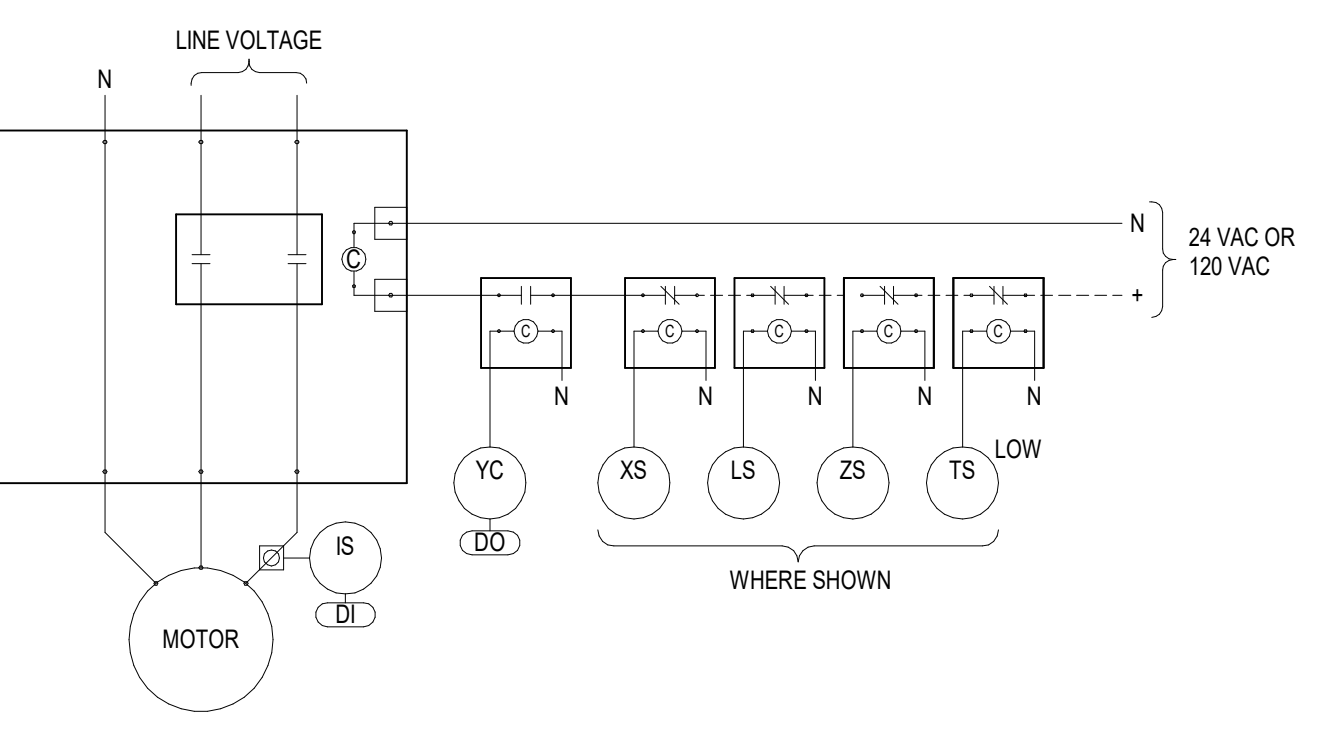
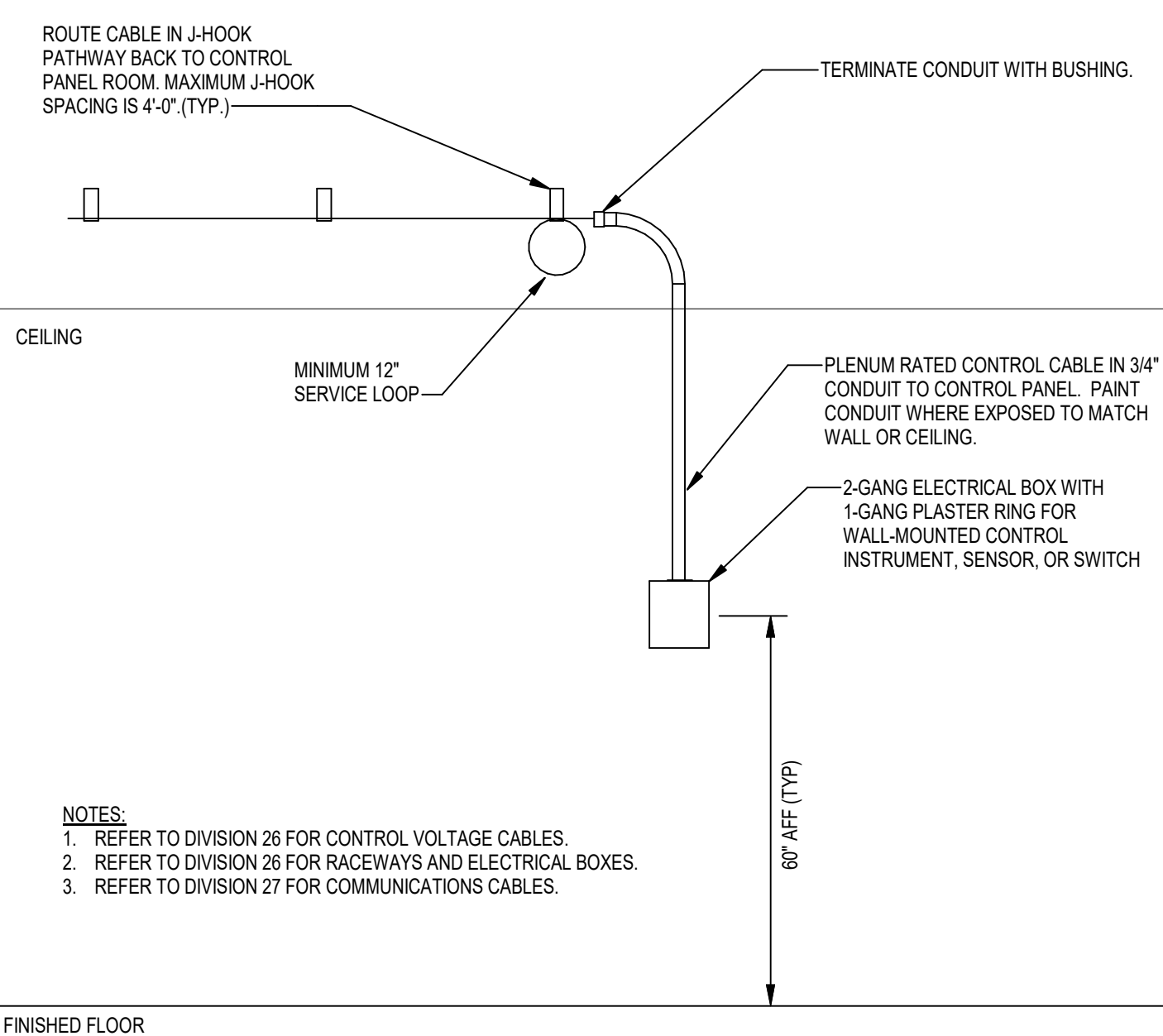

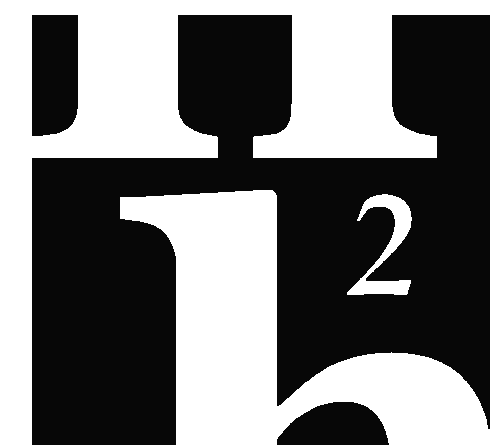


FIRESTOP SCHEDULE OF THROUGH PENETRATION SYSTEMS. BASIS OF DESIGN: HILTI, INC.					SYMBOLS, NOTES, ABBREVIATIONS, ETC.					AIR DISTRIBUTION		INSTRUMENTATION AND CONTROL NOTES		GENERAL NOTES		
TYPE OF PENETRANT		F-RATING (HR)	CONCRETE FLOORS	CONCRETE OR BLOCK WALLS	GYPSUM WALLS	HILTI PRODUCTS		IDENTIFICATION LETTERS			NEW DUCT					
				BASIS OF DESIGN UL SYSTEM			FIRST - LETTER	SUCCEEDING - LETTERS								
CIRCULAR BLANK OPENINGS (0000-9999)		1	F-A-0006, C-AJ-0055, C-AJ-0090	C-AJ-0055, C-AJ-0090	--	CP 680, CP 618, FS-ONE MAX, CFS-BL	A	ANALYSIS	ALARM	120 VAC WIRING		1. THE INTENT OF THE INSTRUMENTATION AND CONTROL DRAWINGS IS TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM IN ACCORDANCE WITH THE SEQUENCE(S) OF OPERATION. THE DIAGRAMS, POINTS LISTS, AND SEQUENCES OF OPERATION INCLUDED HEREIN DESCRIBE THE INTENDED SEQUENCES OF OPERATION FOR SYSTEMS AND MAJOR COMPONENTS BUT DO NOT DEFINE IN DETAIL THE OPERATION OF MINOR COMPONENTS, RELAYS, SWITCHES, WIRING, OR OTHER SMALL DEVICES REQUIRED FOR THE PROPER OPERATION OF THE CONTROL SYSTEM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS AND/OR WIRING TO ACHIEVE THE SEQUENCE OF OPERATION. 2. PROVIDE ALL CONTROL WIRING, CONDUIT, RELAYS, AND ELECTRICAL WORK REQUIRED AS INTEGRAL PART OF THE INSTRUMENTATION AND CONTROL SYSTEM UNLESS NOTED OTHERWISE. WORK SHALL COMPLY WITH REQUIREMENTS OF DIVISIONS 26, 27, AND 28 DRAWINGS AND SPECIFICATIONS. 3. ALL BAS CONFIGURATIONS (SETPOINTS, TIME DELAYS, RESET LIMITS, TUNING PARAMETERS, ETC) SHALL BE ADJUSTABLE BY THE OPERATOR THROUGH BAS WORKSTATION OR PORTABLE OPERATOR TERMINAL WITHOUT ANY HARDWARE OR SOFTWARE REVISIONS. 4. COORDINATE ALL WORK WITH OTHER TRADES INVOLVED. INTERFACE EQUIPMENT AND WIRING SHALL BE PROVIDED AT AN ADDITIONAL COST TO THE OWNER. 5. COORDINATE BUILDING OCCUPANCY SCHEDULES (OCCUPIED AND UNOCCUPIED) WITH BUILDING OWNER. 6. COORDINATE INSTALLATION LOCATION OF ALL CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO: SENSORS, METERS, SWITCHES, VALVES, DAMPERS, ETC. COORDINATE AND ENSURE CONTROL DEVICES ARE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS, INCLUDING UPSTREAM AND DOWNSTREAM DIAMETERS FOR FLOW METERS, PROPER ORIENTATION TO PREVENT MOISTURE INTRUSION, AND DISTANCES FROM AIR OUTLETS TO ENSURE PROPER TEMPERATURE READINGS. 7. LOCATE THERMOSTATS AND OTHER WALL-MOUNTED CONTROL DEVICES REQUIRING OCCUPANCY MONITORING OR ADJUSTMENT AT AN ELEVATION 4'-0" ABOVE FINISHED FLOOR, IN ACCORDANCE WITH ADA REGULATIONS. 8. IF FIELD ADJUSTMENTS ARE MADE TO THE BAS CONFIGURATIONS DURING FINAL TESTING / VERIFICATION COMMISSIONING, SET THE FACTORY DEFAULT VALUES IN THE CONTROLLERS TO MATCH FINAL VALUES. 9. PROVIDE ACCESS PANEL AT EACH LOCATION WHERE A VALVE, DAMPER, OR OTHER DEVICE REQUIRING SERVICE IS LOCATED ABOVE AN INACCESSIBLE CEILING OR INSIDE A WALL. ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR UL LABEL. COORDINATE ACCESS PANEL LOCATION WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION. 10. PROVIDE DUCT ACCESS DOOR AT EACH AIRFLOW MEASURING STATION. 11. CONTROLLED SYSTEMS SHALL AUTOMATICALLY RESET ON EMERGENCY POWER AND RESTORATION OF NORMAL POWER, UNLESS NOTED OTHERWISE. PROVIDE TIME DELAYS ON RESTART, AS NECESSARY, TO STAGGER THE START OF EQUIPMENT SO THAT ALL MOTORS DO NOT ATTEMPT TO START AT THE SAME TIME. 12. SAFETIES SHALL BE HARDWIRED UNLESS NOTED OTHERWISE. 13. WHERE VFD'S ARE LOCATED DIRECTLY UNDER PIPING, PROVIDE GALVANIZED SHEET METAL DRIP SHIELDING AT 18" ABOVE VFD'S SLOPED 1% FROM THE MOUNTING SURFACE TOWARD THE FRONT OF THE DRIVES, AND EXTENDING TO 12" BEYOND EACH DRIVE FACE.		1. DRAWINGS ARE DIAGRAMMATIC, INDICATIVE OF WORK TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR DIMENSIONS. 2. FIELD VERIFY DIMENSIONS AND CONDITIONS. IF THE CONTRACTOR IS UNABLE TO INTERPRET THE CONTRACT DOCUMENTS, HE IS RESPONSIBLE TO REQUEST CLARIFICATION IN WRITING TO THE ARCHITECT. IF HE PROCEEDS WITH ANY WORK BEFORE OBTAINING CLARIFICATION, HE SHALL BE HELD RESPONSIBLE FOR DEFICIENCIES ASSOCIATED THEREWITH. 3. BEFORE SUBMITTING FOR THE WORK, EACH BIDDER WILL BE RESPONSIBLE TO EXAMINE THE PREMISES AND SATISFY HIMSELF AS TO THE EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGATED TO OPERATE AND COMPLETE THE WORK UNDER THIS CONTRACT. NO ALLOWANCE WILL SUBSEQUENTLY BE MADE IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR FOR ANY ERROR OR OMISSION ON HIS PART. 4. THE CONTRACTOR SHALL PAY FOR INSPECTION PERMITS, CERTIFICATES, CONNECTION FEES, SYSTEM DEMAND CHARGES AND LICENSE FEES IN CONNECTION WITH HIS WORK. 5. CONSTRUCTION MANAGER/GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK OF SUBCONTRACTORS TO AVOID INTERFERENCES. 6. WORK SHALL COMPLY WITH APPLICABLE O.S.H.A. AND E.P.A. REGULATIONS AND GUIDELINES. 7. ERECT AND MAINTAIN REASONABLE PRECAUTIONS FOR SAFETY AND HEALTH INCLUDING POSTING DANGER SIGNS AND OTHER WARNINGS AGAINST HAZARDS INCLUDING PROMULGATING SAFETY REGULATIONS, PROVIDE SAFETY PRECAUTIONS AND BARRICADES FOR PEDESTRIANS AT CONSTRUCTION VEHICLE ACCESS AND EGRESS LOCATIONS. 8. COORDINATE AND COMPLETE DEMOLITION, CLEANING AND CONSTRUCTION WORK. SUBMIT A COMPLETELY DETAILED CONSTRUCTION SCHEDULE PRIOR TO PRE-CONSTRUCTION CONFERENCE. 9. THE CONTRACTOR SHALL STRICTLY BE HELD TO THE PROJECT SCHEDULE. HE SHALL PROVIDE SUFFICIENT MANPOWER AND EQUIPMENT TO FULLY MOBILIZE, PROCEED WITH AND COMPLETE THE WORK. 10. THE CONTRACTOR SHALL BE RESTRICTED TO AREAS SPECIFIED BY THE OWNER FOR ON-SITE STORAGE OF CONSTRUCTION MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SECURITY OF EQUIPMENT AND MATERIALS. 11. THE CONTRACTOR SHALL MAINTAIN A CLEAN WORK ENVIRONMENT AT ALL TIMES AND SHALL CLEAN CONSTRUCTION SITE OF DEBRIS AT THE COMPLETION OF THE JOB AND BEFORE FINAL PAYMENT IS MADE. 12. THE CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS TO THE ARCHITECT AT COMPLETION OF CONSTRUCTION. 13. CONTRACTOR'S USE OF AN APPROVAL STAMP ON DOCUMENTS SUBMITTED AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS CERTIFIES THAT THE CONTRACTOR HAS COMPLIED WITH THE CONTRACT DOCUMENT REQUIREMENTS RELATED TO SHOP DRAWINGS, PRODUCT DATA AND SAMPLES. 14. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT/ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER IN WRITING OF SUCH DEVIATION AT THE TIME OF SUBMITTAL AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION. THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE ARCHITECT/ENGINEER'S APPROVAL THEREOF. 15. PRIOR TO INSTALLATION, COORDINATE AND ADJUST THE FINAL LOCATION OF WALL MOUNTED DEVICES AND EQUIPMENT WITH ALL CASEWORK, SHELVING, MARKER BOARDS, BULLETIN BOARDS OR OTHER WALL MOUNTED FURNISHINGS. 16. SUPPORTS AND HANGERS SHALL PRESENT A NEAT, ORDERLY APPEARANCE. 17. ROOF MOUNTED EQUIPMENT SHALL BE SECURED TO STRUCTURE TO RESIST A 130 MPH WIND LOAD. 18. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL FIRE, SMOKE, AND ACOUSTICAL WALL ASSEMBLIES. 19. BEAM AND FLOOR PENETRATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. BEAM SLEEVES AND BEAM REINFORCING APPROVED BY STRUCTURAL ENGINEER SHALL BE FURNISHED AND INSTALLED BY THIS CONTRACTOR. 20. CONTRACTOR SHALL FURNISH U.L. APPROVED DRAWINGS FOR EACH TYPE OF FIRE RATED ASSEMBLY PENETRATION BY DUCTS, PIPES OR CONDUITS. THESE DRAWINGS SHALL BE DISPLAYED ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION. SEE SPECIFICATIONS. 21. CONTRACTOR SHALL GUARANTEE THE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE IN ADDITION TO THE WARRANTIES PROVIDED BY MATERIAL SUPPLIERS AND MANUFACTURERS. 22. EXIT WAYS SHALL BE KEPT CLEAR. IF AN EXIT MUST BE TEMPORARILY BLOCKED, PROVIDE THE REQUIRED BARRICADE AND DIRECTIONAL SIGNS FOR TEMPORARY EXITING AND SAFETY.		
METAL PIPES OR CONDUIT (1000-1999)		2	C-AJ-1226, F-A-1028, F-A-1017	C-AJ-1226, W-J-1067, W-J-1020, W-J-1248	W-L-1054, W-L-1058, W-L-1164, W-L-1506	CP 680, CP 618, FS-ONE MAX, CFS-S SIL, CFS-D, MINERAL WOOL	B	BURNER, COMBUSTION	USER'S CHOICE (*)	24 VAC WIRING						
NON-METALLIC PIPE OR CONDUIT (I.E. PVC, CPVC, ABS, FRP, ENT) (2000-2999)		1	F-A-2053, F-A-2025, C-AJ-2109, C-AJ-2098, C-AJ-2271, C-AJ-2167, C-BJ-2021, C-AJ-2342	C-AJ-2109, C-AJ-2098, C-AJ-2167, C-AJ-2271, C-AJ-2342	W-L-2078, W-L-2075, W-L-2128	CP 680, CP 643H, MINERAL WOOL, CP 644, FS-ONE MAX, CFS-S SIL, CFS-S SIL CG, CP 648	C	USER'S CHOICE (*)	CONTROL	CONTROL SIGNAL VDC WIRING						
		2	F-A-2053, F-A-2025, C-AJ-2109, C-AJ-2098, C-AJ-2271, C-AJ-2167, C-BJ-2021, C-AJ-2342	C-AJ-2109, C-AJ-2098, C-AJ-2167, C-AJ-2271, C-AJ-2342	W-L-2078, W-L-2075, W-L-2128	CP 680, CP 653, FS-ONE MAX, CP 618, CP 606, CFS-D, MINERAL WOOL	D	USER'S CHOICE (*)	DIFFERENTIAL							
SINGLE OR BUNDLED CABLES (3000-3999)		1	F-A-3007, C-AJ-3095, C-AJ-3180, C-AJ-3283	W-J-3036, C-AJ-3095, C-AJ-3180, W-J-3090, W-J-3167	W-L-3065, W-L-3111, W-L-3112, W-L-3334, W-L-3414, W-L-3396	CP 680, CP 653, FS-ONE MAX, CP 618, CP 606, CFS-D, CFS-CC	E	VOLTAGE	SENSOR (PRIMARY ELEMENT)							
CABLE TRAY (4000-4999)		1	C-AJ-4034, C-AJ-4035	W-J-4027, C-AJ-4034, C-AJ-4035	W-L-4011, W-L-4019, W-L-4081	CFS-BL, FS-ONE MAX, CP 620, CP 618	F	FLOW RATE, FLOW	--							
		2	F-A-3007, C-AJ-3095, C-AJ-3334, F-A-3060	W-J-3036, C-AJ-3095, C-AJ-3180, W-J-3090, W-J-3167, W-J-3189	W-L-3065, W-L-3111, W-L-3112, W-L-3334, W-L-3414, W-L-3396	CP 680, CP 653, FS-ONE MAX, CP 618, CP 606, CFS-D, CFS-CC	G	GAS	GLASS, VIEWING DEVICE							
MIXED PENETRANTS (8000-8999)		1	C-AJ-8099, C-AJ-8056, C-AJ-8143	C-AJ-8099, C-AJ-8056, W-J-8007, C-AJ-8143	W-L-1095, W-L-8013	FS-ONE MAX, CFS-BL, CP 620, CP 618	H	HAND (MANUAL)	--	DOMESTIC HOT WATER RETURN						
		2	C-AJ-8099, C-AJ-8056, C-AJ-8143, C-AJ-8252	C-AJ-8099, C-AJ-8056, W-J-8007, C-AJ-8143, C-AJ-8252	W-L-1095, W-L-8013	FS-ONE MAX, CFS-BL, CP 620, CP 618	I	CURRENT (ELECTRICAL)	INDICATE							
NOTES:												CONTROL DEVICES (SHOWN ON FLOOR PLANS)				
1. JOBSITE CONDITIONS OF EACH THROUGH-PENETRATION FIRESTOP SYSTEM MUST MEET ALL DETAILS OF THE UL-CLASSIFIED SYSTEM SELECTED.																
2. IF JOBSITE CONDITIONS DO NOT MATCH ANY UL-CLASSIFIED SYSTEMS IN THE SCHEDULES ABOVE, CONTACT FIRESTOP MANUFACTURER FOR ALTERNATIVE SYSTEMS OR ENGINEER JUDGMENT DRAWINGS.																
3. WHERE MORE THAN ONE APPLICABLE UL-CLASSIFIED SYSTEM IS LISTED IN THE SCHEDULES, CHOOSE THE UL SYSTEM WHICH IS MOST ECONOMICAL FOR EACH THROUGH-PENETRATION FIRESTOP SYSTEM.																
4. COORDINATE WORK WITH OTHER TRADES TO ENSURE THAT PENETRATION OPENING SIZES ARE APPROPRIATE FOR PENETRANT LOCATIONS, AND VICE-VERSA.																
5. ALL THROUGH-PENETRATION FIRESTOPS SHALL BE PROVIDED BY ONE MANUFACTURER. <u>APPROVED MANUFACTURERS:</u> HILTI, RECTORSOL, 3M, STL.																
																
NOTES: 1. FIELD VERIFY ALL WIRING TERMINATIONS. 2. FIELD VERIFY ALL CONNECTIONS. 3. ELECTRICAL POWER CONNECTIONS TO MOTOR BY DIVISION 26. 4. MOTOR RATED CONTACTOR, AND CONTROL COMPONENTS, AND ASSOCIATED WIRING BY DIVISION 25.																
A MOTOR RATED CONTACTOR - WIRING DETAIL																
																
NOTES: 1. REFER TO DIVISION 26 FOR CONTROL VOLTAGE CABLES. 2. REFER TO DIVISION 26 FOR RACEWAYS AND ELECTRICAL BOXES. 3. REFER TO DIVISION 27 FOR COMMUNICATIONS CABLES.																
B WALL-MOUNTED CONTROL DEVICE ROUGH-IN																

FLORIDA SHERIFFS YOUTH LEARNING CENTER AND BLACKBURN-HUNT BUILDING			
MAHAN DRIVE TALLAHASSEE, FL.			
			
Clemons, Rutherford, & Associates, Inc.			
Planners Interior Designers Construction Managers			
2027 Thomasville Road Tallahassee, Florida 32308			
phone 850-385-6153 fax 850-386-8420 cra@clemons-rutherford.com			
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Submittal			
Phase	Date	Drw	Chk
DESIGN DEVELOPMENT	02-28-25	MAW	RDR
50% CD	04-15-25	MAW	RDR
100% CD	07-18-25	MAW	RDR
Revision			
#	Description	Date	

KEYED NOTES:

① INSTALL TEMPERATURE AND HUMIDITY SENSOR(S) IN SUPPLY DUCT DROP FROM HOAS DUCTWORK IN THIS VICINITY. SEE SHEET M1.5.



ENGINEERING
114 EAST 8th AVENUE, TALLAHASSEE, FL 32303
PHONE 904.224.7622
www.H2Engineering.com

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LEARNING
CENTER AND
BLACKBURN-HUNT
BUILDING**

MAHAN DRIVE
TALLAHASSEE, FL.



**Clemons, Rutherford, &
Associates, Inc.**

Architects
Planners
Interior Designers
Construction Managers
2027 Thomasville Road
Tallahassee, Florida 32308
phone 850-385-6153
fax 850-386-8420
cra@clemons-rutherford.com

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Submittal			
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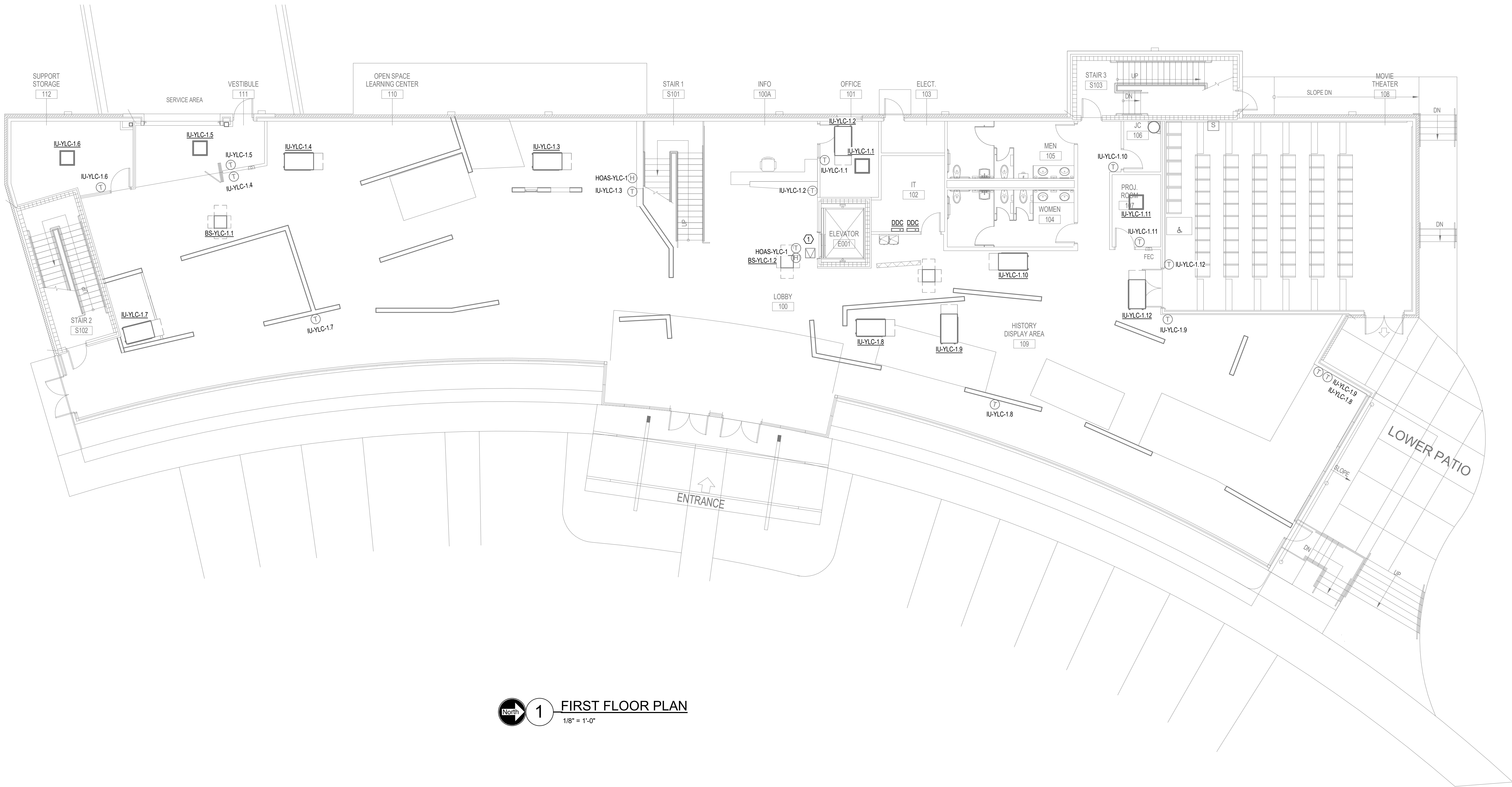
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Phase: **CONSTRUCTION
DOCUMENTS**

SHEET TITLE
**YOUTH LEARNING
CENTER - 1ST FLOOR
PLAN**

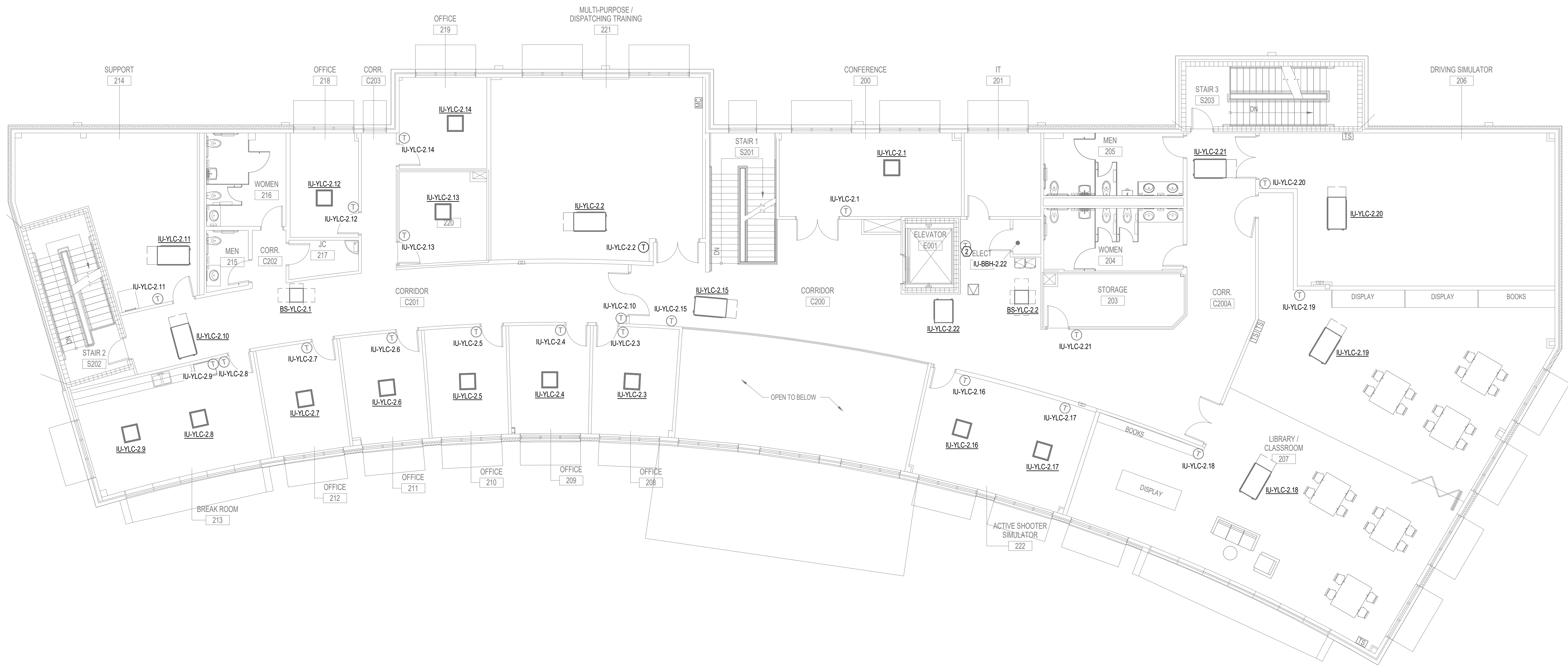
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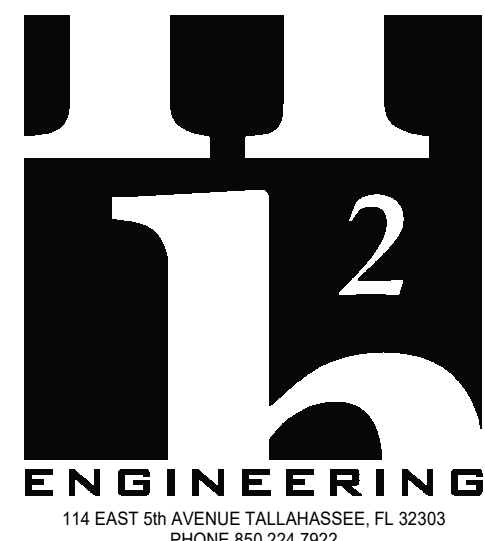
1 FIRST FLOOR PLAN
1/8" = 1'-0"

KEYED NOTES:

② MOUNT THERMOSTAT IN RETURN AIR DUCTWORK FROM ELEVATOR SHAFT. SEE SHEET M1.5



1 SECOND FLOOR PLAN
1/8" = 1'-0"



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FLORIDA SHERIFFS YOUTH LEARNING CENTER AND BLACKBURN-HUNT BUILDING

MAHAN DRIVE
TALLAHASSEE, FL.



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Architects
Planners
Interior Designers
Construction Managers
2027 Thomasville Road
Tallahassee, Florida 32308
phone 850-385-6153
fax 850-386-8420
cra@clemons-rutherford.com

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Submittal

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Revision

#	Description	Date

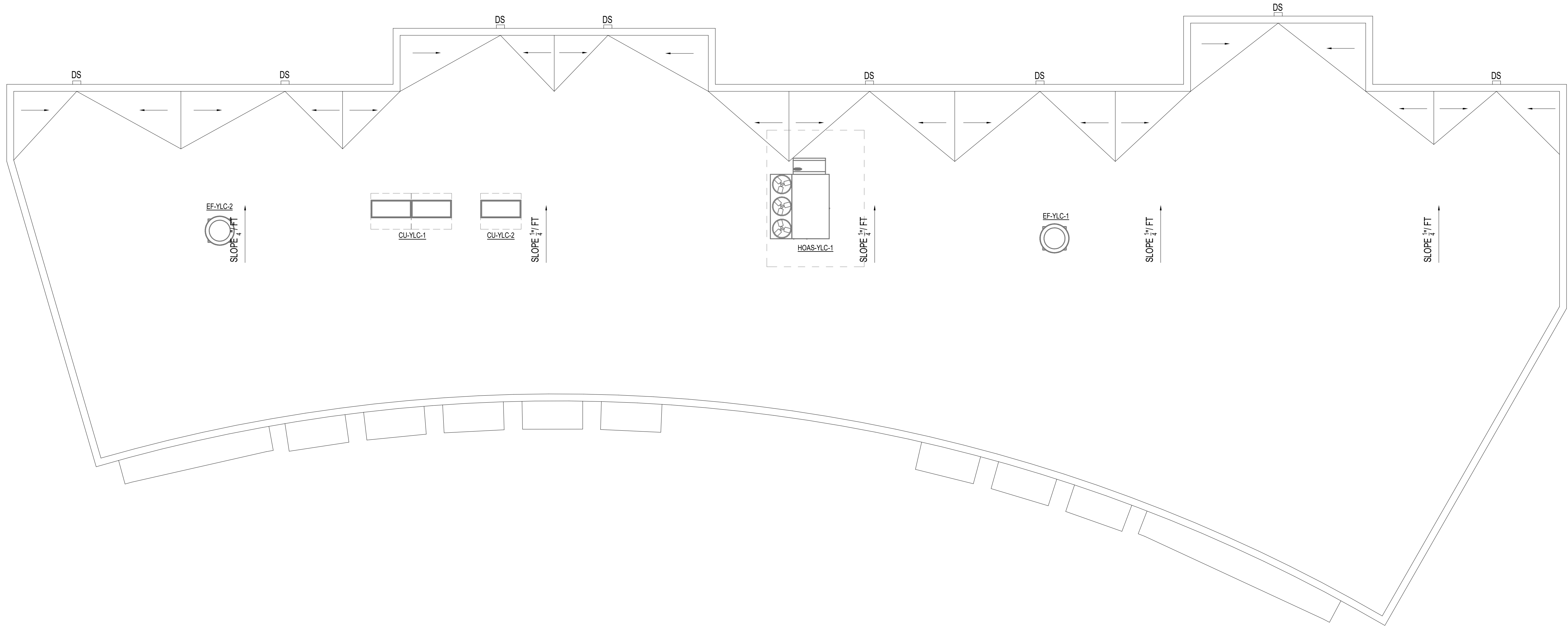
CRA Project # 24029

Phase: CONSTRUCTION
DOCUMENTS

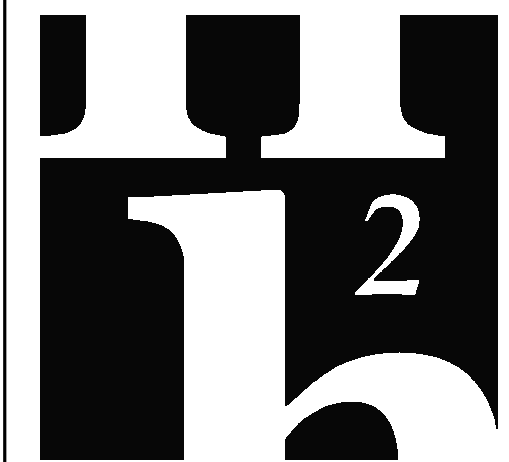
SHEET TITLE
YOUTH LEARNING
CENTER - 2ND FLOOR
PLAN

MC1.2

7/12/2025 4:52:22 AM Autodesk Docs: 254-179-Park Sheriff's Association - Learning Center.dwg 179-Park Sheriff's Association - Learning Center - MEP.dwg, 254.dwg



 **1** YOUTH LEARNING CENTER - ROOF PLAN
1/8" = 1'-0"



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PHONE 850.224.7922
www.H2Engineering.com

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agreement in writing and with appropriate compensation to CRA.

Submittal			
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DESIGN DEVELOPMENT	02-28-25	MAW	RDR
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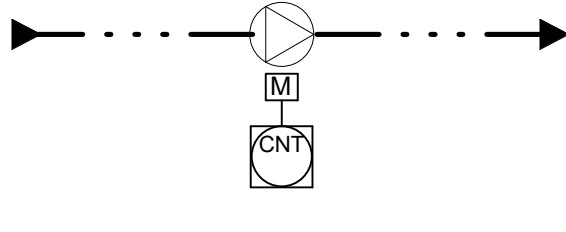
Revision		
#	Description	Date

CRA Project # **24029**
Phase: **CONSTRUCTION
DOCUMENTS**

SHEET TITLE
**YOUTH LEARNING
CENTER - ROOF PLAN**

MC1.5

MISCELLANEOUS

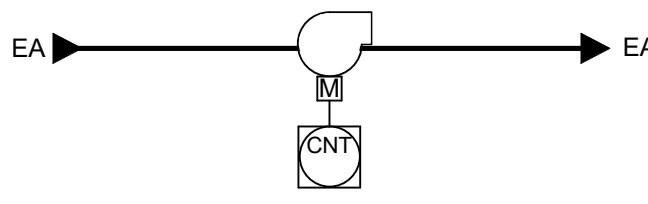


DOMESTIC HOT WATER CIRCULATION PUMPS

HOT WATER CIRCULATION PUMPS (CP-YLC-1)

A. CONTROLLED BY AN AQUASTAT WIRED IN SERIES WITH AN ELECTRONIC, PROGRAMMABLE TIMECLOCK, PROVIDED BY THE PLUMBING CONTRACTOR. PROVIDE AN OCCUPIED TIME SCHEDULE (MON-FRI: 7:00 AM - 6:00 PM / SAT-SUN: OFF). THE CIRCULATION PUMPS SHALL BE CONTROLLED AS FOLLOWS:

1. SCHEDULE OFF: PUMP OFF.
2. SCHEDULE ON / AQUASTAT > 120°F: PUMP OFF.
3. SCHEDULE ON / AQUASTAT < 110°F: PUMP ON.



FANS (EF-YLC-1, 2):

A. START / STOP: START / STOP OF THE EXHAUST FAN SHALL BE CONTROLLED THROUGH A MOTOR CONTACTOR. FAN SHALL BE INTERLOCKED WITH DESIGNATED HOAS UNIT AND OPERATE AS FOLLOWS:

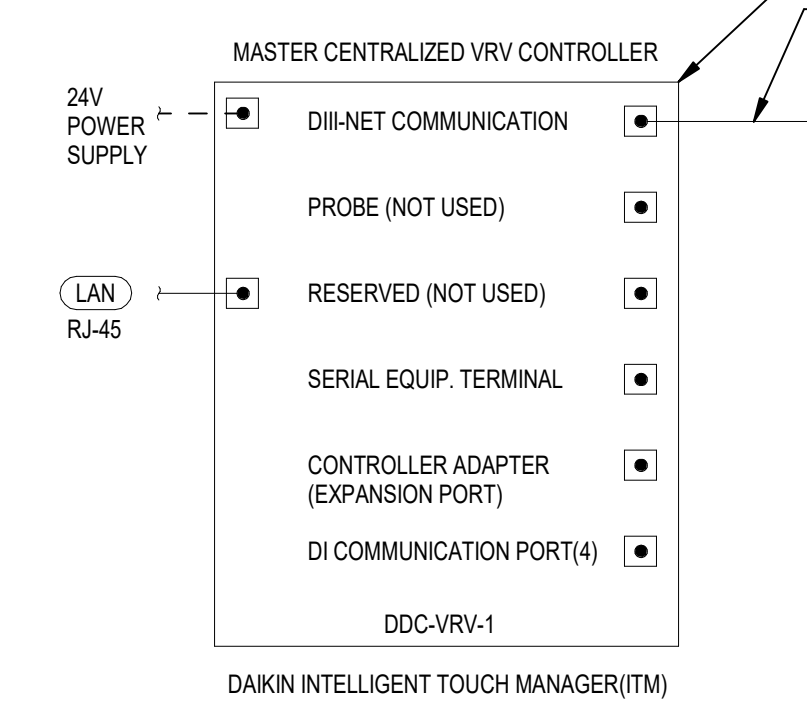
1. EF-YLC-1 AND EF-YLC-2 INTERLOCKED WITH HOAS-YLC-1
A. HOAS ON: FAN(S) ON.
B. HOAS OFF: FAN(S) OFF.

HIGH PERCENTAGE OUTSIDE AIR DX SYSTEM (HOAS-YLC-1)

1. GENERAL
A. THE HIGH PERCENTAGE OUTSIDE AIR UNIT SHALL BE CONTROLLED BY A SEPARATE, STAND-ALONE APPLICATION SPECIFIC CONTROLLER (ASC) PROVIDED AND CONFIGURED BY THE EQUIPMENT MANUFACTURER. THE ASC SHALL MONITOR AND CONTROL THE UNIT IN A STAND-ALONE MODE.

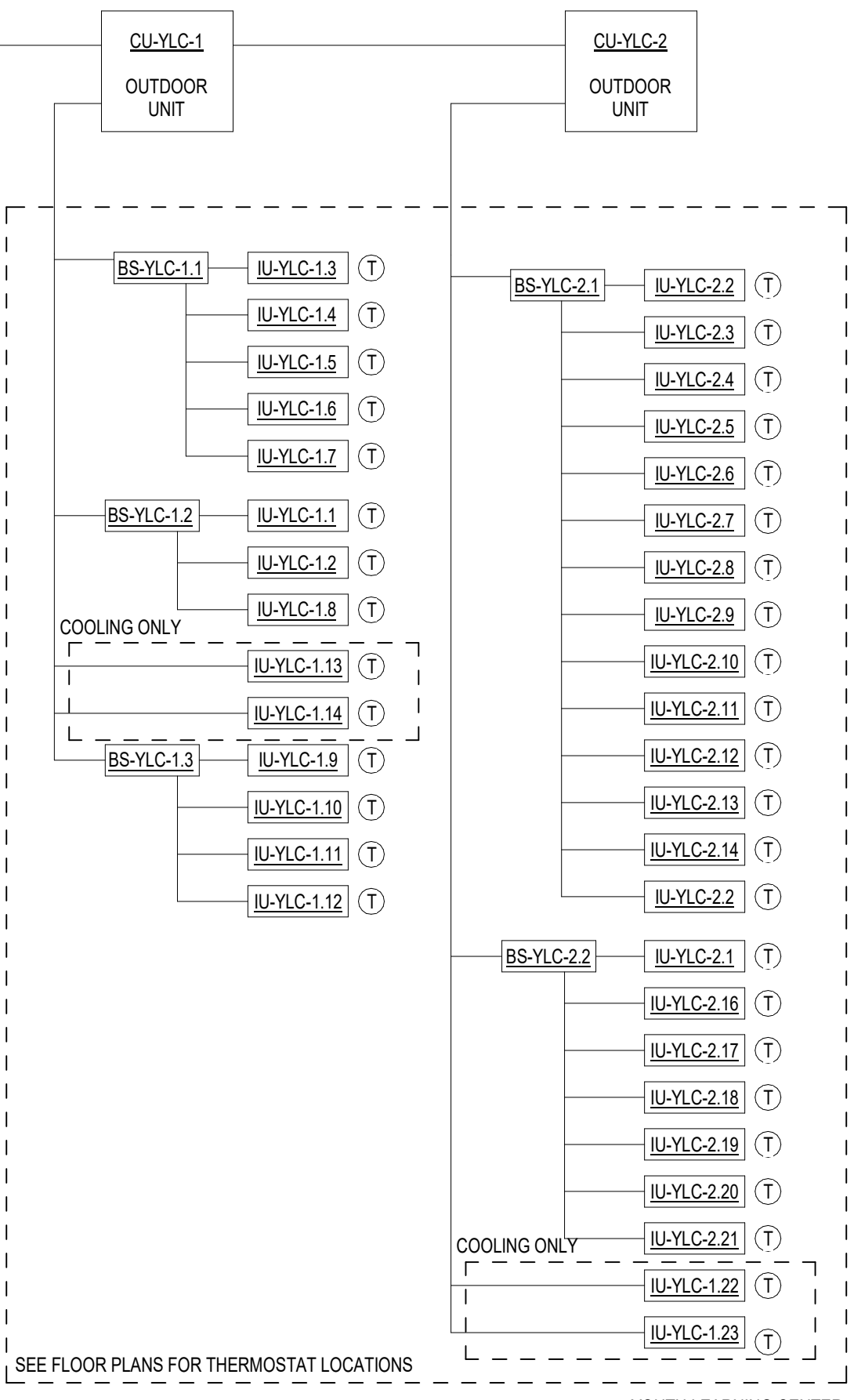
2. RUN CONDITIONS
A. TEMPERATURE AND HUMIDITY SET-POINTS:
1. PROVIDE OCCUPIED TEMPERATURE COOLING (74°F, ADJ) AND HEATING (70°F, ADJ) SET-POINTS. PROVIDE UNOCCUPIED TEMPERATURE COOLING (80°F, ADJ) AND HEATING (66°F, ADJ) SET-POINTS.
2. PROVIDE AN OCCUPIED HUMIDITY SET-POINT (56% ADJ). PROVIDE AN UNOCCUPIED HUMIDITY SET-POINT (60% ADJ).
B. OCCUPIED MODE: ENABLE THE UNIT BASED ON AN OCCUPIED TIME SCHEDULE (MON-FRI = 7:00 AM - 6:00 PM / SAT - SUN = OFF, ADJ).
1. COOLING MODE: IF THE OUTSIDE AIR TEMPERATURE RISES ABOVE THE COOLING ENABLE SET-POINT (75°F, ADJ) PLUS A DEAD-BAND, THEN INITIATE COOLING MODE. DISABLE COOLING MODE IF THE OUTSIDE AIR TEMPERATURE IS BELOW THE COOLING LOCKOUT SET-POINT (60°F, ADJ).
2. HEATING MODE: IF THE OUTSIDE AIR TEMPERATURE FALLS BELOW THE HEATING ENABLE SET-POINT (55°F, ADJ) MINUS A DEAD-BAND, THEN INITIATE HEATING MODE. DISABLE HEATING MODE IF THE OUTSIDE AIR TEMPERATURE IS ABOVE THE HEATING LOCKOUT SET-POINT (70°F, ADJ).
3. DEHUMIDIFICATION MODE: IF THE RETURN AIR HUMIDITY RISES ABOVE THE RETURN AIR HUMIDITY SET-POINT (55%, AD), THEN ENABLE DEHUMIDIFICATION MODE.
4. VENT MODE: IF THE UNIT IS OPERATING IN OCCUPIED MODE AND THERE IS NO DEMAND FOR COOLING, HEATING, OR DEHUMIDIFICATION, THEN INITIATE VENT MODE.
C. UNOCCUPIED MODE: THE UNIT IS OFF EXCEPT AS FOLLOWS:
1. TEMPERATURE CONTROL: DURING UNOCCUPIED HOURS, RESET THE COOLING AND HEATING TEMPERATURE SET-POINTS EQUAL TO THE RESPECTIVE UNOCCUPIED TEMPERATURE SET-POINTS. ENABLE COOLING AND HEATING MODES OF OPERATION TO MAINTAIN THE UNOCCUPIED TEMPERATURE SET-POINTS.
2. HUMIDITY CONTROL: DURING UNOCCUPIED HOURS, RESET THE DEHUMIDIFICATION SET-POINT TO UNOCCUPIED SET-POINT. IF THE SPACE HUMIDITY RISES ABOVE SET-POINT, THEN INITIATE DEHUMIDIFICATION MODE UNTIL SPACE HUMIDITY IS BELOW SET-POINT MINUS A DEAD-BAND.
3. TENANT OVERRIDE: IF THE OVERRIDE BUTTON IS ACTIVATED AT THE SPACE SENSOR, THEN INITIATE AN OCCUPIED MODE OF OPERATION FOR A MINIMUM TIME DELAY (2 HOURS, ADJ).
3. SUPPLY FAN
A. OCCUPIED MODE: THE SUPPLY FAN OPERATES CONTINUOUSLY. PROGRAM A MINIMUM SPEED (30%) AND A RAMP TIME (60 SEC) INTO THE AFD.
B. UNOCCUPIED MODE: THE SUPPLY FAN IS OFF UNLESS THERE IS A CALL FOR ANY MODE.
4. ECONOMIZER DAMPER
A. OCCUPIED MODE: MODULATE DAMPER TO MAINTAIN AN OUTSIDE AIRFLOW SET-POINT. SEE MECHANICAL SCHEDULES.
B. UNOCCUPIED MODE: CLOSE DAMPER.
5. COMPRESSORS
A. SUPPLY FAN OFF: COMPRESSORS OFF.
B. COOLING MODE: STAGE/MODULATE COMPRESSORS IN SEQUENCE TO MAINTAIN THE SUPPLY AIR TEMPERATURE SET-POINT (54°F, ADJ) SEE MECHANICAL SCHEDULES.
C. HEATING MODE: COMPRESSORS OFF.
D. DEHUMIDIFICATION MODE: STAGE/MODULATE COMPRESSORS IN SEQUENCE TO MAINTAIN THE EVAPORATOR COIL SUCTION TEMPERATURE SET-POINT (52°F, ADJ).
E. VENT MODE: COMPRESSORS OFF.
F. COMPRESSOR SEQUENCING:
1. COMPRESSOR IN AFD: IF THE VARIABLE SPEED COMPRESSOR IS OPERATING AT MAXIMUM SPEED AND THE TEMPERATURE IS ABOVE OR BELOW SETPOINT (BASED ON OPERATING MODE), THEN STAGE THE LAG COMPRESSOR ON. MODULATE THE VARIABLE SPEED COMPRESSOR TO MAINTAIN THE TEMPERATURE SETPOINT.
2. COMPRESSOR SUBTRACT: IF MORE THAN ONE COMPRESSOR IS OPERATING, THE VARIABLE SPEED COMPRESSOR IS AT MINIMUM SPEED, AND THE TEMPERATURE IS ABOVE OR BELOW SETPOINT (BASED ON OPERATING MODE), THEN STAGE THE LAG COMPRESSOR OFF. MODULATE THE VARIABLE SPEED COMPRESSOR TO MAINTAIN THE TEMPERATURE SETPOINT.
6. HOT GAS REHEAT VALVE
A. SUPPLY FAN OFF: HOT GAS REHEAT VALVE CLOSED.
B. DEHUMIDIFICATION MODE: MODULATE HOT GAS REHEAT VALVE TO MAINTAIN THE SUPPLY AIR TEMPERATURE SET-POINT (70°F, ADJ).
C. ALL OTHER MODES: HOT GAS REHEAT VALVE CLOSED.
7. ELECTRIC HEAT
A. SUPPLY FAN OFF: HEATER OFF.
B. HEATING MODE: MODULATE ELECTRIC HEAT TO MAINTAIN THE SUPPLY AIR TEMPERATURE SET-POINT (70°F, ADJ).
C. ALL OTHER MODES: HEATER OFF.

VARIABLE REFRIGERANT VOLUME



24V POWER SUPPLY
LAN
RJ-45
MASTER CENTRALIZED VRV CONTROLLER
DII-NET COMMUNICATION
PROBE (NOT USED)
RESERVED (NOT USED)
SERIAL EQUIP. TERMINAL
CONTROLLER ADAPTER (EXPANSION PORT)
DI COMMUNICATION PORT(4)
DDC-VRV-1
DAKIN INTELLIGENT TOUCH MANAGER(ITM)

SEE FLOOR PLANS FOR DDC CABINET (TYP).
PROPRIETARY NETWORK COMMUNICATION, DAKIN DII-NET (TYP).

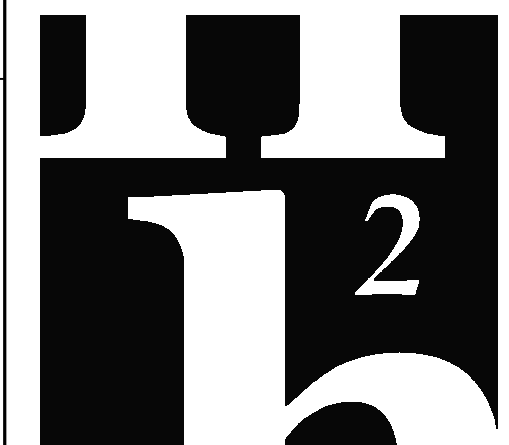


OU-YLC-1
OUTDOOR UNIT
OU-YLC-2
OUTDOOR UNIT
BS-YLC-1.1
IU-YLC-1.1
IU-YLC-1.2
IU-YLC-1.3
IU-YLC-1.4
IU-YLC-1.5
IU-YLC-1.6
IU-YLC-1.7
BS-YLC-1.2
IU-YLC-1.8
IU-YLC-1.9
IU-YLC-1.10
IU-YLC-1.11
IU-YLC-1.12
BS-YLC-1.3
IU-YLC-1.13
IU-YLC-1.14
IU-YLC-1.15
IU-YLC-1.16
IU-YLC-1.17
IU-YLC-1.18
IU-YLC-1.19
IU-YLC-1.20
IU-YLC-1.21
IU-YLC-1.22
IU-YLC-1.23
BS-YLC-2.1
IU-YLC-2.1
IU-YLC-2.2
IU-YLC-2.3
IU-YLC-2.4
IU-YLC-2.5
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IU-YLC-2.19
IU-YLC-2.20
IU-YLC-2.21
IU-YLC-2.22
IU-YLC-2.23
CU-YLC-1.23
COOLING ONLY
HEATING ONLY
SEE FLOOR PLANS FOR THERMOSTAT LOCATIONS
YOUTH LEARNING CENTER

VARIABLE REFRIGERANT VOLUME (VRV) SYSTEMS:

1. GENERAL
A. VRV SYSTEMS SHALL BE CONTROLLED BY SEPARATE, STAND-ALONE, APPLICATION SPECIFIC CONTROLLERS (ASC) PROVIDED AND CONFIGURED BY THE EQUIPMENT MANUFACTURER TO OPERATE AND CONTROL THE SYSTEMS IN STAND-ALONE MODE.

2. OPERATING CONDITIONS
A. VRV SYSTEMS SHALL OPERATE PER THE OWNER'S OCCUPIED/UNOCCUPIED SCHEDULE. COORDINATE SCHEDULE WITH OWNER.
B. VRV FAN AND COIL UNITS SHALL BE CONTROLLED BY 7-DAY PROGRAMMABLE THERMOSTATS LOCATED AS INDICATED ON THE CONTROLS DRAWINGS. SET TEMPERATURES AS FOLLOWS:
1. OCCUPIED MODE
A. COOLING: 74 DEGREES F.
B. HEATING: 70 DEGREES F.
2. UNOCCUPIED MODE
A. COOLING: 78 DEGREES F.
B. HEATING: 68 DEGREES F.



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Florida Registry #665
Robert D. Richards, P.E. #90648

FLORIDA SHERIFFS YOUTH LEARNING CENTER AND BLACKBURN-HUNT BUILDING

MAHAN DRIVE
TALLAHASSEE, FL.



Clemons, Rutherford, & Associates, Inc.

Architects
Planners
Interior Designers
Construction Managers
2027 Thomasville Road
Tallahassee, Florida 32308
phone 850-385-6153
fax 850-386-8420
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Submittal			
Phase	Date	Drw	Chk
DESIGN DEVELOPMENT	02-28-25	MAW	RDR
50% CD	04-15-25	MAW	RDR
100% CD	07-18-25	MAW	RDR

Revision		
#	Description	Date

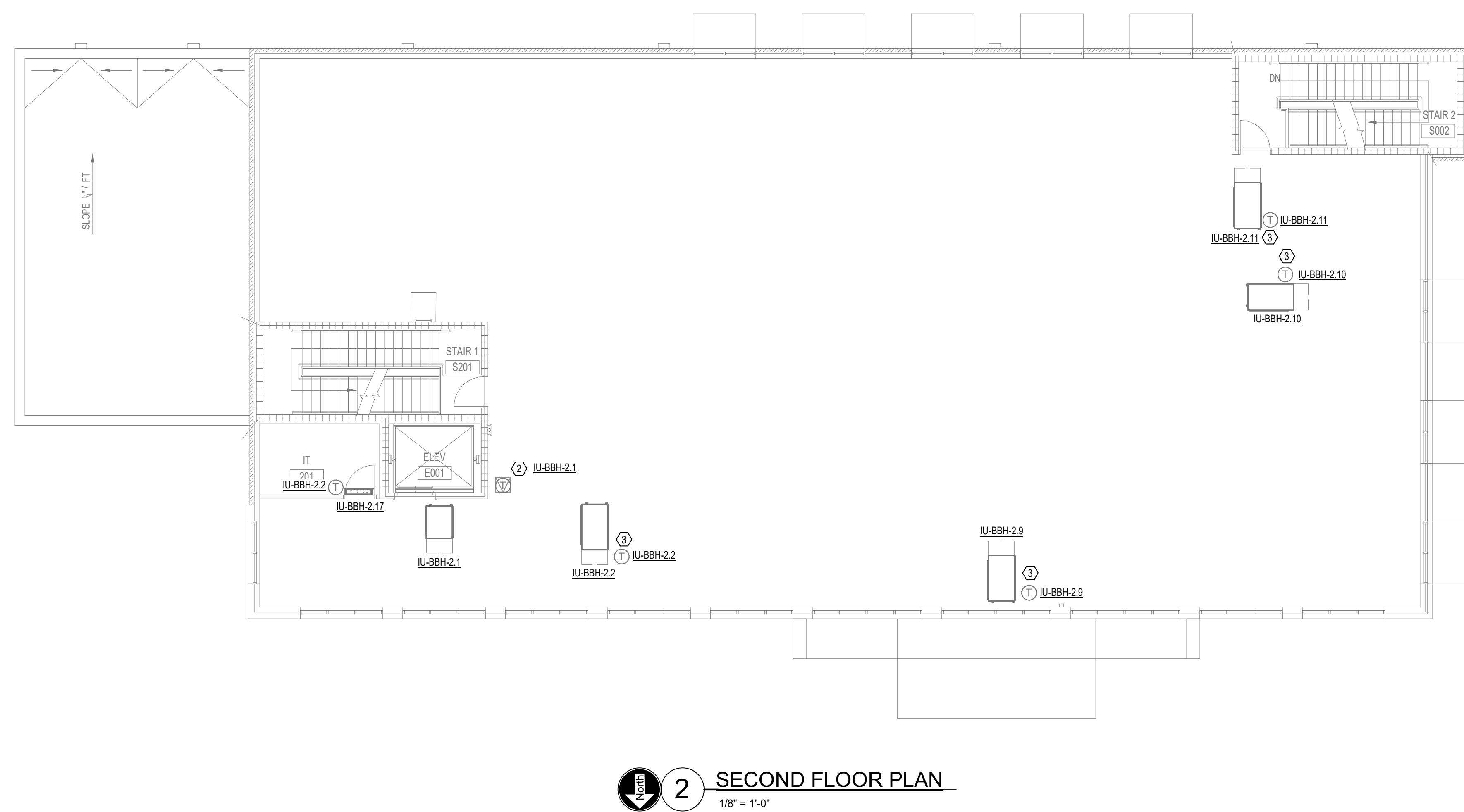
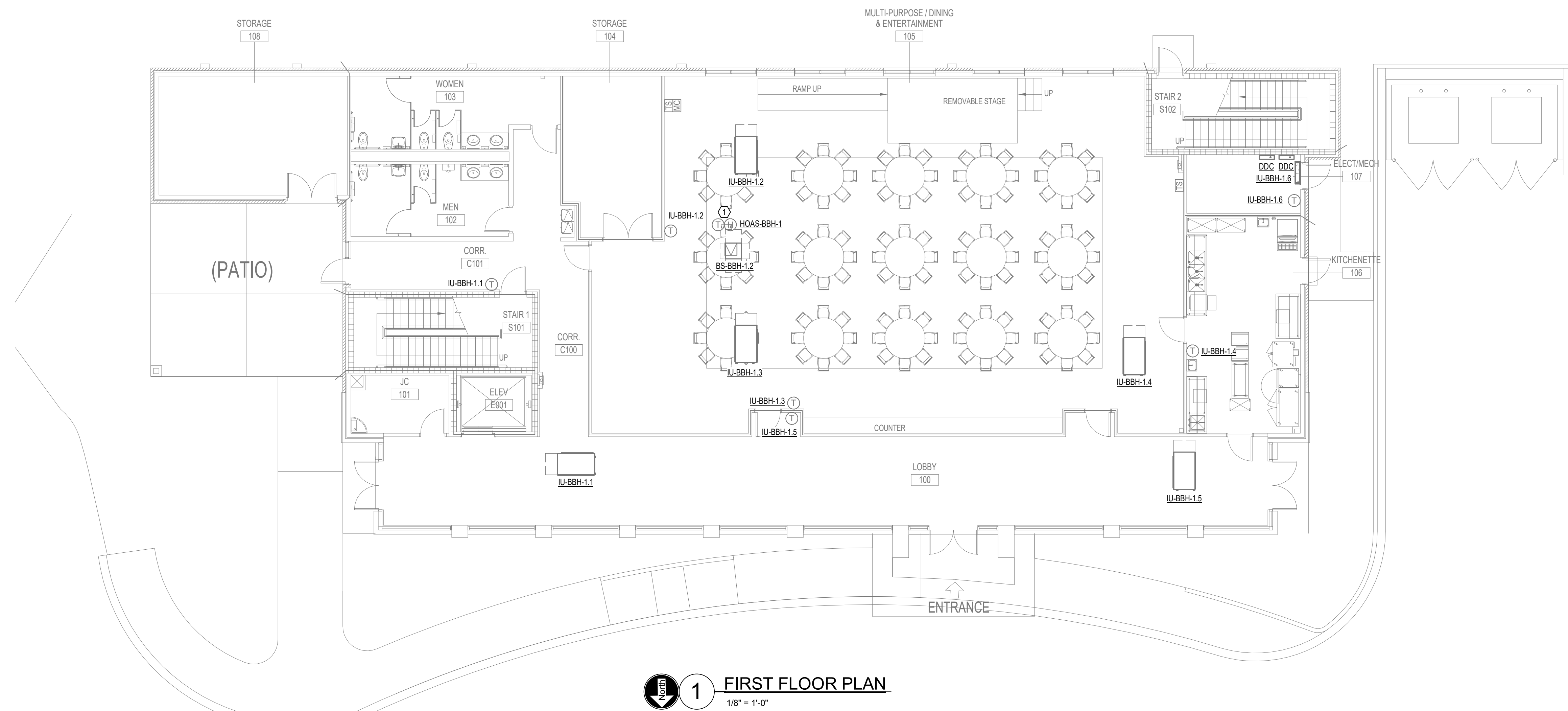
CRA Project # 24029

Phase: CONSTRUCTION DOCUMENTS

SHEET TITLE
CONTROLS

MC2.1

FIRESTOP SCHEDULE OF THROUGH PENETRATION SYSTEMS. BASIS OF DESIGN: HILTI, INC.					SYMBOLS, NOTES, ABBREVIATIONS, ETC.			AIR DISTRIBUTION		INSTRUMENTATION AND CONTROL NOTES		GENERAL NOTES					
TYPE OF PENETRANT	F-RATING (HR)	CONCRETE FLOORS	CONCRETE OR BLOCK WALLS	GYPSUM WALLS	HILTI PRODUCTS		IDENTIFICATION LETTERS			NEW DUCT		ELECTRICAL AND CONTROL WIRING		1. THE INTENT OF THE INSTRUMENTATION AND CONTROL DRAWINGS IS TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM IN ACCORDANCE WITH THE SEQUENCE(S) OF OPERATION. THE DIAGRAMS, POINTS LISTS, AND SEQUENCES OF OPERATION INCLUDE HEREIN DESCRIBE THE INTENDED SEQUENCES OF OPERATION FOR SYSTEMS AND MAJOR COMPONENTS BUT DO NOT DEFINE IN DETAIL THE OPERATION OF MINOR COMPONENTS, RELAYS, SWITCHES, WIRING, OR OTHER SMALL DEVICES REQUIRED FOR THE PROPER OPERATION OF THE CONTROL SYSTEM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS AND/OR WIRING TO ACHIEVE THE SEQUENCE OF OPERATION. PROVIDE ALL CONTROL WIRING, CONDUIT, RELAYS, AND ELECTRICAL WORK REQUIRED AS INTEGRAL PART OF THE INSTRUMENTATION AND CONTROL SYSTEM UNLESS NOTED OTHERWISE. WORK SHALL COMPLY WITH REQUIREMENTS OF DIVISIONS 26, 27, AND 28 DRAWINGS AND SPECIFICATIONS. 2. PROVIDE ALL CONTROL WIRING, CONDUIT, RELAYS, AND ELECTRICAL WORK REQUIRED AS INTEGRAL PART OF THE INSTRUMENTATION AND CONTROL SYSTEM UNLESS NOTED OTHERWISE. WORK SHALL COMPLY WITH REQUIREMENTS OF DIVISIONS 26, 27, AND 28 DRAWINGS AND SPECIFICATIONS. 3. ALL GAS CONFIGURATIONS (SETPPOINTS, TIME DELAYS, RESET LIMITS, TUNING PARAMETERS, ETC) SHALL BE ADJUSTABLE BY THE OPERATOR THROUGH GAS WORKSTATION OR PORTABLE OPERATOR TERMINAL WITHOUT ANY HARDWARE OR SOFTWARE REVISIONS 4. COORDINATE ALL WORK WITH OTHER TRADES INVOLVED. INTERFACE EQUIPMENT AND WIRING SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER. 5. COORDINATE BUILDING OCCUPANCY SCHEDULES (OCCUPIED AND UNOCCUPIED) WITH BUILDING OWNER 6. COORDINATE INSTALLATION LOCATION OF ALL CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO: SENSORS, METERS, SWITCHES, VALVES, DAMPERS, ETC. COORDINATE AND ENSURE CONTROL DEVICES ARE INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS, INCLUDING UPSTREAM AND DOWNSTREAM DIAMETERS FOR FLOW METERS, PROPER ORIENTATION TO PREVENT MOISTURE INTRUSION, AND DISTANCES FROM AIR OUTLETS TO ENSURE PROPER TEMPERATURE READINGS. 7. LOCATE THERMOSTATS AND OTHER CONTROL DEVICES REQUIRING OCCUPANCY MONITORING OR ADJUSTMENT AT AN ELEVATION 4'-0" ABOVE FINISHED FLOOR, IN ACCORDANCE WITH ADA REGULATIONS 8. IF FIELD ADJUSTMENTS ARE MADE TO THE BAS CONFIGURATIONS DURING FINAL TESTING / VERIFICATION/ COMMISSIONING, SET THE FACTORY DEFAULT VALUES IN THE CONTROLLERS TO MATCH FINAL VALUES 9. PROVIDE ACCESS PANEL AT EACH LOCATION WHERE A VALVE, DAMPER, OR OTHER DEVICE REQUIRING SERVICE IS LOCATED ABOVE AN INACCESSIBLE CEILING OR INSIDE A WALL. ACCESS PANELS IN RATED CONSTRUCTION SHALL BEAR A LABEL, COORDINATE ACCESS PANEL LOCATION WITH ARCHITECT/ENGINEER PRIOR TO INSTALLATION 10. PROVIDE DUCT ACCESS DOOR AT EACH AIRFLOW MEASURING STATION. 11. CONTROLLED SYSTEMS SHALL AUTOMATICALLY RESET ON EMERGENCY POWER AND RESTORATION OF NORMAL POWER, UNLESS OTHERWISE PROVIDED. TIME DELAYS ON RESTART, AS NECESSARY, TO STAGGER THE START OF EQUIPMENT SO THAT ALL MOTORS DO NOT ATTEMPT TO START AT THE SAME TIME. 12. SAFETIES SHALL BE HARDWIRED UNLESS NOTED OTHERWISE. 13. WHERE VFD'S ARE LOCATED DIRECTLY UNDER PIPING, PROVIDE GALVANIZED SHEET METAL DRIP SHIELDING AT 18" ABOVE VFD'S SLOPED 1% FROM THE MOUNTING SURFACE TOWARD THE FRONT OF THE DRIVES, AND EXTENDING TO 12" BEYOND EACH DRIVE FACE.			
					FIRST - LETTER			SUCCEEDING - LETTERS									
					MEASURED OR INITIATING VARIABLE			READOUT OR PASSIVE FUNCTION			OUTPUT FUNCTION						
					A ANALYSIS			ALARM									
					B BURNER, COMBUSTION			USER'S CHOICE (*)			USER'S CHOICE (*)						
					C USER'S CHOICE (*)						CONTROL						
					D USER'S CHOICE (*)			DIFFERENTIAL									
					E VOLTAGE			SENSOR (PRIMARY ELEMENT)									
					F FLOW RATE, FLOW						120 VAC WIRING						
					G GAS			GLASS, VIEWING DEVICE			24 VAC WIRING						
					H HAND (MANUAL)						CONTROL SIGNAL VDC WIRING						
					I CURRENT (ELECTRICAL)			INDICATE									
					J POWER												
					K TIME, SCHEDULE												
					L LEVEL			LIGHT (PILOT)									
					M MOISTURE, HUMIDITY												
					N USER'S CHOICE (*)			USER'S CHOICE (*)			USER'S CHOICE (*)						
					O USER'S CHOICE (*)			ORIFICE, RESTRICTION									
					P PRESSURE, VACUUM			POINT (TEST) CONNECTION									
					Q QUANTITY			INTEGRATE / TOTALIZE									
					R RADIATION			RECORD									
					S SPEED, FREQUENCY						SWITCH						
					T TEMPERATURE						TRANSMIT						
					U MULTIVARIABLE			MULTIFUNCTION			MULTIFUNCTION						
					V VIBRATION, MECHANICAL ANALYSIS						VALVE, DAMPER, LOUVER						
					W WEIGHT, FORCE			WELL, PROBE									
					X SMOKE, FIRE			UNCLASSIFIED			UNCLASSIFIED						
					Y EVENT, STATE, OR PRESENCE						RELAY, COMPUTE, CONVERT						
					Z POSITION, DIMENSION						DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT						
					(*) WHEN USED, EXPLANATION IS SHOWN ADJACENT TO INSTRUMENT SYMBOL.												
					GENERAL INSTRUMENT / FUNCTION SYMBOLS												
					CONTROL DEVICE / INSTRUMENT				MODIFIERS:								
					XX YY				AVG AVERAGE								
					CO2				CARBON MONOXIDE								
					DPT				DEWPOINT TEMPERATURE								
					ENT				ENTHALPY								
					EX				EXISTING								
					FC				FAIL CLOSED								
					FO				FAIL OPEN								
					FTL				FAIL TO LAST POSITION								
					HIGH				HIGH LIMIT								
					HUM				RELATIVE HUMIDITY								
					LOW				LOW LIMIT								
					NC				NORMALLY CLOSED								
					NO				NORMALLY OPEN								
					O2				OXYGEN								
					SOR				SILICONE CONTROLLED RECTIFIER								
					VOC				VOLATILE ORGANIC COMPOUND								
					WBT				WET BULB TEMPERATURE								
					◇				KEY NOTE								
					GTE 01				GAS TRANSMITTER & ELEMENT FOR CO2								
					SEQUENCE OF OPERATION DEFINITIONS												
					ENABLE				ALLOW AN OPERATION TO START								
					START				REQUIRE AN OPERATION TO START								
					DISABLE				PREVENT AN OPERATION FROM STARTING								
					STOP				REQUIRE AN OPERATION TO STOP								
					PROVE				COMMAND EQUALS STATUS								
					100%				MAXIMUM COMMAND OR FULLY OPEN								
					0%				MINIMUM COMMAND OR FULLY CLOSED								
					MECHANICAL COMPONENTS (SHOWN IN DIAGRAMS)												
					FAN												
					PUMP												
					ELECTRICAL COMPONENTS & CONTROLLER (SHOWN IN DIAGRAMS)												
					MOTOR STARTER (PROVIDED BY OTHERS) - SEE WIRING DETAIL A/C0.1												
					RELAY (NORMALLY OPEN)												
					RELAY (NORMALLY CLOSED)												
					TRANSFORMER												
					NETWORK COMMUNICATION LINK TO BAS												
					ELECTRIC MOTOR												



2 MOUNT THERMOSTAT IN RETURN AIR DUCTWORK FROM ELEVATOR SHAFT. SEE SHEET M1.5



H2E PROJECT No. 24179

Florida Registry #2485
Robert D. Richards, P.E. #90648

MAHAN DRIVE
TALLAHASSEE, FL.



Architects
Planners
Interior Designers
Construction Managers

2027 Thomasville Road
Tallahassee, Florida 32308

phone 850-385-6153
fax 850-386-8420
cra@clemons-rutherford.com

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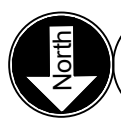
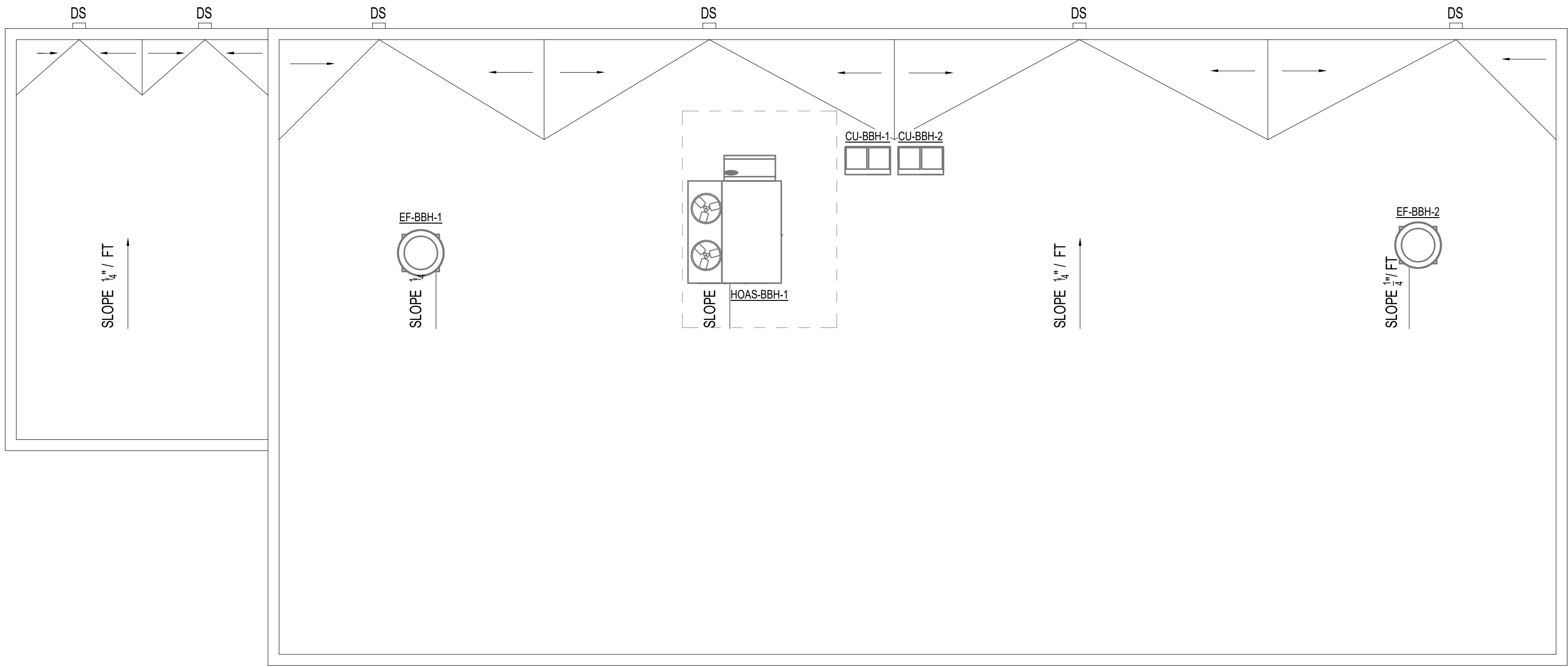
CRA Project #	24029
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Phase: **CONSTRUCTION DOCUMENTS**

SHEET TITLE
**BLACKBURN-HUNT
BUILDING - SECOND
FLOOR**
MC1.3A



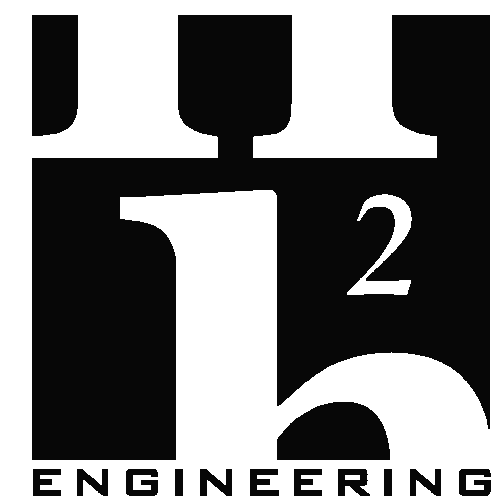
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2

BLACKBURN-HUNT BUILDING - ROOF PLAN

1/8" = 1'-0"



ENGINEERING
114 EAST 8th AVENUE TALLAHASSEE, FL 32303
PHONE 850.224.7622
www.H2Engineering.com

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Florida Registry #K665
Robert D. Richards, P.E. #90648

FLORIDA SHERIFFS YOUTH LEARNING CENTER AND BLACKBURN-HUNT BUILDING

MAHAN DRIVE
TALLAHASSEE, FL.



Clemons, Rutherford, &
Associates, Inc.

Architects
Planners
Interior Designers
Construction Managers
2027 Thomasville Road
Tallahassee, Florida 32308
phone 850-385-6153
fax 850-386-8420
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Submittal			
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DESIGN DEVELOPMENT	02-28-25	MAW	RDR
50% CD	04-15-25	MAW	RDR
100% CD	07-18-25	MAW	RDR

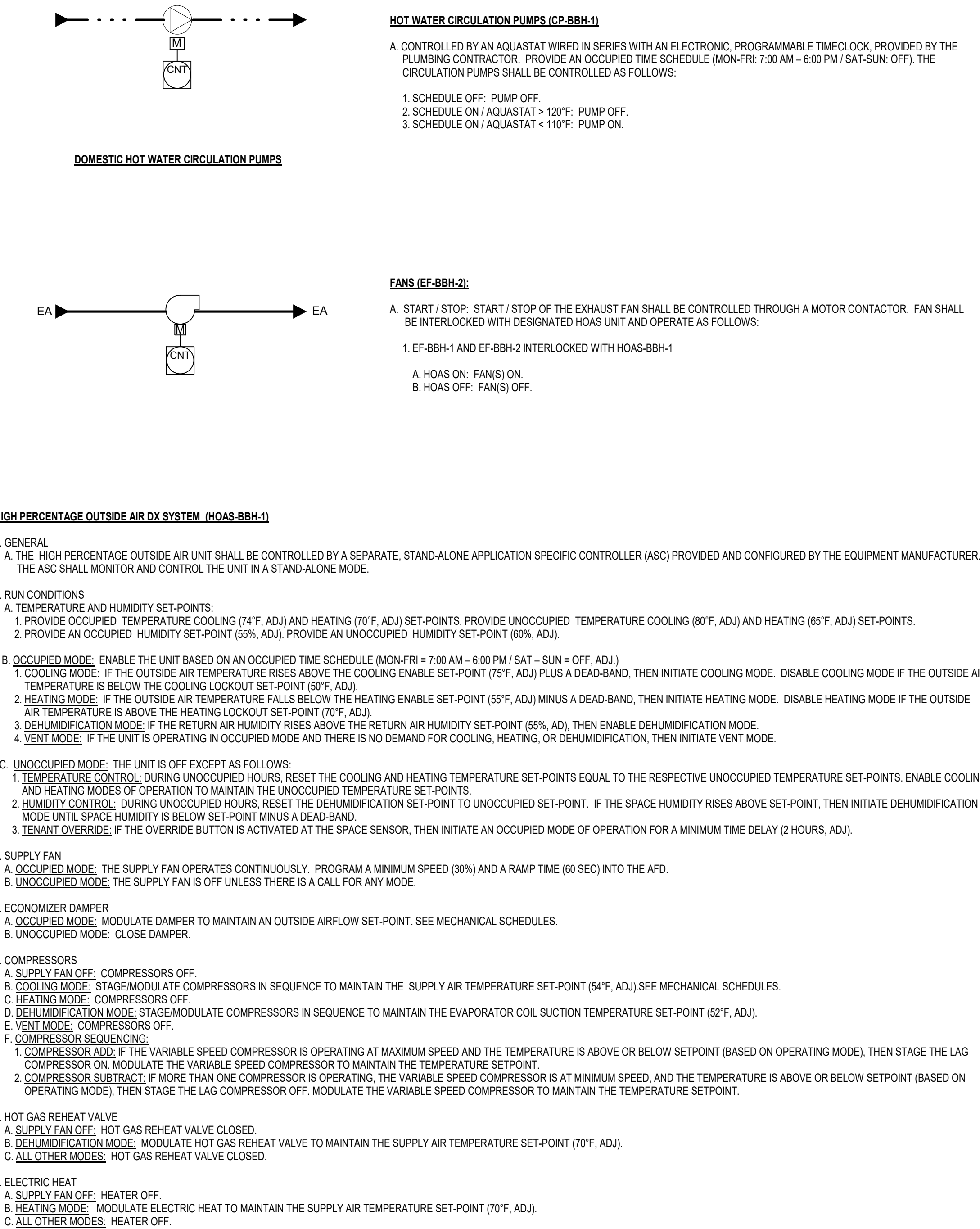
Revision		
#	Description	Date

CRA Project # 24029
Phase: CONSTRUCTION
DOCUMENTS

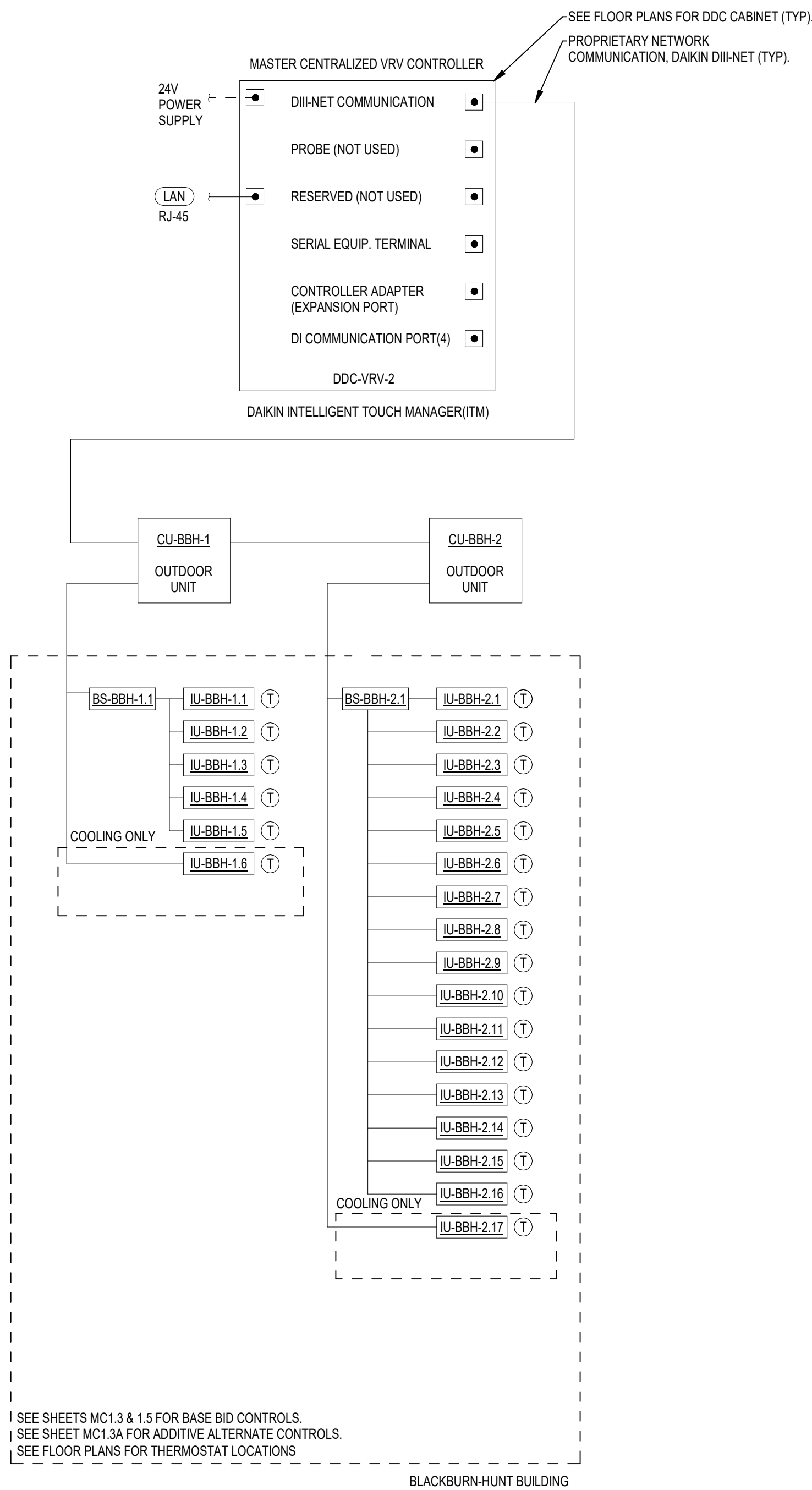
SHEET TITLE
BLACKBURN-HUNT
BUILDING - ROOF PLAN

MC1.5

MISCELLANEOUS

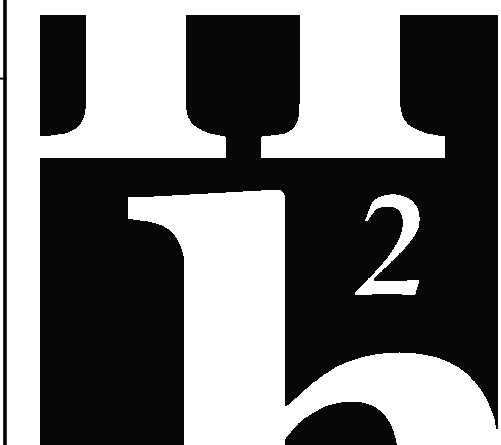


VARIABLE REFRIGERANT VOLUME



VARIABLE REFRIGERANT VOLUME (VRV) SYSTEMS:

1. GENERAL
A. VRV SYSTEMS SHALL BE CONTROLLED BY SEPARATE, STAND-ALONE, APPLICATION SPECIFIC CONTROLLERS (ASC) PROVIDED AND CONFIGURED BY THE EQUIPMENT MANUFACTURER TO OPERATE AND CONTROL THE SYSTEMS IN STAND-ALONE MODE.
2. OPERATING CONDITIONS
A. VRV SYSTEMS SHALL OPERATE PER THE OWNER'S OCCUPIED/UNOCCUPIED SCHEDULE. COORDINATE SCHEDULE WITH OWNER.
B. VRV FAN AND COIL UNITS SHALL BE CONTROLLED BY 7-DAY PROGRAMMABLE THERMOSTATS LOCATED AS INDICATED ON THE CONTROLS DRAWINGS. SET TEMPERATURES AS FOLLOWS:
1. OCCUPIED MODE
A. COOLING: 74 DEGREES F.
B. HEATING: 70 DEGREES F.
2. UNOCCUPIED MODE
A. COOLING: 78 DEGREES F.
B. HEATING: 68 DEGREES F.



H2
ENGINEERING
114 EAST 3RD AVENUE, TALLAHASSEE, FL 32303
PHONE 850.224.7622
www.H2Engineering.com

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Florida Registry #4665
Robert D. Richards, P.E. #90648

FLORIDA
SHERIFFS YOUTH
LEARNING
CENTER AND
BLACKBURN-HUNT
BUILDING

MAHAN DRIVE
TALLAHASSEE, FL.



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Associates, Inc.

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phone 850-385-6153
fax 850-386-8420
cra@clemons-rutherford.com

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Submittal			
Phase	Date	Drw	Chk
DESIGN DEVELOPMENT	02-28-25	MAW	RDR
50% CD	04-15-25	MAW	RDR
100% CD	07-18-25	MAW	RDR

Revision		
#	Description	Date

CRA Project # 24029

Phase: CONSTRUCTION DOCUMENTS

SHEET TITLE
CONTROLS

MC2.1