.6	11.7	-	100	-	460/3/60	2300	1, 2, 3, 4, 5, 6
CWP 2	ARMSTRONG SERIES 4300	MCP	VERTICAL INLINE	CONDENSER WATER	2200	100	78	17.6	11.7	-	100	-	460/3/60	2300	1, 2, 3, 4, 5, 6
BP 1	ARMSTRONG SERIES 4380	MCP	INLINE	BOILER	133	25	74	8.0	5.9	-	2	-	460/3/60	200	1, 2, 3, 4, 5, 6
BP 2	ARMSTRONG SERIES 4380	MCP	INLINE	BOILER	133	25	74	8.0	5.9	-	2	-	460/3/60	200	1, 2, 3, 4, 5, 6
BP 3	ARMSTRONG SERIES 4380	MCP	INLINE	BOILER	133	25	74	8.0	5.9	-	2	-	460/3/60	200	1, 2, 3, 4, 5, 6
HWP 1	ARMSTRONG SERIES 4300	MCP	VERTICAL INLINE	HOT WATER	200	80	67	11.8	5.3	-	10	-	460/3/60	300	1, 2, 3, 4, 5, 6
HWP 2	ARMSTRONG SERIES 4300	MCP	VERTICAL INLINE	HOT WATER	200	80	67	11.8	5.3	-	10	-	460/3/60	300	1, 2, 3, 4, 5, 6
<p>1. PROVIDE VFD.</p> <p>2. MOTOR SHALL BE NON-OVERLOADING.</p> <p>3. PROVIDE SUCTION INLET GUIDE.</p> <p>4. PROVIDE OUTSIDE BALANCED SEALS.</p> <p>5. PUMP RATED FOR 150 PSI DUTY.</p> <p>6. PROVIDE PREMIUM EFFICIENT MOTOR.</p>															

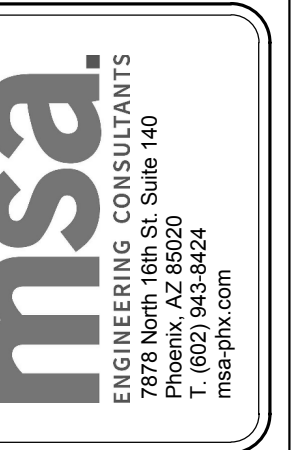


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CONSULTANT LOGO:



CLIENT:



CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:

BID PACKAGE 05

REVISIONS	
#	DESCRIPTION

DATE: 05/03/18 JOB NUMBER: 17-06

SHEET NUMBER: M0.3

MECHANICAL SCHEDULES

AHU-4 TERMINAL BOX SCHEDULE

Table with 17 columns: MARK, MANUFACTURER MODEL, AIR FLOW (CFM) MAX., COOLING MIN., HEATING MIN., INLET DIA (IN), VAV AIR PRESSURE DROP (IN WG), NC RATING @ 1" SP DISCHARGE, RADIATED, MBH, GPM, REHEAT COIL (HEATING WATER) EAT (°F), LAT (°F), EWT (°F), LWT (°F), PD (FT), ROWS, OPERATING WEIGHT (LBS), REMARKS. Contains 12 rows of data for AHU-4.

1. WITH HANGER BRACKETS. 2. INSULATION LINER TO BE STERIOLOC. 3. CONTROLS AND ACTUATOR BY BAS CONTRACTOR. 4. MINIMUM 3 DUCT DIAMETERS OF STRAIGHT RIGID DUCT ON INLET. 5. DUCT TO INLET - MIN ONE (EVEN) DUCT SIZE LARGER THAN LISTED INLET. IF OVER 15 FOOT RUN OR MORE THAN TWO 90° ELBOWS-MIN. TWO DUCT SIZES LARGER. 6. UNITS WITH HEATING WATER COIL, HAYS MESURFLO AUTOMATIC Y-BALL FLOW CONTROL VALVE (2-80 PSID RANGE) WITH PT PORTS, HOSE KIEIT WITH MINIMUM 24" SS LINES, ISOLATION BALL VALVES (LEVER HANDLE), BANDED AND LABELED FOR CORRESPONDING VAV BOX. 7. PIPE SIZES TO COILS: LESS THAN 3.1 GPM=3/4", LESS THAN 6.1 GPM=1", LESS THAN 11.1 GPM=1.25", LESS THAN 18.1 GPM=1.5". 8. MINIMUM INLET SP: 1". 9. MINIMUM DOWNSTREAM SP: 0.25".

AHU-1 TERMINAL BOX SCHEDULE

Table with 17 columns: MARK, MANUFACTURER MODEL, AIR FLOW (CFM) MAX., COOLING MIN., HEATING MIN., INLET DIA (IN), VAV AIR PRESSURE DROP (IN WG), NC RATING @ 1" SP DISCHARGE, RADIATED, MBH, GPM, REHEAT COIL (HEATING WATER) EAT (°F), LAT (°F), EWT (°F), LWT (°F), PD (FT), ROWS, OPERATING WEIGHT (LBS), REMARKS. Contains 7 rows of data for AHU-1.

1. WITH HANGER BRACKETS. 2. INSULATION LINER TO BE STERIOLOC. 3. CONTROLS AND ACTUATOR BY BAS CONTRACTOR. 4. MINIMUM 3 DUCT DIAMETERS OF STRAIGHT RIGID DUCT ON INLET. 5. DUCT TO INLET - MIN ONE (EVEN) DUCT SIZE LARGER THAN LISTED INLET. IF OVER 15 FOOT RUN OR MORE THAN TWO 90° ELBOWS-MIN. TWO DUCT SIZES LARGER. 6. UNITS WITH HEATING WATER COIL, HAYS MESURFLO AUTOMATIC Y-BALL FLOW CONTROL VALVE (2-80 PSID RANGE) WITH PT PORTS, HOSE KIEIT WITH MINIMUM 24" SS LINES, ISOLATION BALL VALVES (LEVER HANDLE), BANDED AND LABELED FOR CORRESPONDING VAV BOX. 7. PIPE SIZES TO COILS: LESS THAN 3.1 GPM=3/4", LESS THAN 6.1 GPM=1", LESS THAN 11.1 GPM=1.25", LESS THAN 18.1 GPM=1.5". 8. MINIMUM INLET SP: 1". 9. MINIMUM DOWNSTREAM SP: 0.25".

AHU-9 TERMINAL BOX SCHEDULE

Table with 17 columns: MARK, MANUFACTURER MODEL, AIR FLOW (CFM) MAX., COOLING MIN., HEATING MIN., INLET DIA (IN), VAV AIR PRESSURE DROP (IN WG), NC RATING @ 1" SP DISCHARGE, RADIATED, MBH, GPM, REHEAT COIL (HEATING WATER) EAT (°F), LAT (°F), EWT (°F), LWT (°F), PD (FT), ROWS, OPERATING WEIGHT (LBS), REMARKS. Contains 12 rows of data for AHU-9.

1. WITH HANGER BRACKETS. 2. INSULATION LINER TO BE STERIOLOC. 3. CONTROLS AND ACTUATOR BY BAS CONTRACTOR. 4. MINIMUM 3 DUCT DIAMETERS OF STRAIGHT RIGID DUCT ON INLET. 5. DUCT TO INLET - MIN ONE (EVEN) DUCT SIZE LARGER THAN LISTED INLET. IF OVER 15 FOOT RUN OR MORE THAN TWO 90° ELBOWS-MIN. TWO DUCT SIZES LARGER. 6. UNITS WITH HEATING WATER COIL, HAYS MESURFLO AUTOMATIC Y-BALL FLOW CONTROL VALVE (2-80 PSID RANGE) WITH PT PORTS, HOSE KIEIT WITH MINIMUM 24" SS LINES, ISOLATION BALL VALVES (LEVER HANDLE), BANDED AND LABELED FOR CORRESPONDING VAV BOX. 7. PIPE SIZES TO COILS: LESS THAN 3.1 GPM=3/4", LESS THAN 6.1 GPM=1", LESS THAN 11.1 GPM=1.25", LESS THAN 18.1 GPM=1.5". 8. MINIMUM INLET SP: 1". 9. MINIMUM DOWNSTREAM SP: 0.25".

AHU-5 TERMINAL BOX SCHEDULE

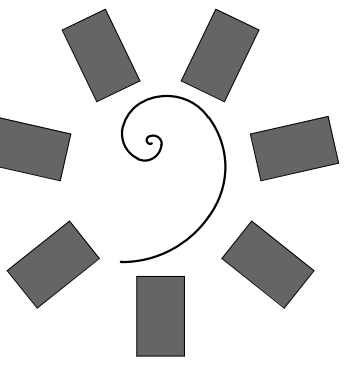
Table with 17 columns: MARK, MANUFACTURER MODEL, AIR FLOW (CFM) MAX., COOLING MIN., HEATING MIN., INLET DIA (IN), VAV AIR PRESSURE DROP (IN WG), NC RATING @ 1" SP DISCHARGE, RADIATED, MBH, GPM, REHEAT COIL (HEATING WATER) EAT (°F), LAT (°F), EWT (°F), LWT (°F), PD (FT), ROWS, OPERATING WEIGHT (LBS), REMARKS. Contains 12 rows of data for AHU-5.

1. WITH HANGER BRACKETS. 2. INSULATION LINER TO BE STERIOLOC. 3. CONTROLS AND ACTUATOR BY BAS CONTRACTOR. 4. MINIMUM 3 DUCT DIAMETERS OF STRAIGHT RIGID DUCT ON INLET. 5. DUCT TO INLET - MIN ONE (EVEN) DUCT SIZE LARGER THAN LISTED INLET. IF OVER 15 FOOT RUN OR MORE THAN TWO 90° ELBOWS-MIN. TWO DUCT SIZES LARGER. 6. UNITS WITH HEATING WATER COIL, HAYS MESURFLO AUTOMATIC Y-BALL FLOW CONTROL VALVE (2-80 PSID RANGE) WITH PT PORTS, HOSE KIEIT WITH MINIMUM 24" SS LINES, ISOLATION BALL VALVES (LEVER HANDLE), BANDED AND LABELED FOR CORRESPONDING VAV BOX. 7. PIPE SIZES TO COILS: LESS THAN 3.1 GPM=3/4", LESS THAN 6.1 GPM=1", LESS THAN 11.1 GPM=1.25", LESS THAN 18.1 GPM=1.5". 8. MINIMUM INLET SP: 1". 9. MINIMUM DOWNSTREAM SP: 0.25".

AHU-10 TERMINAL BOX SCHEDULE

Table with 17 columns: MARK, MANUFACTURER MODEL, AIR FLOW (CFM) MAX., COOLING MIN., HEATING MIN., INLET DIA (IN), VAV AIR PRESSURE DROP (IN WG), NC RATING @ 1" SP DISCHARGE, RADIATED, MBH, GPM, REHEAT COIL (HEATING WATER) EAT (°F), LAT (°F), EWT (°F), LWT (°F), PD (FT), ROWS, OPERATING WEIGHT (LBS), REMARKS. Contains 9 rows of data for AHU-10.

1. WITH HANGER BRACKETS. 2. INSULATION LINER TO BE STERIOLOC. 3. CONTROLS AND ACTUATOR BY BAS CONTRACTOR. 4. MINIMUM 3 DUCT DIAMETERS OF STRAIGHT RIGID DUCT ON INLET. 5. DUCT TO INLET - MIN ONE (EVEN) DUCT SIZE LARGER THAN LISTED INLET. IF OVER 15 FOOT RUN OR MORE THAN TWO 90° ELBOWS-MIN. TWO DUCT SIZES LARGER. 6. UNITS WITH HEATING WATER COIL, HAYS MESURFLO AUTOMATIC Y-BALL FLOW CONTROL VALVE (2-80 PSID RANGE) WITH PT PORTS, HOSE KIEIT WITH MINIMUM 24" SS LINES, ISOLATION BALL VALVES (LEVER HANDLE), BANDED AND LABELED FOR CORRESPONDING VAV BOX. 7. PIPE SIZES TO COILS: LESS THAN 3.1 GPM=3/4", LESS THAN 6.1 GPM=1", LESS THAN 11.1 GPM=1.25", LESS THAN 18.1 GPM=1.5". 8. MINIMUM INLET SP: 1". 9. MINIMUM DOWNSTREAM SP: 0.25".



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CONSULTANT LOGO



CLIENT: CHEROKEE NATION Entertainment



CHEROKEE NATION ENTERTAINMENT TAHLEQUAH CASINO TAHLEQUAH, OKLAHOMA

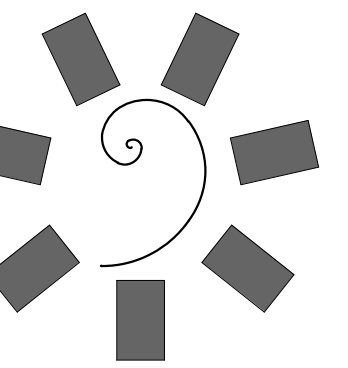
PROJECT PHASE: BID PACKAGE 05

Table with 2 columns: #, DATE, REVISIONS, DESCRIPTION.

DATE: 05/03/18 JOB NUMBER: 17-06

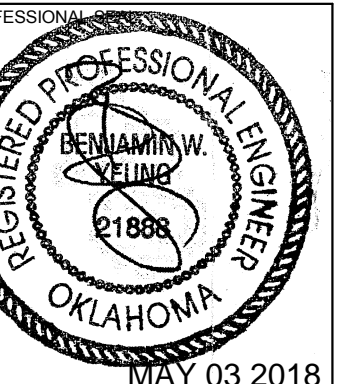
SHEET NUMBER: M0.6

MECHANICAL SCHEDULES



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MAY 03 2018

CONSULTANT LOGO:



CLIENT:
CHEROKEE NATION Entertainment



CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:
BID PACKAGE 05

Table with 2 columns: #, DATE, DESCRIPTION

DATE: 05/03/18 JOB NUMBER: 17-06

SHEET NUMBER: M0.7

MECHANICAL SCHEDULES

MAU-1 TERMINAL BOX SCHEDULE

Table with columns: MARK, MANUFACTURER MODEL, AIR FLOW (CFM), INLET DIA (IN), VAV AIR PRESSURE DROP (IN WG), NC RATING @ 1" SP, REHEAT COIL (HEATING WATER), OPERATING WEIGHT (LBS), REMARKS

1. INLET SIZE SHALL BE AS SCHEDULED UNLESS NOTED OTHERWISE.

EXHAUST FAN SCHEDULE

Table with columns: MARK, GENERAL DATA, FAN, ELECTRICAL, OPERATING WEIGHT (LBS), REMARKS

1. PROVIDE ROOF CURB.
2. PROVIDE MOTOR WITH THERMAL OVERLOADS.
3. PROVIDE DISCONNECT SWITCH.
4. PROVIDE BACKDRAFT DAMPER.

KITCHEN EXHAUST FAN SCHEDULE

Table with columns: MARK, GENERAL DATA, FAN, ELECTRICAL, OPERATING WEIGHT (LBS), REMARKS

1. PROVIDE ROOF CURB.
2. PROVIDE MOTOR WITH THERMAL OVERLOADS.
3. PROVIDE DISCONNECT SWITCH.
4. UL 762 RATING.
5. PROVIDE GREASE TRAP WITH ABSORBENT MATERIAL.

AIR BALANCE SCHEDULE

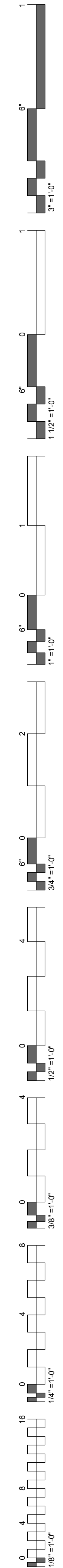
Table with columns: UNIT, KITCHEN, BUILDING, SUPPLY, RETURN, OUTSIDE, EXHAUST

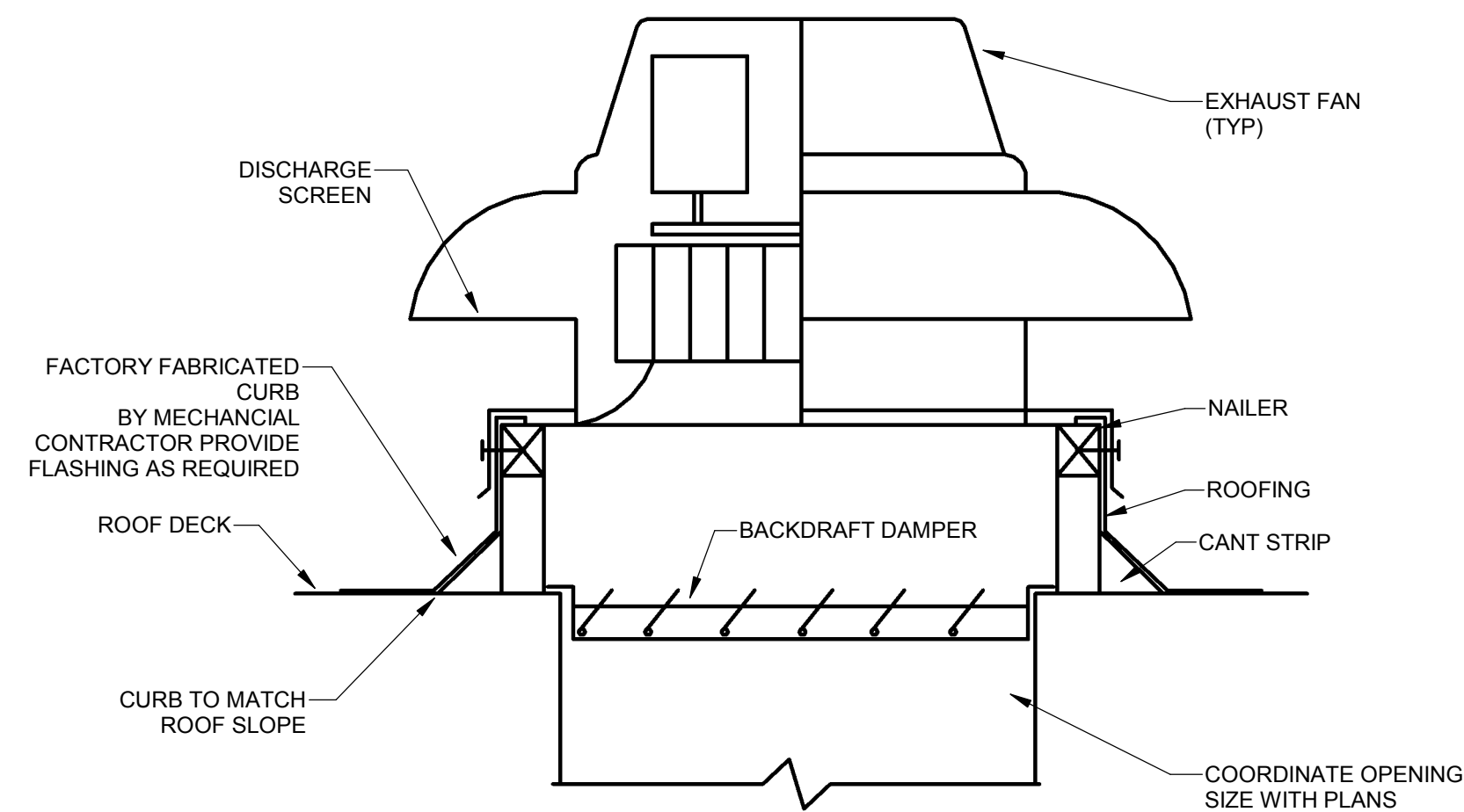
KITCHEN = SA - RA - EA =
BUILDING = SA - RA - EA =

AIR CURTAIN SCHEDULE

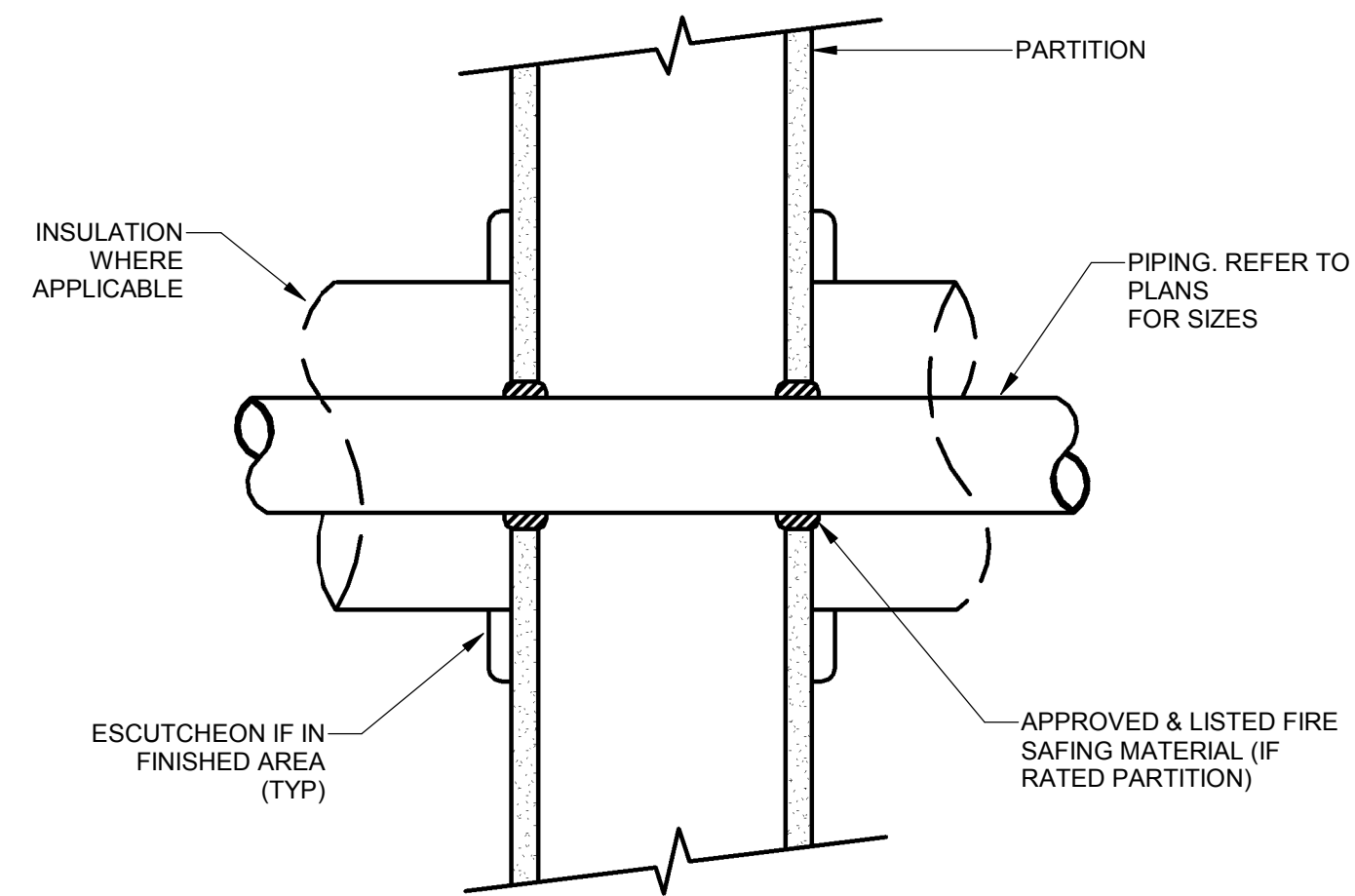
Table with columns: MARK, GENERAL DATA, ELECTRICAL, OPERATING WEIGHT (LBS), REMARKS

1. PROVIDE MICRO SWITCH AND CONTROL PANEL FOR AUTO ON/OFF OPERATION.
2. PROVIDE WALL MOUNTING BRACKETS.

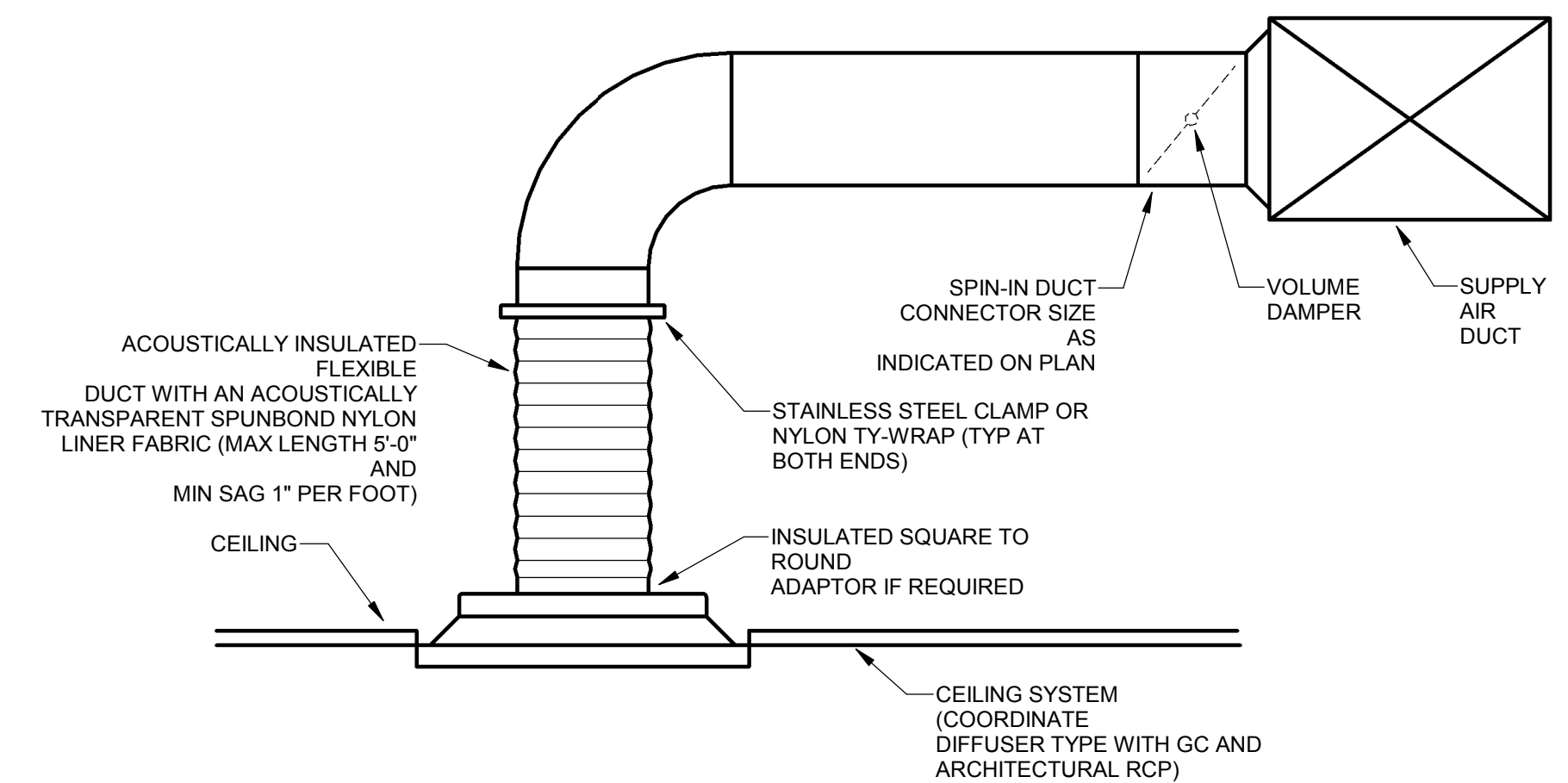




A ROOF EXHAUST FAN
M0.8 NTS

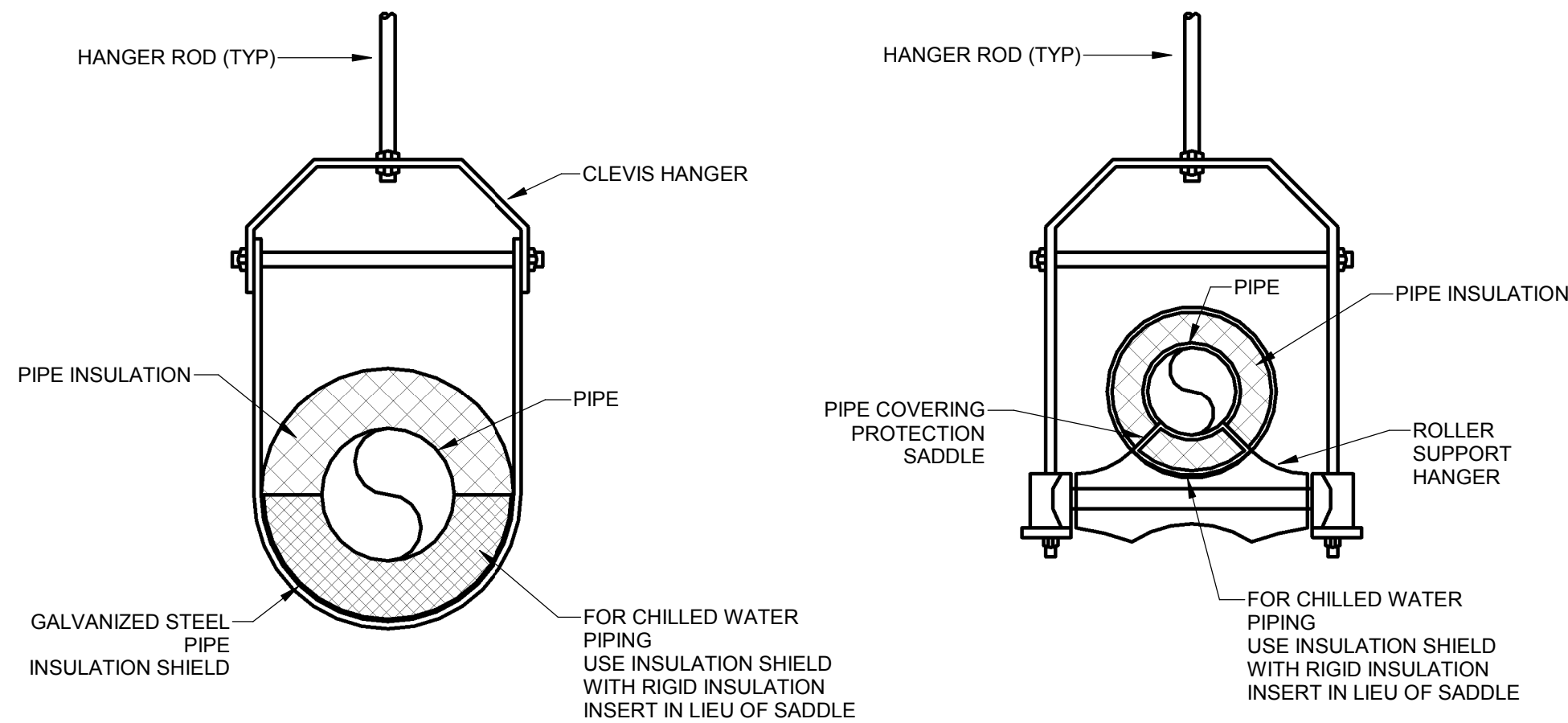


B PIPE THROUGH WALL
M0.8 NTS



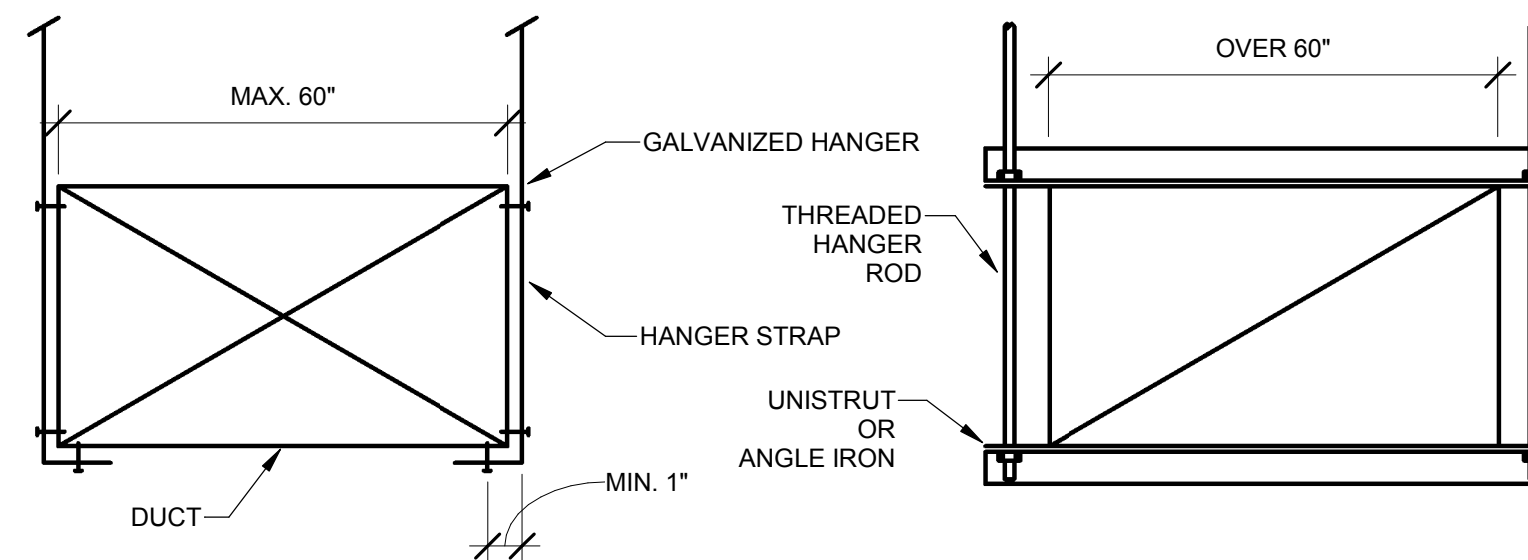
DETAIL NOTES:
1. USE WORM DRIVE CLAMPS OR DRAW BANDS FOR CONNECTING FLEXIBLE AIR DUCT TO DIFFUSER AND BRANCH DUCT. SPLICES IN FLEXIBLE AIR DUCT SHALL NOT BE ALLOWED.

C CEILING DIFFUSER WITH FLEX DUCT
M0.8 NTS



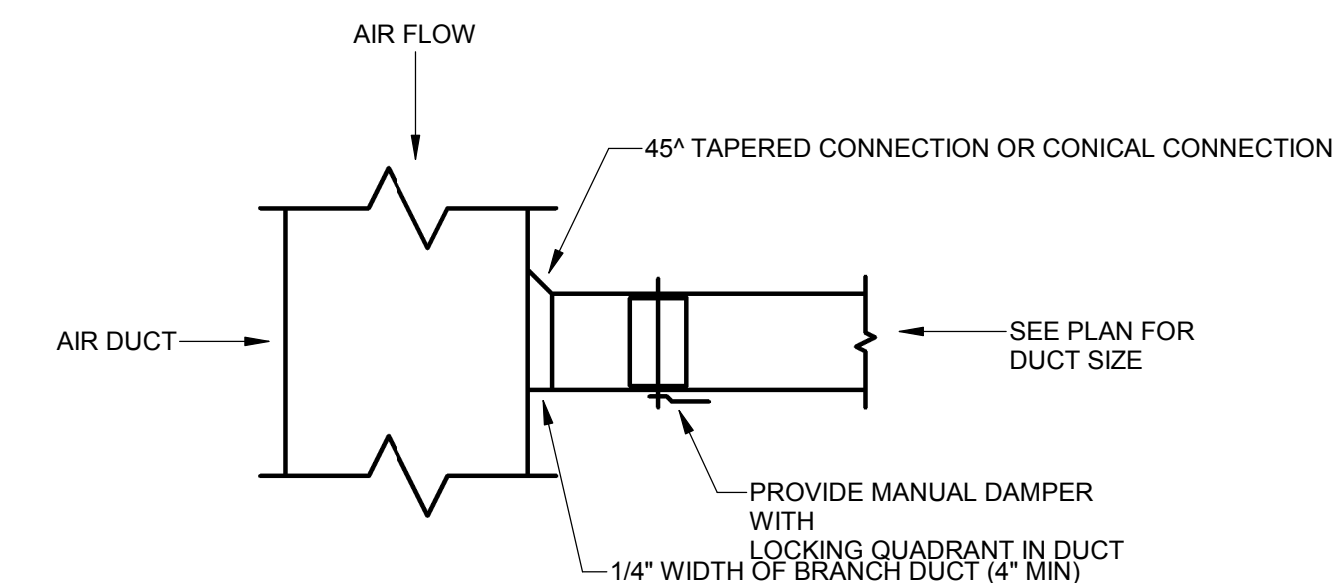
DETAIL NOTES:
1. USE CLEVIS HANGER FOR 1/2" UP TO 4".
2. USE ROLL SUPPORT HANGER FOR 6" TO 8".
3. PIPE 10" AND LARGER SHALL HAVE ROLLER SUPPORT HANGER WITH DUAL RODS.

D PIPE HANGER FOR INSULATED PIPING
M0.8 NTS

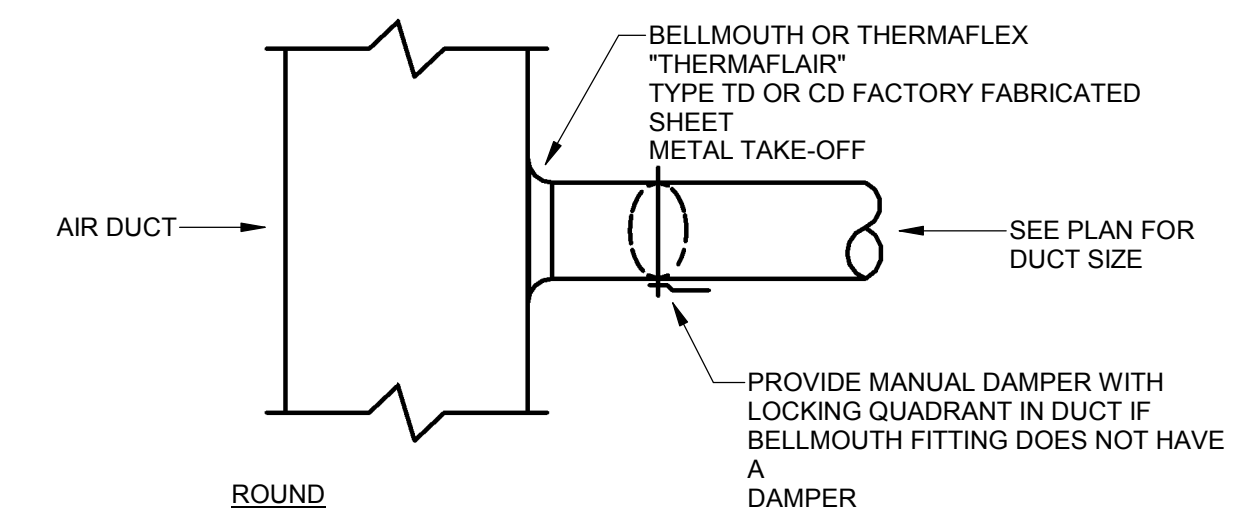


DETAIL NOTES:
1. ON DUCTS OVER 48" WIDE, BOTTOM SHALL BE BRACE BY ANGLE. FOR CROSS SECTION AREA MORE THAN 8 SQUARE FEET, DUCT SHALL BE BRACED BY ANGLES ON ALL FOUR SIDES.
2. SUPPORTS SHALL BE SPACED AND SIZED AS PER SMACNA STANDARDS.

E DUCT HANGER SUPPORT
M0.8 NTS

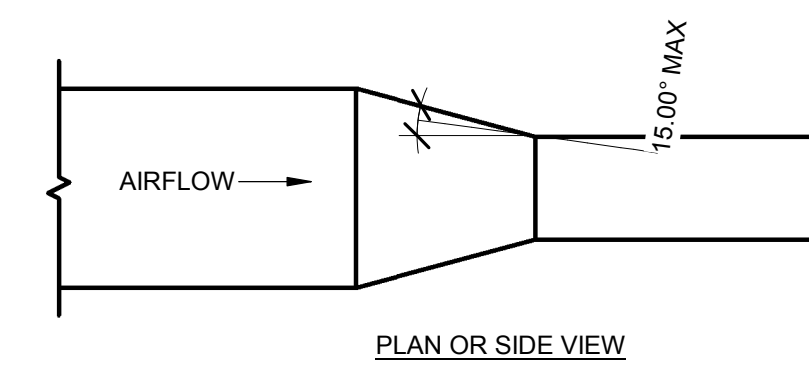


RECTANGULAR

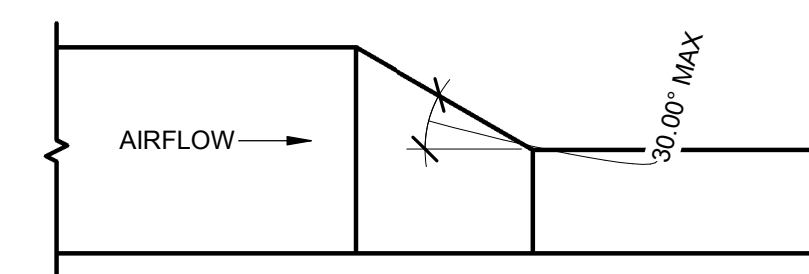


ROUND

F TYPICAL BRANCH DUCT TAKE-OFF
M0.8 NTS

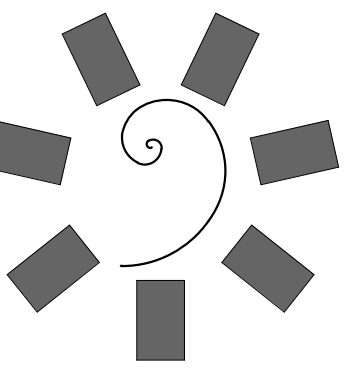


PLAN OR SIDE VIEW



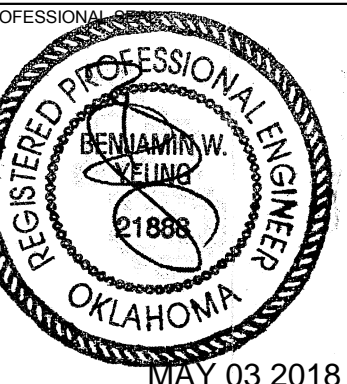
PLAN OR SIDE VIEW

G DUCT TRANSITION
M0.8 NTS



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CONSULTANT LOGO:



CLIENT:



CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:

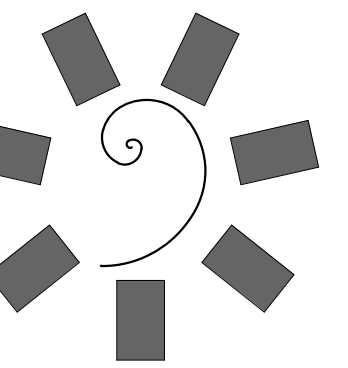
BID PACKAGE 05

REVISIONS	
#	DESCRIPTION

DATE: 05/03/18 JOB NUMBER: 17-06

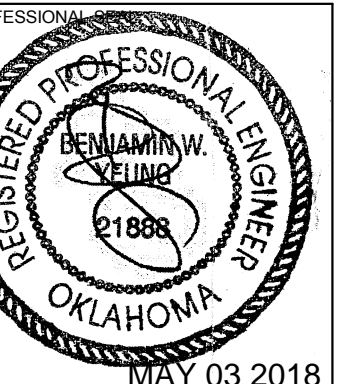
SHEET NUMBER: M0.8

MECHANICAL DIAGRAMS



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TAHLEQUAH, OKLAHOMA

PROJECT PHASE:

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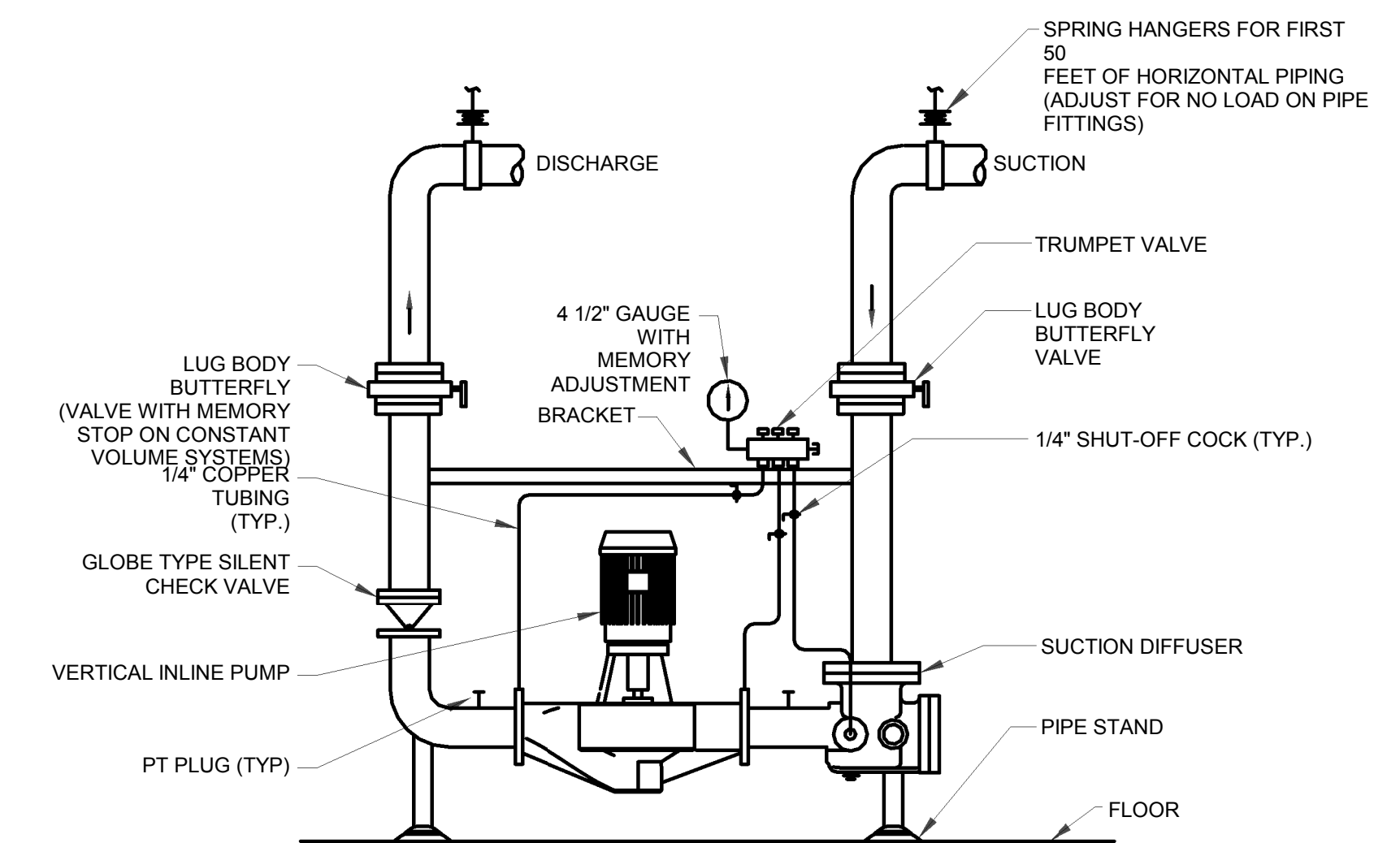
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	DATE	DESCRIPTION

DATE: 05/03/18 JOB NUMBER: 17-06

SHEET NUMBER:

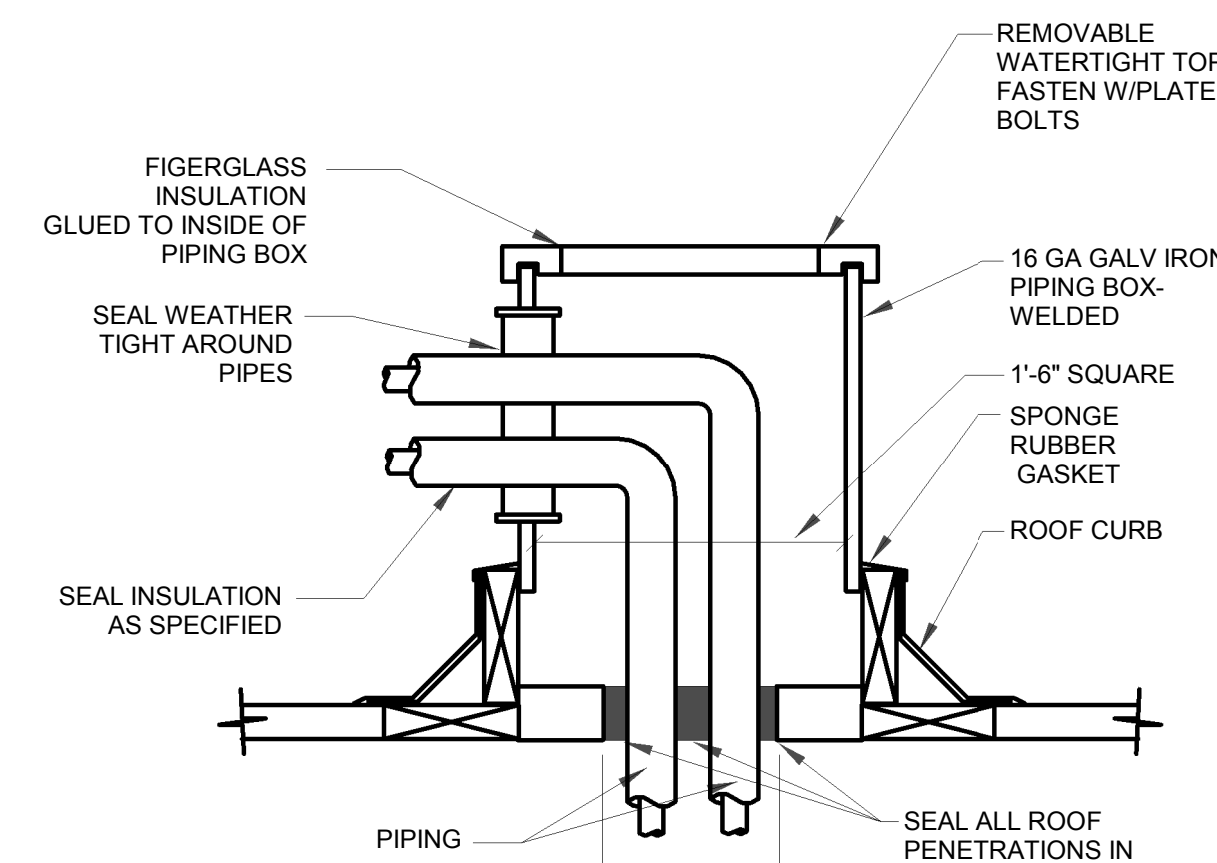
M0.9

MECHANICAL
DIAGRAMS



**VERTICAL INLINE PUMP
(2 1/2" PIPING AND OVER)**

A
M0.7
NTS

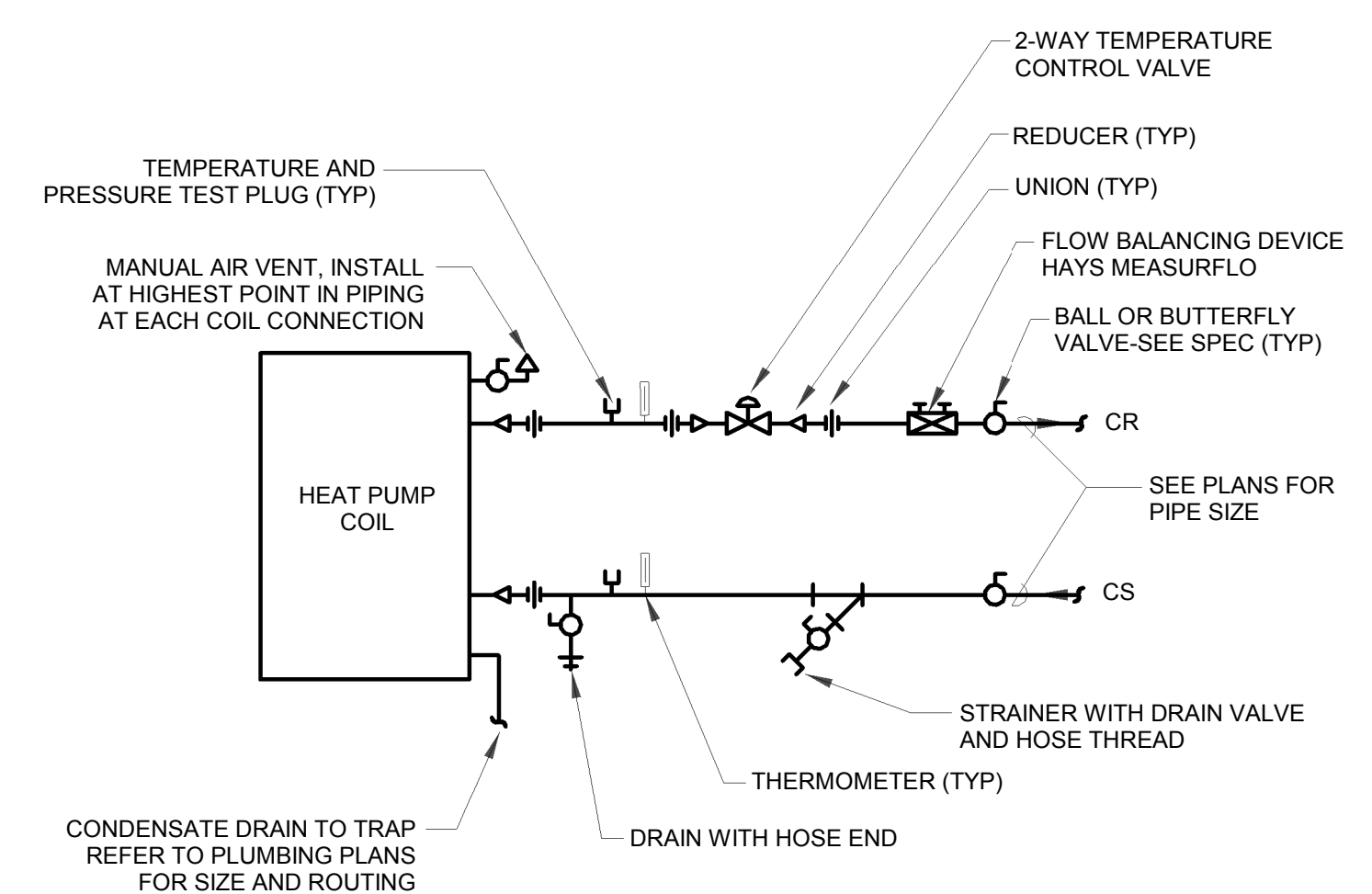


NOTE:

- BOX AND SUPPORT TO BE PAINTED WITH ONE COAT ZINC CHROMATE PRIMER AND TWO COATS BLACK OIL BASE EXT GRADE PAINT
- MOUNT CURB ON BLOCKING SO BOTTOM IS LEVEL W/TOP OF ROOF INSULATION

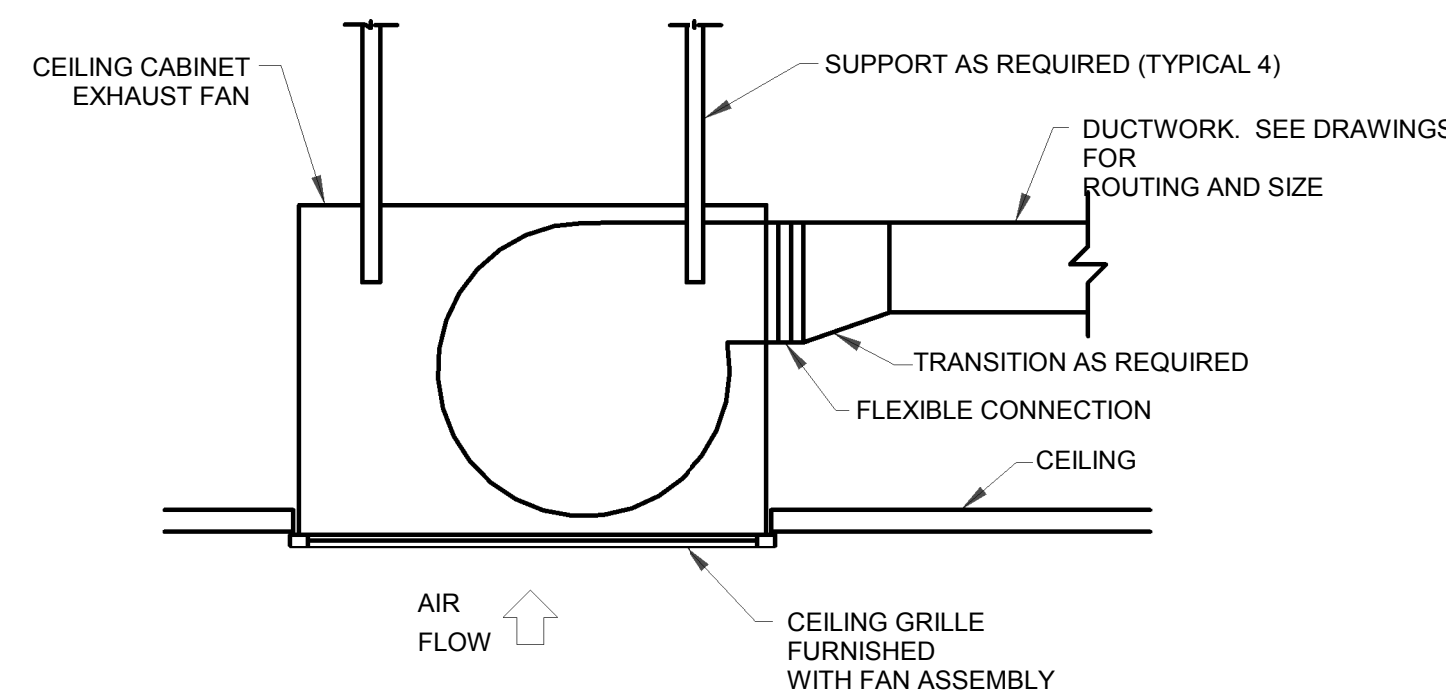
C PIPING DOG HOUSE

C
M0.7
NTS



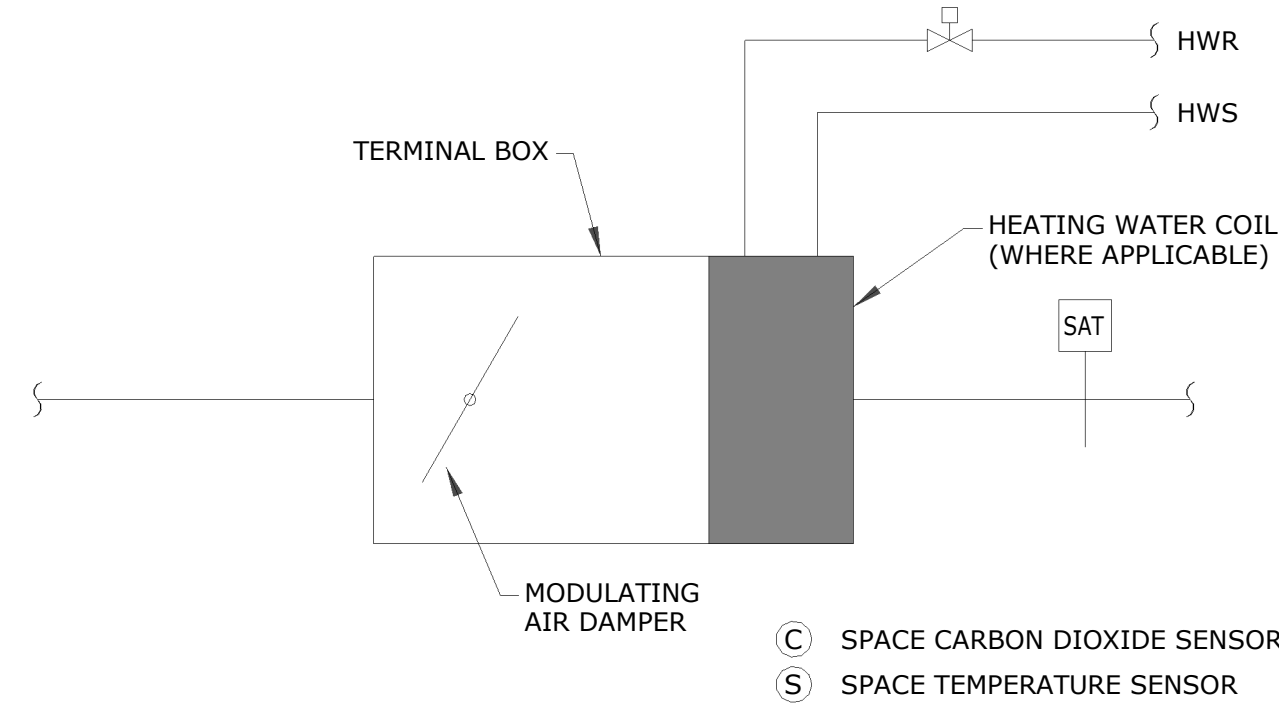
**2-WAY CONDENSER
COIL**

D
M0.7
NTS



B CEILING EXHAUST FAN

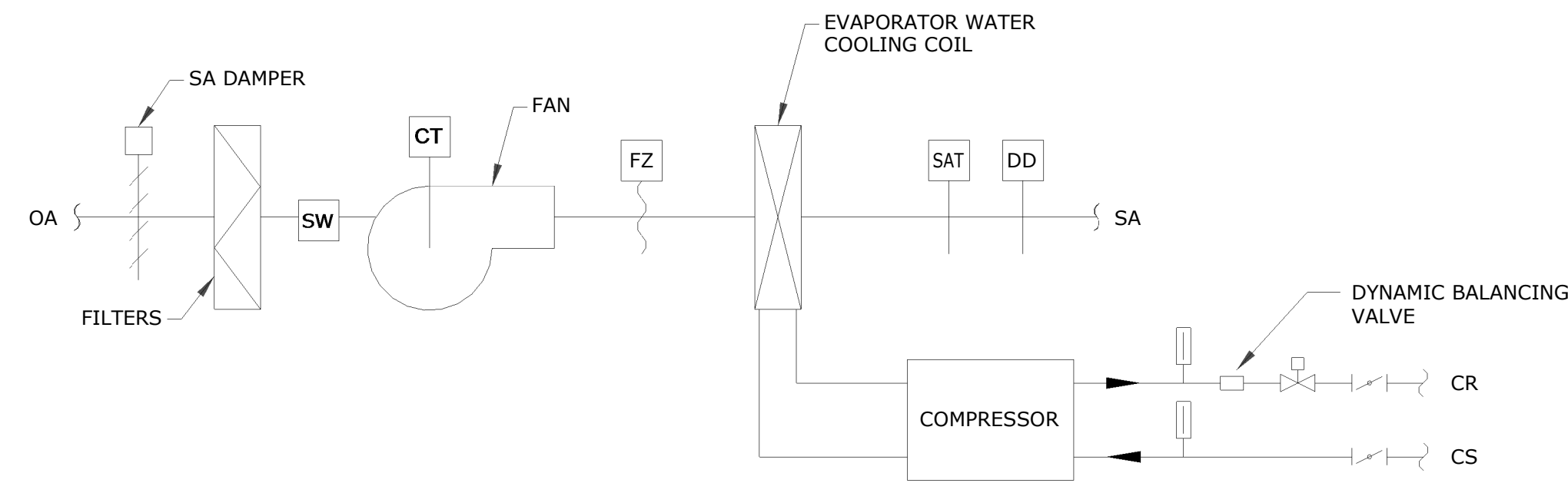
B
M0.7
NTS



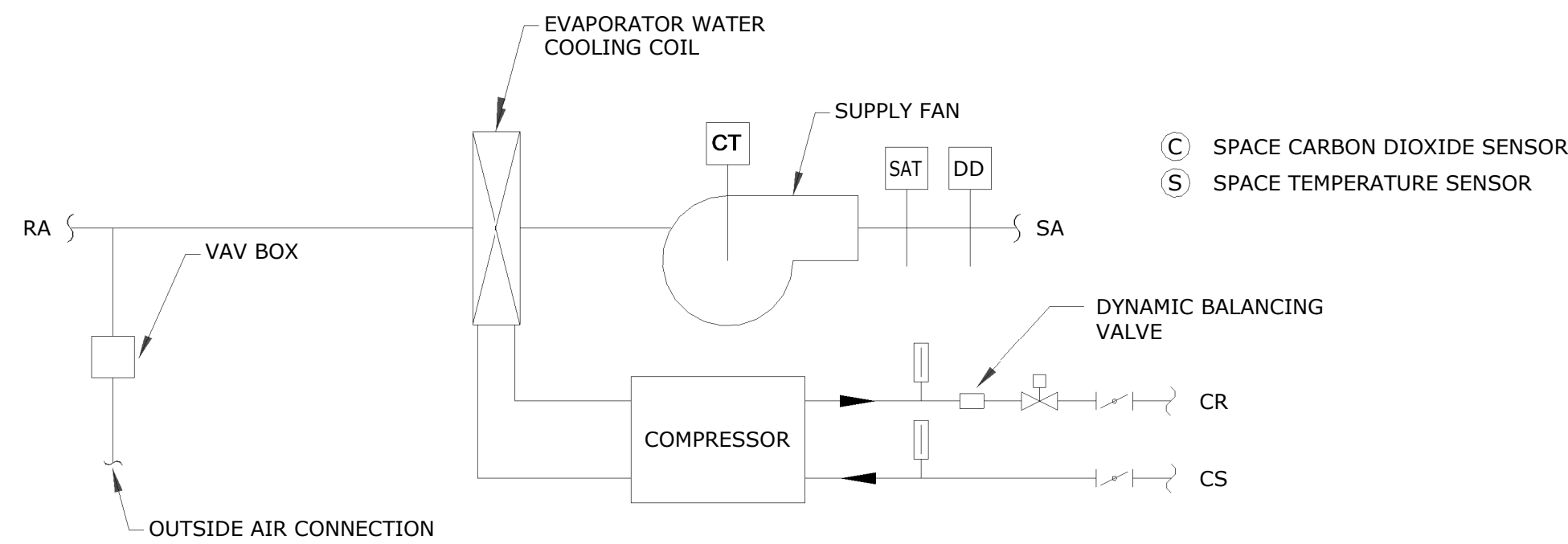
VARIABLE AIR VOLUME TERMINAL BOX CONTROL

NOTES:

- 1. ONLY VAV BOXES WITH A HEATING COIL HAVE A SUPPLY AIR TEMPERATURE SENSOR.



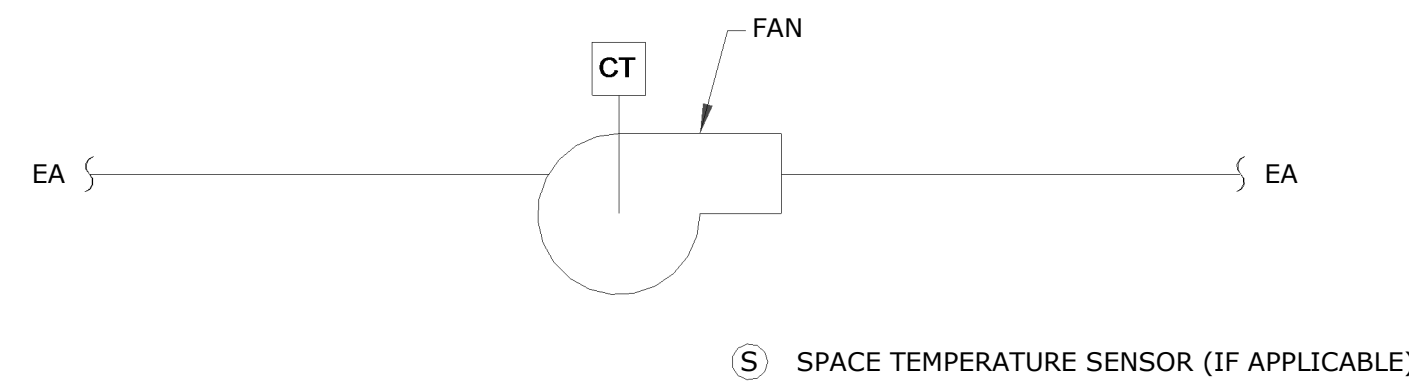
TEMPERED MAKE UP AIR UNIT CONTROL



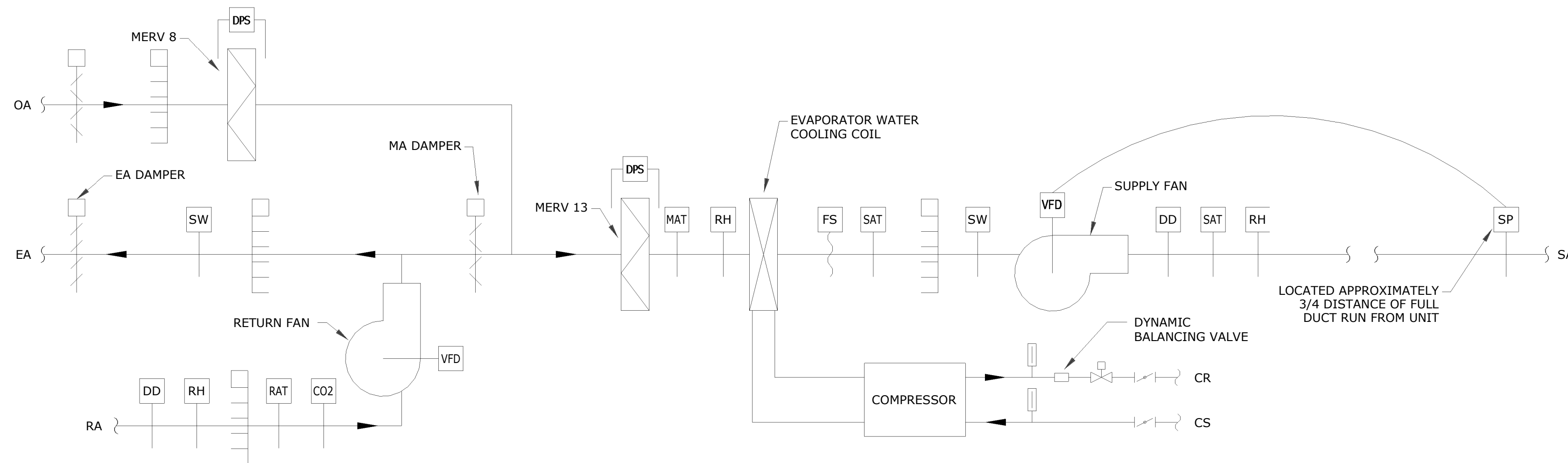
WATER SOURCE HEAT PUMP CONTROL

NOTES:

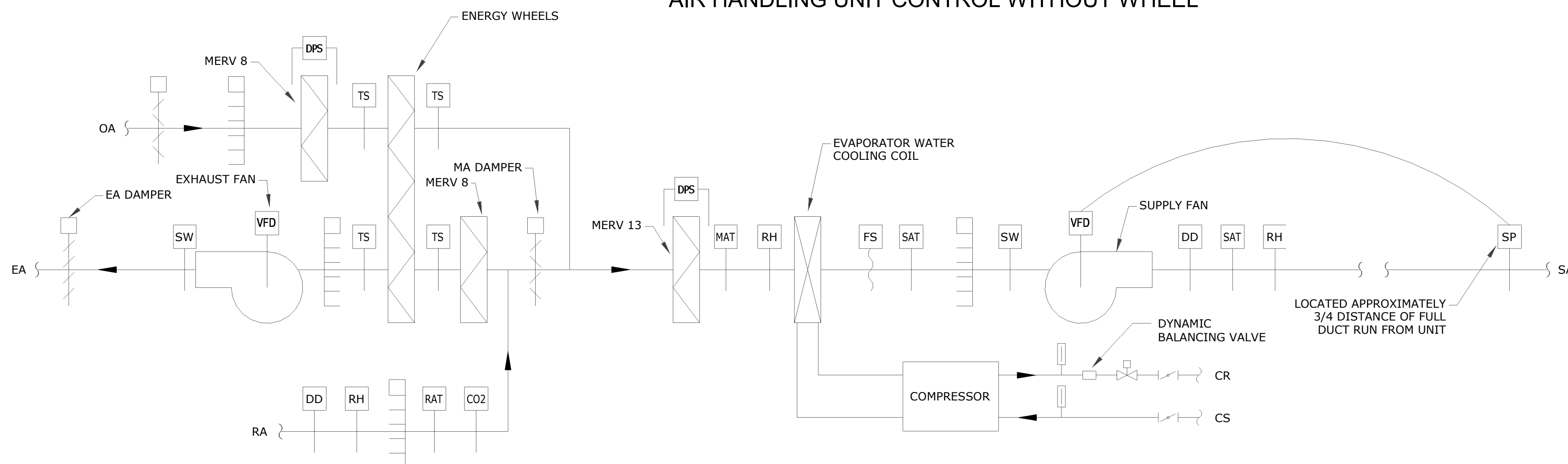
- 1. NOT ALL FCUS WILL HAVE AN OUTSIDE AIR CONNECTION.



TYPICAL EXHAUST FAN CONTROL



AIR HANDLING UNIT CONTROL WITHOUT WHEEL

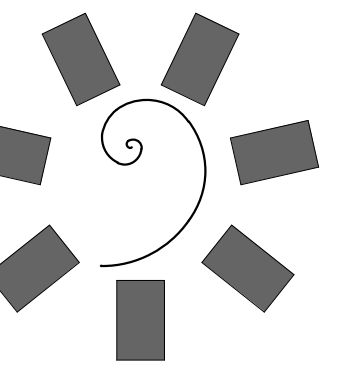


AIR HANDLING UNIT CONTROL WITH WHEEL

CONTROL SYMBOLS AND ABBREVIATIONS

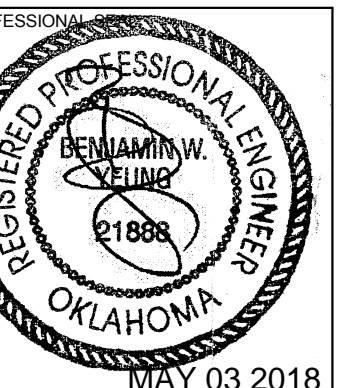
NOTE: THIS IS A MASTER SCHEDULE. NOT ALL SYMBOLS CONTAINED HEREIN MAY APPEAR ON THE DRAWINGS.

CO2	DUCT MOUNTED CARBON DIOXIDE SENSOR
DD	DUCT TYPE SMOKE DETECTOR
EAT	EXHAUST AIR TEMPERATURE SENSOR
FZ	FREEZE STAT
HXT	HEAT EXCHANGER AIR TEMPERATURE SENSOR
LAT	LEAVING AIR TEMPERATURE SENSOR
MAT	MIXED AIR TEMPERATURE SENSOR
OAT	OUTDOOR AIR TEMPERATURE SENSOR
RH	DUCT MOUNTED RELATIVE HUMIDITY SENSOR
RAT	RETURN AIR TEMPERATURE SENSOR
SP	DUCT MOUNTED STATIC PRESSURE SENSOR
SPH	DUCT MOUNTED STATIC PRESSURE HIGH LIMIT
SPL	DUCT MOUNTED STATIC PRESSURE LOW LIMIT
SAT	SUPPLY AIR TEMPERATURE SENSOR
[Symbol]	BACKDRAFT DAMPER
[Symbol]	AUTOMATIC TEMPERATURE CONTROL DAMPER (PARALLEL BLADE TYPE)
[Symbol]	AUTOMATIC TEMPERATURE CONTROL DAMPER (OPPOSED BLADE TYPE)
[Symbol]	AIRFLOW MEASURING STATION
(C)	SPACE MOUNTED CARBON DIOXIDE SENSOR
(H)	SPACE MOUNTED RELATIVE HUMIDITY SENSOR
(S)	SPACE MOUNTED TEMPERATURE SENSOR
(T)	SPACE MOUNTED THERMOSTAT
SP	SPACE MOUNTED STATIC PRESSURE SENSOR
SW	SWITCH
DPS	DIFFERENTIAL PRESSURE SENSOR
CT	CURRENT TRANSDUCER
VFD	VARIABLE FREQUENCY DRIVE
FS	FLOW SWITCH
[Symbol]	PUMP
[Symbol]	PRESSURE GAUGE
[Symbol]	THERMOMETER
[Symbol]	RELIEF VALVE
[Symbol]	3-WAY ELECTRIC CONTROL VALVE, NC BYPASS LEG
[Symbol]	2-WAY ELECTRIC CONTROL VALVE, NC BYPASS LEG
ACD	AUTOMATIC CONTROL DAMPER
EA	EXHAUST AIR
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR



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PROJECT PHASE:

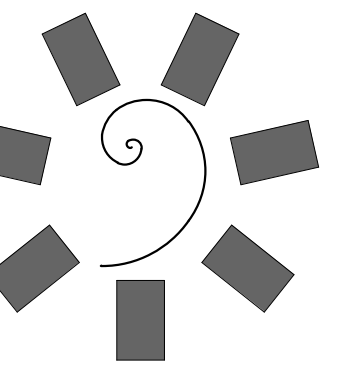
BID PACKAGE 05

#	REVISIONS	
	DATE	DESCRIPTION

DATE: 05/03/18 JOB NUMBER: 17-06

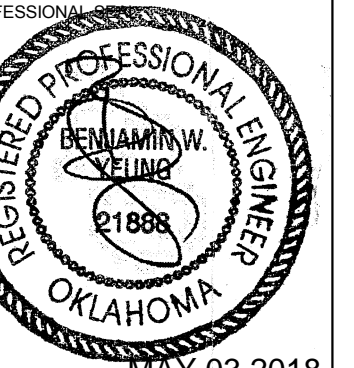
SHEET NUMBER: M0.10

MECHANICAL
CONTROLS
DIAGRAMS



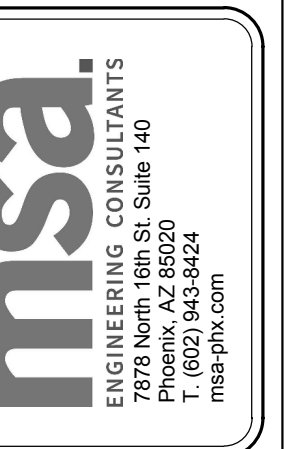
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DATE: 05/03/18 JOB NUMBER: 17-06

SHEET NUMBER: M0.11

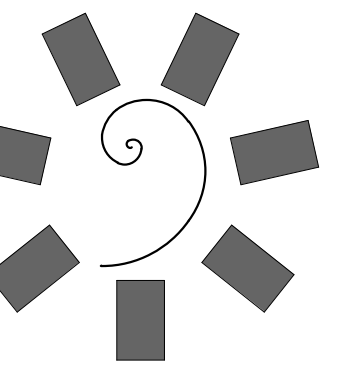
MECHANICAL CONTROLS SEQUENCES

Table with columns: #, DESCRIPTION. Contains detailed control sequences for the BAS system, including equipment definitions, maintenance, and general notes.

Table with columns: #, DESCRIPTION. Contains detailed control sequences for the BAS system, including equipment definitions, maintenance, and general notes.

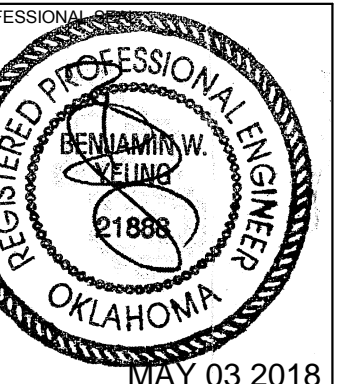
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Table with columns: #, DESCRIPTION. Contains detailed control sequences for the BAS system, including equipment definitions, maintenance, and general notes.

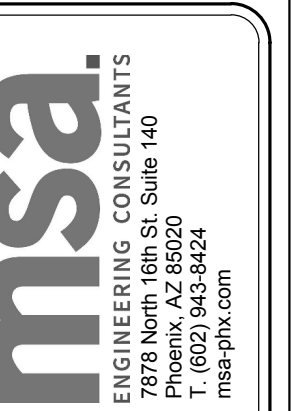


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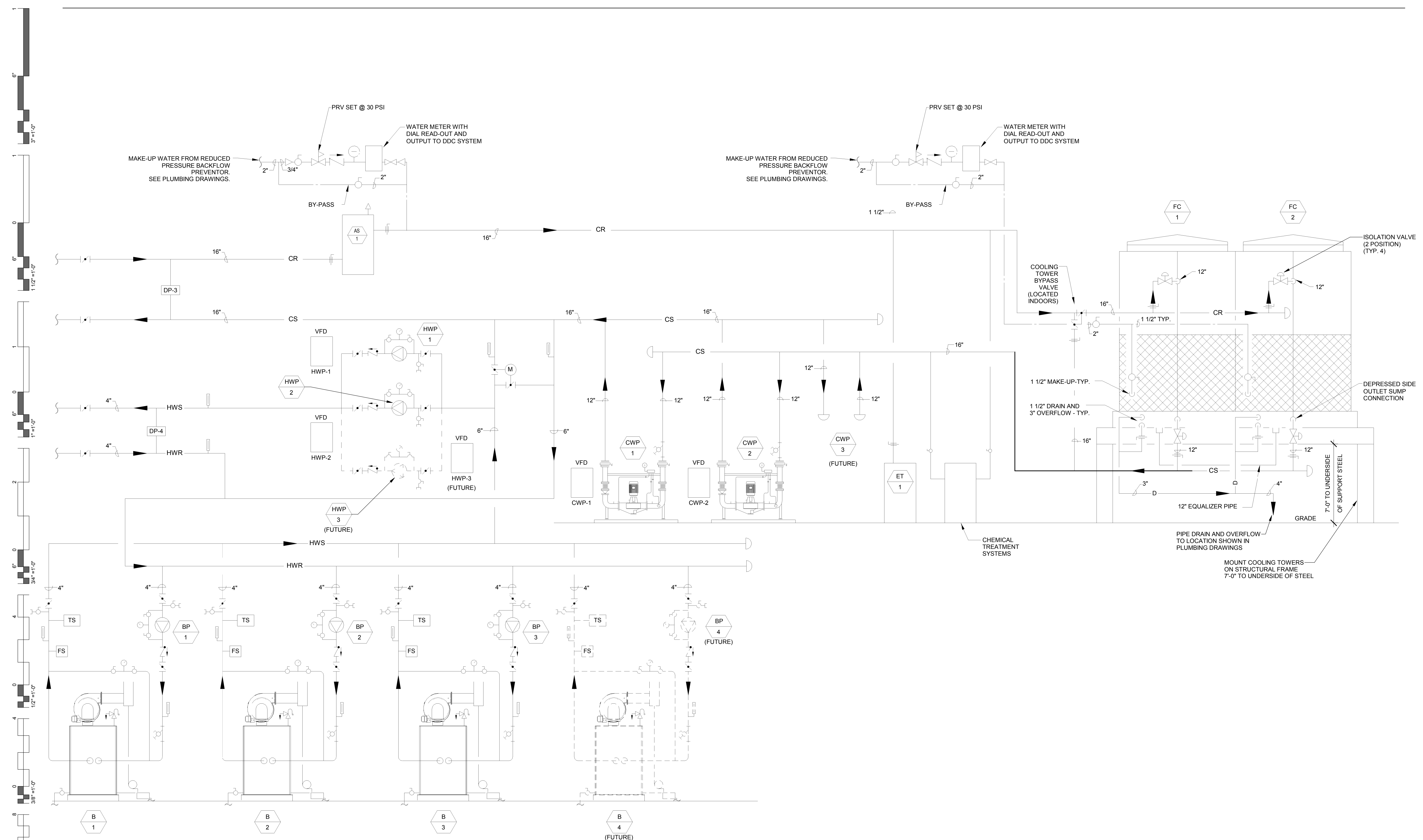
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REVISIONS	
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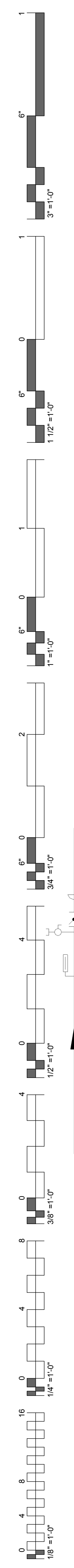
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JOB NUMBER: 17-06

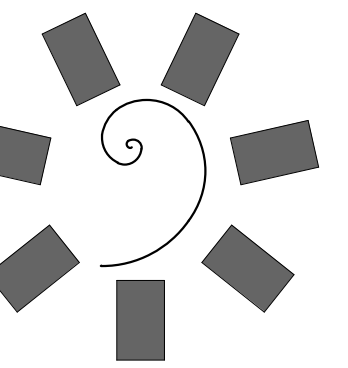
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M0.13

MECHANICAL PIPING
DIAGRAMS



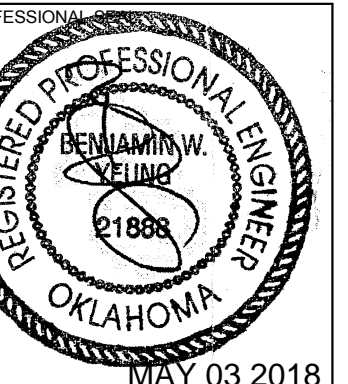
A PIPING SCHEMATIC
M-0.12 NTS





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#	DATE	REVISIONS DESCRIPTION

DATE: 05/03/18 JOB NUMBER: 17-06

SHEET NUMBER: M1.0

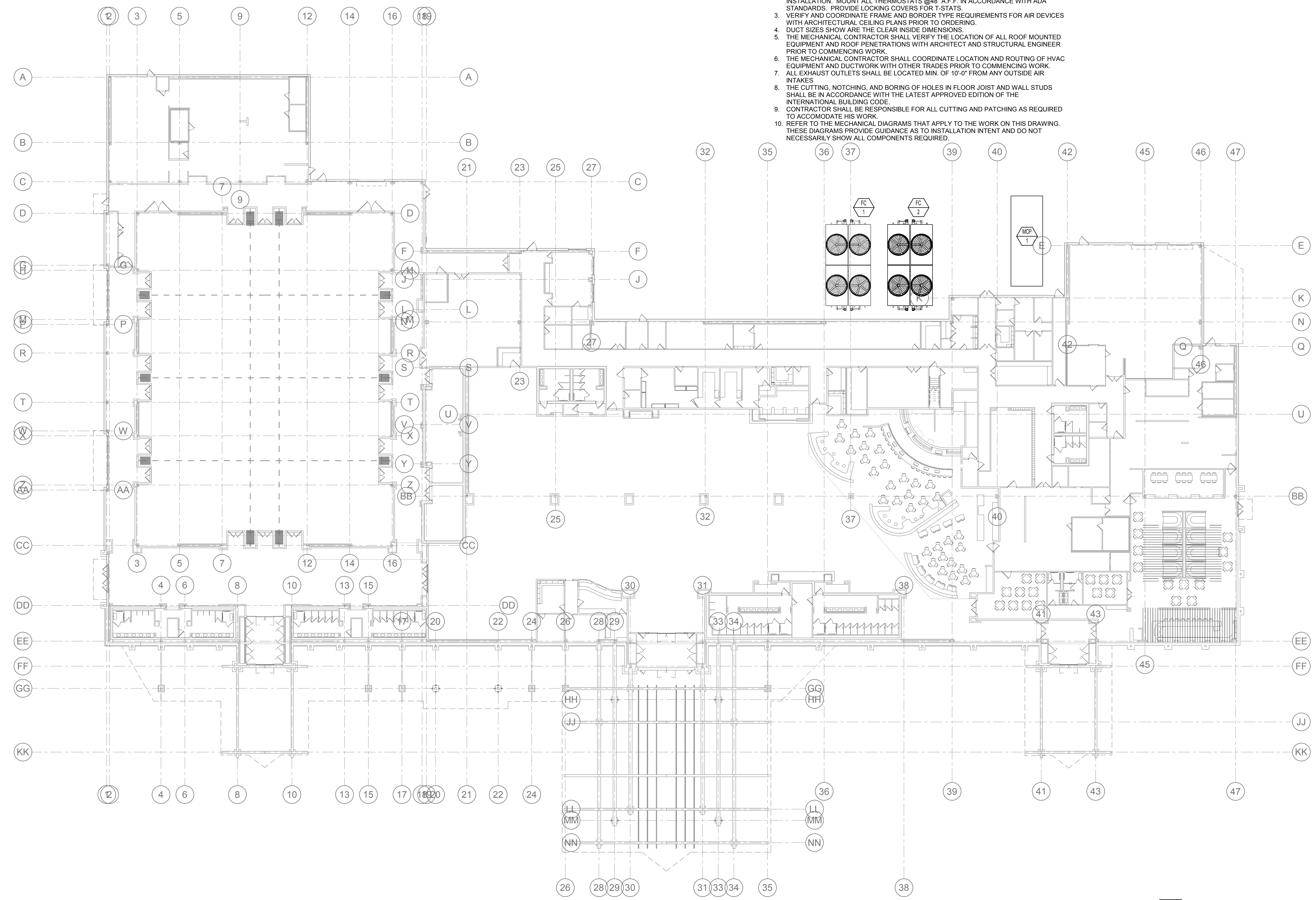
MECHANICAL OVERALL FLOOR PLAN

GENERAL NOTES:

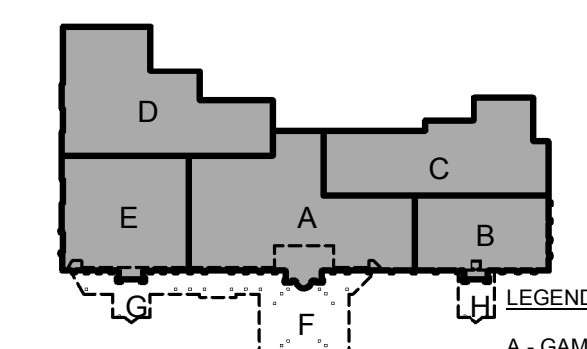
- ACCESS DOORS ARE REQUIRED FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILINGS. COORDINATE EXACT LOCATION OF ALL ACCESS DOORS WITH ARCHITECT PRIOR TO INSTALLATION.
- VERIFY EXACT LOCATION OF ALL THERMOSTATS WITH ARCHITECT PRIOR TO INSTALLATION. MOUNT ALL THERMOSTATS @48" A.F.F. IN ACCORDANCE WITH ADA STANDARDS. PROVIDE LOCKING COVERS FOR T-STATS.
- VERIFY AND COORDINATE FRAME AND BORDER TYPE REQUIREMENTS FOR AIR DEVICES WITH ARCHITECTURAL CEILING PLANS PRIOR TO ORDERING.
- DUCT SIZES SHOW ARE THE CLEAR INSIDE DIMENSIONS.
- THE MECHANICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE LOCATION AND ROUTING OF HVAC EQUIPMENT AND DUCTWORK WITH OTHER TRADES PRIOR TO COMMENCING WORK.
- ALL EXHAUST OUTLETS SHALL BE LOCATED MIN. OF 10'-0" FROM ANY OUTSIDE AIR INTAKES.
- THE CUTTING, NOTCHING, AND BORING OF HOLES IN FLOOR JOIST AND WALL STUDS SHALL BE IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE INTERNATIONAL BUILDING CODE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING AS REQUIRED TO ACCOMMODATE HIS WORK.
- REFER TO THE MECHANICAL DIAGRAMS THAT APPLY TO THE WORK ON THIS DRAWING. THESE DIAGRAMS PROVIDE GUIDANCE AS TO INSTALLATION INTENT AND DO NOT NECESSARILY SHOW ALL COMPONENTS REQUIRED.

SHEET NOTES:

-

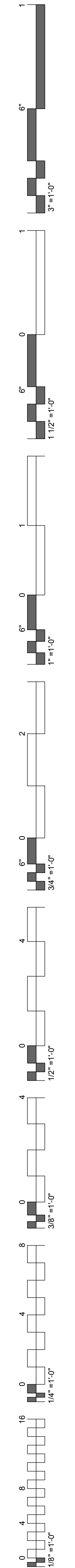


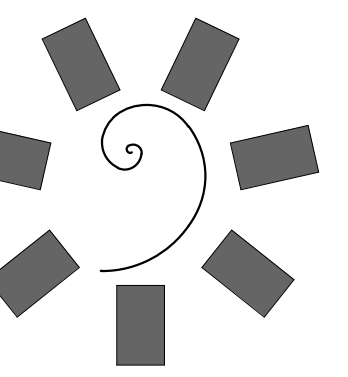
1 MECHANICAL OVERALL FLOOR PLAN
3/64" = 1'-0"



Key Plan
1" = 200'-0"

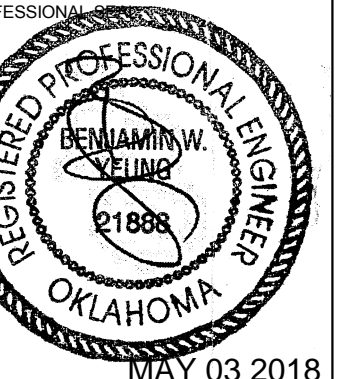
LEGEND
 A - GAMING
 B - SOUTH
 C - BOH
 D - BANQUET BOH
 E - NORTH
 F - CANOPY
 G - CANOPY
 H - CANOPY





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PROJECT PHASE:

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DATE: 05/03/18 JOB NUMBER: 17-06

SHEET NUMBER:

M1.1

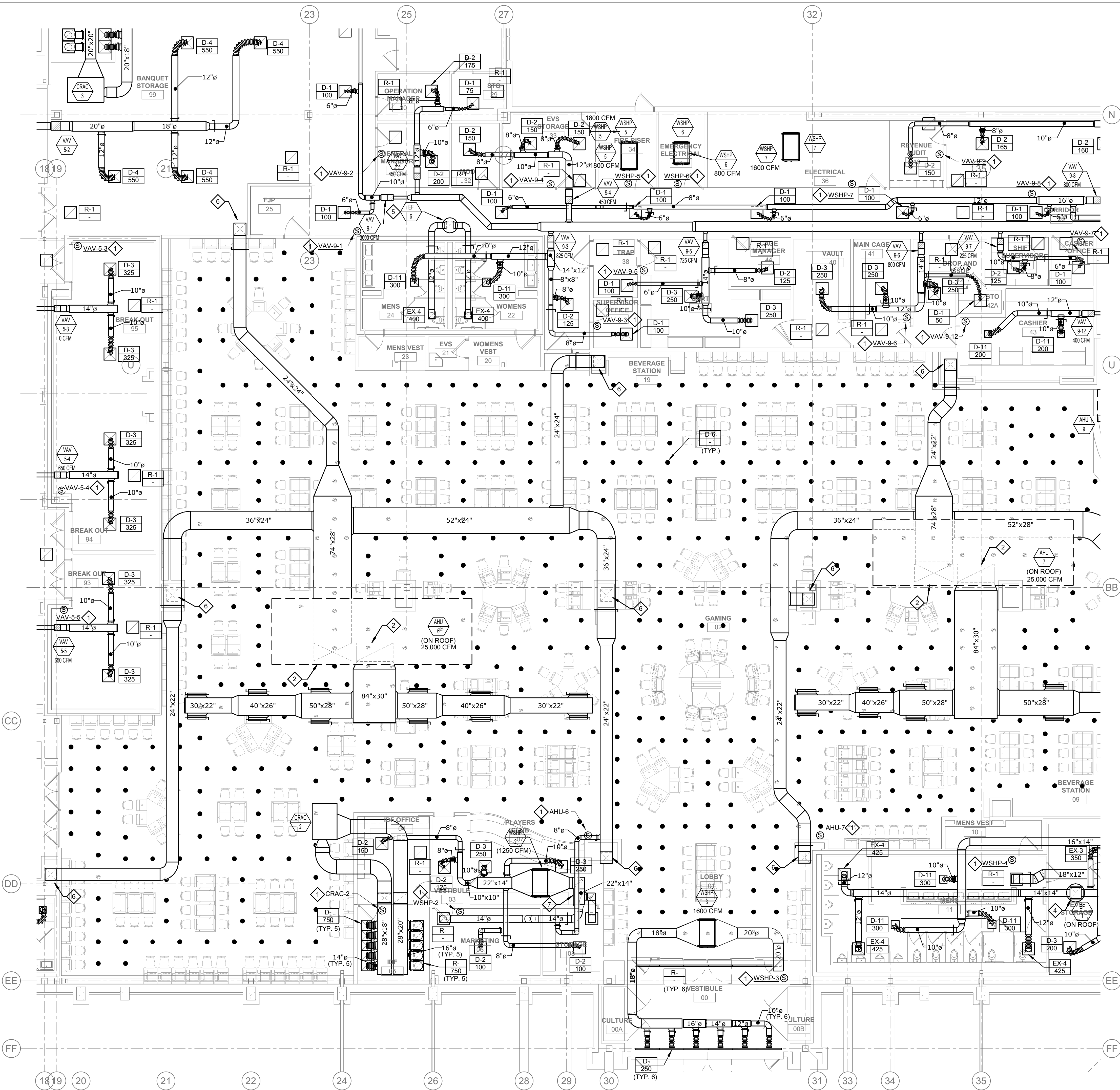
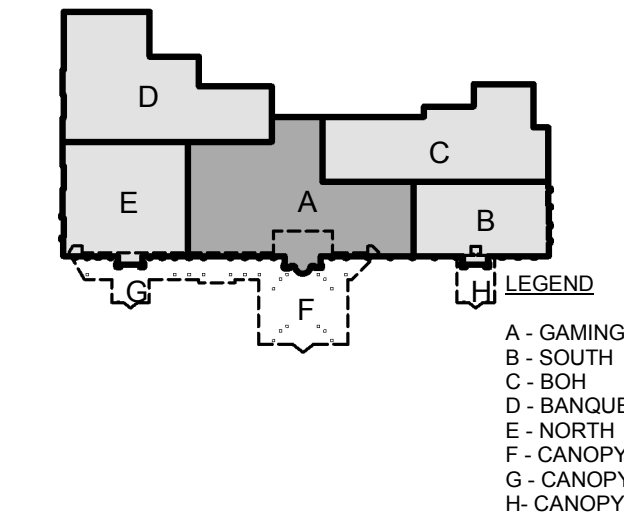
MECHANICAL ENLARGED FLOOR PLAN - GAMING

GENERAL NOTES:

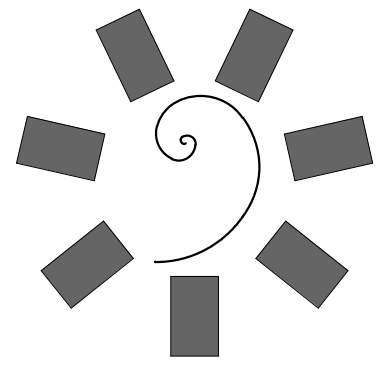
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- THE MECHANICAL CONTRACTOR SHALL COORDINATE LOCATION AND ROUTING OF HVAC EQUIPMENT AND DUCTWORK WITH OTHER TRADES PRIOR TO COMMENCING WORK.
- ALL EXHAUST OUTLETS SHALL BE LOCATED MIN. OF 10'-0" FROM ANY OUTSIDE AIR INTAKES
- THE CUTTING, NOTCHING, AND BORING OF HOLES IN FLOOR JOIST AND WALL STUDS SHALL BE IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE INTERNATIONAL BUILDING CODE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING AS REQUIRED TO ACCOMMODATE HIS WORK.
- REFER TO THE MECHANICAL DIAGRAMS THAT APPLY TO THE WORK ON THIS DRAWING. THESE DIAGRAMS PROVIDE GUIDANCE AS TO INSTALLATION INTENT AND DO NOT NECESSARILY SHOW ALL COMPONENTS REQUIRED.

SHEET NOTES:

- PROVIDE SENSOR AND WIRING UP TO AIR HANDLING UNIT, WATER SOURCE HEAT PUMP UNIT, AND/OR VAV BOX AS INDICATED.
- 74"x28" SUPPLY AIR, 84"x30" RETURN AIR UP TO AHU-6 AND AHU-7.
- 26"x20" SUPPLY AIR, 32"x26" RETURN AIR UP TO AHU-9.
- 24"x22" EXHAUST AIR UP TO EF-1.
- 14"x14" EXHAUST AIR UP TO EF-6.
- 24"x22" SUPPLY AIR DUCT DOWN TO RAISED FLOOR. TERMINATE 12" ABOVE FINISHED FLOOR.
- 8"Ø OUTSIDE AIR DUCT (200 CFM).
- 10"Ø OUTSIDE AIR DUCT (300 CFM).



MECHANICAL ENLARGED FLOOR PLAN - GAMING
1/8" = 1'-0"



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PROJECT PHASE:
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DATE: 05/03/18 JOB NUMBER: 17-06
SHEET NUMBER:

M1.2

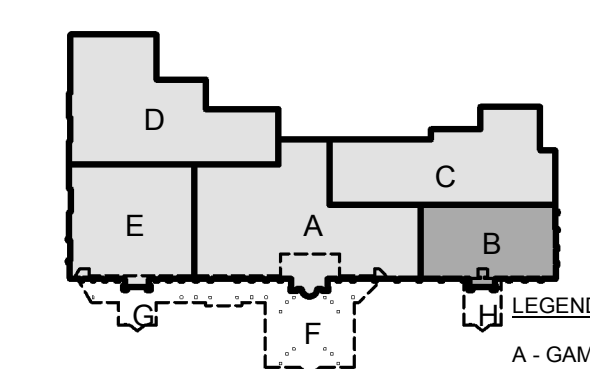
MECHANICAL ENLARGED FLOOR PLAN - SOUTH

GENERAL NOTES:

- ACCESS DOORS ARE REQUIRED FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILINGS. COORDINATE EXACT LOCATION OF ALL ACCESS DOORS WITH ARCHITECT PRIOR TO INSTALLATION.
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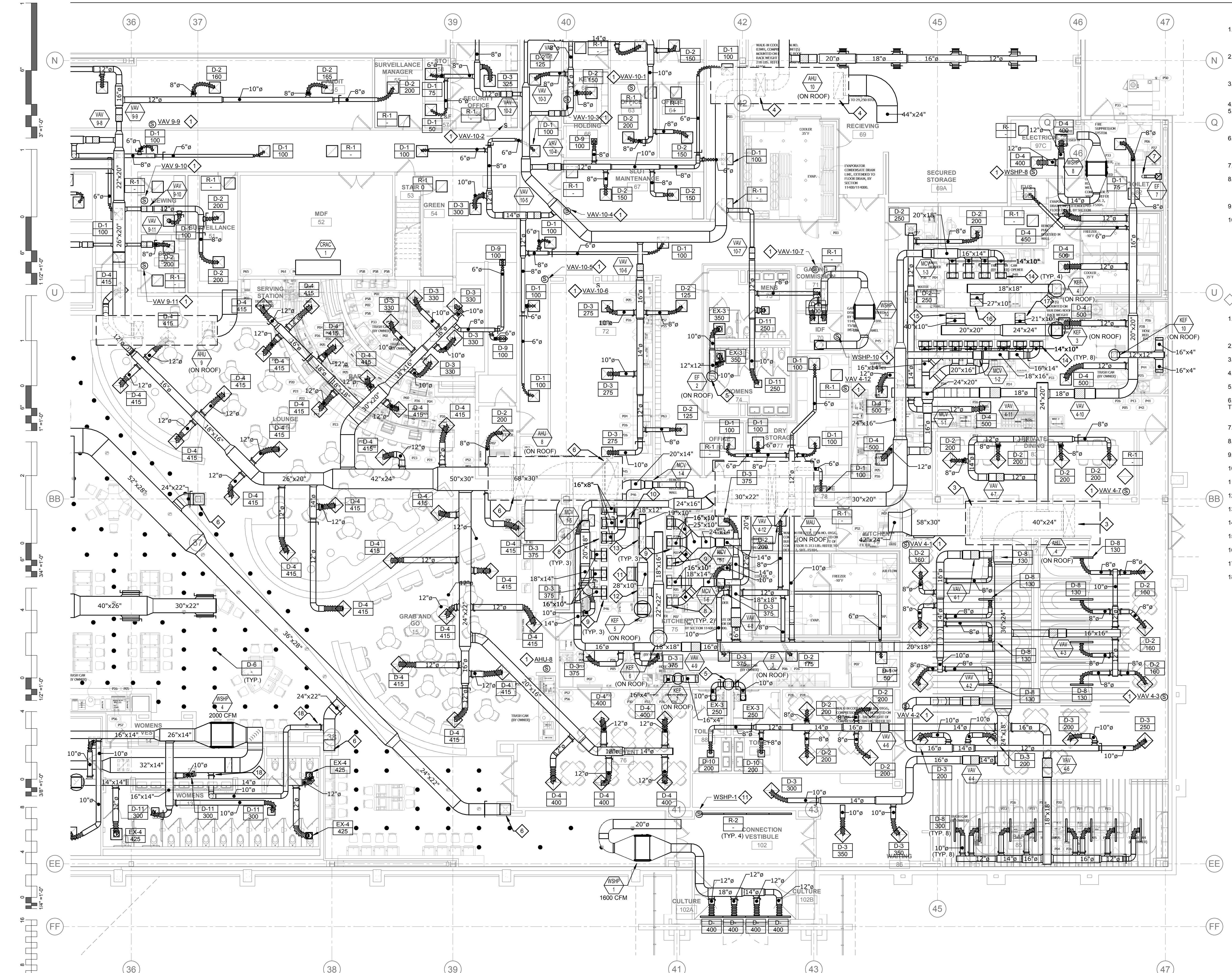
SHEET NOTES:

- PROVIDE SENSOR AND WIRING UP TO AIR HANDLING UNIT, WATER SOURCE HEAT PUMP UNIT, AND/OR VAV BOX AS INDICATED.
- "-X-" SUPPLY AIR, "-X-" RETURN AIR UP TO AHU-8.
- "-X-" SUPPLY AIR, "-X-" RETURN AIR UP TO AHU-4.
- "-X-" SUPPLY AIR, "-X-" RETURN AIR UP TO AHU-10.
- 12"x12" EXHAUST AIR UP TO EF-2 AND EF-3.
- 24"x22" SUPPLY AIR DUCT DOWN TO RAISED FLOOR. TERMINATE 12" ABOVE FINISHED FLOOR.
- 8"Ø EXHAUST UP THROUGH ROOF WITH APPROVED AIR CAP.
- 16"x8" MAKE-UP AIR DOWN TO HOOD.
- 16"x10" MAKE-UP AIR DOWN TO HOOD.
- 19"x10" GREASE EXHAUST DOWN TO HOOD.
- 28"x10" GREASE EXHAUST DOWN TO HOOD.
- 16"x10" GREASE EXHAUST DOWN TO HOOD.
- 25"x10" GREASE EXHAUST DOWN TO HOOD.
- 14"x10" MAKE-UP AIR DOWN TO HOOD.
- 40"x10" GREASE EXHAUST DUCT DOWN TO HOOD.
- 27"x10" GREASE EXHAUST DUCT DOWN TO HOOD.
- 21"x10" GREASE EXHAUST DUCT DOWN TO HOOD.
- 10"Ø OUTSIDE AIR DUCT.



- LEGEND
- A - GAMING
 - B - SOUTH
 - C - BOH
 - D - BANQUET BOH
 - E - NORTH
 - F - CANOPY
 - G - CANOPY
 - H - CANOPY

MECHANICAL ENLARGED FLOOR PLAN - SOUTH
1/8" = 1'-0"



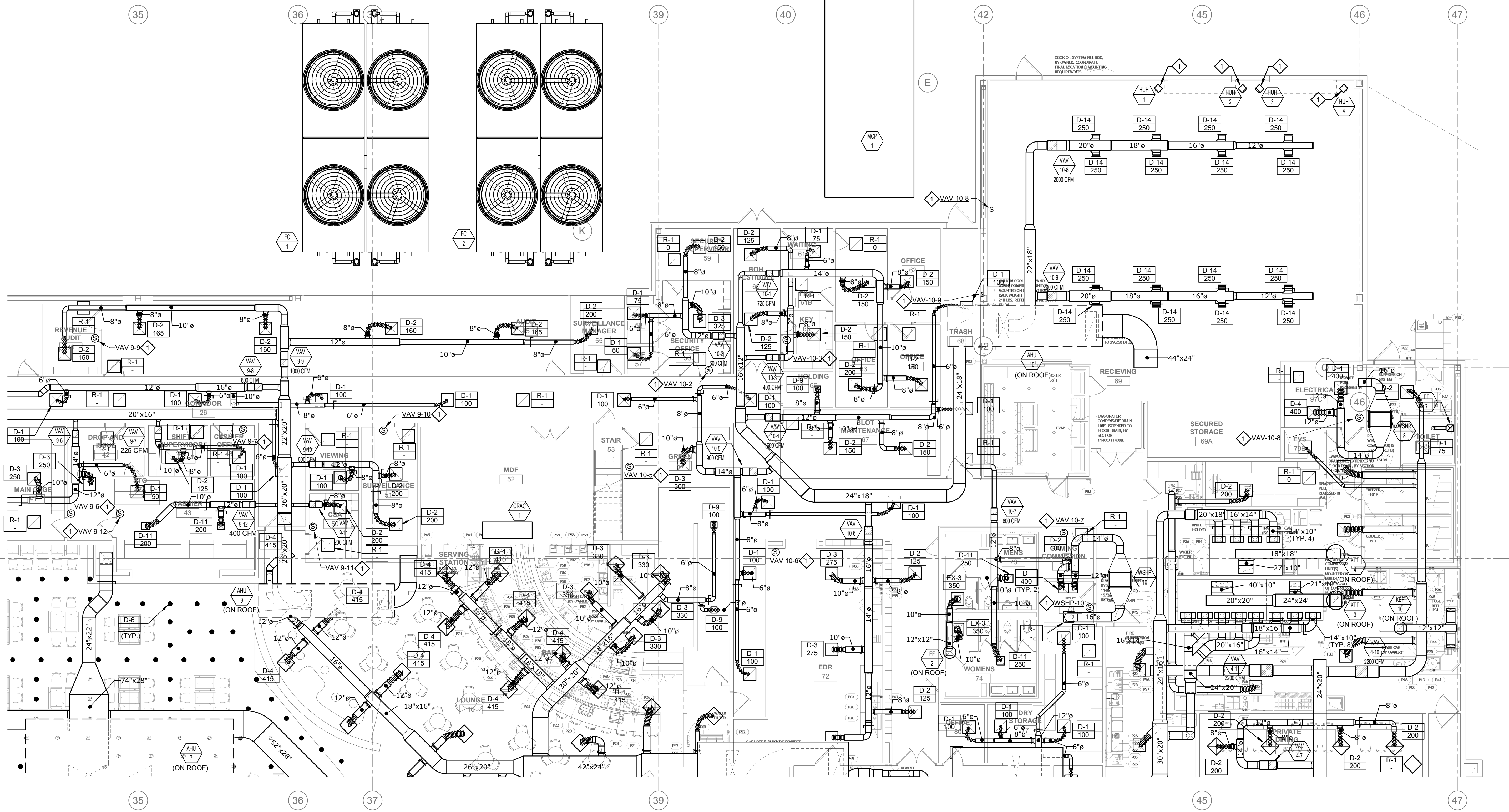
GENERAL NOTES:

- ACCESS DOORS ARE REQUIRED FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILINGS. COORDINATE EXACT LOCATION OF ALL ACCESS DOORS WITH ARCHITECT PRIOR TO INSTALLATION.
- VERIFY EXACT LOCATION OF ALL THERMOSTATS WITH ARCHITECT PRIOR TO INSTALLATION. MOUNT ALL THERMOSTATS @48" A.F.F. IN ACCORDANCE WITH ADA STANDARDS. PROVIDE LOCKING COVERS FOR T-STATS.
- VERIFY AND COORDINATE FRAME AND BORDER TYPE REQUIREMENTS FOR AIR DEVICES WITH ARCHITECTURAL CEILING PLANS PRIOR TO ORDERING.
- DUCT SIZES SHOW ARE THE CLEAR INSIDE DIMENSIONS.
- THE MECHANICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE LOCATION AND ROUTING OF HVAC EQUIPMENT AND DUCTWORK WITH OTHER TRADES

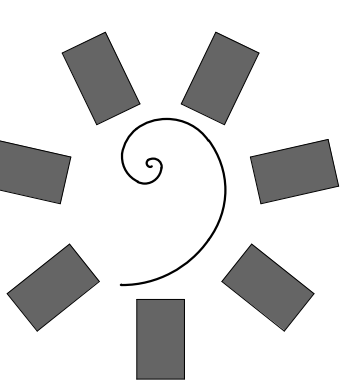
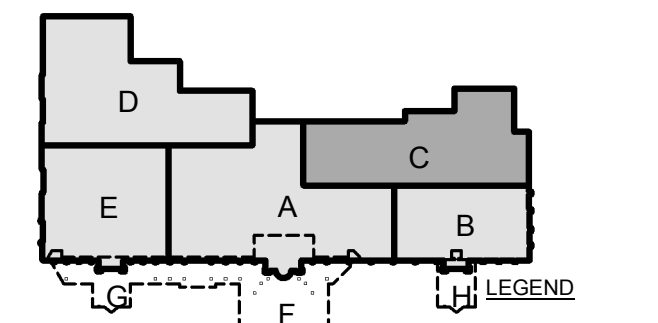
- ALL EXHAUST OUTLETS SHALL BE LOCATED MIN. OF 10'-0" FROM ANY OUTSIDE AIR INTAKES
- THE CUTTING, NOTCHING, AND BORING OF HOLES IN FLOOR JOIST AND WALL STUDS SHALL BE IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE INTERNATIONAL BUILDING CODE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING AS REQUIRED TO ACCOMMODATE HIS WORK.
- REFER TO THE MECHANICAL DIAGRAMS THAT APPLY TO THE WORK ON THIS DRAWING. THESE DIAGRAMS PROVIDE GUIDANCE AS TO INSTALLATION INTENT AND DO NOT NECESSARILY SHOW ALL COMPONENTS REQUIRED.

SHEET NOTES:

- PROVIDE SENSOR AND WIRING UP TO AIR HANDLING UNIT, WATER SOURCE HEAT PUMP UNIT, UNIT HEATERS AND/OR VAV BOX AS INDICATED.



MECHANICAL ENLARGED FLOOR PLAN - BOH
1/8" = 1'-0"



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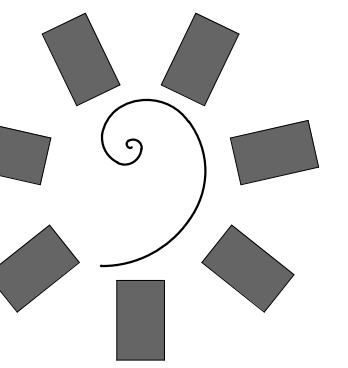
PROJECT PHASE
BID PACKAGE 05

#	DATE	REVISIONS DESCRIPTION

DATE: 05/03/18
JOB NUMBER: 17-06
SHEET NUMBER:

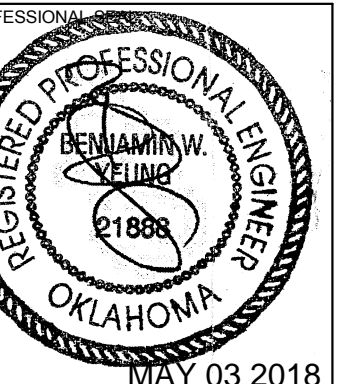
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MECHANICAL ENLARGED FLOOR PLAN - BOH

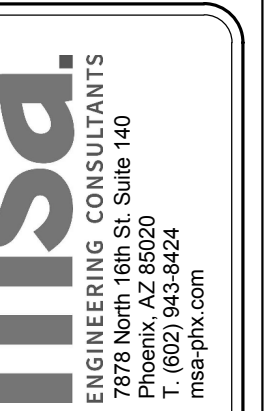


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PROJECT PHASE:
BID PACKAGE 05

#	DATE	REVISIONS	DESCRIPTION

DATE: 05/03/18 JOB NUMBER: 17-06

SHEET NUMBER:

M1.4

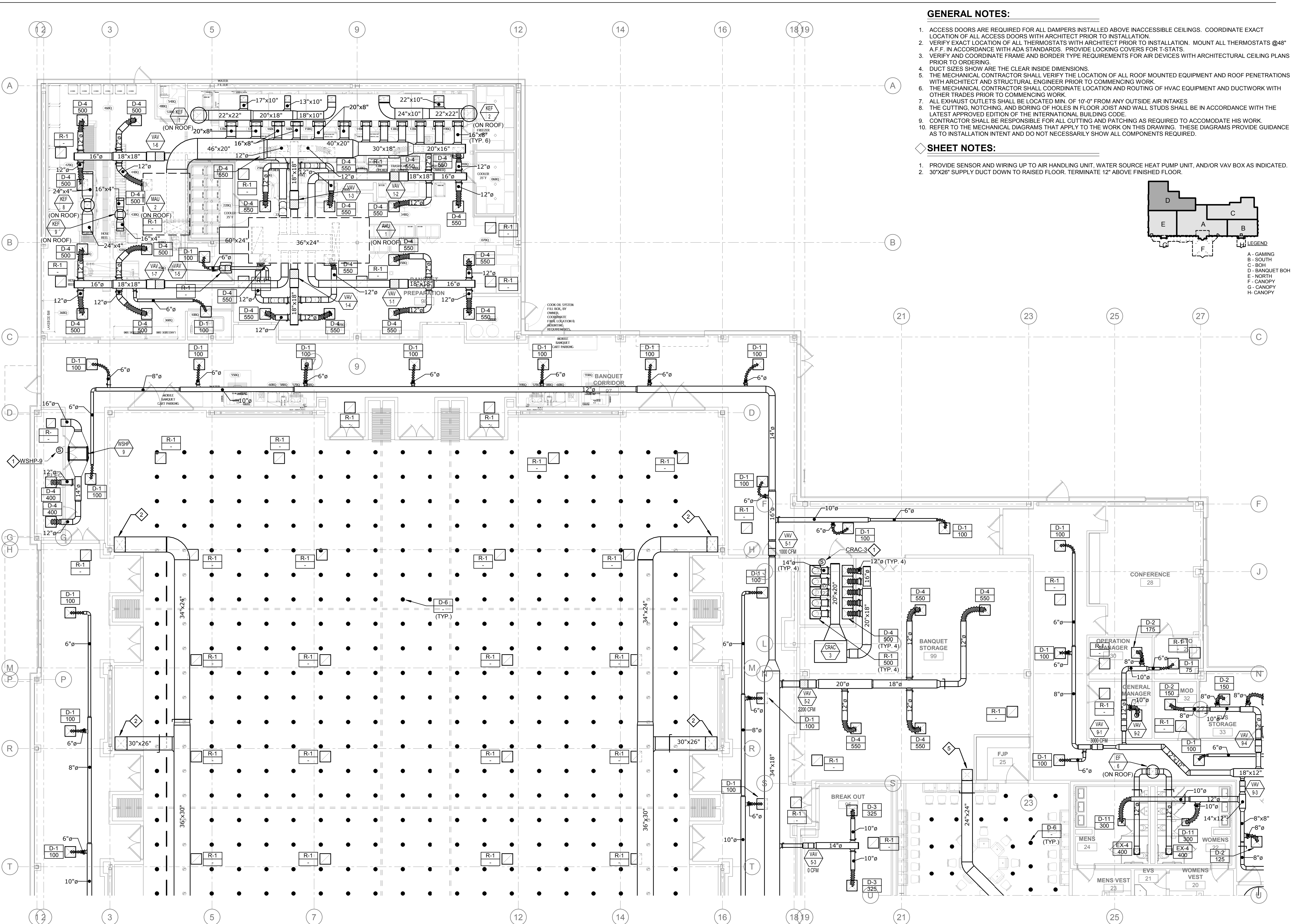
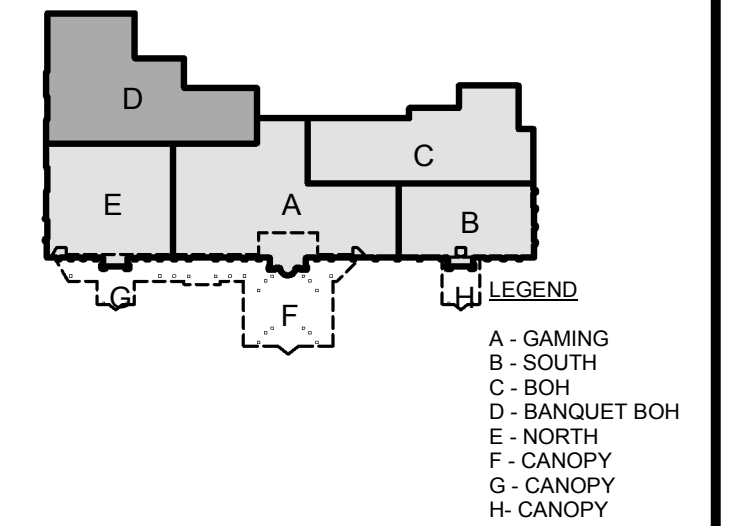
MECHANICAL ENLARGED FLOOR PLAN - BANQUET BOH

GENERAL NOTES:

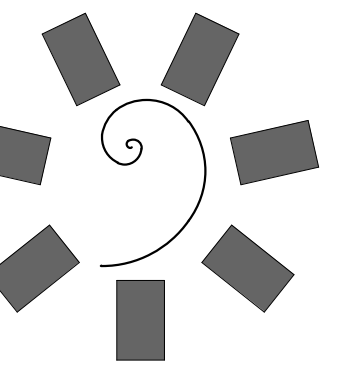
- ACCESS DOORS ARE REQUIRED FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILINGS. COORDINATE EXACT LOCATION OF ALL ACCESS DOORS WITH ARCHITECT PRIOR TO INSTALLATION.
- VERIFY EXACT LOCATION OF ALL THERMOSTATS WITH ARCHITECT PRIOR TO INSTALLATION. MOUNT ALL THERMOSTATS @48" A.F.F. IN ACCORDANCE WITH ADA STANDARDS. PROVIDE LOCKING COVERS FOR T-STATS.
- VERIFY AND COORDINATE FRAME AND BORDER TYPE REQUIREMENTS FOR AIR DEVICES WITH ARCHITECTURAL CEILING PLANS PRIOR TO ORDERING.
- DUCT SIZES SHOW ARE THE CLEAR INSIDE DIMENSIONS.
- THE MECHANICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE LOCATION AND ROUTING OF HVAC EQUIPMENT AND DUCTWORK WITH OTHER TRADES PRIOR TO COMMENCING WORK.
- ALL EXHAUST OUTLETS SHALL BE LOCATED MIN. OF 10'-0" FROM ANY OUTSIDE AIR INTAKES.
- THE CUTTING, NOTCHING, AND BORING OF HOLES IN FLOOR JOIST AND WALL STUDS SHALL BE IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE INTERNATIONAL BUILDING CODE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING AS REQUIRED TO ACCOMMODATE HIS WORK.
- REFER TO THE MECHANICAL DIAGRAMS THAT APPLY TO THE WORK ON THIS DRAWING. THESE DIAGRAMS PROVIDE GUIDANCE AS TO INSTALLATION INTENT AND DO NOT NECESSARILY SHOW ALL COMPONENTS REQUIRED.

SHEET NOTES:

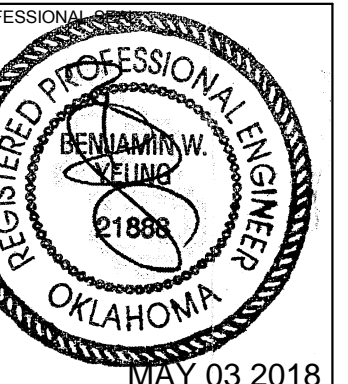
- PROVIDE SENSOR AND WIRING UP TO AIR HANDLING UNIT, WATER SOURCE HEAT PUMP UNIT, AND/OR VAV BOX AS INDICATED.
- 30"x26" SUPPLY DUCT DOWN TO RAISED FLOOR. TERMINATE 12" ABOVE FINISHED FLOOR.



MECHANICAL ENLARGED FLOOR PLAN - BANQUET BOH
1/8" = 1'-0"



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PROJECT PHASE:
BID PACKAGE 05

#	DATE	REVISIONS DESCRIPTION

DATE: 05/03/18
JOB NUMBER: 17-06

SHEET NUMBER:
M1.5

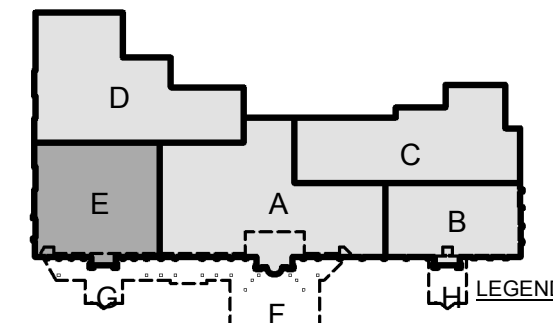
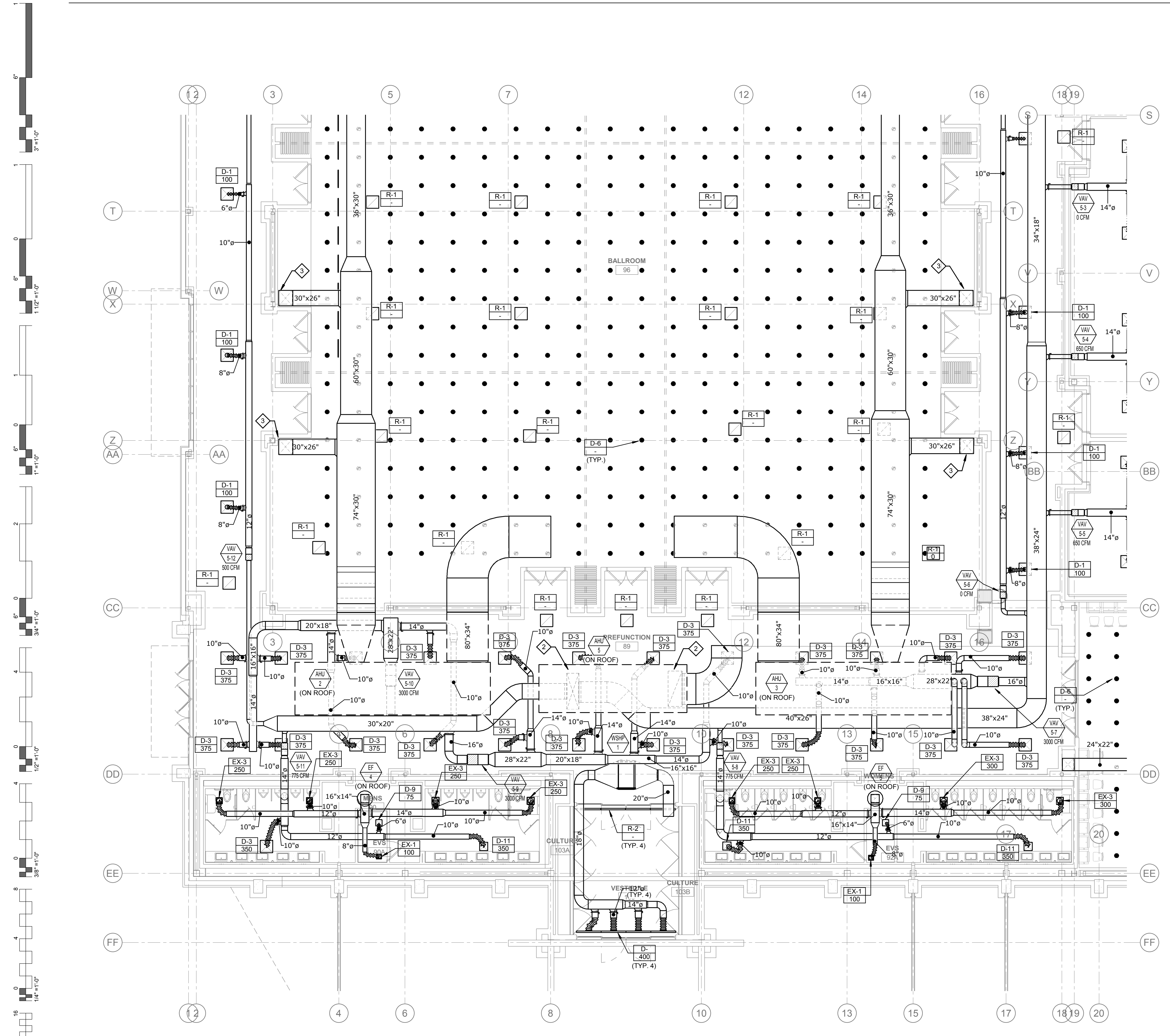
MECHANICAL
ENLARGED FLOOR PLAN - NORTH

GENERAL NOTES:

- ACCESS DOORS ARE REQUIRED FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILINGS. COORDINATE EXACT LOCATION OF ALL ACCESS DOORS WITH ARCHITECT PRIOR TO INSTALLATION.
- VERIFY EXACT LOCATION OF ALL THERMOSTATS WITH ARCHITECT PRIOR TO INSTALLATION. MOUNT ALL THERMOSTATS @48" A.F.F. IN ACCORDANCE WITH ADA STANDARDS. PROVIDE LOCKING COVERS FOR T-STATS.
- VERIFY AND COORDINATE FRAME AND BORDER TYPE REQUIREMENTS FOR AIR DEVICES WITH ARCHITECTURAL CEILING PLANS PRIOR TO ORDERING.
- DUCT SIZES SHOW ARE THE CLEAR INSIDE DIMENSIONS.
- THE MECHANICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE LOCATION AND ROUTING OF HVAC EQUIPMENT AND DUCTWORK WITH OTHER TRADES PRIOR TO COMMENCING WORK.
- ALL EXHAUST OUTLETS SHALL BE LOCATED MIN. OF 10'-0" FROM ANY OUTSIDE AIR INTAKES
- THE CUTTING, NOTCHING, AND BORING OF HOLES IN FLOOR JOIST AND WALL STUDS SHALL BE IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE INTERNATIONAL BUILDING CODE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING AS REQUIRED TO ACCOMMODATE HIS WORK.
- REFER TO THE MECHANICAL DIAGRAMS THAT APPLY TO THE WORK ON THIS DRAWING. THESE DIAGRAMS PROVIDE GUIDANCE AS TO INSTALLATION INTENT AND DO NOT NECESSARILY SHOW ALL COMPONENTS REQUIRED.

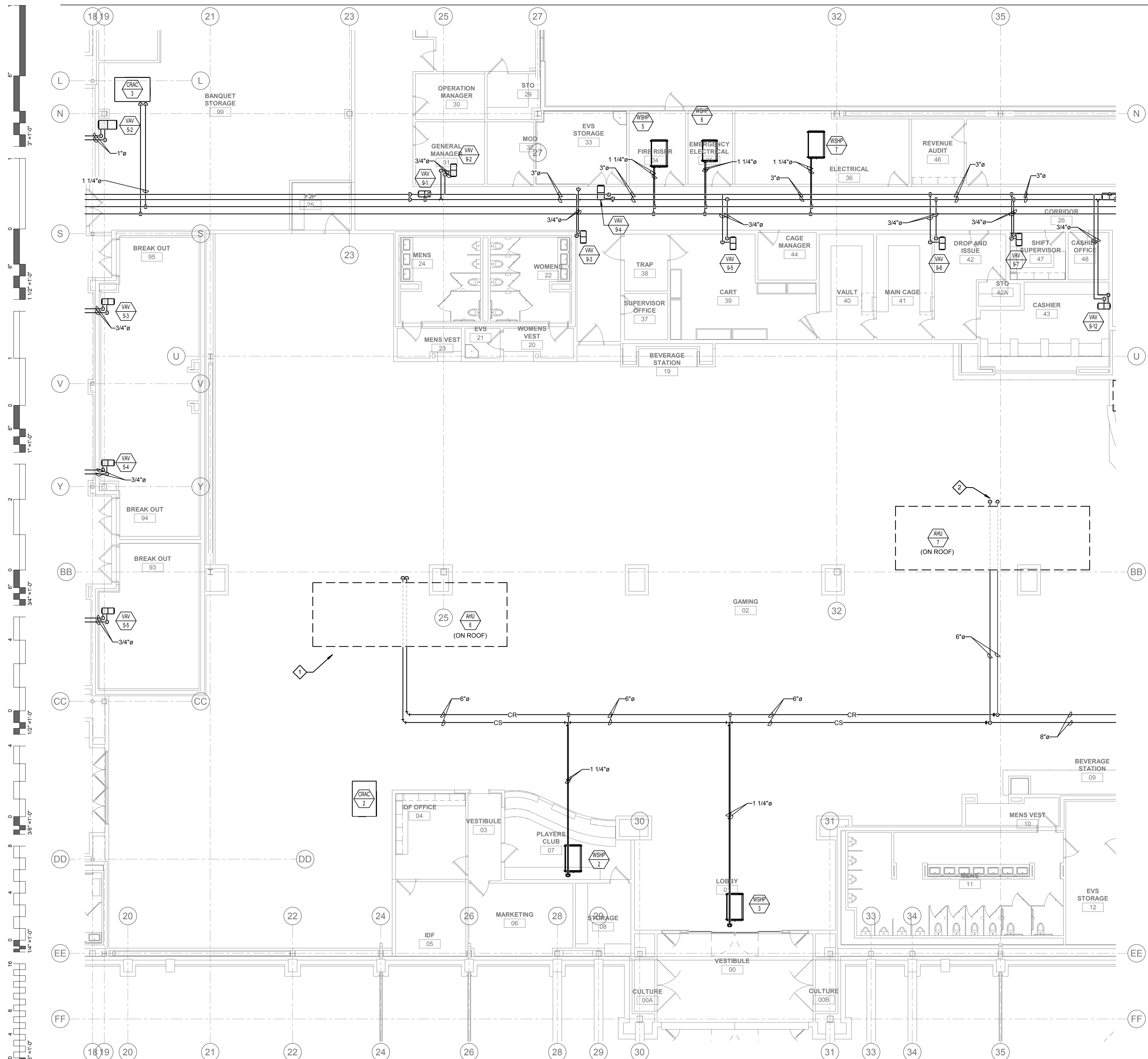
SHEET NOTES:

- PROVIDE SENSOR AND WIRING UP TO AIR HANDLING UNIT, WATER SOURCE HEAT PUMP UNIT, AND/OR VAV BOX AS INDICATED.
- 52"x30" SUPPLY AIR DUCT, 60"x30" RETURN AIR DUCT UP TO AHU-3.
- 30"x26" SUPPLY AIR DUCT DOWN TO RAISED FLOOR. TERMINATE 12" ABOVE FINISHED FLOOR.
- ALL EXTERIOR DUCTWORK SHALL HAVE 2" INSULATION WITH JACKETING.
- 24"x24" SUPPLY AIR DUCT DOWN TO RAISED FLOOR. TERMINATE 12" ABOVE FINISHED FLOOR.



LEGEND
A - GAMING
B - SOUTH
C - BOH
D - BANQUET BOH
E - NORTH
F - CANOPY
G - CANOPY
H - CANOPY

MECHANICAL ENLARGED FLOOR PLAN - NORTH
1/8" = 1'-0"

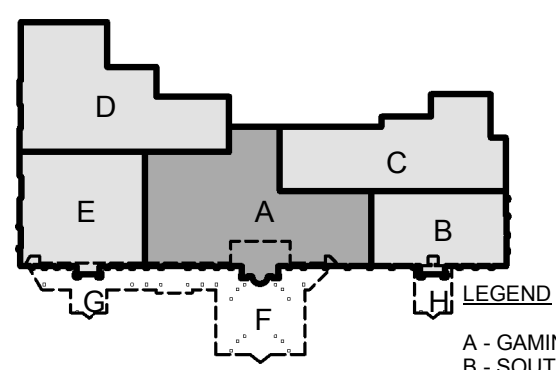


GENERAL NOTES:

1. ACCESS DOORS ARE REQUIRED FOR ALL VALVES INSTALLED ABOVE INACCESSIBLE CEILINGS. COORDINATE EXACT LOCATION OF ALL ACCESS DOORS WITH ARCHITECT PRIOR TO INSTALLATION.
2. THE MECHANICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
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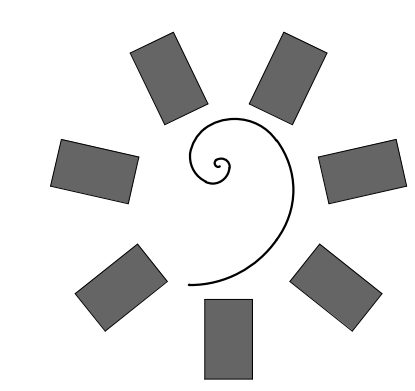
SHEET NOTES:

1. 6" CS/CR PIPING UP TO AHU-6.
2. 6" CS/CR PIPING UP TO AHU-7.
3. 2 1/2" CS/CR PIPING UP TO AHU-9.

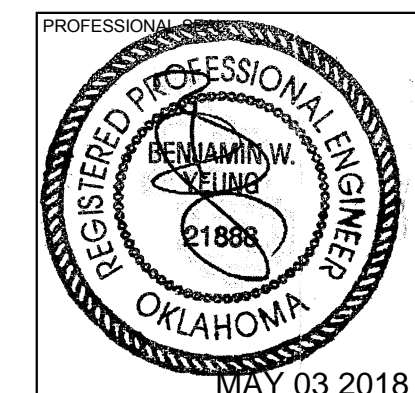


LEGEND
 A - GAMING
 B - SOUTH
 C - BOH
 D - BANQUET BOH
 E - NORTH
 F - CANOPY
 G - CANOPY
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MECHANICAL ENLARGED FLOOR PLAN - GAMING
 1/8" = 1'-0"



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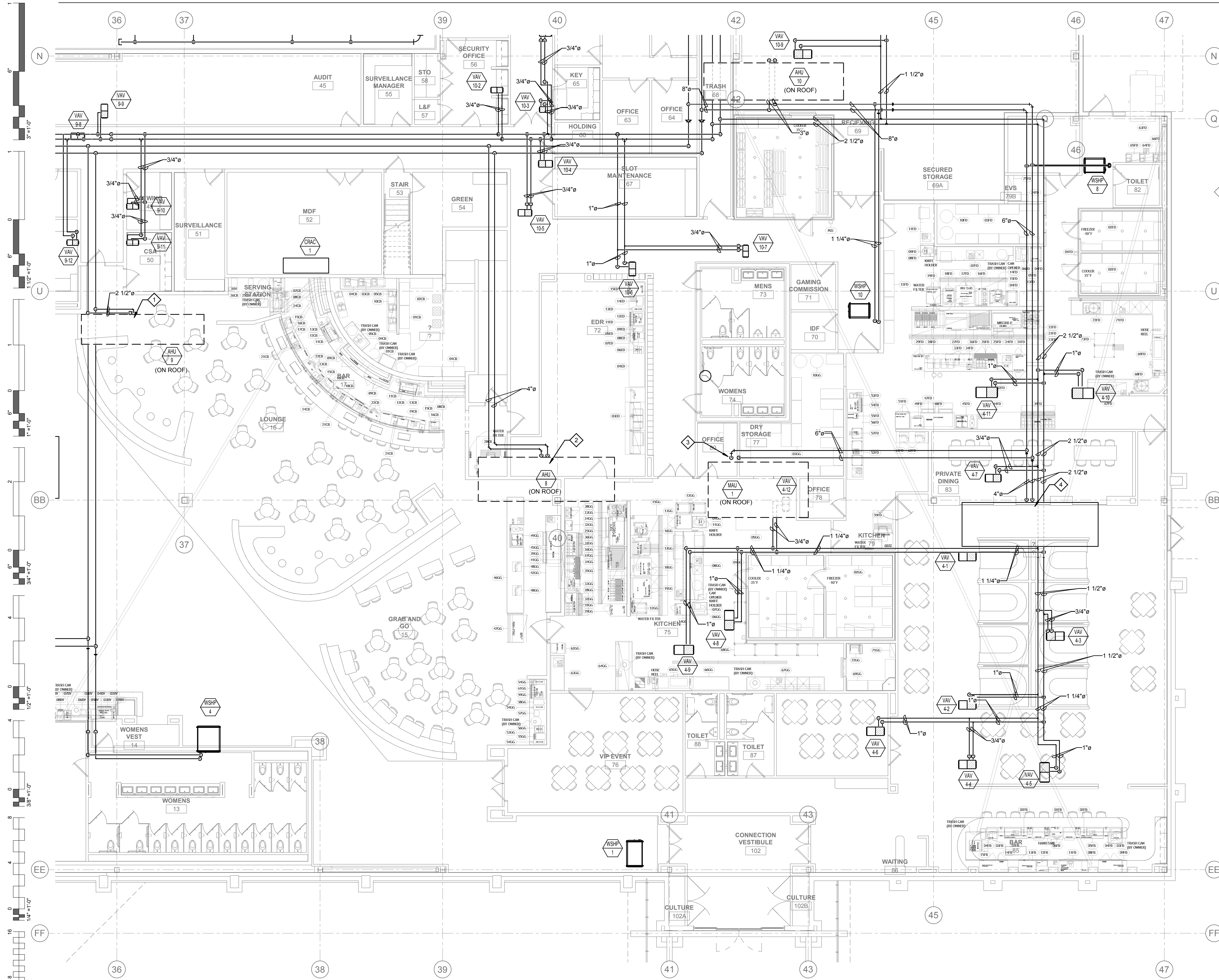
PROJECT PHASE:
BID PACKAGE 05

#	DATE	REVISIONS DESCRIPTION

DATE: 05/03/18
 JOB NUMBER: 17-06

SHEET NUMBER:
M4.1

MECHANICAL PIPING ENLARGED FLOOR PLAN - GAMING



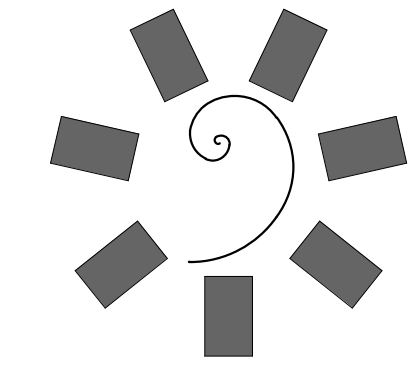
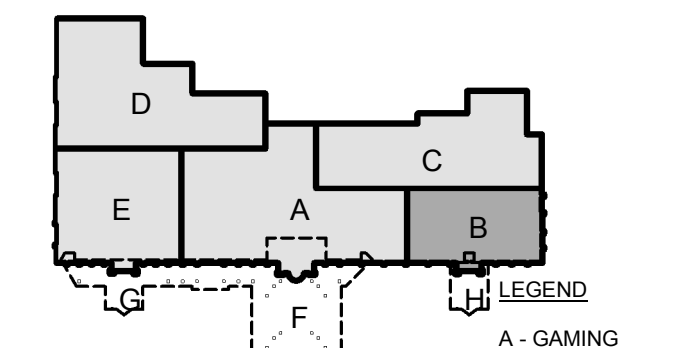
GENERAL NOTES:

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SHEET NOTES:

- 2 1/2" CS/CR PIPING UP TO AHU-9.
- 4" CS/CR PIPING UP TO AHU-8.
- 6" CS/CR PIPING UP TO AHU-1.
- 4" CS/CR PIPING UP TO AHU-1.

MECHANICAL ENLARGED FLOOR PLAN - SOUTH
1/8" = 1'-0"



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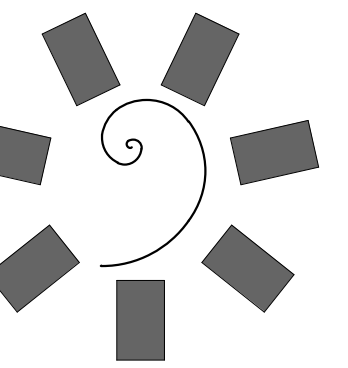
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#	DATE	REVISIONS DESCRIPTION

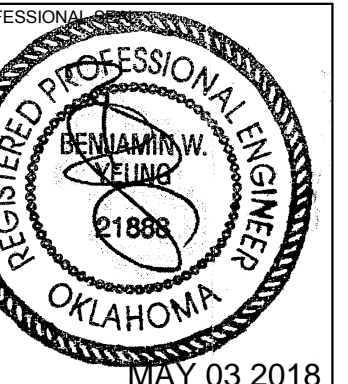
DATE: 05/03/18 JOB NUMBER: 17-06

SHEET NUMBER:
M4.2

MECHANICAL PIPING
ENLARGED PLAN - SOUTH



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PROJECT PHASE:
BID PACKAGE 05

#	DATE	REVISIONS DESCRIPTION

DATE: 05/03/18
JOB NUMBER: 17-06

SHEET NUMBER:
M4.3

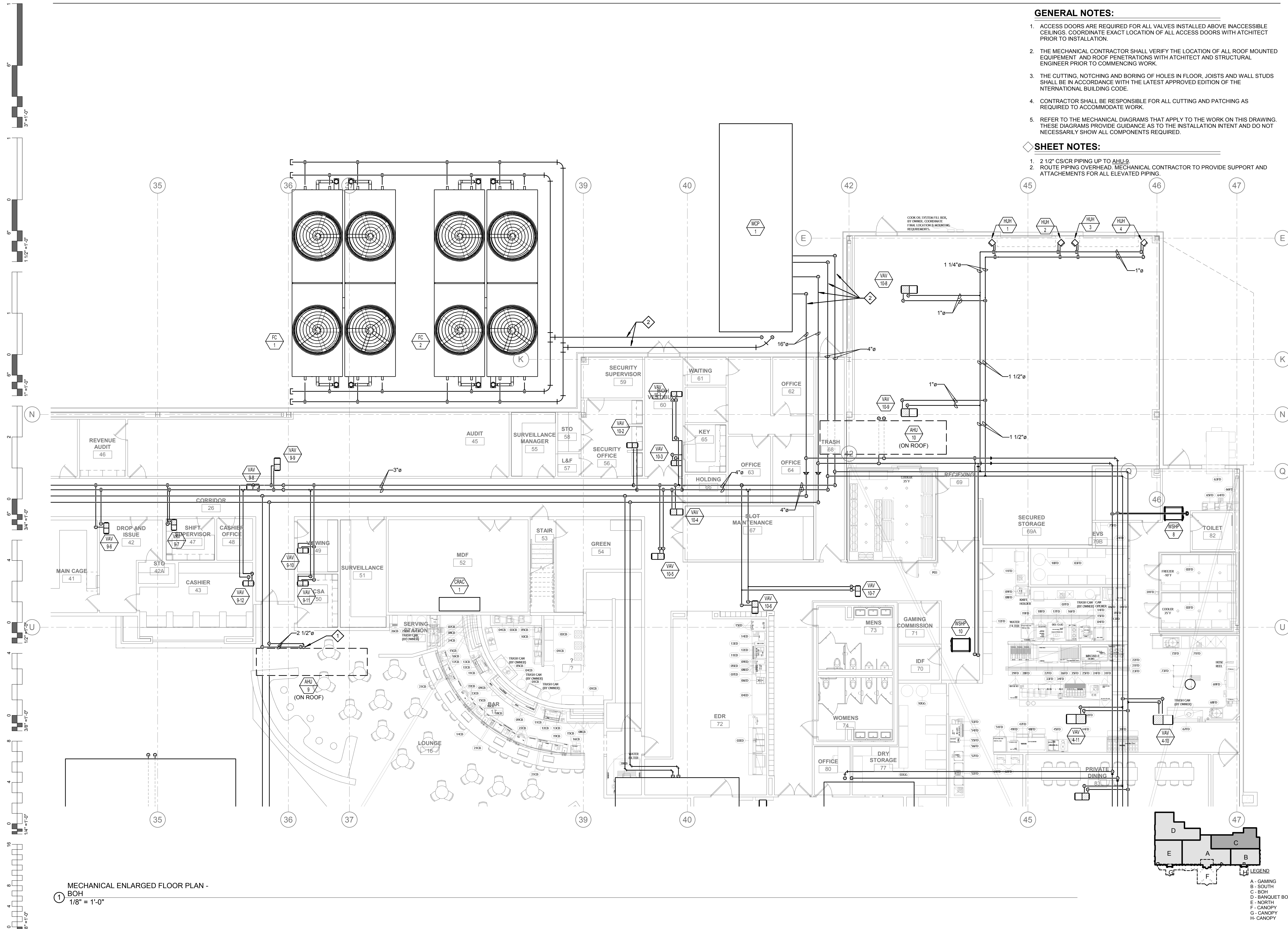
MECHANICAL PIPING
ENLARGED PLAN -
BOH

GENERAL NOTES:

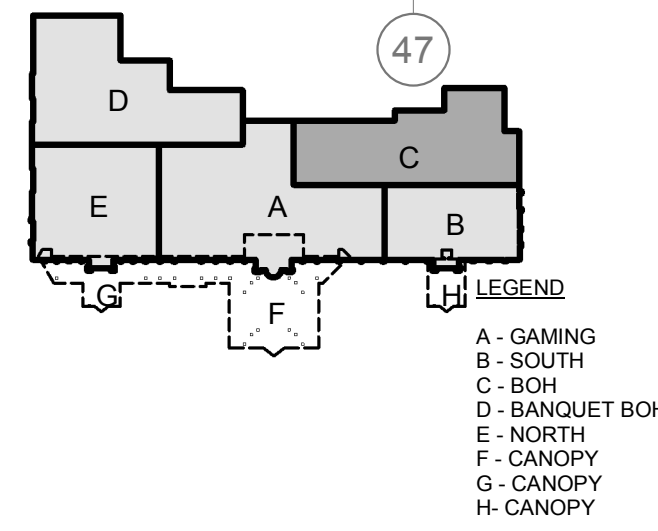
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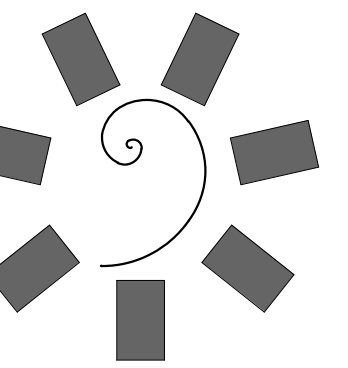
SHEET NOTES:

- 2 1/2" CS/CR PIPING UP TO AHU-9.
- ROUTE PIPING OVERHEAD. MECHANICAL CONTRACTOR TO PROVIDE SUPPORT AND ATTACHEMENTS FOR ALL ELEVATED PIPING.



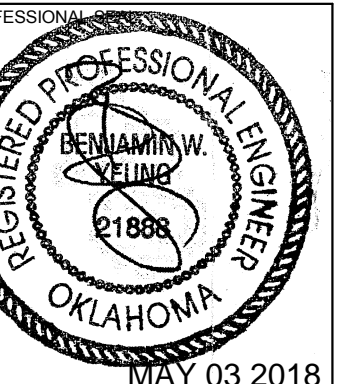
MECHANICAL ENLARGED FLOOR PLAN -
BOH
1/8" = 1'-0"





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TAHLEQUAH, OKLAHOMA

PROJECT PHASE:

BID PACKAGE 05

#	DATE	REVISIONS DESCRIPTION

DATE: 05/03/18 JOB NUMBER: 17-06

SHEET NUMBER:

M4.4

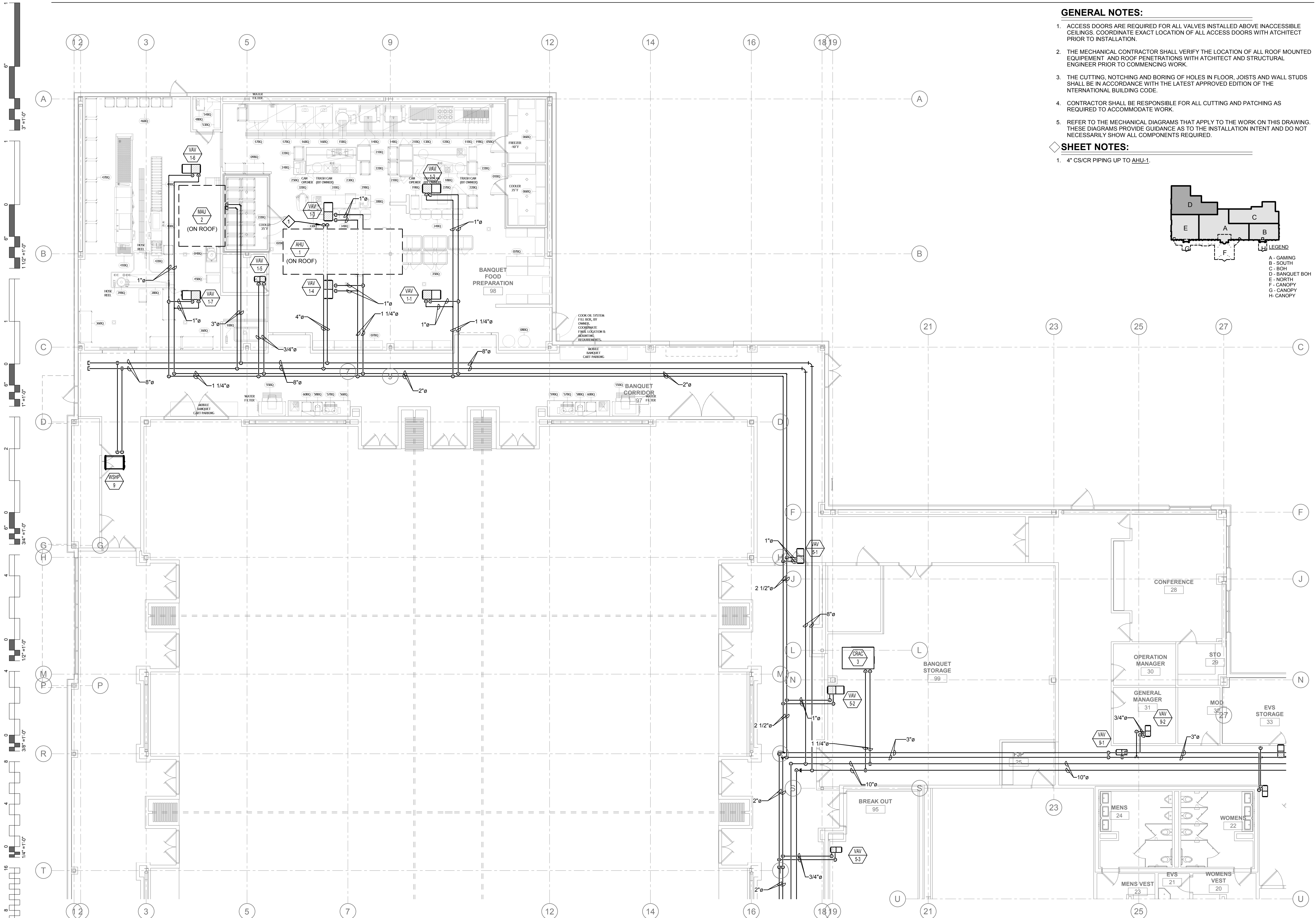
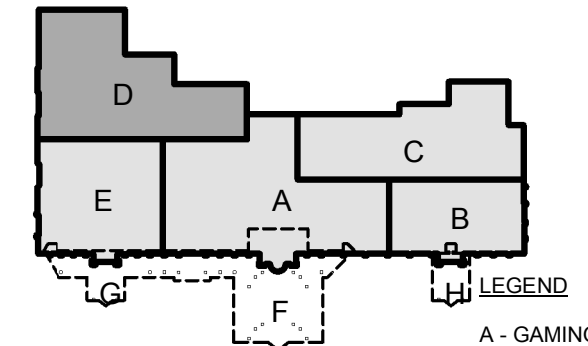
MECHANICAL PIPING
ENLARGED PLAN -
BANQUET BOH

GENERAL NOTES:

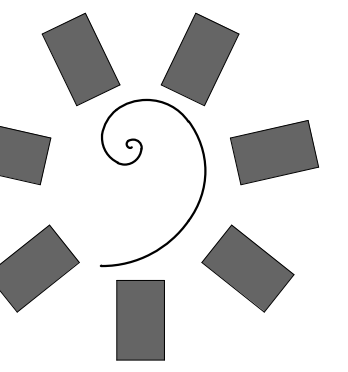
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SHEET NOTES:

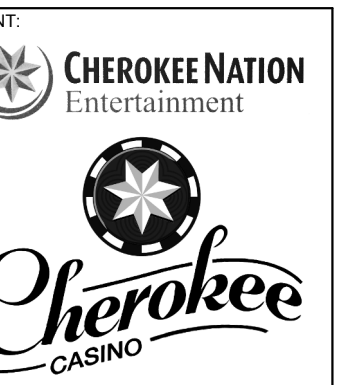
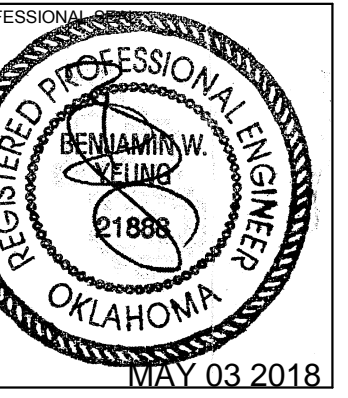
- 4" CS/CR PIPING UP TO AHU-1.



MECHANICAL ENLARGED FLOOR PLAN -
BANQUET BOH
1/8" = 1'-0"



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PROJECT PHASE:
BID PACKAGE 05

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DATE: 05/03/18
JOB NUMBER: 17-06

SHEET NUMBER:
M4.5

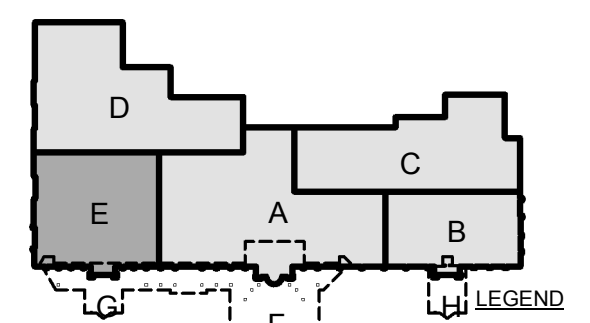
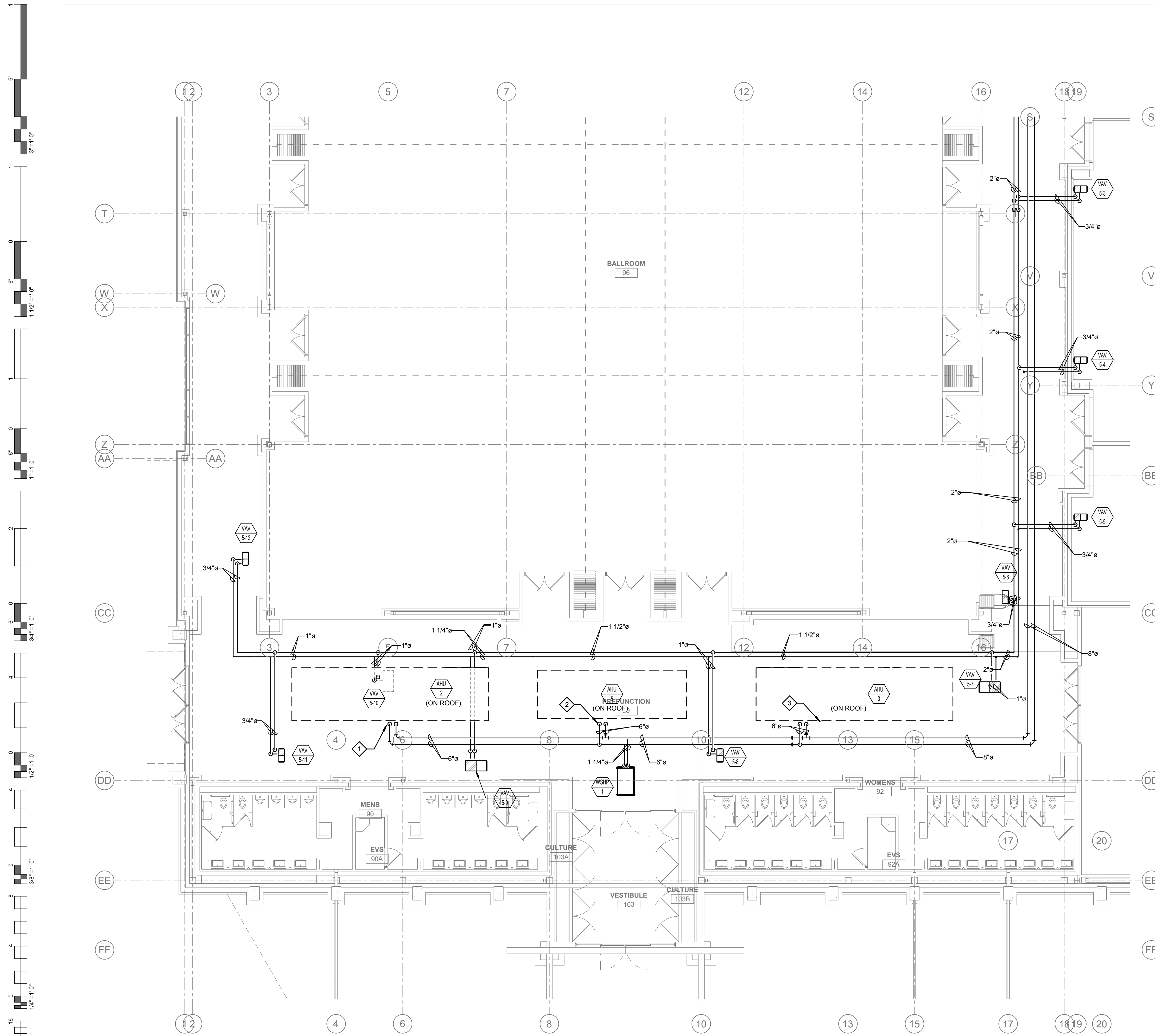
MECHANICAL PIPING
ENLARGED PLAN -
NORTH

GENERAL NOTES:

- ACCESS DOORS ARE REQUIRED FOR ALL VALVES INSTALLED ABOVE INACCESSIBLE CEILINGS. COORDINATE EXACT LOCATION OF ALL ACCESS DOORS WITH ARCHITECT PRIOR TO INSTALLATION.
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SHEET NOTES:

- 6" CS/CR PIPING UP TO AHU-2.
- 4" CS/CR PIPING UP TO AHU-5.
- 6" CS/CR PIPING UP TO AHU-3.



LEGEND
A - GAMING
B - SOUTH
C - BOH
D - BANQUET BOH
E - NORTH
F - CANOPY
G - CANOPY
H - CANOPY

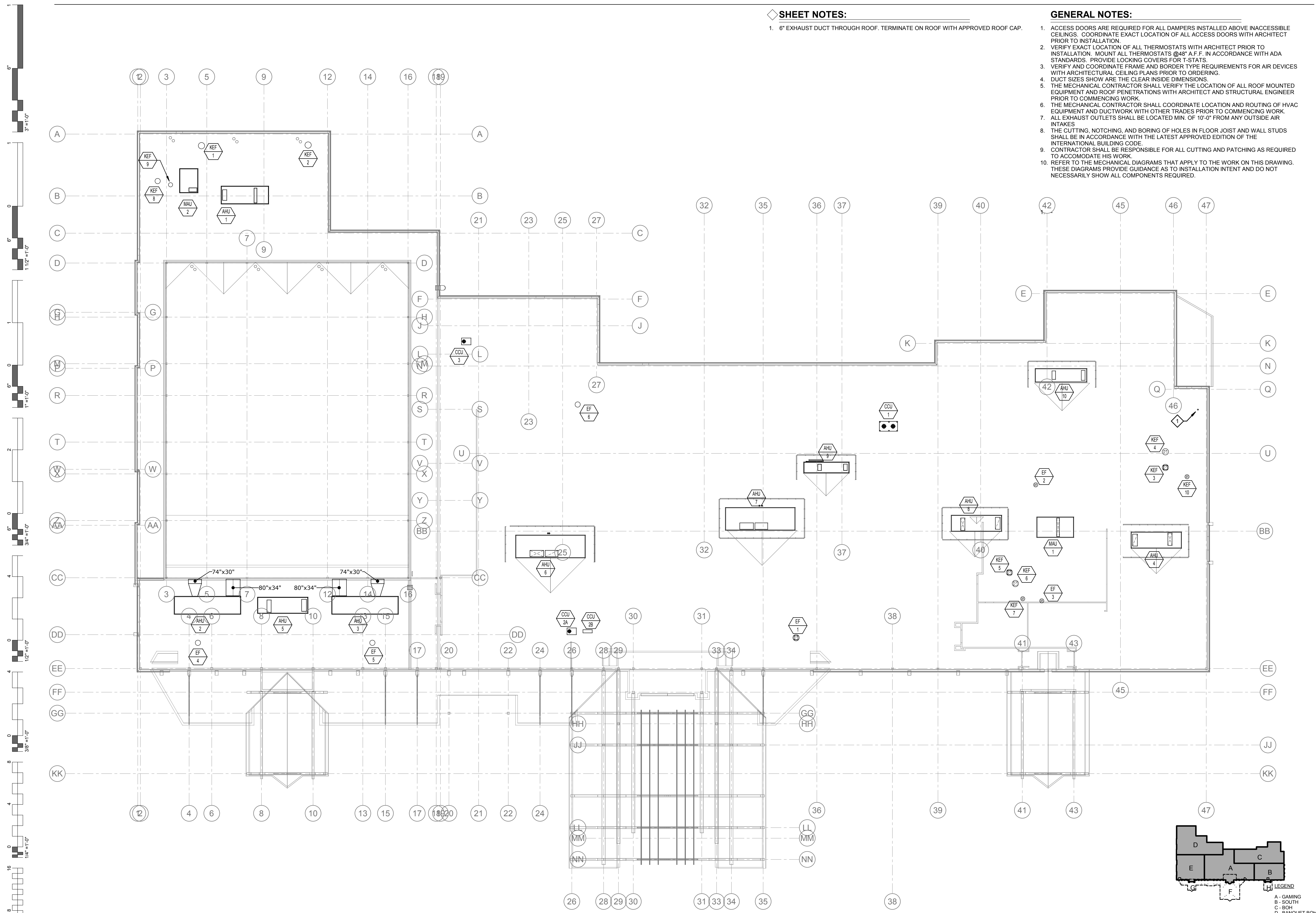
**MECHANICAL ENLARGED FLOOR PLAN -
NORTH**
1/8" = 1'-0"

SHEET NOTES:

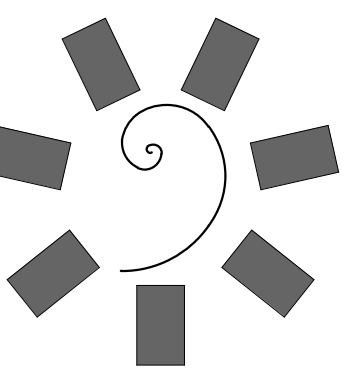
- 6" EXHAUST DUCT THROUGH ROOF. TERMINATE ON ROOF WITH APPROVED ROOF CAP.

GENERAL NOTES:

- ACCESS DOORS ARE REQUIRED FOR ALL DAMPERS INSTALLED ABOVE INACCESSIBLE CEILING. COORDINATE EXACT LOCATION OF ALL ACCESS DOORS WITH ARCHITECT PRIOR TO INSTALLATION.
- VERIFY EXACT LOCATION OF ALL THERMOSTATS WITH ARCHITECT PRIOR TO INSTALLATION. MOUNT ALL THERMOSTATS @48" A.F.F. IN ACCORDANCE WITH ADA STANDARDS. PROVIDE LOCKING COVERS FOR T-STATS.
- VERIFY AND COORDINATE FRAME AND BORDER TYPE REQUIREMENTS FOR AIR DEVICES WITH ARCHITECTURAL CEILING PLANS PRIOR TO ORDERING.
- DUCT SIZES SHOW ARE THE CLEAR INSIDE DIMENSIONS.
- THE MECHANICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL ROOF MOUNTED EQUIPMENT AND ROOF PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
- THE MECHANICAL CONTRACTOR SHALL COORDINATE LOCATION AND ROUTING OF HVAC EQUIPMENT AND DUCTWORK WITH OTHER TRADES PRIOR TO COMMENCING WORK.
- ALL EXHAUST OUTLETS SHALL BE LOCATED MIN. OF 10'-0" FROM ANY OUTSIDE AIR INTAKES.
- THE CUTTING, NOTCHING, AND BORING OF HOLES IN FLOOR JOIST AND WALL STUDS SHALL BE IN ACCORDANCE WITH THE LATEST APPROVED EDITION OF THE INTERNATIONAL BUILDING CODE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING AS REQUIRED TO ACCOMMODATE HIS WORK.
- REFER TO THE MECHANICAL DIAGRAMS THAT APPLY TO THE WORK ON THIS DRAWING. THESE DIAGRAMS PROVIDE GUIDANCE AS TO INSTALLATION INTENT AND DO NOT NECESSARILY SHOW ALL COMPONENTS REQUIRED.



1 Roof - Mechanical Roof Plan
1" = 20'-0"



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TAHLEQUAH CASINO
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PROJECT PHASE:

BID PACKAGE 05

#	DATE	REVISIONS DESCRIPTION

DATE: 05/03/18 JOB NUMBER: 17-06

SHEET NUMBER: M6.1

MECHANICAL ROOF PLAN