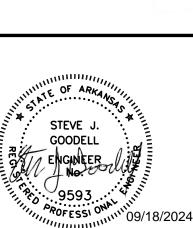
GENERAL NOTES				ABBREVIATIONS			HVAC DESIGN CRITERIA
A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR	AAV	AUTOMATIC AIR VENT	EXIST	EXISTING	OC	ON CENTER	PROJECT: CAMDEN OSD AEROJET ROCKETDYNE
CONSTRUCTION.	AC A/C	AIR COMPRESSOR AIR CONDITIONING	EXT F	EXTERNAL FAHRENHEIT	OD ODP	OUTSIDE DIAMETER OPEN DRIP PROOF	DESIGN CONDITIONS FROM ASHRAE FUNDAMENTALS 2021
B. WHERE CODES HAVE BEEN ESTABLISHED BY OSHA, UNDERWRITERS LABORATORY, AMERICAN CODES, ANSI, ASME, ASA, ASHRAE, ASTM, ARI,	ACC ACFM	AIR COOLED CHILLER ACTUAL CUBIC FEET PER MINUTE	FCU FD	FAN COIL UNIT FLOOR DRAIN	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	WEATHER STATION - HARRELL FIELD, AR, USA
NEC, NFPA, SMACNA, OR THE STATE FIRE INSURANCE REGULATORY BODY, FOLLOW THESE STANDARDS WHETHER OR NOT INDICATED ON	ADJ AFF	ADJUSTABLE ABOVE FINISHED FLOOR	FD FF	FIRE DAMPER FINAL FILTER	OZ P	OUNCE PUMP	STATION #: WMO 723425 ELEVATION: 132 FEET; LATITUDE: 33.617°N; LONGITUDE: 92.767°W
THE DRAWINGS.	AHU ALT	AIR HANDLING UNIT ALTERNATE	FH FLA	FILTER HOUSING FULL LOAD AMPS	PC P.C.	CONDENSATE PUMPED PLUMBING CONTRACTOR	ASHRAE CLIMATE ZONE 3A
C. PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITIONS,	ALUM AMF	ALUMINUM ABOVE MEZZANINE FLOOR	FLEX FLTR	FLEXIBLE FILTER	PD PDT	PRESSURE DROP PRESSURE DIFFERENTIAL TRANSMITTER	SITE SPECIFIC CONDITIONS AS PROVIDED BY AEROJET ROCKETDYNE: WINTER: 5°F DRY BULB
REVISIONS, AMENDMENTS OR SUPPLEMENTS OF APPLICABLE STATUTES, ORDINANCES, CODES, OR REGULATIONS OF FEDERAL, STATE AND LOCAL	AP AR	ACCESS PANEL AIR ROTATION UNIT	FP FPI	FIRE PUMP FINS PER INCH	PF PFB	PREFILTER PARALLEL FAN BOX	SUMMER: 105°F DRY BULB
AUTHORITIES HAVING JURISDICTION IN EFFECT ON THE DATE BIDS ARE RECEIVED.	ARCH ARS	ARCHITECT(URAL) ABOVE ROOF STRUCTURE	FPB FPM	FAN-POWERED BOX FEET PER MINUTE	PH PHC	PHASE PREHEAT COIL	93°F WET BULB
D. THE CONTRACTOR SHALL EXECUTE ALL WORK HEREINAFTER SPECIFIED	AS ASCP	AIR SEPARATOR BREATHING AIR SYSTEM CONTROL PANEL	FPS FPT	FEET PER SECOND FEMALE PIPE THREAD	PI P&ID	PRESSURE INDICATOR PIPING & INSTRUMENTATION DIAGRAM	INDOOR DESIGN CONDITIONS
OR INDICATED ON ACCOMPANYING DRAWINGS. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT NECESSARY AND USUALLY FURNISHED IN	ASD ASR	ADJUSTABLE SPEED DRIVE AUTOMATIC SPRINKLER RISER	FS FSD	FLOW SWITCH COMBINATION FIRE/SMOKE DAMPER	PLBG POC	PLUMBING POINT OF CONNECTION	PROCESS AREA
CONNECTION WITH SUCH WORK AND SYSTEMS WHETHER OR NOT MENTIONED SPECIFICALLY HEREIN OR ON THE DRAWINGS.	ASHRAE	AMERICAN SOCIETY OF HEATING, RE FRIGERATING AND AIR CONDITIONING	FT FV	FEET FACE VELOCITY	POD PPM	POINT OF DEMOLITION PARTS PER MILLION	WINTER: 70°F ± 2°F >20% RH, <40 GOM SUMMER: 70°F ± 2°F, >20% RH, <40 GOM
E. MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL	ATC	ENGINEERS AUTOMATIC TEMPERATURE CONTROL	GAL G.C.	GALLONS GENERAL CONTRACTOR	PROP PRV	PROPELLER PRESSURE REDUCING VALVE	TELECOM/IT ROOM WINTER: 68°F ± 2°F
BE NEW AND SHALL BEAR THE U.L. LABEL WHERE APPLICABLE UNLESS NOTED OTHERWISE.	AUTO AVG	AUTOMATIC AVERAGE	GFS GLYR	GLYCOL FEED SYSTEM GLYCOL RETURN	PSI PSIA	POUND PER SQUARE INCH POUND PER SQUARE INCH ABSOLUTE	SUMMER: 73°F ± 2°F, 50% ±5 RH ULITITY ROOM:
F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FITTING HIS MATERIAL	BACNET	BUILDING AUTOMATION & CONTROL	GLYS	GLYCOL SUPPLY	PSIG	POUND PER SQUARE INCH GAUGE	WINTER: 40°F SUMMER: +10°F AMBIENT TEMPERATURE
AND APPARATUS INTO THE BUILDING AND SHALL CAREFULLY LAY OUT HIS WORK AT THE SITE TO CONFORM TO THE STRUCTURAL CONDITIONS, TO		NETWORK BUILDING AUTOMATION SYSTEM	GOM GPM	GRAINS OF MOISTURE GALLONS PER MINUTE	PVC	PRESSURE TRANSMITTER POLYVINYL CHLORIDE	ENERGY CODE COMPLIANCE
AVOID ALL OBSTRUCTIONS, TO CONFORM TO THE DETAILS OF THE INSTALLATION AND THEREBY TO PROVIDE AN INTEGRATED	B.C. BFV	BALANCING CONTRACTOR BUTTERFLY VALVE	GPH GR	GALLONS PER HOUR GRILLE	RA RA	REGISTER/GRILLE RETURN AIR	THE HVAC LOADS WERE PERFORMED IN ACCORDANCE WITH ASHRAE
SATISFACTORY OPERATING INSTALLATION.	BHP BIP	BRAKE HORSEPOWER BLACK IRON PIPE	GUH GV	GAS UNIT HEATER GAS VENT	R/A RAT	RELIEF AIR RETURN AIR TEMPERATURE	FUNDAMENTALS. ENERGY CALCULATIONS WERE PERFORMED IN ACCORDANCE
G. THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS ARE	BLDG BLV	BUILDING BALANCING VALVE	H/HT H2	HEIGHT HYDROGEN	RCP RD	REFLECTED CEILING PLAN RELIEF DAMPER	WITH 2014 ARKANSAS ENERGY CODE, WHICH ADOPTS 2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC).
NECESSARILY DIAGRAMMATIC BY THEIR NATURE, AND ARE NOT INTENDED TO SHOW EVERY CONNECTION IN DETAIL OR EVERY PIPE OR	BOD BOP	BOTTOM OF DUCT BOTTOM OF PIPE	HB HC	HOSE BIBB HEATING COIL	RE RED	REMOTE EVAPORATOR REDUCE(D)	DRAWING/DETAIL REFERENCE KEY
CONDUIT IN ITS EXACT LOCATION. THESE DETAILS ARE SUBJECT TO THE REQUIREMENTS OF STANDARDS REFERENCED ELSEWHERE IN THESE	BT BTU	BUFFER TANK BRITISH THERMAL UNIT	HD HEPA	HEAD HIGH EFFICIENCY PARTICULATE AIR FILTER	REV REG	REVISE(Ď)/REVISION REGISTER	REFER TO
SPECIFICATIONS, AND STRUCTURAL AND ARCHITECTURAL CONDITIONS.	BTUH BV	BTU'S PER HOUR BALL VALVE	HG HOA	HUMIDIFIER STEAM DISPERSION GRID HAND/OFF/AUTO	RH RHC	RELATIVE HUMIDITY REHEAT COIL	DRAWING/DETAIL NUMBER—
H. THE CONTRACTOR SHALL CAREFULLY INVESTIGATE STRUCTURAL AND FINISH CONDITIONS AND SHALL COORDINATE THE SEPARATE TRADES IN	C CA	CELSIUS COMPRESSED AIR	HPC	HORSEPOWER HIGH PRESSURE CONDENSATE	RL RLA	REFRIGERATED LIQUID LINE RUNNING LOAD AMPS	SHEET NUMBER ON WHICH DETAIL IS
ORDER TO AVOID INTERFERENCE BETWEEN THE VARIOUS PHASES OF WORK. WORK SHALL BE ORGANIZED AND LAID OUT SO THAT IT WILL BE	CBF CC	CHEMICAL BYPASS FEEDER COOLING COIL	HPV	HIGH POINT VENT HOUR	RPM	ROTATIONS PER MINUTE REFRIGERATED SUCTION LINE	RE: 2 / M-201 DRAWN
CONCEALED IN FURRED CHASES AND SUSPENDED CEILINGS, ETC., IN FINISHED PORTIONS OF THE BUILDING, UNLESS SPECIFICALLY NOTED	CL CLG	CENTERLINE	HTG HVAC	HEATING	RSD	REGISTER/GRILLE SMOKE DETECTOR	PIPING LABELS
OTHERWISE. ALL EXPOSED WORK SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO THE LINES OF THE BUILDING UNLESS OTHERWISE	CLG.	CEILING COOLING		HEATING, VENTILATING, AND AIR CONDITIONING	RTD RTU	REFRIGERANT DETECTOR ROOFTOP UNIT	AR ARGON
NOTED.	CFM CH	CUBIC FEET PER MINUTE CHILLER	HVLS HWR	HIGH-VOLUME LOW-SPEED FAN HEATING WATER RETURN	SA	SUPPLY AIR SUPPLY AIR TEMPERATURE	—CHWS— CHILLED WATER SUPPLY
I. WHEN THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS DO NOT GIVE EXACT DETAILS AS TO THE ELEVATION OF PIPE, CONDUIT AND	CHW	CHILLER UNIT CHILLED WATER	HWS HX	HEATING WATER SUPPLY HEAT EXCHANGER	SCCR SCFM	SHORT CIRCUIT CURRENT RATING STANDARD CUBIC FEET PER MINUTE AT	—CHWR— CHILLED WATER RETURN
DUCTS, THE CONTRACTOR SHALL PHYSICALLY ARRANGE THE SYSTEMS	CHWR CHWS	CHILLED WATER RETURN CHILLED WATER SUPPLY	HZ I	HERTZ INTAKE	SD	SEA LEVEL CONDITIONS SMOKE DETECTOR	—CON— STEAM CONDENSATE
TO FIT IN THE SPACE AVAILABLE AT THE ELEVATIONS INTENDED WITH PROPER GRADES FOR THE FUNCTIONING OF THE SYSTEM INVOLVED.	C.M. CO	CONSTRUCTION MANAGER CARBON MONOXIDE	ID IE	INSIDE DIAMETER INVERT ELEVATION	SEER SENS	SEASONAL ENERGY EFFICIENCY RATIO SENSIBLE	—CWS— CONDENSER WATER SUPPLY —CWR— CONDENSER WATER RETURN
J. PIPING, EXPOSED CONDUIT AND THE DUCT SYSTEMS ARE GENERALLY	CO2 CP	CARBON DIOXIDE CONDENSING PUMP	IEER IH	INTEGRATED ENERGY EFFICIENCY RATIO INTAKE HOOD	SF S.F.	SUPPLY FAN SAFETY FACTOR	——CWR—— CONDENSER WATER RETURN ——HWS—— HEATING WATER SUPPLY
INTENDED TO BE INSTALLED TRUE AND SQUARE TO THE BUILDING CONSTRUCTION, AND LOCATED AS HIGH AS POSSIBLE AGAINST THE	CRP CT	CONDENSATE RETURN PUMP COOLING TOWER	IN INC	INCHE(S) INCREASE	SFB SMACNA	SERIES FAN BOX SHEET METAL & AIR CONDITIONING	—HWR— HEATING WATER RETURN
STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE DRAWINGS DO NOT SHOW ALL REQUIRED OFFSETS, CONTROL LINES, PILOT LINES AND	CUET	CONDENSING UNIT CUBIC FEET	IV KW	COMBUSTION AIR INTAKE VENT KILOWATT	SMD	CONTRACTORS NATIONAL ASSOCIATION SMOKE DAMPER	—HYDS— HYDRAULIC SUPPLY
OTHER LOCATION DETAILS. WORK SHALL BE CONCEALED IN ALL FINISHED AREAS.	CU IN	CUBIC INCHES CONTROL VALVE	KVA	KILOVOLT AMPERE LENGTH	SOO	SEQUENCE OF OPERATION STATIC PRESSURE	—HYDR— HYDRAULIC RETURN
K. TEST AND BALANCE SHALL BE PERFORMED FOR THE HVAC SYSTEMS FOR	CWS	CONDENSING WATER SUPPLY CONDENSING WATER RETURN	LAT	LEAVING AIR TEMPERATURE POUND(S)	SPEC SPK	SPECIFICATIONS SPRINKLER	——CA—— COMPRESSED AIR ——CD—— CONDENSATE DRAIN
DESIGNATED AIR SHALL BE N.E.B.B. APPROVED. SUBMIT REPORT ON N.E.B.B. FORMS FOR APPROVAL BY THE ENGINEER.	D	DRAIN FROM EQUIPMENT	LDB	LEAVINĠ DRY BULB TEMPERATURE	SQ	SQUARE	——D—— DRAIN
	DBA	DRY BULB DECIBEL SOUND SCALE	LFT LRA	LEAVING FLUID TEMPERATURE LOCKED ROTOR AMPS	SQ FT/SF SQ IN	SQUARE INCHES	——GS—— GLYCOL SUPPLY
	DC DDC	DRY COOLER DIRECT DIGITAL CONTROL	LV LVG	LOUVER LEAVING	SSAU	STAINLESS STEEL SPLIT SYSTEM AIR UNIT	——GR—— GLYCOL RETURN ——MU—— MAKE-UP WATER
	DET DIA	DETAIL DIAMETER	LWB LWT	LEAVING WET BULB TEMPERATURE LEAVING WATER TEMPERATURE	SSCU STD	SPLIT SYSTEM CONDENSING UNIT STANDARD	——N—— NITROGEN
	DIFF DISC.	DIFFUSER DISCONNECT	M MA	MOTORIZED OPERATOR MAKEUP AIR UNIT	STL STR	STEEL STRAINER	RL REFRIGERANT LIQUID
	DN DWG	DOWN DRAWING	MAX MBH	MAXIMUM THOUSAND BTU/HOUR	SV T	STEAM VENT TRANSFER REGISTER	RS REFRIGERANT SUCTIONRFR RADIANT FLOOR HEATING WATER RETURN
	DU DX	DEHUMIDIFIER DIRECT EXPANSION	M.C. MCA	MECHANICAL CONTRACTOR MINIMUM CIRCUIT AMPS	TEFC TEMP	TOTALLY ENCLOSED FAN COOLED TEMPERATURE	—RFS— RADIANT FLOOR HEATING WATER SUPPLY
	EA EA.	EXHAUST AIR EACH	MD MDU	MOTORIZED DAMPER MECHANICAL DEHUMIDIFICATION UNIT	TEV TF	THERMAL EXPANSION VALVE TRANSFER AIR FAN	—SMR— SNOW MELT HEATING WATER RETURN
	EAT EAT	EXHAUST AIR TEMPERATURE ENTERING AIR TEMPERATURE	MECH MFG(R)	MECHANICAL MANUFACTURER	TG TOD	TEMPERATURE GAUGE TOP OF DUCT	——SMS—— SNOW MELT HEATING WATER SUPPLY ——STM—— STEAM
	EB EC	ELECTRIC POWERED BOILER ELECTRICAL CONTRACTOR	MIN MISC	MINIMUM MISCELLANEOUS	TOP	TOP OF PIPE TOTAL	
	ECM EDB	ELECTRICAL CONTRACTOR ELECTRICALLY COMMUTATED MOTOR ENTERING DRY BULB TEMPERATURE	MOCP N/A	MAXIMUM OVER CURRENT PROTECTION NOT APPLICABLE	TR	TEMPERATURE RISE TOTAL STATIC PRESSURE	——AAA— EXISTING PIPE, "AAA" DENOTES TYPE
	EER	ENERGY EFFICIENCY RATIO	N.C.	NORMALLY CLOSED	TTD	TIGHT TO DECK	— AAA — UNDERGROUND PIPE, "AAA" DENOTES TYPE
	EFT	EXHAUST FAN ENTERING FLUID TEMPERATURE	NG NG	NOISE CRITERIA NATURAL GAS NOT IN CONTRACT	TYP	TIGHT TO STRUCTURAL JOISTS TYPICAL	
	EH	EXHAUST HOOD ELEVATION	NIC N.O.	NOT IN CONTRACT NORMALLY OPEN	V	UNDERGROUND VOLTS	
	ELEC ELEV	ELECTRIC(AL) ELEVATION	NO. NOX	NUMBER NITROGEN OXIDE	VAV VD	VARIABLE AIR VOLUME VOLUME DAMPER	
	ENT EQ	ENTERING EQUAL/EQUIVALENT	NPT NPSH	NOMINAL PIPE THREAD NET POSITIVE SUCTION HEAD	VFD VOL	VARIABLE FREQUENCY DRIVE VOLUME	
	EQUIP ESP	EQUIPMENT EXTERNAL STATIC PRESSURE	NPSHA NPSHR	NET POSITIVE SUCTION HEAD AVAILABLE NET POSITIVE SUCTION HEAD REQUIRED	W. W	WIDTH WATTS	
	EXH EXT	EXHAUST EXPANSION TANK	NTS O3	NOT TO SCALE OZONE	W/ W/OUT	WITH WITHOUT	
	EUH	ELECTRIC UNIT HEATER COMBUSTION EXHAUST VENT	OA OAT	OUTSIDE AIR OUTSIDE AIR TEMPERATURE	WB WCC	WET BULB WATER COOLED CHILLER	
	EWB EWT	ENTERING WET BULB TEMPERATURE ENTERING WATER TEMPERATURE	OBD	OPPOSED BLADE DAMPER	WG	WATER GAUGE	







1999 Bryan Street Suite 3500 Dallas, TX 75201 Tel: 214-638-0145 Fax: 214-638-0447 Entity: Jacobs Engineering Group Inc. License Exp Date: 12/31/2024

1Sas NO. DATE REVISION DSGN DSGN
--

GMLRS Camden OSD Calhoun County, Arkansas Aerojet Rocketdyne

MECHANICAL ENERAL NOTES & ABBREVIATION

ET NO

LE NTS
E 09/18/2024
J D3754502