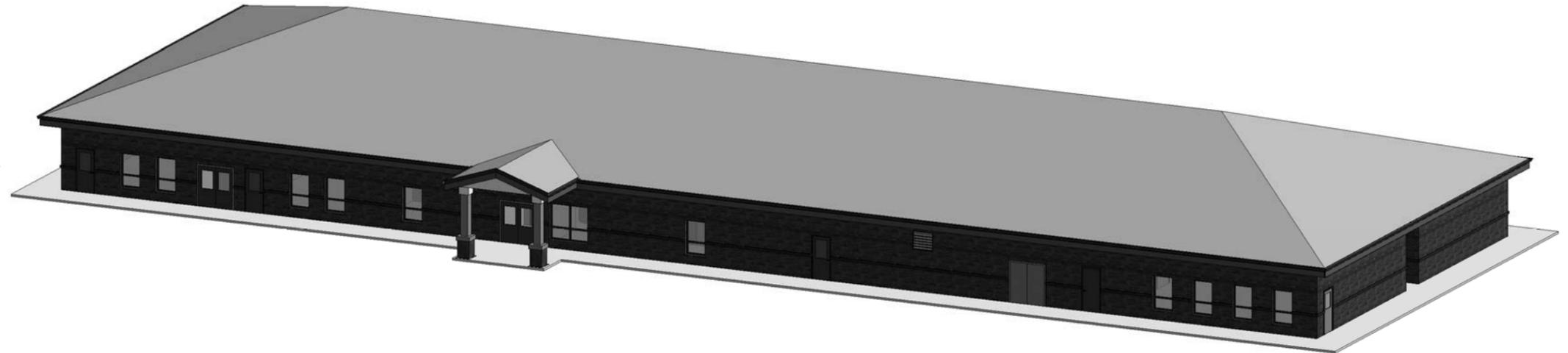




**US Army Corps of
Engineers®**
ENGINEERING AND SUPPORT CENTER
HUNTSVILLE, AL



CHILD DEVELOPMENT CENTER (CDC) STANDARD DESIGN, SMALL 0 - 5 YEARS OLD

CENTER OF STANDARDIZATION

LOCATION:

CONTRACT NUMBER : N/A

SOLICITATION NUMBER : N/A

PREPARED: JUNE 2014

STATUS: 65% ENERGY CONSERVATION
DESIGN PACKAGE

*LEED/SUSTAINABLE DESIGN FEATURES HAVE BEEN CONSIDERED FOR THIS PROJECT.
ANTICIPATE LEED: 56 CREDIT POINTS.

U.S. ARMY CORPS OF ENGINEERS ENGINEERING AND SUPPORT CENTER, HUNTSVILLE			
DISCIPLINES	DESIGNERS	REVIEWERS	SUPERVISORS
STRUCTURAL	MOLLY RICHARDSON/ JEFF HOKI	JOSH UMPHREY	JEFF COULSTON
ARCHITECTURAL	ERIN ZEANAH/ ELIZABETH STILES	JAY CLARK	TODD DUVERNAY
MECHANICAL PLUMBING FIRE PROTECTION	JOHN STEVENS	BRIAN SIMPKINS	ROD BRIDGEMAN
ELECTRICAL TELECOMMUNICATIONS SECURITY	KAREN SHOCKLEY	TBD	JEFF ZYSK

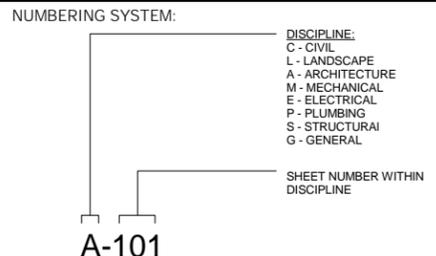
APPROVALS	SIGNATURES
BCOE BY	
REVIEWED BY (DIVISION CHIEF-MECH/ELEC)	
REVIEWED BY (DIVISION CHIEF-CIVIL/STRUC)	
RECOMMENDED BY (DIR OF ENGINEERING)	
APPROVED BY (COMMANDER)	

THIS PROJECT WAS DESIGNED BY THE U.S. ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE, OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATIONS OF INDIVIDUALS APPEAR ON THESE DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110-1-8152 AND CEHNC 1110-1-1.

DRAWING ABBREVIATIONS

A A LABEL CLASS A DOOR A/C AIR CONDITION A/C UNIT AIR CONDITIONING UNIT A/E ARCHITECT/ENGINEER AB ANCHOR BOLT ACC ACCESSIBLE ACS AUTOMATIC CONTROL SYSTEM ACT ACOUSTICAL CEILING TILE ADA AMERICANS WITH DISABILITIES ACT ADMIN ADMINISTRATION AFC ABOVE FINISHED FLOOR AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AFS ABOVE FINISHED SLAB AGGR AGGREGATE AHU AIR HANDLING UNIT ALT ALTERNATE ALUM ALUMINUM ANOD ANODIZE APPROX APPROXIMATE AR AS REQUIRED ARCH ARCHITECT ASC ABOVE SUSPENDED CEILING ASSY ASSEMBLY ATC ACOUSTICAL TILE CEILING AVG AVERAGE	F FAS BD FASCIA BOARD FC BRK FACE BRICK FCO FLOOR CLEANOUT FD FLOOR DRAIN FDN FOUNDATION FE FIRE EXTINGUISHER FEC FIRE EXTINGUISHER CABINET FF FINISH FACE FF EL FINISH FLOOR ELEVATION FF INSUL FOIL BACKED INSULATION FGL FIBERGLASS FH FIRE HOSE FHP FULL HEIGHT PARTITION FIN FINISH FIN BS FINISH BOTH SIDES FIN FLR FINISH FLOOR FIN GR FINISH GRADE FIXT FIXTURE FLDG FOLDING FLEX FLEXIBLE FLG FLOORING FLMT FLUSH MOUNT FLR FLOOR FOC FACE OF CONCRETE FOM FACE OF MASONRY FR FIRE RESISTANT FRG FIBER REINFORCED GYPSUM FRMG FRAMING FRTW FIRE RETARDANT TREATED WOOD FSTNR FASTENER FT FEET FTG FOOTING FWC FABRIC WALLCOVERING	P PAT PATTERN PB PULL BOX PBD PARTICLEBOARD PCC PRECAST CONCRETE PCF POUNDS PER CUBIC FOOT PCT PERCENT PERF PERFORATED PERIM PERIMETER PH PHASE PIL PILASTER PL PROPERTY LINE PLAM PLASTIC LAMINATE PLAS PLASTER PLBG PLUMBING PLG PILING PLWYD PLYWOOD PNL PANEL PP PL PUSH/PULL PLATE PR PAIR PRCST PRECAST PRKG PARKING PS CONC PRESTRESSED CONCRETE PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PT PRESSURE TREATED PTD PAPER TOWEL DISPENSER PTDR PAPER TOWEL DISPENSER AND RECEPTACLE PTN PARTITION PWR POWER
B BALC BALCONY BB BASEBOARD BD BOARD BDRY BOUNDARY BFF BELOW FINISH FLOOR BHMA BUILDER'S HARDWARE MANUFACTURER'S ASSOCIATION BLDG BUILDING BLKG BLOCKING BLT IN BUILT-IN BOS BOTTOM OF STEEL BOT BOTTOM BRKT BRACKET BSMT BASEMENT BTWN BETWEEN	G G NATURAL GAS GALV GALVANIZED GB GRAB BAR GLZ GLAZING GR FL GROUND FLOOR GUT GUTTER GYP BD GYPSUM BOARD GYP PLAS GYPSUM PLASTER	R R RADIUS RB RESILIENT BASE RBM REINFORCED BRICK MASONRY RBR RUBBER RC REINFORCED CONCRETE RCP REFLECTED CEILING PLAN RD ROOF DRAIN RDG INS RIGID INSULATION, SOLID REC RECESSED REC ROOM RECREATION ROOM REF REFERENCE REM REMOVABLE REP REPAIR REPL REPLACE REQ REQUIRE REQD REQUIRED RESIL RESILIENT REST RESTROOM RF RESILIENT FLOORING RFG ROOFING RH ROOF HATCH RHR RIGHT HAND REVERSE RL ROOF LEADER RLG RAILING RM ROOM RO ROUGH OPENING RSD ROLLING STEEL DOOR RV ROOF VENT RVL REVEAL
C C CONC CAST CONCRETE CAB CABINET CAV CAVITY CD CONSTRUCTION DOCUMENTS CDW CHILLED DRINKING WATER CEM PLAS CEMENT PLASTER CER CERAMIC CF CONTRACTOR FURNISHED CFICI CONTRACTOR FURNISHED/CONTRACTOR INSTALLED CFE CONTRACTOR FURNISHED EQUIPMENT CFLG COUNTERFLASHING CFM CUBIC FEET PER MINUTE CFMF COLD-FORMED METAL FRAMING CFS CUBIC FEET PER SECOND CG CORNER GUARD CI CAST IRON CIP CAST-IN-PLACE CJ CONTROL JOINT CL CENTER LINE CLG CEILING CLG DIFF CEILING DIFFUSER CLG HT CEILING HEIGHT CLL COLUMN LINE CLO CLOSET CLR COLOR CLM CLASSROOM CMU CONCRETE MASONRY UNIT CND CONDENSATE CNR CARD READER CO CLEANOUT COL COLUMN COMM COMMUNICATION CONC CONCRETE CONC FLR CONCRETE FLOOR CONF CONFERENCE CONT CONTINUE COORD COORDINATE CORR CORRIDOR CP CONCRETE PIPE CPT CARPET CSWK CASEWORK CT CERAMIC TILE CTB CERAMIC TILE BASE CTF CERAMIC TILE FLOOR CTR CENTER CU FT CUBIC FEET CW CASEMENT WINDOW	H HB HOSE BIBB HM HOLLOW METAL HMD HOLLOW METAL DOOR HORIZ HORIZONTAL HT HEIGHT	Q QT QUARRY TILE QTY QUANTITY
D D DEPTH DBL DOUBLE DEMO DEMOLITION DEPT DEPARTMENT DET DETAIL DIA DIAMETER DIM DIMENSION DIR DIRECTION DIST DISTANCE DOC DOCUMENT DR DOOR DS DOWNSPOUT	I IBC INTERNATIONAL BUILDING CODE INSUL INSULATION INT INTERIOR	T T TREAD TEL TELEPHONE TEMP TEMPORARY TER TERRAZZO TFF TOP OF FINISH FLOOR THK THICKNESS TK BD TACKBOARD TMP GL TEMPERED GLASS TN TRUE NORTH TOF TOP OF FOOTING TOM TOP OF MASONRY TOPO TOPOGRAPHY TOS TOP OF SLAB TRTD TREATED TV TELEVISION TYP TYPICAL
E E LABEL CLASS E DOOR EA EACH EF EACH FACE EIFS EXTERIOR INSULATION AND FINISH SYSTEM EJ EXPANSION JOINT ES EACH SIDE EL ELEVATION ELEV ELEVATOR ENTR ENTRANCE EPS EXPANDED POLYSTYRENE BOARD (INSULATION) EQ EQUAL E.W. EACH WAY EWC ELECTRIC WATER COOLER EXP EXPOSED EXT EXTERIOR EXT EXTINGUISHER EXT GR EXTERIOR GRADE	J JAN JANITOR	U U-VALUE THERMAL TRANSMITTANCE
M MACH RM MACHINE ROOM MATL MATERIAL MAX MAXIMUM MC MOISTURE CONTENT MD METAL DECK MECH MECHANICAL MECH RM MECHANICAL ROOM MEMB MEMBRANE MF MILL FINISH MFR MANUFACTURER MID MIDDLE MIN MINIMUM, MINUTE MIRR MIRROR MISC MISCELLANEOUS MLDG MOLDING (MOULDING) MO MASONRY OPENING MOD MODIFY MB MOISTURE BARRIER MTG MOUNTING MTL METAL MVB MOVABLE MWP MEMBRANE WATERPROOFING	K KIT KITCHEN KPL KICKPLATE	S SB SPLASH BLOCK SCHED SCHEDULE SD SMOKE DETECTOR SF SQUARE FOOT (FEET) SFTWD SOFTWOOD SGL SINGLE SHT MTL FLASH SHEET METAL (FLASHING) SHTG SHEATHING SHV SHELVING SIM SIMILAR SKLT SKYLIGHT SLNT SEALANT SMK SMOKE SMLS SEAMLESS SP EL SPOT ELEVATION SPEC SPECIFICATION SQ SQUARE SQ IN SQUARE INCH SQ YD SQUARE YARD SST STAINLESS STEEL ST STAIRS STD STANDARD STL JST STEEL JOIST STL RF DK STEEL ROOF DECK STOR STORAGE SUB FL SUBFLOOR SV SHEET VINYL SW SIDEWALK

INDEX OF DRAWINGS

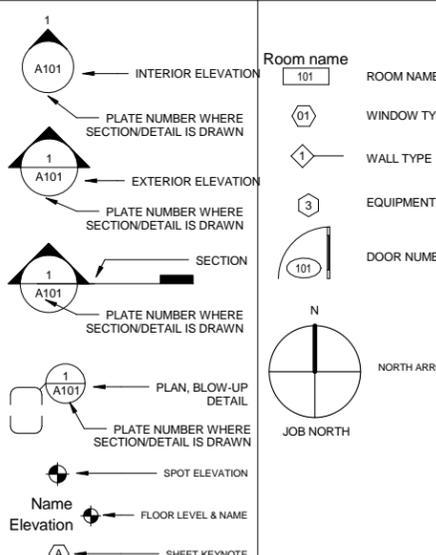


LEGEND

MATERIALS

	CONCRETE/ PRECAST CONCRETE		EXTRUDED POLYSTYRENE RIGID INSULATION
	SOIL		POLYISOCYANURATE RIGID INSULATION
	SAND, EIFS FINISH COAT, OR CEMENT BRICK		GYPSUM BOARD
	CMU		EXTERIOR GYPSUM SHEATHING
	STONE		EXTERIOR CEMENT BOARD
	FIBERGLASS BATT INSULATION		COATED GLASS
	FIBERGLASS SEMI RIGID INSULATION		MAT WATER RESISTANT GYP BD
	MINERAL WOOL SEMI RIGID INSULATION		PLYWOOD
	EXPANDED POLYSTYRENE RIGID INSULATION		COVER BOARD

ANNOTATION CALLOUTS/DRAWING SYMBOLS



CEILING SYMBOLS

	2' x 2' ACT CEILING		RETURN AIR GRILLE
	4' x 4' ACT CEILING		SUPPLY AIR GRILLE
	1' x 1' ACT CEILING		EXHAUST AIR GRILLE
	GYP. BD. CEILING		EXIT LIGHT
	2 x 4 LIGHT FIXTURE		
	2 x 2 LIGHT FIXTURE		
	SUSP. FLUORESCENT LIGHT		

LEED 2009 for New Construction and Major Renovation
Project Checklist
Project Name: CDC 0-5
Date:

10	16	Sustainable Sites	Possible Points: 26	Materials and Resources, Continued			
Y	1	Prereq 1	Construction Activity Pollution Prevention Site Selection	2	Credit 4	Recycled Content	1 to 2
2	2	Credit 2	Development Density and Community Connectivity	5	1	Regional Materials	1 to 2
5	1	Credit 3	Brownfield Redevelopment	1	1	Rapidly Renewable Materials	1
6	1	Credit 4.1	Alternative Transportation—Public Transportation Access	6	1	Certified Wood	1
1	1	Credit 4.2	Alternative Transportation—Bicycle Storage and Changing Rooms	1			
3	1	Credit 4.3	Alternative Transportation—Low-Emitting and Fuel-Efficient Vehicles	3			
2	2	Credit 4.4	Alternative Transportation—Parking Capacity	2			
1	1	Credit 5.1	Site Development—Protect or Restore Habitat	1			
1	1	Credit 5.2	Site Development—Maximize Open Space	1			
1	1	Credit 6.1	Stormwater Design—Quantity Control	1			
1	1	Credit 6.2	Stormwater Design—Quality Control	1			
1	1	Credit 7.1	Heat Island Effect—Non-roof	1			
1	1	Credit 7.2	Heat Island Effect—Roof	1			
1	1	Credit 8	Light Pollution Reduction	1			
4	6	Water Efficiency	Possible Points: 10				
Y	2	Prereq 1	Water Use Reduction—20% Reduction	2	2 to 4		
2	2	Credit 1	Water Efficient Landscaping	2			
2	2	Credit 2	Innovative Wastewater Technologies	2			
2	2	Credit 3	Water Use Reduction	2 to 4			
19	16	Energy and Atmosphere	Possible Points: 35				
Y	1	Prereq 1	Fundamental Commissioning of Building Energy Systems	2	4		
Y	1	Prereq 2	Minimum Energy Performance	1			
Y	1	Prereq 3	Fundamental Refrigerant Management	1			
12	7	Credit 1	Optimize Energy Performance	1 to 19			
2	2	Credit 2	On-Site Renewable Energy	1 to 7			
2	2	Credit 3	Enhanced Commissioning	2			
3	2	Credit 4	Enhanced Refrigerant Management	2			
3	2	Credit 5	Measurement and Verification	3			
2	2	Credit 6	Green Power	2			
6	8	Materials and Resources	Possible Points: 14				
Y	3	Prereq 1	Storage and Collection of Recyclables	1			
1	1	Credit 1.1	Building Reuse—Maintain Existing Walls, Floors, and Roof	1 to 3			
1	1	Credit 1.2	Building Reuse—Maintain 50% of Interior Non-Structural Elements	1 to 2			
2	2	Credit 2	Construction Waste Management	1 to 2			
2	2	Credit 3	Materials Reuse	1 to 2			
1	3	Regional Priority Credits	Possible Points: 4				
1	1	Credit 1.1	Regional Priority: SSc1 Site Selection	1			
1	1	Credit 1.2	Regional Priority: Stormwater Design - Quality Control	1			
1	1	Credit 1.3	Regional Priority: Certified Wood	1			
1	1	Credit 1.4	Regional Priority: Specific Credit	1			
56	4	Total	Possible Points: 110				

DESIGNER'S NOTES
1. THIS DRAWING PACKAGE WAS PREPARED USING BUILDING INFORMATION (BIM) TECHNOLOGIES.

US Army Corps of Engineers®
HUNTSVILLE CENTER

DATE: JUNE 2014	SOLUTION NO.:	BY:	DATE:
DESIGN BY: MILS	CONTRACT NO.:	DATE:	DESCRIPTION:
DRAWN BY: ENZ	CONTRACT NO.:	DATE:	SYMBOL:
SYMBOL:	CONTRACT NO.:	DATE:	BY:
FILE NAME:	CONTRACT NO.:	DATE:	BY:

U.S. ARMY CORPS OF ENGINEERS
ENGINEERING AND SUPPORT CENTER

4850 UNIVERSITY BLVD
HUNTSVILLE, AL 35896

CHILD DEVELOPMENT CENTER (CDC)
STANDARD DESIGN, SMALL
0 - 5 YEARS OLD

SYMBOLS AND ABBREVIATIONS

PLATE REFERENCE NUMBER
G-003
SHEET 3 OF 70

ABBREVIATIONS

SYMBOLS

GENERAL NOTES:

A		KW	KILOWATT
A/C	AIR CONDITION (-ING, -ER, -ED)	KWH	KILOWATT-HOUR
ABS	ABSOLUTE		
AC UNIT	AIR CONDITIONING UNIT	L	LOUVER
ACH	AIR CHANGES PER HOUR	LAT	LEAVING AIR TEMPERATURE
ADA	AMERICANS WITH DISABILITIES ACT	LB	POUNDS
ADP	APPARATUS DEW POINT	LF	LINEAR FEET
AFF	ABOVE FINISHED FLOOR	LG	LENGTH
AHU	AIR HANDLING UNIT	LHG	HEAT GAIN, LATENT
ALT	ALTITUDE	LMTD	LEAST MEAN TEMPERATURE DIFFERENCE
AMB	AMBIENT	LPS	LOW PRESSURE STEAM
APPROX	APPROXIMATE	LWT	LEAVING WATER TEMPERATURE
AS	AIR SEPARATOR		
ATM	ATMOSPHERE	M	MAXIMUM
AUX	AUXILIARY	MAX	1000 * BRITISH THERMAL UNIT
AVG	AVERAGE	MBH	MINUTE
		MIN	MINUTE
B	BOILER	MIN	MINIMUM
BBD	BOILER BLOWDOWN	MPS	MEDIUM PRESSURE STEAM
BF	BOILER FEED SYSTEM		
BHP	BRAKE HORSEPOWER	N	NOT APPLICABLE
BLDG	BUILDING	N/A	NOT APPLICABLE
BOD	BOTTOM OF DUCT	NC	NOISE CRITERIA
BOP	BOTTOM OF PIPE	NC	NORMALLY CLOSED
BP	BOILING POINT	NC	NOT IN CONTRACT
BP	BOILER PUMP	NO	NORMALLY OPEN
BT	BUFFER TANK	NO / #	NUMBER
BTU	BRITISH THERMAL UNIT	NTS	NOT TO SCALE
		O	OUTSIDE AIR
CFM	FLOW, CUBIC FEET PER MINUTE	OA	OUTSIDE AIR
CH	CHILLER	OAT	OUTSIDE AIR TEMPERATURE
CHWR	CHILLED WATER, SUPPLY	OZ	OUNCE
CHWR	CHILLED WATER, RETURN		
CLG LOAD	COOLING LOAD	P	PRIMARY CHILLED WATER PUMP
CMRP	COMPRESSOR	PCHWP	PRIMARY CHILLED WATER PUMP
CO	CARBON MONOXIDE	PCWP	PRIMARY CONDENSER WATER PUMP
CO2	CARBON DIOXIDE	PH	PHASE, ELECTRICAL
COEF	COEFFICIENT	PHWP	PRIMARY HOT WATER PUMP
COND	CONDENS(-ER, -ING, -ATION)	PPM	PARTS PER MILLION
CRP	CONDENSATE RETURN PUMP	PRESS	PRESSURE
CT	COOLING TOWER	PRV	PRESSURE REDUCING VALVE
CT	COOLING TOWER	PSF	POUNDS PER SQUARE FOOT
CU FT	CUBIC FEET	PSI	POUNDS PER SQUARE INCH
CU IN	CUBIC INCH	PSIA	PSI, ABSOLUTE
CV	COEFFICIENT, VALVE FLOW		
CWR	CONDENSER WATER, RETURN	R	THERMAL RESISTANCE
CWS	CONDENSER WATER, SUPPLY	RA	RETURN AIR
		RAT	RETURN AIR TEMPERATURE
D	DAMPER	REFR	REFRIGERANT
DB	DRY BULB TEMPERATURE	RG	RETURN AIR GRILLE
DBA	DECIBEL	RH	RELATIVE HUMIDITY
DEG	DEGREE	RPM	REVOLUTION PER MINUTE
DENS	DENSITY		
DIA	DIAMETER	S	ENTROPY
DIFF	DIFFERENCE	SA	SUPPLY AIR
DP	DIFFERENTIAL PRESSURE	SAT	SUPPLY AIR TEMPERATURE
DPT	DEW POINT TEMPERATURE	SC	SHADING COEFFICIENT
DX	DIRECT EXPANSION	SCFM	CFM, STANDARD CONDITIONS
		SCFS	CUBIC FEET PER SECOND, STANDARD
E	EXHAUST AIR	SCHWP	SECONDARY CHILLED WATER PUMP
EAT	ENTERING AIR TEMPERATURE	SD	SUCTION DIFFUSER
EER	ENERGY EFFICIENCY RATIO	SD	SUPPLY AIR DIFFUSER
EF	EXHAUST FAN	SF	SUPPLY FAN
EFF	EFFICIENCY	SF	SAFETY FACTOR
EG	EXHAUST AIR GRILLE	SG	SPECIFIC GRAVITY
ENT	ENTERING	SG	SUPPLY AIR GRILLE
ESP	EXTERNAL STATIC PRESSURE	SHG	SENSIBLE HEAT GAIN
ET	EXPANSION TANK	SHGC	SENSIBLE HEAT GAIN COEFFICIENT
EVAP	EVAPOR(-E, -ING, -ED, -OR)	SHR	SENSIBLE HEAT RATIO
EWT	ENTERING WATER TEMPERATURE	SHWP	SECONDARY HOT WATER PUMP
EXP	EXPANSION	SP	STATIC PRESSURE
		SP HT	SPECIFIC HEAT
F	TEMPERATURE FARENHEIT	SPEC	SPECIFICATION
FA	FREE AREA	SQ	SQUARE
FC	FLUID COOLER	STD	STANDARD
FC	FLEX CONNECTOR	SUCT	SUCTION
FPM	FEET PER MINUTE		
FPS	FEET PER SECOND	T	THERMOSTAT
FT	FEET	T STAT	TEST AND BALANCE
		TAB	TEMPERATURE
G		TG	TRANSFER AIR GRILLE
GAL	GALLONS	TON	TON OF REFRIGERATION (12,000 BTU)
GPH	FLOW, GALLONS PER HOUR	TXV	THERMOSTATIC EXPANSION VALVE
GPM	FLOW, GALLONS PER MINUTE		
GR	GRAINS	U	UNIT HEATER
GSHP	GROUND SOURCE HEAT PUMPE	UH	UNIT HEATER
		V	VALVE
H	ENTHALPY	VAV	VARIABLE AIR VOLUME
HG	MERCURY	VD	VOLUME DAMPER
HGT	HEIGHT	VENT	VENTILATION
HP	HEAT PUMP	VFD	VARIABLE FREQUENCY DRIVE
HPS	HIGH PRESSURE STEAM	VP	VELOCITY PRESSURE
HR	HOUR	VSD	VARIABLE SPEED DRIVE
HTHW	HIGH TEMPERATURE HOT WATER (>200 F)		
HVU	HEATING VENTILATING UNIT	W	WATT
HWR	HYDRONIC HOT WATER, RETURN	WB	WET BULB TEMPERATURE
HWS	HYDRONIC HOT WATER, SUPPLY	WC	WATER COLUMN
HX	HEAT EXCHANGER	WSHP	WATER SOURCE HEAT PUMP
HZ	FREQUENCY	WT	WEIGHT
		Y	
I		YD	YARD
I.E.	INVERT ELEVATION	YR	YEAR
IH	INFRARED HEATER		
IN	INCH		
K			
K	THERMAL CONDUCTIVITY		

PIPING		DUCTWORK	
	BALL VALVE		EXISTING DUCTWORK TO BE REMOVED
	BUTTERFLY VALVE		RECTANGULAR DUCT, FIRST DIMENSION IS SIDE SHOWN, DIMENSIONS ARE FREE AREA
	CHECK VALVE		45 DEG BRANCH TAKE-OFF
	GATE VALVE		DUCT TRANSITION
	AUTOMATIC FLOW CONTROL VALVE		MITERED ELBOW WITH TURNING VANES
	MANUAL CALIBRATED BALANCE VALVE		RECT. TO ROUND SPIN-IN FITTING W/DAMPER
	GLOBE VALVE		ROUND DUCT WITH DIAMETER SIZE DIMENSIONS ARE FREE AREA
	PRESSURE REDUCING VALVE		FLEXIBLE DUCT
	3-WAY CONTROL VALVE, DDC		SUPPLY /OUTDOOR AIR DUCT
	2-WAY CONTROL VALVE, DDC		RETURN AIR DUCT
	WYE STRAINER		EXHAUST AIR DUCT
	PRESSURE GAUGE		MANUAL VOLUME DAMPER
	THERMOSTAT		CONTROL/MOTORIZED DAMPER
			FIRE DAMPER
			THERMOSTAT
			EMERGENCY SHUTDOWN SWITCH
			TEMPERATURE SENSOR
			CARBON DIOXIDE SENSOR
			HUMIDITY SENSOR/HUMIDISTAT

A	"HVAC GENERAL NOTES" APPLY TO HVAC DRAWINGS. "PLAN NOTES" APPLY ONLY TO THE SHEETS ON WHICH THEY APPEAR. THE WORD "PROVIDE" MEANS "FURNISH AND INSTALL".
B	MECHANICAL DRAWINGS ARE DIAGRAMMATIC TO SHOW DESIGN INTENT. PROVIDE ANY ADDITIONAL DROPS, RISES, OR OFFSETS REQUIRED FOR A COMPLETE SYSTEM INSTALLATION. COORDINATE EXACT ROUTING OF MECHANICAL WORK WITH ALL OTHER TRADES AND OBSTRUCTIONS PRIOR TO BEGINNING WORK. COORDINATE EXACT LOCATIONS OF CEILING MOUNTED EQUIPMENT WITH LIGHTS, CEILING GRID, SPRINKLERS AND OTHER OBSTRUCTIONS. FIELD VERIFY EXISTING CONDITIONS IF APPLICABLE.
C	EQUIPMENT SHOWN ON THE DRAWINGS WAS OBTAINED FROM COMMON MANUFACTURERS OF HVAC EQUIPMENT AND ACCOUNTS FOR CLEARANCES AND OVERALL DIMENSIONS. SELECT AND PROVIDE HVAC EQUIPMENT THAT WILL FIT IN THE MECHANICAL SPACES PROVIDED, WHILE MAINTAINING MANUFACTURER'S MAINTENANCE CLEARANCES.
D	COORDINATE WITH ROOF CONTRACTOR WATERPROOFING OF ROOF PENETRATIONS AND SUPPORTS OF ROOF MOUNTED EQUIPMENT. PROVIDE FLASHING FOR ROOF CURBS AND DUCTWORK. PROVIDE BOOT FOR PIPES. PROVIDE PITCH POCKETS FOR REFRIGERANT LINES AND ROOF SUPPORTS THAT ARE NOT PIPES OR CURBS.
E	ROUTE HORIZONTAL DUCT AS HIGH AS POSSIBLE & AVOID INTERFERENCE WITH OTHER DUCTS, PIPING, LIGHTS, AND STRUCTURE. ROUTE HORIZONTAL PIPES PARALLEL TO WALLS AND ABOVE CEILINGS & AVOID INTERFERENCE AND CONTACT WITH DUCTS, OTHER PIPING, LIGHTS, AND STRUCTURE.
F	DO NOT INSTALL ANY EQUIPMENT OR FABRICATE ANY DUCTWORK PRIOR TO VERIFICATION OF ROUTING AND AVAILABILITY OF SPACE. COORDINATE SPACE REQUIREMENT WITH ALL OTHER TRADES.
G	PROVIDE SUPPORT FOR ALL DUCTWORK, PIPING, AND MECHANICAL EQUIPMENT. FIELD VERIFY ALL EQUIPMENT DIMENSIONS PRIOR TO FABRICATION OF EQUIPMENT SUPPORTS. WHERE INDICATED ON DRAWINGS, FLOOR MOUNTED EQUIPMENT SHALL HAVE HOUSEKEEPING PADS EXTENDING 4 INCHES OUTSIDE THE EQUIPMENT ENVELOPE AND MINIMUM 4 INCHES HIGH FOR EQUIPMENT WITHOUT DRAINS OR 6 INCHES HIGH FOR EQUIPMENT WITH DRAINS.
H	COORDINATE WITH GENERAL CONTRACTOR ACCESS PANEL LOCATIONS IN WALLS AND DRYWALL CEILINGS FOR ACCESS TO VALVES, DAMPERS, CONTROLS, EQUIPMENT REQUIRING SERVICING, AND DUCTWORK ACCESS PANELS. DUCTWORK ACCESS PANELS SHALL BE PROVIDED FOR FIRE DAMPERS, AND ACTUATORS IN THE DUCTWORK. PANEL SIZE SHALL BE AS REQUIRED PER THE SPECIFICATIONS.
I	DUCT DIMENSIONS NOTED ON THE DRAWINGS ARE INSIDE FREE AREA DIMENSIONS. DIFFUSER AND GRILLE NECK SIZES ARE THE SAME DIMENSIONS AS THE DUCTWORK RUN-OUT TO THE DEVICE, UNLESS OTHERWISE NOTED.
J	INSULATED FLEXIBLE DUCT SHALL BE USED TO CONNECT SUPPLY AIR DIFFUSERS, UNLESS SHOWN OTHERWISE. THE MAXIMUM LENGTH OF RUN FOR FLEXIBLE DUCT SHALL BE 5'-0" AND SHALL BE INSTALLED FREE OF KINKS AND ABRUPT TURNS. MAXIMUM UNSUPPORTED LENGTH SHALL BE 3'-0". FLEXIBLE DUCT TO DIFFUSER SHALL BE SAME SIZE AS DIFFUSER NECK, UNLESS OTHERWISE NOTED.
K	BRANCH TAPS SHALL USE EITHER A 45 DEGREE OR BELL ENTRY. BRANCH EXTRACTORS ARE NOT TO BE USED. PROVIDE TRANSITIONS AT ALL CHANGES IN DUCT SIZE, INCLUDING DIFFUSERS AND GRILLES, UNLESS SHOWN OR NOTED OTHERWISE. FLEXIBLE DUCT CONNECTIONS SHALL BE USED TO ISOLATE ALL FAN-POWERED EQUIPMENT.
L	SUPPLY, RETURN AND EXHAUST DIFFUSERS/GRILLES SHALL HAVE BALANCE DAMPERS IN THE DUCT, UNLESS DAMPERS ARE NOTED IN THE AIR DEVICE SCHEDULE. LOCATE BALANCE DAMPERS AS NEAR AS POSSIBLE TO DUCT BRANCH TAKEOFF WHILE MINIMIZING ACCESS DIFFICULTIES. DAMPERS TO AIR DEVICES SHALL BE LOCKING QUADRANT TYPE, WITH A STAND-OFF FOR DUCTS WITH INSULATION.
M	REFER TO ARCHITECTURAL DRAWINGS AND PLANS FOR EXACT LOCATIONS OF DIFFUSERS, LINEAR SLOT DIFFUSERS, REGISTERS, GRILLES AND LOUVERS.
N	EXPOSED DUCT IN OCCUPIED SPACES TO BE PAINTED, COLOR TO BE SELECTED BY ARCHITECT.
O	RUN-OUT PIPES TO COILS 3/4" UNLESS OTHERWISE NOTED. NOTED PIPE SIZES THE SAME IN DIRECTION OF DECREASING FLOW TILL CHANGED BY ANOTHER PIPE SIZE NOTE.
P	USE FITTINGS FOR ALL PIPE CHANGES IN DIRECTION AND SIZE AND BRANCH CONNECTIONS. EXTRUDED TEE CONNECTIONS AND BUSHINGS SHALL NOT BE USED. PROVIDE ISOLATION VALVES ON ALL BRANCHES OFF MAIN PIPE.
Q	FOR HYDRONIC PIPES, INSTALL MANUAL AIR VENTS AT HIGH POINTS AND DRAIN VALVES AT THE LOW POINTS OF THE PIPE. FOR EQUIPMENT WITH DRAINS, PROVIDE DRAIN PIPE FROM THE EQUIPMENT TO A FLOOR DRAIN OR MOP SINK.

R REFRIGERANT LINE SIZES PROVIDED ARE PRELIMINARY. COORDINATE LINE SIZES WITH MANUFACTURER'S RECOMMENDATIONS FOR ACTUAL EQUIPMENT INSTALLED. A FILTER DRIER, SOLENOID VALVE, SIGHT GLASS, AND THERMAL EXPANSION VALVE SHALL BE INSTALLED IN THE LIQUID LINE UPSTREAM OF THE EVAPORATOR. A FILTER DRIER SHALL BE INSTALLED IN THE SUCTION LINE UPSTREAM OF THE CONDENSING UNIT.

S AIR CONDITIONING UNITS INSTALLED ABOVE A CEILING SHALL BE PROVIDED WITH CONDENSATE OVERFLOW DETECTION TO DE-ENERGIZE UNIT AND ALARM DDC SYSTEM. COMMUNICATION ROOM AC UNITS SUSPENDED FROM STRUCTURE SHALL BE PROVIDED WITH AN AUXILIARY DRAIN PAN AND OVERFLOW DETECTION BELOW THE UNIT. COLD WATER PIPES INSTALLED ABOVE ELECTRICAL EQUIPMENT SHALL HAVE INSULATED AUXILIARY DRAIN PANS WITH OVERFLOW DETECTION THAT ALARMS THE DDC SYSTEM. COORDINATE WITH ELECTRICAL CONTRACTOR TO PREVENT ROUTING CHILLED WATER, COLD WATER, AND CONDENSATE PIPE OVER ELECTRIC EQUIPMENT WHERE POSSIBLE.

T EQUIPMENT DESIGNATED TO HAVE A FACTORY MOUNTED DISCONNECT SWITCH SHALL BE SIZED FOR THE ELECTRICAL CHARACTERISTICS OF THAT PIECE OF EQUIPMENT. EQUIPMENT THAT DOES NOT HAVE A FACTORY MOUNTED DISCONNECT SHALL HAVE A FIELD INSTALLED DISCONNECT PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL PROVIDE VARIABLE FREQUENCY DRIVES AND STARTERS WHERE NOT PROVIDED BY EQUIPMENT MANUFACTURER. VARIABLE FREQUENCY DRIVES AND STARTERS SHALL BE INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.

U SUPPLY CONTROL POWER TRANSFORMERS, ALL LOW VOLTAGE WIRING, AND WIRING FROM POWER SUPPLY TO CONTROL TRANSFORMERS AND DEVICES. HUMIDISTATS SHALL BE WALL MOUNTED IN THE SPACE TO BE CONTROLLED. FURNISH, INSTALL, AND WIRE THERMOSTATS, EXCEPT WHERE PROVIDED BY THE FACTORY. THERMOSTATS SHALL AVOID CASEWORK. SUPPLY CURRENT SENSORS TO ELECTRICAL CONTRACTOR FOR INSTALLATION IN POWER WIRING.

V UNLESS OTHERWISE NOTED, WALL THERMOSTATS/TEMPERATURE SENSORS SHALL BE MOUNTED ON THE WALL A MINIMUM HEIGHT OF 54" ABOVE FINISHED FLOOR.

W FIRE BARRIERS ARE SHOWN ON LIFE SAFETY/FIRE PROTECTION DRAWINGS. PIPE PENETRATIONS THRU FIRE BARRIERS SHALL BE SEALED WITH FIRE STOP SUITABLE FOR THE RATING OF THE WALL OR FLOOR BEING PENETRATED. DUCT PENETRATIONS THRU FIRE BARRIERS SHALL HAVE A FIRE DAMPER INSTALLED AT THE PENETRATION SUITABLE FOR THE RATING OF THE WALL OR FLOOR BEING PENETRATED. REFER TO FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

X DUCT-MOUNTED SMOKE DETECTORS SHALL BE PROVIDED ON AIR DISTRIBUTION SUPPLY SYSTEMS HAVING A CAPACITY GREATER THAN 2000 CFM. SMOKE DETECTOR SHALL BE MOUNTED DOWNSTREAM OF THE AIR FILTERS AND AHEAD OF ANY BRANCH CONNECTIONS. RETURN SYSTEM DUCT-MOUNTED SMOKE DETECTORS SHALL NOT BE REQUIRED WHERE THE ENTIRE SPACE SERVED BY THE AIR DISTRIBUTION SYSTEM IS PROTECTED BY A SYSTEM OF AREA SMOKE DETECTORS. DUCT-MOUNTED SMOKE DETECTORS TO BE FURNISHED AND WIRED TO FIRE ALARM SYSTEM BY QUALIFIED FIRE ALARM SYSTEM INSTALLER. COORDINATE TYPE AND LOCATION WITH FIRE ALARM SYSTEM INSTALLER.

Y CONSTRUCT DUCTWORK TO THE FOLLOWING STATIC PRESSURE CLASSIFICATIONS:
 SUPPLY DUCT (DOAS, MUA) +2 IN WG
 SUPPLY DUCT (HP) +0.5 IN WG
 RETURN DUCT (HP) -0.5 IN WG
 SUPPLY AIR DUCT (DOAS, MUA) -2 IN WG
 EXHAUST DUCT (UPSTREAM OF FAN) -2 IN WG
 EXHAUST DUCT (DOWNSTREAM OF FAN) -0.5 IN WG

Z COMMISSION HVAC SYSTEMS AND EQUIPMENT AND SYSTEMS REQUIRING COMMISSIONING FOR LEED FUNDAMENTAL COMMISSIONING IN ACCORDANCE WITH ASHRAE GUIDELINE 1 AND LEED REQUIREMENTS. THE COMMISSIONING AGENT SHALL BE CERTIFIED BY AABC, NEBB, OR TABS AS DESCRIBED IN GUIDELINE 1.

AA WORK INDICATED ON DRAWINGS IS NEW UNLESS OTHERWISE NOTED ON THE DRAWINGS.

BB SOME SYMBOLS/ABBREVIATIONS INDICATED ON THIS LEGEND SHEET MAY NOT APPEAR IN THE DRAWINGS.

CC DO NOT LOCATE MECHANICAL WORK IN ELECTRICAL OR COMMUNICATION ROOMS, EXCEPT FOR RUNOUTS SPECIFICALLY SERVING THE RESPECTIVE ROOM.

DD MATERIALS INSTALLED IN A RETURN AIR PLENUM (CEILING OR ROOM) MUST BE RATED FOR AIR PLENUM INSTALLATION. COORDINATE WITH ALL OTHER TRADES ACCORDINGLY.

DESIGNER NOTES:

- PLEASE NOTE THAT THE MECHANICAL DESIGN PROVIDED HEREIN IS FOR INFORMATION ONLY. THE MECHANICAL DRAWINGS ARE NOT MANDATORY AND ARE PROVIDED TO GIVE DESIGNERS SUGGESTIONS ON HOW A TRAINING SUPPORT CENTER(TSC) COULD BE MECHANICALLY DESIGNED.
- THE MECHANICAL DESIGNER WILL BE ENTIRELY RESPONSIBLE FOR SELECTING THE APPROPRIATE EQUIPMENT AND SYSTEMS FOR ANY SPECIFIC SITE DESIGN.
- THE DESIGN PROVIDED HEREIN IS BASED UPON A FICTIONAL SITE LOCATED IN FORT BRAGG, NORTH CAROLINA.
- THE DESIGNER OF RECORD SHALL VERIFY VENTILATION REQUIREMENTS MEET ASHRAE 62.1 FOR EACH SPACE WITHIN THE BUILDING. OCCUPANCIES USED FOR VENTILATION CALCULATIONS SHOULD BE VERIFIED WITH THE CUSTOMER AS SITE SPECIFIC REQUIREMENTS MAY VARY FROM THOSE USED IN THIS STANDARD DESIGN.
- THE DESIGN FOR WAREHOUSE SPACES AND APPARATUS BAYS SHALL CONSIST OF INFRARED HEATERS AS REQUIRED TO MAINTAIN THE REQUIRED SPACE TEMPERATURE IN THE WINTER AND EXHAUST FANS AND LOUVERS FOR PROVIDING NATURAL VENTILATION COOLING IN THE SUMMER.

ATFP NOTES:

- EXTERIOR EQUIPMENT: LOCATE A MINIMUM OF 33 FEET FROM BUILDING. IF CONDITIONS REQUIRE THAT EQUIPMENT BE LOCATED LESS THAN 33 FEET FROM THE BUILDING, THEN THE EQUIPMENT SHALL BE LOCATED AND ARRANGED SO THAT AN OBJECT OVER SIX INCHES INHEIGHT WOULD BE READILY OBSERVED BY BUILDING OCCUPANTS.
- AIR INTAKES: LOCATE A MINIMUM OF 10 FEET ABOVE THE GROUND.
- EMERGENCY SHUTOFF SWITCH: PROVIDE A SHUTOFF SWITCH IN THE HVAC CONTROL SYSTEM THAT CAN IMMEDIATELY SHUT DOWN THE AIR DISTRIBUTION SYSTEMS THROUGHOUT THE BUILDING. LOCATE THE SWITCH TO BE EASILY ACCESSIBLE BY BUILDING OCCUPANTS.
- DAMPERS: FIT OUTSIDE AIR INTAKES, RELIEF, AND EXHAUST OPENINGS WITH LOW LEAKAGE DAMPERS THAT AUTOMATICALLY CLOSE WHEN THE AIR SHUTOFF SWITCH IS ACTIVATED. THE LOW LEAKAGE DAMPERS SHALL HAVE A LEAKAGE RATE OF LESS THAN 3 CFM/SQUARE FOOT AT A PRESSURE DIFFERENTIAL OF 3.0 INCHES STATIC PRESSURE.
- OVERHEAD EQUIPMENT WEIGHING OVER 30 POUNDS: DESIGN ALL EQUIPMENT MOUNTINGS TO RESIST A FORCE 0.5 TIMES THE WEIGHT OF THE EQUIPMENT IN ANY HORIZONTAL DIRECTION AND 1.5 TIMES THE EQUIPMENT WEIGHT IN THE DOWNWARD DIRECTION. THIS REQUIREMENT IS SEPARATE FROM OTHER MOUNTING REQUIREMENTS FOR SEISMIC OR OTHER FORCES.

US Army Corps of Engineers
HUNTSVILLE CENTER

DATE	JUNE 2014	SOLICITATION NO.							
DESIGN BY:	JOS	DRAWN BY:	ESQ	ISSUED BY:	ESQ	DATE:	06/04/14	CONTRACT NO.:	N/A
ENGINEERING AND SUPPORT CENTER:	HUNTSVILLE	DATE:	06/04/14	CONTRACT NO.:	N/A	DATE:	12/13/13 PM	CONTRACT NO.:	N/A
4820 UNIVERSITY, SO	HUNTSVILLE, AL 35816	DATE:	1/4" = 1'-0"	CONTRACT NO.:	N/A	DATE:	1/21/13 PM	CONTRACT NO.:	N/A
0 - 5 YEARS OLD		DATE:	1/4" = 1'-0"	CONTRACT NO.:	N/A	DATE:	1/21/13 PM	CONTRACT NO.:	N/A
		DATE:	1/4" = 1'-0"	CONTRACT NO.:	N/A	DATE:	1/21/13 PM	CONTRACT NO.:	N/A
		DATE:	1/4" = 1'-0"	CONTRACT NO.:	N/A	DATE:	1/21/13 PM	CONTRACT NO.:	N/A
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		DATE:	1/4" = 1'-0"	CONTRACT NO.:	N/A	DATE:	1/21/13 PM	CONTRACT NO.:	N/A
		DATE:	1/4" = 1'-0"	CONTRACT NO.:	N/A	DATE:	1/21/13 PM	CONTRACT NO.:	N/A

HVAC LEGEND

PLATE REFERENCE NUMBER
M-001

SHEET 47 OF 70

AIR HANDLER UNIT W/ERV CONTROL POINTS(AHU-1)

NODE: <DDC#>
NODE LOCATION: < >
NODE ADDRESS: Domain = < >, Subnet = < >, Node = < >
NODE ID: < >

Table with columns: FUNCTION, NAME, DESCRIPTION, SETTING (WITH UNITS), RANGE (WITH UNITS), ngl/CPT NAME, IO TYPE, HOA REQ'D. Rows include PROOFS & SAFETIES, START/STOP, ERV WHEEL CONTROL, FAN COMMAND, DAMPER/VALVE CONTROL, AIR TEMPERATURE.

LDP AND M&C DISPLAY table with columns: LDP VIEW REQ'D, DISP REQ'D, TREND REQ'D, SNVT NAME, SNVT TYPE. Rows show various control points and their status.

OVERRIDES table with columns: LDP OVRD REQ'D, M&C OVRD REQ'D, SNVT NAME, SNVT TYPE. Rows show override status for various points.

ALARMS table with columns: ALARM CONDITION (SEE NOTES), ALARM PRIORITY, M&C ROUTING. Rows list various alarm conditions like fan proof failed, enthalpy wheel failed, etc.

- Notes:
1) THE CONTRACTOR SHALL COMPLETE THE POINTS SCHEDULE AS SPECIFIED AND AS DESCRIBED IN THE POINTS SCHEDULE INSTRUCTIONS DRAWING.
2) UNIT MANUFACTURERS PROOFS AND SAFETIES: THE CONTRACTOR SHALL SHOW EACH PROOF AND SAFETY AS A SEPARATE ROW.
3) SYS-OCC: AS DESCRIBED IN THE POINTS SCHEDULE INSTRUCTIONS, OVERRIDE OF SYS-OCC IS ACCOMPLISHED THROUGH THE SYSTEM SCHEDULER.
4) ALARM CONDITIONS MARKED WITH AN ASTERISK (*) SHALL BE ACTIVE ONLY WHEN THE SYSTEM IS IN OCCUPIED MODE AND HAS BEEN IN OCCUPIED MODE FOR MORE THAN: * = 5 MINUTES ** = 30 MINUTES
5) UNIT STATUS: SERVES AS A MONITORED POINT AT THE M&C SOFTWARE (FRONT-END) AND AS A HEATING/COOLING REQUEST TO THE BOILER, HEAT EXCHANGER, AND/OR CHILLER SERVING THIS SYSTEM.



Table with columns: SYMBOL, DESCRIPTION, DATE. Contains a grid for tracking symbols and descriptions.

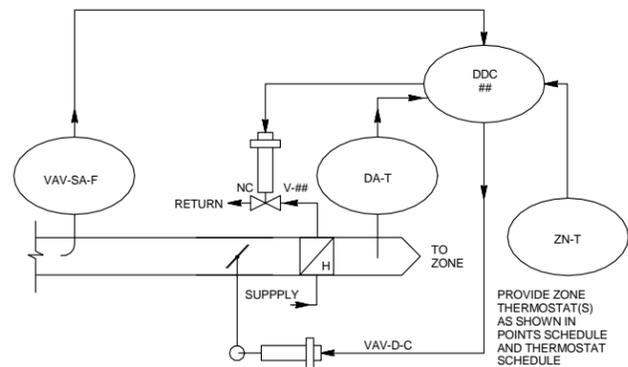
Table with columns: DESIGN BY, DATE, SOLICITATION NO., CONTRACT NO., PLOT DATE, PLOT SCALE, FILE NAME. Contains project metadata.

CHILD DEVELOPMENT CENTER (CDC) STANDARD DESIGN, SMALL
0 - 5 YEARS OLD
CONTROL SCHEMATIC & SEQUENCE

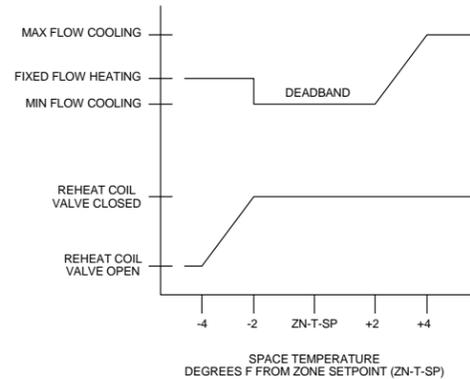
PLATE REFERENCE NUMBER
MI803
SHEET 57 OF 70



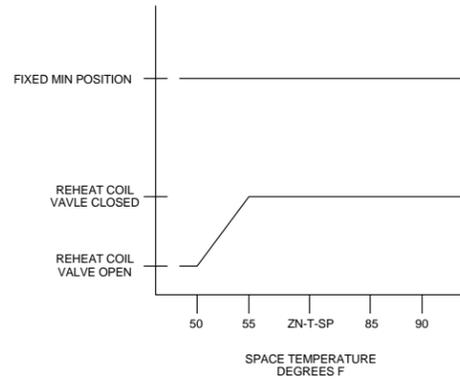
US Army Corps of Engineers
HUNTSVILLE CENTER



PROVIDE ZONE THERMOSTAT(S) AS SHOWN IN POINTS SCHEDULE AND THERMOSTAT SCHEDULE



VAV BOX WITH REHEAT OCCUPIED MODE SEQUENCING



VAV BOX WITH REHEAT UNOCCUPIED MODE SEQUENCING

SEQUENCE OF OPERATION: -VAV TERMINAL UNIT

- 1. VAV TERMINAL UNIT: A WALL MOUNTED THERMOSTAT SHALL CONTROL THE VAV BOX TO MAINTAIN SPACE TEMPERATURE SETPOINT. EACH VAV TERMINAL BOX SHALL BE PROVIDED WITH A SUPPLY AIR TEMPERATURE SENSOR DOWNSTREAM OF THE RE-HEAT COIL. THE SENSOR SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND REPORT TO THE CONTROLS SYSTEM. WHEN THE SPACE TEMPERATURE RISES ABOVE THE ROOM SETPOINT THE VARIABLE AIR VOLUME DAMPER SHALL MODULATE OPEN TO MAINTAIN SETPOINT. WHEN THE SPACE TEMPERATURE FALLS BELOW THE ROOM SETPOINT THE VARIABLE AIR VOLUME DAMPER SHALL MODULATE TO ITS MINIMUM FLOW RATE TO MAINTAIN SETPOINT. WHEN THE DAMPER IS AT ITS MINIMUM CLOSED POSITION AS SCHEDULED AND THE SPACE TEMPERATURE DRIFTS 2 DEGREES(ADJUSTABLE) BELOW THE SETPOINT THE HOT WATER HEATING CONTROL VALVE SHALL MODULATE CLOSED TO SATISFY THE SPACE SETPOINT. THE HEATING CONTROL VALVE SHALL BE FULLY CLOSED BEFORE THE VARIABLE AIR VOLUME DAMPER MODULATES OPEN FROM THE MINIMUM AIRFLOW POSITION.
2. ALARMS: ALL ALARMS SHALL BE SENT TO THE USER INTERFACE/BUILDING MANAGEMENT SYSTEM IF THE FOLLOWING CONDITIONS OCCUR:
A. THE ZONE TEMPERATURE(ZN-T) FALLS BELOW 45 DEGREES F(ADJUSTABLE) FOR 5 MINUTES(ADJUSTABLE) OR LONGER.
B. THE ZONE TEMPERATURE(ZN-T) RISES ABOVE 85 DEGREES F(ADJUSTABLE) FOR 5 MINUTES OR LONGER.

VAV TERMINAL UNIT CONTROLS SCHEMATIC:

NOT TO SCALE

VAV BOX WITH REHEAT

NODE: <DDC##>
NODE LOCATION: <>
NODE ADDRESS: Domain = <>, Subnet = <>, Node = <>
NODE ID: <>

Table with columns: FUNCTION, NAME, DESCRIPTION, SETTING (WITH UNITS), RANGE (WITH UNITS), nci/CPT NAME, IO TYPE, HOA REQ'D. Rows include PROOFS & SAFETIES, START/STOP, ZONE TEMPERATURE CONTROL, and OTHER POINTS.

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OVERRIDES table with columns: LDP OVRD REQ'D, M&C OVRD REQ'D, SNVT NAME, SNVT TYPE.

ALARMS table with columns: ALARM CONDITION (SEE NOTES), ALARM PRIORITY, M&C ROUTING.

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5) UNIT STATUS: SERVES AS A MONITORED POINT AT THE M&C SOFTWARE (FRONT-END) AND AS A HEATING/COOLING REQUEST TO THE BOILER, HEAT EXCHANGER, AND/OR CHILLER SERVING THIS SYSTEM.

Table with columns: SYMBOL, DESCRIPTION, DATE, BY.

Table with columns: DESIGN BY, DRAWN BY, CHECKED BY, DATE, SOLICITATION NO., CONTRACT NO., SUBMIT DATE, PLOT SCALE, FILE NAME.

CHILD DEVELOPMENT CENTER (CDC) STANDARD DESIGN, SMALL 0 - 5 YEARS OLD CONTROL SCHEMATIC & SEQUENCE

