DRAWING INDICATORS

DETAIL NUMBER

1 / M01-23

DRAWING NUMBER WHERE DETAIL IS DRAWN

DETAIL INDICATION

SECTION NUMBER

1 / M01-23

DRAWING NUMBER WHERE DETAIL IS DRAWN

DIRECTION OF VIEW

SECTION INDICATION

POINT OF CONNECTION SYMBOL

POINT OF DISCONNECT SYMBOL

DRAWING ORGANIZATION

HVAC DISCIPLINE PREFIX
GROUP DESIGNATION
DRAWING NUMBER

M00-00	MECHANICAL LEGENDS & ABBREVIATIONS
M00-01	MECHANICAL SHEET LIST
M01-21	MECHANICAL AIRFLOW DIAGRAMS
M01-31	MECHANICAL WATER FLOW DIAGRAMS
M02-01	MECHANICAL DUCTWORK PLANS
M03-01	MECHANICAL PIPING PLANS
M04-01	MECHANICAL SECTIONS & ENLARGED PLANS
M05-21	MECHANICAL DUCTWORK DETAILS
M05-31	MECHANICAL PIPING DETAILS
M06-01	MECHANICAL SCHEDULES

APPLICABLE CODES

2021 ARKANSAS FIRE PREVENTION CODE
2017 NATIONAL ELECTRICAL CODE
2006 ARKANSAS FUEL GAS CODE
2006 ARKANSAS PLUMBING CODE
2010 ARKANSAS MECHANICAL CODE
2009 INTERNATIONAL ENERGY CODE

MECHANICAL EQUIPMENT LEGEND

MECHANICAL EQUIPMENT

EQUIPMENT CLEARANCE

DUCTWORK ACCESSORIES

AB-C, 1" Ø 123 CFM	SUPPLY DIFFUSER WITH TAG (TAG INCLUDES DIFFUSER TYPE, NECK SIZE AND CFM)
AB-C, 12X34 123 CFM	RETURN REGISTER WITH TAG (TAG INCLUDES REGISTER TYPE, NECK SIZE AND CFM)
AB-C, 12X34 123 CFM	EXHAUST REGISTER WITH TAG (TAG INCLUDES REGISTER TYPE, NECK SIZE AND CFM)
FD	FIRE DAMPER
FSD	FIRE SMOKE DAMPER
MD	MOTORIZED DAMPER
	MANUAL VOLUME DAMPER
	BACKDRAFT DAMPER

MECHANICAL ACCESSORIES

T	AIR THERMOSTAT, TEMPERATURE SENSOR; MOUNT AT 48" A.F.F. UNLESS OTHERWISE NOTED
H	HUMIDISTAT OR HUMIDITY SENSOR
P	PRESSURE SENSOR
S	SMOKE DETECTOR
FS	FLOW SWITCH
MS	MOTOR STARTER
BGS	BREAKGLASS STATION
MCC	MOTOR CONTROL CENTER
SP	DUCT STATIC PRESSURE SENSOR
PT	PRESSURE TRANSDUCER
T	TEMPERATURE TRANSMITTER
DP	DIFFERENTIAL PRESSURE SENSOR
ASD	ADJUSTABLE SPEED DRIVE
FM	FLOW METER
	HUMIDIFIER (DUCT MOUNTED)
AFM	AIR FLOW MEASURING STATION
LT	LEVEL METER (HYDROSTATIC)

PIPING ACCESSORIES

	HOSE END DRAIN VALVE W/ CAP AND CHAIN
AV	AUTOMATIC AIR VENT
MV	MANUAL AIR VENT
	AIR SEPARATOR
	ALIGNMENT GUIDE
	ANCHOR
	BLIND FLANGE END
	CAPPED PIPE
	ECCENTRIC PIPE INCREASER / REDUCER
	EXPANSION JOINT
	FLEXIBLE CONNECTOR
	FOOT VALVE
	VENTURI FLOWMETER
	PRESSURE GAUGE AND SHUT-OFF COCK
	STRAINER
	STRAINER WITH BLOW OFF VALVE W/ CAP AND CHAIN
	TEMPERATURE AND PRESSURE TEST PORT
	THERMOMETER
	PUMP

PIPING VALVE TYPES

BALL VALVE
BUTTERFLY VALVE
CALIBRATED BALANCING VALVE
CHECK VALVE
GATE VALVE
GLOBE VALVE
LUBRICATED PLUG VALVE
PRESSURE REDUCING VALVE
RELIEF VALVE
SELF CONTAINED CONTROL VALVE
THREE WAY CONTROL VALVE
TRIPLE DUTY VALVE
TWO WAY CONTROL VALVE
AUTOFLOW LIMITING VALVE
PRESSURE INDEPENDENT CONTROL VALVE
TECHNICAL WATERQUICK CONNECT FITTING

PIPING LINE TYPES

PLAN VIEW	DESCRIPTION	ABBREV.	SCHEMATIC VIEW
	CHILLED WATER SUPPLY	CHWS	
	CHILLED WATER RETURN	CHWR	
	CONDENSER WATER SUPPLY	CWS	
	CONDENSER WATER RETURN	CWR	
	TECHNOLOGY WATER SUPPLY	TWS	
	TECHNOLOGY WATER RETURN	TWR	
	REFRIGERANT SUPPLY	RL	
	REFRIGERANT RETURN	RS	
	MAKE-UP WATER	MUW	
	CONDENSATE	CD	
	RECYCLED WATER	RW	

DUCTWORK LINE TYPES

PLAN VIEW	DESCRIPTION	ABBREV.	SCHEMATIC VIEW
	SUPPLY AIR	SA	
	RETURN AIR/TRANSFER AIR	RA/TA	
	EXHAUST AIR	EA	

ABBREVIATIONS

AAV	AUTOMATIC AIR VENT
ACU	AIR CONDITIONING UNIT
ACC	AIR-COOLED CONDENSER
ACCH	AIR-COOLED CHILLER
ACCU	AIR-COOLED CONDENSING UNIT
AD	ACCESS DOOR
AF	AIR FILTER
AFF	ABOVE FINISHED FLOOR
AFM	AIR FLOW MEASURING DEVICE
AFMS	AIR FLOW MONITORING STATION
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
AS	AIR SEPARATOR
ASD	ADJUSTABLE SPEED DRIVE
BDD	BACK DRAFT DAMPER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER, BOILER HORSEPOWER
BMS	BUILDING MANAGEMENT SYSTEM
BTUH	BRITISH THERMAL UNITS PER HOUR
°C	DEGREES CELSIUS, CENTIGRADE
CA	COMPRESSED AIR
CC	COOLING COIL
CD	CEILING DIFFUSER, CONDENSATE DRAIN
CDP	CHEMICAL DOSING PUMP
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHS	CHEMICAL STORAGE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	COOLING
CO	CLEAN OUT
COND	CONDENS(ATE, ER, ING, ATION)
CONT	CONTINUES
CP	CONDENSATE PUMP
CRAH	COMPUTER ROOM AIR HANDLER
CSF	CHEMICAL SHOT FEEDER
CT	COOLING TOWER
CTA	CHEMICAL TREATMENT ANALYZER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONSTANT VOLUME, CONTROL VALVE
CW	COLD WATER, CONDENSER WATER
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DECIBELS, DRY BULB
DBT	DRY BULB TEMPERATURE
DC	DRY COOLER
DDC	DIRECT DIGITAL CONTROL
DIA	DIAMETER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DPT	DEW POINT TEMPERATURE
DS	DUCT SILENCER
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EADB	ENTERING AIR DRY BULB
EAT	ENTERING AIR TEMPERATURE
EAWB	ENTERING AIR WET BULB
EF	EXHAUST FAN
EFF	EFFICIENCY
EFT	ENTERING FLUID TEMPERATURE
EG	EXHAUST GRILLE
EHC	ELECTRIC HEATING COIL
EL	ELEVATION
ER	EXHAUST REGISTER
ERC	ENERGY RECOVERY COIL, ELECTRIC REHEAT COIL
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WALL HEATER
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
°F	DEGREES, FAHRENHEIT
FC	FLEX.CONNECTION, FORWARD CURVED
FCU	FAN COIL UNIT
FCV	FLOW CONTROL VALVE
FCW	FAN COIL WALL
FD	FIRE DAMPER, FLOOR DRAIN
FG	FLOOR GRILLE
FLA	FULL LOAD AMPS
FM	FLOW METER
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPT	FAN POWERED TERMINAL
FS	FLOW SWITCH
FSD	COMBINATION FIRE/SMOKE DAMPER
FT	FEET
FV	FACE VELOCITY
GAL	GALLONS
GEN	GENERATOR
GFS	GLYCOL FILL STATION
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRAINS (OF MOISTURE)
GSR	GLYCOL SOLUTION RETURN
GSS	GLYCOL SOLUTION SUPPLY
HC	HEATING COIL
HD	HEAD
HOA	HAND OFF AUTO
HP	HORSEPOWER, HEAT PUMP
HPC	HIGH PERFORMANCE COMPUTING
HRU	HEAT RECOVERY UNIT
HUM	HUMIDIFIER
HV	HEATING AND VENTILATING UNIT
HVAC	HEATING VENTILATION AIR CONDITIONING
HX	HEAT EXCHANGER
HZ	HERTZ
ID	INSIDE DIAMETER
IN	INCHES
INWC	INCHES WATER COLUMN
IRC	IN-ROW COOLERS
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LBS/HR	POUNDS PER HOUR
LD	LINEAR DIFFUSER
LF	LINEAR FOOT
LFT	LEAVING FLUID TEMPERATURE
LRA	LOCKED ROTOR AMPS
LSD	LINEAR SLOT DIFFUSER
LSR	LINEAR SLOT RETURN
LWT	LEAVING WATER TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	ONE THOUSAND BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CURRENT AMPACITY
MCV	MOTORIZED CONTROL VALVE
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MHP	MOTOR HORSEPOWER
MIN	MINIMUM
MISC	MISCELLANEOUS
MOCP	MAXIMUM OVERCURRENT PROTECTION
MS	MOTOR STARTER
MUA	MAKE-UP AIR
MUW	MAKE-UP WATER
MV	MANUAL VALVE, MANUAL VENT
MWP	MAKE-UP WATER PUMP
MWT	MAKE-UP WATER TANK
N/A	NOT APPLICABLE
NC	NOISE CRITERIA, NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NUMBER, NORMALLY OPEN
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAD	OUTSIDE AIR DAMPER
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
OE	OPEN ENDED
OED	OPEN ENDED DUCT
OPD	OVERCURRENT PROTECTION DEVICE
OS&Y	OUTSIDE SCREW AND YOKE
P	PUMP
PBD	PARALLEL BLADE DAMPER
PCHP	PRIMARY CHILLED WATER PUMP
PD	PRESSURE DROP
PDS	PRESSURE DIFFERENTIAL SWITCH
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH WATER GAUGE
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RDHX	REAR DOOR HEAT EXCHANGER
RF	RETURN AIR FAN
RG	RETURN GRILLE
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RL	REFRIGERANT LIQUID
RLA	RATED LOAD AMPS
RL&S	REFRIGERANT LIQUID & SUCTION
RMS	REFRIGERANT MONITORING SENSOR
ROG	REVERSE OSMOSIS
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
RV	RELIEF VALVE
SA	SUPPLY AIR
SCHP	SECONDARY CHILLED WATER PUMP
SCP	SYSTEM CONTROL PANEL
SD	SMOKE DAMPER, SMOKE DETECTOR
SF	SUPPLY AIR FAN, SQUARE FEET
SG	SPECIFIC GRAVITY, SUPPLY GRILLE
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SPS	STATIC PRESSURE SENSOR
SSEP	SOLID SEPARATOR
SSF	SIDE STREAM FILTER
TCP	TEMPERATURE CONTROL PANEL
TCC	TEMPERATURE CONTROL COMPRESSOR
TD	TEMPERATURE DIFFERENCE, TRANSFER DUCT
TEMP	TEMPERATURE, TEMPORARY
TO	TRANSFER OPENING
TS	TEMPERATURE SENSOR
TSTAT	THERMOSTAT
TYP	TYPICAL
UCD	UNDER CUT DOOR
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VOLT(S)
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER (MANUAL OPPOSED BLADE)
VEL	VELOCITY
VENT	VENTILATION, VENT
VTR	VENT THROUGH ROOF
W/	WITH
W	WATT
WB	WET BULB
WF	WATER FILTER
WMS	WIRE MESH SCREEN
WPD	WATER PRESSURE DROP

MECHANICAL SHEET LIST

SHEET NO.	SHEET NAME	CONCEPTUAL DESIGN	SCHEMATIC DESIGN	STEEL MILL ORDER	DESIGN DEVELOPMENT	FUTURE ISSUANCE	FUTURE ISSUANCE	FUTURE ISSUANCE	FUTURE ISSUANCE	FUTURE ISSUANCE	FUTURE ISSUANCE
M00-00	MECHANICAL LEGENDS AND ABBREVIATIONS	•	•		•						
M01-21	DATA HALL VENTILATION AIRFLOW DIAGRAM				•						
M01-23	EXPLOSION PREVENTION FLOW DIAGRAM				•						
M01-31	CHILLED WATER FLOW DIAGRAM - ROOF PLANTS 1-7, 4-10				•						
M01-32	CHILLED WATER FLOW DIAGRAM - ROOF PLANTS 2-8, 5-11				•						
M01-33	CHILLED WATER FLOW DIAGRAM - ROOF PLANTS 3-9, 6-12				•						
M01-34	HUMIDIFIER MAKEUP WATER FLOW DIAGRAM				•						
M01-35	SECONDARY FLUID FLOW DIAGRAM	•	•		•						
M01-41	CHILLED WATER FLOW DIAGRAM - DATA HALLS 1, 4, 7, 10				•						
M01-42	CHILLED WATER FLOW DIAGRAM - DATA HALLS 2, 5, 8, 11				•						
M01-43	CHILLED WATER FLOW DIAGRAM - DATA HALLS 3, 6, 9, 12				•						
M01-51	ROOF - MECHANICAL HEAT TRACE PLAN - SEGMENTS				•						
M01-52	EQUIPMENT PLATFORM - MECHANICAL HEAT TRACE PLAN - SEGMENTS				•						
M01-53	MECHANICAL HEAT TRACE PLAN - ENLARGED VIEWS				•						
M02-01	LEVEL 1 - MECHANICAL DUCTWORK PLAN - OVERALL		•		•						
M02-01A	LEVEL 1 - MECHANICAL DUCTWORK PLAN - SEGMENT A		•		•						
M02-01B	LEVEL 1 - MECHANICAL DUCTWORK PLAN - SEGMENT B		•		•						
M02-01C	LEVEL 1 - MECHANICAL DUCTWORK PLAN - SEGMENT C				•						
M02-01D	LEVEL 1 - MECHANICAL DUCTWORK PLAN - SEGMENT D				•						
M02-01E	LEVEL 1 - MECHANICAL DUCTWORK PLAN - SEGMENT E				•						
M02-01F	LEVEL 1 - MECHANICAL DUCTWORK PLAN - SEGMENT F				•						
M02-01G	LEVEL 1 - MECHANICAL DUCTWORK PLAN - SEGMENT G				•						
M02-01H	LEVEL 1 - MECHANICAL DUCTWORK PLAN - SEGMENT H				•						
M02-02	LEVEL 2 - MECHANICAL DUCTWORK PLAN - OVERALL		•		•						
M02-02A	LEVEL 2 - MECHANICAL DUCTWORK PLAN - SEGMENT A		•		•						
M02-02B	LEVEL 2 - MECHANICAL DUCTWORK PLAN - SEGMENT B		•		•						
M02-02C	LEVEL 2 - MECHANICAL DUCTWORK PLAN - SEGMENT C				•						
M02-02D	LEVEL 2 - MECHANICAL DUCTWORK PLAN - SEGMENT D				•						
M02-02E	LEVEL 2 - MECHANICAL DUCTWORK PLAN - SEGMENT E				•						
M02-02F	LEVEL 2 - MECHANICAL DUCTWORK PLAN - SEGMENT F				•						
M02-02G	LEVEL 2 - MECHANICAL DUCTWORK PLAN - SEGMENT G				•						
M02-02H	LEVEL 2 - MECHANICAL DUCTWORK PLAN - SEGMENT H				•						
M02-03	ROOF - MECHANICAL DUCTWORK PLAN - OVERALL				•						
M02-03B	ROOF - MECHANICAL DUCTWORK PLAN - SEGMENT B				•						
M02-03C	ROOF - MECHANICAL DUCTWORK PLAN - SEGMENT C				•						
M02-03D	ROOF - MECHANICAL DUCTWORK PLAN - SEGMENT D				•						
M02-03E	ROOF - MECHANICAL DUCTWORK PLAN - SEGMENT E				•						
M02-03F	ROOF - MECHANICAL DUCTWORK PLAN - SEGMENT F				•						
M02-03G	ROOF - MECHANICAL DUCTWORK PLAN - SEGMENT G				•						
M02-03H	ROOF - MECHANICAL DUCTWORK PLAN - SEGMENT H				•						
M03-01	LEVEL 1 - MECHANICAL PIPING PLAN - OVERALL		•		•						
M03-01A	LEVEL 1 - MECHANICAL PIPING PLAN - SEGMENT A				•						
M03-01B	LEVEL 1 - MECHANICAL PIPING PLAN - SEGMENT B				•						
M03-01C	LEVEL 1 - MECHANICAL PIPING PLAN - SEGMENT C	•	•		•						
M03-01D	LEVEL 1 - MECHANICAL PIPING PLAN - SEGMENT D		•		•						
M03-01E	LEVEL 1 - MECHANICAL PIPING PLAN - SEGMENT E		•		•						
M03-01F	LEVEL 1 - MECHANICAL PIPING PLAN - SEGMENT F		•		•						
M03-01G	LEVEL 1 - MECHANICAL PIPING PLAN - SEGMENT G		•		•						
M03-01H	LEVEL 1 - MECHANICAL PIPING PLAN - SEGMENT H		•		•						
M03-02	LEVEL 2 - MECHANICAL PIPING PLAN - OVERALL		•		•						
M03-02A	LEVEL 2 - MECHANICAL PIPING PLAN - SEGMENT A				•						
M03-02B	LEVEL 2 - MECHANICAL PIPING PLAN - SEGMENT B				•						
M03-02C	LEVEL 2 - MECHANICAL PIPING PLAN - SEGMENT C		•		•						
M03-02D	LEVEL 2 - MECHANICAL PIPING PLAN - SEGMENT D		•		•						
M03-02E	LEVEL 2 - MECHANICAL PIPING PLAN - SEGMENT E		•		•						
M03-02F	LEVEL 2 - MECHANICAL PIPING PLAN - SEGMENT F		•		•						
M03-02G	LEVEL 2 - MECHANICAL PIPING PLAN - SEGMENT G		•		•						
M03-02H	LEVEL 2 - MECHANICAL PIPING PLAN - SEGMENT H		•		•						
M03-03	ROOF - MECHANICAL PIPING PLAN - OVERALL		•		•						
M03-03C	ROOF - MECHANICAL PIPING PLAN - SEGMENT C	•	•		•						
M03-03D	ROOF - MECHANICAL PIPING PLAN - SEGMENT D		•		•						
M03-03E	ROOF - MECHANICAL PIPING PLAN - SEGMENT E		•		•						
M03-03F	ROOF - MECHANICAL PIPING PLAN - SEGMENT F		•		•						
M03-03G	ROOF - MECHANICAL PIPING PLAN - SEGMENT G		•		•						
M03-03H	ROOF - MECHANICAL PIPING PLAN - SEGMENT H		•		•						
M03-04	EQUIPMENT PLATFORM - MECHANICAL PIPING PLAN - OVERALL	•	•		•						
M03-04C	EQUIPMENT PLATFORM - MECHANICAL PIPING PLAN - SEGMENT C	•	•		•						
M03-04D	EQUIPMENT PLATFORM - MECHANICAL PIPING PLAN - SEGMENT D		•		•						
M03-04E	EQUIPMENT PLATFORM - MECHANICAL PIPING PLAN - SEGMENT E		•		•						
M03-04F	EQUIPMENT PLATFORM - MECHANICAL PIPING PLAN - SEGMENT F		•		•						
M03-04G	EQUIPMENT PLATFORM - MECHANICAL PIPING PLAN - SEGMENT G		•		•						
M03-04H	EQUIPMENT PLATFORM - MECHANICAL PIPING PLAN - SEGMENT H		•		•						
M04-01	MECHANICAL SECTIONS AND ENLARGED PLANS				•						
M04-02	MECHANICAL SECTIONS AND ENLARGED PLANS				•						
M05-21	MECHANICAL DUCTWORK DETAILS				•						
M05-22	MECHANICAL DUCTWORK DETAILS				•						
M05-31	MECHANICAL PIPING DETAILS				•						
M05-32	MECHANICAL PIPING DETAILS				•						
M05-33	MECHANICAL PIPING DETAILS				•						
M05-34	MECHANICAL PIPING DETAILS				•						
M06-01	MECHANICAL SCHEDULES		•		•						
M06-02	MECHANICAL SCHEDULES		•		•						
M06-03	MECHANICAL SCHEDULES		•		•						
M06-04	MECHANICAL SCHEDULES		•		•						
M06-05	MECHANICAL SCHEDULES		•		•						
M06-06	MECHANICAL SCHEDULES				•						

SHEETS: 86

serverfarm
CORGAN
TGRWA STRUCTURAL ENGINEERS
kW Mission Critical Engineering Member of WSP
EP ENGINEERING PLUS
Kimley»Horn

ISSUES

1	11.12.2025	CONCEPTUAL DESIGN
2	12.12.2025	SCHEMATIC DESIGN
4	1.23.2026	DESIGN DEVELOPMENT

REVISIONS

kW Mission Critical Engineering
Contact: K. DREWNOWSKI Phone: 601.451.2099
Engineer: K. COOPER
License #: 23615 Exp. Date: 00/00/0000

NOT FOR CONSTRUCTION

Date: 12/12/2025

SERVERFARM

Clarksville, AR

MECHANICAL LEGENDS AND ABBREVIATIONS

JOB US0049903.5614
SHEET

M00-00