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M 220000 CODE COMPLIANCE

1. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 8TH EDITION (2023) FLORIDA BUILDING CODE
   - A. BUILDING EDITION
   - B. EXISTING BUILDING EDITION
   - C. MECHANICAL EDITION
   - D. PLUMBING EDITION
   - E. FUEL GAS EDITION
   - F. ENERGY EFFICIENCY EDITION
   - G. 8TH EDITION (2023) FLORIDA FIRE PREVENTION CODE.
2. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
   - A. NFPA-1 NATIONAL FIRE CODE WITH FLORIDA MODIFICATIONS
   - B. NFPA-70 NATIONAL ELECTRIC CODE
   - C. NFPA-72 NATIONAL FIRE ALARM CODE
   - D. NFPA-90A STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS
   - E. NFPA-90B STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITION SYSTEMS
   - F. NFPA-101 NATIONAL LIFE SAFETY CODE
3. AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS, INC. (ASHRAE)
   - A. ASHRAE GUIDELINE 4-2008 - PREPARATION OF OPERATING AND MAINTENANCE DOCUMENTATION FOR BUILDING SYSTEMS
   - B. ASHRAE STANDARD 62.1-2019 AND APPROVED ADDENDA - VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY
   - C. ASHRAE STANDARD 126-2016 - METHOD OF TESTING HVAC AIR DUCTS
   - D. ASHRAE STANDARD 180-2016 - STANDARD PRACTICE FOR INSPECTION AND MAINTENANCE OF COMMERCIAL BUILDING HVAC SYSTEMS.
4. SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (SMACNA)

ALTERNATE BID ITEMS

- A. **ALTERNATE BID ITEM NO. 1:** PARKING AREA - STORMWATER MITIGATION, ASPHALT MILLING, AND RESURFACE. CONNECT MAIN ARMORY ROOF DRAINS TO UNDERGROUND STORM DRAIN SYSTEM.
- B. **ALTERNATE BID ITEM NO. 2:** UPGRADE MAIN ARMORY BUILDING INTERIOR AND EXTERIOR LIGHTING TO LED TO INCLUDE UNIT SIGN AND FLAGPOLE.
- C. **ALTERNATE BID ITEM NO. 3:** REFINISH AND REPAINT COMPLETE EXTERIOR STUCCO / BRICK FACADE WITH UP TO 4 COLOR SCHEME. INCLUDE THE PAINTING OF ALL EXTERIOR HM DOORS AND FRAMES INCLUDING ALL INSIDE AND OUTSIDE FACES.
- D. **ALTERNATE BID ITEM NO. 4:** COMPLETE GLAZING REPLACEMENT OF ALL EXISTING LAMINATED IMPACT GLAZING IN EXISTING ALUMINUM WINDOW FRAME SYSTEMS AT THE EXTERIOR CLERESTORY LEVEL.
- E. **ALTERNATE BID ITEM NO. 5:** COMPLETE GLAZING REPLACEMENT OF ALL EXISTING LAMINATED IMPACT GLAZING IN ALL EXISTING ALUMINUM WINDOW FRAME SYSTEMS AT ALL THE EXTERIOR 1ST FLOOR LEVEL GLAZED OPENINGS EXCEPT NEW EXTERIOR FIXED WINDOWS & IMPACT GLAZING FOR KITCHEN ONLY.
- F. **ALTERNATE BID ITEM NO. 6:** PROVIDE NEW 20'-0" WIDE (K-8 FORCE PROTECTION) FENCE SYSTEM) DOUBLE SWING GATE WITH MANUAL FUNCTION TO SOUTH SIDE OF POV PARKING. EXISTING DEAD MAN ANCHOR LAYOUT TO BE RE-CONFIGURED FOR NEW GATE. COMPLETE FUNCTIONAL INSTALLATION REQUIRED.
- G. **ALTERNATE BID ITEM NO. 7:** PROVIDE MILL AND OVERLAY OF THE NORTH & EAST POV PARKING LOT AS INDICATED IN THE ATTACHED CIVIL DRAWINGS.
- H. **ALTERNATE BID ITEM NO. 8:** PROVIDE NEW DEHUMIDIFIER AND MECHANICAL AIR INSTALLED INTO THE TO THE EXISTING VAULT ROOM # 110 & #111.

FBC C403.2.1 FLORIDA BUILDING CODE 8TH EDITION (2023) ENERGY CONSERVATION PROJECT LOAD SUMMARY

PROJECT: FLORIDA NATIONAL GUARD PALMETTO READINESS CENTER 1107 14TH AVE WEST PALMETTO, FLORIDA 34221

OWNER: DEPARTMENT OF MILITARY AFFAIRS P.O. BOX 1008 ST. AUGUSTINE, FLORIDA, 32085-1008

AHU-3[N]/CU-3[N]	
ZONE AREA:	1700
CONDITIONED AREA:	1700
SIZING METHOD:	HEAT BALANCE METHOD
OUTDOOR DRY BULB:	94.0
OUTDOOR WET BULB:	77.0
INDOOR DRY BULB:	75
INDOOR RH:	50%
TOTAL COOLING REQUIRED:	66,500
TOTAL HEATING REQUIRED:	25,000
TOTAL SENSIBLE GAIN:	54,400
TOTAL LATENT GAIN:	12,100
GRAINS WATER (DIFFERENCE):	114.7 - 64 = 50.7

AHU-4[N]/CU-4[N]	
ZONE AREA:	1923
CONDITIONED AREA:	1923
SIZING METHOD:	HEAT BALANCE METHOD
OUTDOOR DRY BULB:	94.0
OUTDOOR WET BULB:	77.0
INDOOR DRY BULB:	75
INDOOR RH:	50%
TOTAL COOLING REQUIRED:	43,400
TOTAL HEATING REQUIRED:	23,000
TOTAL SENSIBLE GAIN:	38,600
TOTAL LATENT GAIN:	4,800
GRAINS WATER (DIFFERENCE):	114.7 - 64 = 50.7

MAC-1[N]/MCU-1[N]	
ZONE AREA:	210
CONDITIONED AREA:	210
SIZING METHOD:	HEAT BALANCE METHOD
OUTDOOR DRY BULB:	94.0
OUTDOOR WET BULB:	77.0
INDOOR DRY BULB:	75
INDOOR RH:	50%
TOTAL COOLING REQUIRED:	12,000
TOTAL HEATING REQUIRED:	0
TOTAL SENSIBLE GAIN:	9,240
TOTAL LATENT GAIN:	2,760
GRAINS WATER (DIFFERENCE):	78.6-64.6 = 14.0

M 230000 GENERAL MECHANICAL NOTES

1. THE INTENT OF THESE NOTES AND MECHANICAL NOTES ON DRAWINGS IS TO CLARIFY THE SCOPE OF WORK AND ALERT THE CONTRACTOR OF FIELD CONDITIONS. CONTRACTOR TO VISIT SITE AND VERIFY ALL CLEARANCES BEFORE FABRICATION OF DUCTWORK AND PROVIDE ADDITIONAL OFFSET AND/OR CHANGES IN DUCT SIZES TO MEET FIELD CONDITIONS AND COORDINATE WITH ELECTRICAL, PLUMBING AND FIRE PROTECTION SUBCONTRACTOR BEFORE ANY CONSTRUCTION WORK. NO ALLOWANCES WILL BE MADE FOR THE CONTRACTOR'S UNFAMILIARITY WITH THE JOB SITE AND CONDITIONS.
2. PLANS SHALL NOT BE SCALED. PLANS INDICATE THE SCHEMATIC LAYOUT AND LOCATION OF THE MECHANICAL SYSTEM COMPONENTS. UNLESS SPECIFIC DIMENSIONS ARE NOTED, THE ACTUAL LOCATION OF THESE COMPONENTS SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE WORK OF OTHER TRADES, THE USE OF MANUFACTURER'S SHOP DRAWINGS AND SIMILAR CERTIFIED DATA. THE ELEVATION OF EXPOSED DUCTWORK SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ORDERING ANY DUCTWORK.
3. NO EXCLUSIONS FROM OR LIMITATIONS IN THE LANGUAGE USED IN THE CONTRACT DOCUMENTS SHALL BE INTERPRETED AS MEANING THAT THE EQUIPMENT, APPURTENANCES, AND/OR ACCESSORIES NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM ARE NOT TO BE PROVIDED AS REQUIRED.
   - a. THE CONTRACTOR SHALL HAVE A COMPLETE SET OF THE CONTRACT DOCUMENTS. THE SEPARATE DIVISIONAL DRAWINGS AND SPECIFICATIONS DO NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY TO PROVIDE THE WORK WHICH IS INDICATED ON ANY OF THE DRAWINGS OR DIVISION OF THE SPECIFICATIONS. REVIEW AND COORDINATE THE SCOPE OF WORK TO ASSURE A COMPLETE FUNCTIONAL SYSTEM IS INSTALLED. SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIALS FOR REVIEW.
4. SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT AND MATERIALS FOR REVIEW. WHERE MANUFACTURERS ARE LISTED IN THE PROJECT MANUAL, ONE OF THOSE MANUFACTURERS SHALL BE PROVIDED UNLESS A REQUEST FOR SUBSTITUTION HAS BEEN SUBMITTED PRIOR TO BID AND THE MANUFACTURER SUBSEQUENTLY IS LISTED AS AN ACCEPTABLE MANUFACTURER IN AN ADDENDUM. PARTIAL SUBMITTALS WILL NOT BE ACCEPTED FOR REVIEW AND APPROVAL. INSTALL AND TEST ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. FOR ALL EQUIPMENT, WHICH HAS BEEN SCHEDULED DIRECTLY ON THE DRAWINGS, PROVIDE WITHIN THE SUBMITTAL, A PERFORMANCE SCHEDULE FOR THE PROPOSED EQUIPMENT IN THE EXACT SAME FORMAT AS INCLUDED ON THE CONTRACT DOCUMENTS. FAILURE TO PROVIDE THE REQUIRED PERFORMANCE SCHEDULE WILL RESULT IN REJECTION OF THE ENTIRE SUBMITTAL. SUBMIT DRAWINGS AND CUT SHEETS FOR ALL PRODUCTS ALL AT ONE TIME. INDEX ALL ITEMS TO THE PROJECT MANUAL OR DRAWINGS AS APPLICABLE. SHOP DRAWINGS THAT DEVIATE FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL LIST ALL DIFFERENCES IN A COVER LETTER ATTACHED TO THE FRONT OF THE SUBMITTAL. ANY UNLISTED DEVIATIONS FOUND DURING THE REVIEW WILL RESULT IN THE REJECTION OF THE ENTIRE SUBMITTAL. FOR ITEMS REVIEWED AND MARKED "REJECTED" OR "REVISE AND RESUBMIT", ONLY ONE ADDITIONAL SUBMITTAL WILL BE REVIEWED TO VERIFY PRODUCT COMPLIANCE WITH THE CONTRACT DOCUMENTS. SHOULD FURTHER SUBMITTALS BE REQUIRED FOR THE DESIGN PROFESSIONAL TO VERIFY THE SUBMITTAL WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, THE HOURLY RATE OF $150.00 PLUS EXPENSES WILL BE BILLED TO THE CONTRACTOR FOR THE PROFESSIONAL(S) TIME IS SPENT ON THE REVIEW.
5. DUCTWORK, AIR DEVICES AND OTHER ITEMS OF THE AIR DISTRIBUTION SYSTEM SHALL BE SUPPORTED DIRECTLY FROM THE BUILDING STRUCTURE AND NOT FROM THE CEILING OR CEILING SUSPENSION SYSTEM. COORDINATE LOCATION OF AIR DEVICES AND LOUVERS WITH ELECTRICAL, ARCHITECTURAL, AND PLUMBING WORK. AIR DEVICES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE FROM AT LEAST TWO POINTS.
6. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF "SMACNA" DUCT CONSTRUCTION STANDARDS AND COMPLY WITH THE LATEST "NFPA" 90A REQUIREMENTS. ALL DUCT\WORK SHALL BE LEAK TESTED IN ACCORDANCE WITH SMACNA AND ASHRAE STANDARDS, AND BE COMPLETED BY THE TEST AND BALANCE COMPANY AND WITNESSED BY THE OWNER. DUCT LEAKAGE RATE SHALL NOT EXCEED 2% FOR DUCTS RATED LESS THAN OR EQUAL TO 2" W.G., AND 1% FOR DUCTS RATED GREATER THAN 2" W.G.
   - a. ALL MAIN SUPPLY AND RETURN AIR DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED G90 SHEET METAL INTERNALLY INSULATED WITH MINIMUM 1-1/2" THICKNESS R-6 DUCT LINER INSULATION PER INTERNALLY LINED DUCT DETAIL, SEAL ALL DUCT JOINTS WITH HARDCAST, UNLESS OTHERWISE NOTED.
     - 1. DUCT LINER EQUAL TO JOHNS MANVILLE LINACOUSTIC R-300 OR EQUAL OR ARMACELL AP ARMAFLEX.
   - b. ALL BRANCH SUPPLY, RETURN, EXHAUST, AND OUTSIDE AIR DUCTWORK SHALL BE GALVANIZED G90 SHEET METAL. SEAL ALL DUCT JOINTS WITH HARDCAST. ALL SUPPLY. RETURN AND OUTSIDE AIR DUCTS SHALL BE INSULATED WITH BLANKET TYPE INSULATION WITH VAPOR BARRIER (MINIMUM INSTALLED R 6.0). DUCT INSULATION SHALL BE LABELED AND MARKED AT THE REQUIRED INTERVALS AS REQUIRED BY THE FLORIDA BUILDING CODE. EXHAUST AIR DUCTS SERVING ENERGY RECOVERY UNIT SHALL BE INSULATED.
   - c. DUCT PRESSURE CLASSES SHALL BE AS FOLLOWS:
     - 1. SUPPLY UPSTREAM OF VAV BOXES 3" PRESSURE CLASS.
     - 2. SUPPLY DOWNSTREAM OF VAV BOXES 1" PRESSURE CLASS.
     - 3. RETURN MIN. -3" PRESSURE CLASS.
     - 4. EXHAUST -2" PRESSURE CLASS
   - d. PROVIDE TURNING VANES IN ALL RECTANGULAR AND SQUARE DUCT ELBOWS GREATER THAN 8" IN WIDTH.
   - e. CONSTRUCT AND INSTALL DUCTWORK IN ACCORDANCE WITH THE LATEST SMACNA GUIDELINES.
   - f. PROVIDE HANGER AND DUCT WORK ACCESSORIES AS PER SMACNA RECOMMENDATIONS.
   - g. FLEXIBLE CONNECTION SHALL BE PROVIDED BETWEEN ALL AIR MOVING APPARATUS AND DUCTWORK WIDTH SHALL NOT BE LESS THAN 4" AND EQUAL TO DURO-DYNE FLEXIBLE DUCT CONNECTOR.
   - h. DUCTWORK SHALL BE SEALED IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA DUCT CONSTRUCTION STANDARDS.
7. ALL DUCT DIMENSIONS SHOWN\IN ON DRAWINGS ARE CLEAR INSIDE
8. ALL VOLUME DAMPERS SHALL BE OPPOSED BLADE TYPE. PROVIDE A ONE-FOOT-LONG PLASTIC STRIP OF MATERIAL FROM ALL DAMPER HANDLES TO ASSIST TEST AND BALANCE AGENCY IN IDENTIFYING ALL DAMPERS. IN AREAS WHERE THE FINAL DAMPER INSTALLATION PROHIBITS ACCESS FOR TEST AND BALANCE, PROVIDE MANUAL REMOTE CABLE CONTROLS EQUAL TO YOUNG REGULATOR MODEL 830ACC/270—896. ACCESS TO END OF CABLE TO BE FLUSH IN CEILING NEATLY CONCEALED WITH THREADED CAP. PAINT CAP TO MATCH CEILING COLOR. INDICATE LOCATIONS OF ALL CAPS ON DUCTWORK COORDINATION DRAWINGS AND OBTAIN WRITTEN APPROVAL FROM ARCHITECT/ENGINEER PRIOR TO INSTALLATION. REMOVE MATERIAL FROM EXPOSED DUCT DAMPERS AFTER SUBSTANTIAL COMPLETION.
9. ALL DUCT ELBOWS SHALL INCLUDE AIR FLOW DIRECTIONAL VANES AS PER "SMACNA" DUCT CONSTRUCTION STANDARDS. SPLITTER VANES SHALL BE PROVIDED IN ALL ELBOWS AND DUCT OFFSETS WITH ANGLES BETWEEN 15 DEGREE AND 90 DEGREES AS PER FIG. 2—5 OF THE SMACNA MANUAL. 90 DEGREE ELBOWS SHALL HAVE TURNING VANES.
10. PROVIDE CONICAL SPIN—IN FITTINGS AT ALL CONNECTIONS OF ROUND SHEET METAL OR FLEXIBLE SUPPLY AIR DUCTS TO RIGID RECTANGULAR DUCT.
11. ALL PIPING AND/OR DUCTWORK MUST BE INSTALLED 6" AWAY FROM ANY FIRE RATED WALL.
12. FOR SEALING OF FIRE DAMPER AND PIPE OR DUCT PENETRATION THROUGH FIRE-RATED WALLS, REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. ALL PIPE PENETRATIONS SHALL BE SEALED USING APPROVED UL DETAILS. ALL FIRE DAMPERS SHALL BE DYNAMIC TYPE.
13. PROVIDE ADDITIONAL DUCTWORK AND PIPING SUPPORTS ON BOTH SIDES AND WITHIN 18" OF FIRE RATED WALLS. DUCTWORK OR PIPING SHALL NOT BE SUPPORTED FROM ANY FIRE-RATED WALL.
14. FLEXIBLE DUCTS SHALL BE FACTORY INSULATED (MINIMUM R—6) AND INCLUDE A VINYL VAPOR JACKET AND HELIX STEEL WIRE. "FLEXMASTER" TYPE 5M OR APPROVED EQUAL. FLEXIBLE DUCT SHALL BE ATTACHED WITH THERMAFLEX STAINLESS STEEL SNAP LOCK CLAMPS. THE MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 6'—0". SUPPORT ELBOWS USING THERMAFLEX FLEXFLOW ELBOW.
15. SMOKE AND HIGH TEMPERATURE PROTECTION OF MECHANICAL AIR DISTRIBUTION SYSTEMS.
   - a. DUCT MOUNTED SMOKE DETECTORS SHALL BE FURNISHED AND WIRED UNDER DIVISION 26 (ELECTRICAL) AT LOCATIONS INDICATED ON THE PLANS AND AS HEREIN SPECIFIED. DUCT DETECTORS SHALL COMPLY WITH UL 268A.
   - b. MECHANICAL PLANS INDICATE THE APPROXIMATE LOCATION OF DUCT DETECTORS. ASSIST THE SMOKE DETECTOR INSTALLER IN LOCATING AND INSTALLING THE DETECTORS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. WHEN RECOMMENDED CLEARANCES CAN NOT BE MAINTAINED, SIMULATE A SMOKE AIR FLOW TEST OF EACH DEVICE AND PROVIDE A COPY OF THE FIELD TEST TO THE OWNER'S REPRESENTATIVE.
16. PROVIDE A MINIMUM 12" X 12" INSULATED AND DOUBLE GASKETED DUCT ACCESS DOOR ADJACENT TO EACH DUCT MOUNTED SMOKE DETECTOR TO FACILITATE INSPECTION OF DUCT DETECTOR TUBES. ACCESS DOOR SHALL NOT REQUIRE TOOLS TO BE OPENED.
17. PROVIDE P—TRAPS AS PER DETAIL AT ALL CONDENSATE DRAIN LINE CONNECTIONS. SLOPE DRAIN LINES TOWARD THE POINT OF DISCHARGE (MIN 1/8"/FOOT). INSULATE CONDENSATE DRAIN LINES WITH 3/4" THICK SEAMLESS CLOSED CELL RUBBER PIPE INSULATION. CONDENSATE DRAIN LINES TO BE COPPER. LINES SHALL BE ONE DIAMETER LARGER THAN THE UNIT DRAIN CONNECTION, BUT NOT LESS THAN 3/4 INCH. PROVIDE CLEANOUTS AT ALL CHANGES OF DIRECTION. THE FOLLOWING MINIMUM PIPE SIZES SHALL BE USED:

	EQUIPMENT CAPACITY	MINIMUM PIPE DIAMETER
a.	UP TO 20 TONS	3/4"
b.	OVER 20 TONS UP TO 40 TONS	1"

18. PROVIDE FLEXIBLE CONNECTIONS BETWEEN ALL AIR MOVING APPARATUS AND DUCTWORK. RECOMMENDED WIDTH IS 4".
19. WHERE INDICATED ON DRAWINGS AND/OR EQUIPMENT SCHEDULES EXTERNAL STATIC PRESSURE IS DEFINED AS NOT INCLUDING LOSSES DUE TO UNIT MOUNTED FILTER(S), RETURN AIR PLENUM OR MIXING BOXES. THOSE LOSSES SHALL BE PART OF THE EQUIPMENT INTERNAL LOSSES SAME AS THOSE CAUSED BY COILS, CABINET, ETC.
20. ROOF MOUNTED EQUIPMENT SHALL BE SECURED TO THE CURB AND THE CURBS SHALL BE SECURED TO THE STRUCTURE IN ACCORDANCE WITH THE EQUIPMENT'S FLORIDA PRODUCT APPROVAL LISTING OR PROVIDED WITH A THIRD PARTY STRUCTURAL ENGINEERS SIGNED AND SEALED INSTALLATION DETAILS.
21. PROVIDE PAINTED GALVANIZED EXPANDED METAL GRILLE OVER ALL CONDENSER COILS.
22. ALL EQUIPMENT (AIR HANDLERS, CONDENSING UNITS, ROOFTOP UNITS, ETC.) SHALL BE LABELED WITH PLASTIC SIGNS, LAMINATED. ENGRAVED: 1/8" THICK BLANKS FOR SIGNS SHALL BE A MINIMUM OF 1 1/4" HIGH, WITH 3/4" HIGH LETTERS. LENGTH OF THE SIGN SHALL BE THE SUM OF THE LETTERS/NUMBERS PLUS 3/4" EACH END. SIGNS DESIGNATED FOR INSTALLATION ON THE OUTSIDE, IN OPEN AREAS, OR LOCATED IN A PROTECTED AREA THAT IS SUBJECT TO DIRECT SUNLIGHT, SHALL BE UV RATED, DESIGNATED AND MANUFACTURED TO BE EXPOSED TO THE ELEMENTS. SUBMITTAL DATA INDICATING THE ABOVE WILL BE REQUIRED. LABELS SHALL ALSO INCLUDE THE ROOM NUMBER, CORRESPONDING AIR HANDLER LOCATION OR AREA SERVED TO ASSIST IN THE DETERMINATION OF THE SERVICE LOCATION OF SAID EQUIPMENT. PROVIDE ADDITIONAL NAMEPLATE ON CEILING GRID DIRECTLY BELOW EQUIPMENT CONCEALED ABOVE CEILINGS TO AID IN LOCATING THE UNIT. NAMEPLATE DESIGNATION SHALL CONSIST OF UNIT NUMBER. LABELS SHALL BE PERMANENTLY AFFIXED TO EQUIPMENT BY USE OF RIVET OR SCREW TYPE FASTENERS.
23. EQUIPMENT SHALL BE MANUFACTURED AND/OR COATED AS REQUIRED FOR INSTALLATION IN A SEA COAST ENVIRONMENT.
24. ALL WALL MOUNTED TEMPERATURE AND HUMIDITY SENSORS SHALL BE INSTALLED AT A CENTER LINE ELEVATION OF 4' 0" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED ON DRAWINGS. LOCATION OF THE WALL MOUNTED THERMOSTAT SHALL BE COORDINATED WITH OTHER TRADES FOR A NEAT APPEARANCE. THE FINAL LOCATION OF THERMOSTAT SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT OR HIS REPRESENTATIVE IN THE FIELD. WHEN THE SENSOR IS INSTALLED ON EXTERIOR WALLS, PROVIDE AN INSULATED SUB—BASE.
25. RETAIN THE SERVICES OF A NEBB AND/OR AABC CERTIFIED TEST AND BALANCE AGENCY TO PERFORM FINAL TESTING AND BALANCING OF ALL HVAC SYSTEMS. THE TEST AND BALANCE AGENCY SHALL BE HIRED INDEPENDENTLY FROM THE MECHANICAL CONTRACTOR THROUGH THE GENERAL CONTRACTOR. RECORD ALL DATA ON STANDARD 'AABC' OR OTHER APPROVED FORMS AND SUBMIT TO THE ARCHITECT FOR REVIEW.
26. PROVIDE SCHEDULE 40 STEEL PIPE SLEEVES FOR CONDENSATE DRAIN LINES PENETRATING EXTERIOR WALLS. NEATLY SEAL VOIDS AROUND PIPING WITH A WEATHER TIGHT PERMANENT NON-SHRINKING SEALANT.
27. REFRIGERANT LINES SHALL BE SIZED AS PER THE AIR CONDITIONING EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE SIZING AND ACCESSORY DATA WITH THE EQUIPMENT PACKAGE SUBMITTAL. PIPING IS TO BE FILLED WITH DRY NITROGEN WHILE SOLDERING. TEST, CLEAN, AND DEHYDRATE PIPES AND PROVIDE CRITICAL CHARGE OF REFRIGERANT AS PER EQUIPMENT MANUFACTURER'S RECOMMENDATION. PROVIDE ALL NECESSARY VALVES. TRAPS, FILTER/DRYERS. SIGHT GLASS, ETC. AS REQUIRED FOR A COMPLETE AND READY TO OPERATE INSTALLATION. INCLUDE ACCESSIBLE SERVICE FITTINGS. BI—FLOW LIQUID LINE FILTER DRYER SHALL BE PROVIDED IN HEAT PUMP UNITS.
28. ALL SUCTION LINE REFRIGERANT PIPING SHALL BE INSULATED WITH 3/4" THICK SEAMLESS CLOSED CELL RUBBER PIPE INSULATION. INSULATION EXPOSED TO THE OUTSIDE ENVIRONMENT SHALL BE PAINTED WITH TWO COATS OF UV RESISTANT WHITE ARMAFLEX PAINT OR PROVIDED WITH A FACTORY UV RESISTANT OUTER LAYER.
29. EQUIPMENT SERVICE ACCESS: PROVIDE ADEQUATE SERVICE SPACE AROUND AIR HANDLING UNITS, VARIABLE VOLUME BOXES, ELECTRIC DUCT HEATERS AND THE PULL SIDE OF FILTERS, OR AS REQUIRED BY THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE SERVICE AREA SHALL BE CLEAR OF DUCTS, PIPES, CONDUITS, WALL STUDS, CEILING HANGERS. AND ANY OTHER CONSTRUCTION APPURTENANCE.
30. ALL AIR HANDLING UNITS SHALL BE PROVIDED WITH A FLOAT SWITCH IN THE PRIMARY DRAIN LINE OR IN THE EQUIPMENT SUPPLIED DRAIN PAN, LOCATED AT A POINT HIGHER THAN THE PRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN, WIRED TO SHUT DOWN THE ENTIRE SYSTEM WHEN THE PRIMARY DRAIN BECOMES OBSTRUCTED.
31. ADEQUATE MEANS OF PROTECTION FOR ALL UTILITIES SHALL BE PROVIDED AND IF UTILITIES ARE DAMAGED DURING WORKING OPERATIONS, SUCH SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER, AT NO COST TO THE CONTRACT.
32. ACCESS PANELS THAT MAY BE REQUIRED FOR INSPECTION OF DUCTWORK, PIPING. DUCT MOUNTED DEVICES OR PIPE MOUNTED DEVICES SHALL BE PROVIDED AND ADEQUATELY SIZED. REFER TO THE ARCHITECTURAL CONTRACT DOCUMENTS FOR DOOR SPECIFICATIONS.
33. ALL DUCTWORK SHALL BE STORED IN CLEAN AREAS. PROTECT ALL DUCTWORK FROM DUST AND DEBRIS WHILE IT IS STORED ON SITE. WHILE UNDER CONSTRUCTION, ALL INSTALLED DUCTWORK SHALL BE TEMPORARILY SEALED WITH DUCT PROTECTION FILM PRIOR TO TEST AND BALANCE IN ORDER TO LIMIT ACCUMULATION OF CONSTRUCTION DUST INSIDE THE DUCTWORK SYSTEM. IF EITHER OF THESE PROCEDURES IS NOT CONDUCTED, THE ENTIRE ASSOCIATED DUCTWORK SYSTEM AND MECHANICAL EQUIPMENT SHALL BE CLEANED TO THE OWNER'S SATISFACTION.
34. RETAIN THE SERVICES OF AN INDEPENDENT COMMISSIONING AUTHORITY TO PERFORM COMMISSIONING SERVICES OF ALL NEW HVAC SYSTEMS AND CONTROL SYSTEMS IN ACCORDANCE WITH THE FLORIDA ENERGY CONSERVATION CODE. THE COMMISSIONING AUTHORITY SHALL BE HIRED INDEPENDENTLY FROM THE MECHANICAL CONTRACTOR THROUGH THE GENERAL CONTRACTOR. THE COMMISSIONING AUTHORITY CANNOT BE THE SAME AS THE TEST AND BALANCE CONTRACTOR. THE COMMISSIONING AUTHORITY SHALL DEVELOP A COMMISSIONING PLAN, PERFORM FUNCTIONAL TESTING WITH THE ASSISTANCE OF THE ASSOCIATED CONTRACTOR(S), AND PROVIDE A PRELIMINARY AND FINAL COMMISSIONING REPORT.
35. AS-BUILT DRAWINGS, O&M MANUALS, CERTIFIED TEST AND BALANCE REPORT, AND THE FINAL COMMISSIONING REPORT ARE TO BE PROVIDED TO THE OWNER WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY AND SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW.
36. SYSTEMS SHALL BE MAINTAINED IN ACCORDANCE WITH ASHRAE STANDARD 180—2018— STANDARD PRACTICE FOR INSPECTION AND MAINTENANCE OF COMMERCIAL BUILDING HVAC SYSTEMS.

M 230000 SCOPE OF WORK

1. REMOVE EXISTING DX SPLIT SYSTEM AHU-3, AHU-4, AND ASSOCIATED CONDENSING UNITS.
2. REMOVE EXISTING EXHAUST FANS.
3. CLEAN SUPPLY RETURN AND OUTSIDE AIR DUCTWORK TO REMAIN.
4. INSTALL NEW AHU-3, AHU-4, AIR HANDLERS WITH HOT GAS REHEAT FOR HUMIDITY CONTROL.
5. INSTALL NEW CONDENSING UNITS CU-3, CU-4, PROPERLY SECURED TO CONCRETE HOUSEKEEPING PADS.
6. INSTALL NEW STAND-ALONE DEHUMIDIFIERS IN VAULT, SUPPLY AREA AND EQUIPMENT AREA.
7. INSTALL NEW DUCTED DEHUMIDIFIERS TO SERVE AHU-1 AND AHU-2.

M 230000 LEGEND

DRAWING SYMBOL	DESCRIPTION	DRAWING SYMBOL	DESCRIPTION
	NEW DUCTWORK OR EQUIPMENT		NEW AUTOMATIC FIRE DAMPER
	EXISTING DUCTWORK OR EQUIPMENT		NEW AUTOMATIC SMOKE DAMPER
	DUCTWORK OR EQUIPMENT TO BE REMOVED		NEW COMBINATION FIRE/SMOKE DAMPER
	NEW INTERNALLY LINED DUCTWORK		NEW SMOKE WALL PENETRATION
	INSULATED FLEXIBLE DUCTWORK		MANUAL VOLUME DAMPER WITH 2" INSULATION STAND-OFF
AD	DUCT ACCESS DOOR	BD	COUNTER BALANCED BACKDRAFT DAMPER
	ROUND DUCT TURNING DOWN		RETURN DUCT TURNING DOWN
	ROUND DUCT TURNING UP		RETURN DUCT TURNING UP
	SUPPLY OR OA DUCT TURNING DOWN		EXHAUST DUCT TURNING DOWN
	SUPPLY OR OA DUCT TURNING UP		EXHAUST DUCT TURNING UP
	MITERED ELBOW		MITERED ELBOW WITH TURNING VANES
	SUPPLY AIR DEVICE		RETURN AIR DEVICE
	EXHAUST AIR DEVICE		SIDEWALL SUPPLY AIR DEVICE
	ROUND SUPPLY AIR DEVICE		SIDEWALL EXHAUST OR RETURN AIR DEVICE
T T	NEW / EXISTING THERMOSTAT	F F	NEW / EXISTING FIRESTAT
H H	NEW / EXISTING HUMIDISTAT	M M	NEW / EXISTING MOTOR ACTUATOR
T/H T/H	NEW / EXISTING COMBINATION THERMOSTAT / HUMIDISTAT	SD SD	NEW / EXISTING SMOKE DETECTOR (PROVIDED BY DIV. 26)
CO2 CO2	NEW / EXISTING CO_2 SENSOR	TS TS	NEW / EXISTING SMOKE DETECTOR (PROVIDED BY DIV. 26)
#	PLAN NOTE	#	DEMOLITION NOTE
#	REVISION MARK		POINT OF DISCONNECT OR CONNECTION
	1" UNDERCUT		FLOW ARROW

ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AH	AIR HANDLING UNIT	MB	MIXING BOX
AC	AIR CONDITIONING UNIT	MS	MINI SPLIT
CD	CONDENSATE DRAIN	MUA	MAKE-UP AIR UNIT
CF	CIRCULATING FAN	NIC	NOT IN CONTRACT
CH	CHILLER	OA	OUTSIDE AIR
CHW	CHILLED WATER	P	PUMP
CT	COOLING TOWER	PCHWP	PRIMARY CHILLED WATER PUMP
CU	CONDENSING UNIT	[R]	TO BE RELOCATED
CW	CONDENSER WATER	RA	RETURN AIR
CWP	CONDENSER WATER PUMP	RD	RETURN AIR DEVICE
[D]	TO BE DEMOLISHED	RTU	ROOF TOP UNIT
[E]	EXISTING TO REMAIN	SA	SUPPLY AIR
EA	EXHAUST AIR	SCHWP	SECONDARY CHILLED WATER PUMP
ED	EXHAUST AIR DEVICE	SD	SUPPLY AIR DEVICE
EF	EXHAUST FAN	SF	SUPPLY FAN
F	FAN	TF	TRANSFER FAN
FP	FAN POWERED VAV BOX	TYP	TYPICAL
HP	HEAT PUMP	UNO	UNLESS NOTES OTHERWISE
HW	HEATING HOT WATER	VV	VAV BOX
KH	KITCHEN HOOD	(+)	POSITIVE PRESSURE
KEF	KITCHEN EXHAUST FAN	(-)	NEGATIVE PRESSURE
L	LOUVER	(0)	NEUTRAL PRESSURE

NOTE:
ALL SYMBOLS OR ABBREVIATIONS MAY NOT APPEAR ON PLANS. CONTRACTOR IS ONLY RESPONSIBLE FOR EQUIPMENT INDICATED ON CONSTRUCTION PLANS OR BY SPECIFICATION.

M 230000 DESIGN CONDITIONS

CONDITION	SUMMER DRY BULB	SUMMER WET BULB	WINTER DRY BULB
OUTDOOR	94.0°F	77.0°F	42.0°F
INDOOR	74.0°F	61.8°F	69.0°F

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100% CONSTRUCTION DOCUMENTS

DMA CFMO # 224004
PALMETTO ESP RENOVATION
NATIONAL GUARD ARMORY
1107 14TH AVE WEST, PALMETTO, FL 34221

PROJECT NO.:1910.08
DATE: MARCH 30, 2026
DRAWN BY: AG
REVISIONS:
1 06-17-26 ADDENDUM 02

SHEET TITLE:
NOTES, LEGENDS, AND SCHEDULES

SHEET NO.:
M0.1

VENTILATION SCHEDULE

Zone Name / Space Name	Floor Area (ft²)	Maximum Occupants	Maximum Supply Air (CFM)	Required Outdoor Air (CFM/Person)	Required Outdoor Air (CFM/ft²)	Required Outdoor Air Total (CFM)	Required Exhaust Air Total (CFM)	Provided Outdoor Air Total (CFM)	Provided Exhaust Air Total (CFM)	Space Pressure (CFM)
AHU-3[N]										
123 COMMANDER'S...	276	1	350	5	0.06	21.6	0	29	0	29
126 OFFICE 3	196	2	180	5	0.06	21.8	0	15	0	15
127 OFFICE 4	200	2	275	5	0.06	22.0	0	23	0	23
128 OFFICE 5	201	2	280	5	0.06	22.1	0	23	0	23
129 OFFICE 6	199	2	240	5	0.06	21.9	0	20	0	20
130 CORRIDOR	166	0	125	0	0.06	10.0	0	10	0	10
	1,238	9	1,450		Zone Totals:	119	0	120	0	120

VENTILATION SCHEDULE

Zone Name / Space Name	Floor Area (ft²)	Maximum Occupants	Maximum Supply Air (CFM)	Required Outdoor Air (CFM/Person)	Required Outdoor Air (CFM/ft²)	Required Outdoor Air Total (CFM)	Required Exhaust Air Total (CFM)	Provided Outdoor Air Total (CFM)	Provided Exhaust Air Total (CFM)	Space Pressure (CFM)
AHU-4[N]										
120 TRAINING RM 1	626	20	1,100	5	0.06	137.6	0	153	0	153
122 1ST SGT OFFICE	265	1	300	5	0.06	20.9	0	42	0	42
	891	21	1,400		Zone Totals:	158	0	195	0	195

M 233700 DUCTLESS SPLIT SYSTEM SCHEDULE

ITEM NO.	---	MAC-1	
TOTAL COOLING CAPACITY	BTUH	12,200	
SUPPLY AIR (HIGH/MED/LOW)	CFM	265/310/385	
OUTSIDE AIR	CFM	0	
HEATING CAPACITY	BTUH	NONE	
ELECTRICAL	V/PH/HZ.	208-230/1/60	
CONTROLS	---	SEE NOTES 2 & 3	
WEIGHT	LBS.	28	
UNIT POWER	MCA	SEE MCU-2	
LOCATION	---	109-MECH/ELECT COMM.	
MANUFACTURER	---	MITSUBISHI	
MODEL	---	MSY-GS12NA	
ITEM NO.	---	MSCU-1	
NOMINAL CAPACITY	TONS	1	
AMBIENT TEMPERATURE	°F	95	
QUANITY OF COMPRESSORS	---	1	
CIRCUITS	NO.	1	
REFRIGERANT	---	R454B	
LOCATION	---	EXTERIOR PAD	
ELECTRICAL	V/PH./HZ.	208-230/1/60	
MINIMUM UNIT SEER2/EER2	BTUH/WATT	21.1 / 14.8	
MINIMUM UNIT HSPF2	WATT/HR	--	
COMPRESSOR POWER	MCA/MOCP	16/27	
WEIGHT	LBS.	99	
MANUFACTURER	---	MITSUBISHI	
MODEL	---	PUY-AK12NL	
NOTES	---	1-7	

NOTES:
1. NEW EVAPORATOR TO BE INSTALLED ON MANUFACTURER'S WALL BRACKET. REFER TO DETAILS.
2. PROVIDE MANUFACTURER'S WIRED PROGRAMMABLE THERMOSTAT.
3. CONTROLS & POWER TO INDOOR UNIT IS WIRED FROM OUTDOOR CONDENSING UNIT.
4. PROVIDE MANUFACTURER'S INTEGRAL CONDENSATE PUMP.
5. PROVIDE REFRIGERANT PIPING PENETRATION SYSTEME EQUAL TO AIREX TITAN OUTLET WITH E-FLEX GUARD. COORDINATE EXACT MODEL WITH MANUFACTURER'S RECCOMENDED...
6. COOLING ONLY MODEL. PROVIDED FOR PROCESS COOLING, NO HEAT.
7. PROVIDE CONCRETE HOUSEKEEPING PAD AND ANCHOR CONDENSING UNIT TO PAD PER DETAILS.

M 230000 BUILDING PRESSURE SUMMARY

SYSTEM	SYSTEM POP. (PEOPLE)	SYSTEM AREA (SF)	PROVIDED OA (CFM)	AVERAGE (CFM/SF)	AVERAGE (CFM/PERSON)	EFFECTIVE OA (CFM/PERSON)	PROVIDED EXHAUST AIR	ZONE PRESSURE
AHU-1[E]&AHU-2[E]	250	7,416	3000	0.06	6.67	12.0	0	3,000
AHU-3[N]	9	1,238	120	0.06	4.17	13.3	0	120
AHU-4[N]	21	891	195	0.06	5.00	9.3	0	195
AHU-5[E]	28	1,114	134	0.06	5.00	4.8	0	134
AHU-6[N]	4	1,889	165	0.05	0.00	41.2	1,500	-1,335
AHU-7[E]	3	1,293	140	0.06	0.00	46.6	0	140
BUILDING TOTAL	315	13,841	3,753			TOTAL BUILDING PRESSURE		2,253

M 230000 FAN SCHEDULE

TAG	AREA SERVED	MODEL	DRIVE TYPE	VOLUME (CFM)	EXTERNAL SP (IN WG)	FAN SPEED (RPM)	OPERATING POWER (HP)	MOTOR SIZE (HP)	SONES (INLET)	ELECTICAL V/C/P	NEC FLA (AMPS)	MIN CIRCUIT AMPACITY (MCA)	MAX OVERCURRENT PROTECTION (MOP)	NOTES
EF-1	MEN'S LOCKER	G-120-VG	Direct	800	0.250	863	0.06	1/4	5.3	115/60/1	3.8	4.8	15	1,2,3,4,10
EF-2	WOMEN'S LOCKER	G-100-VG	Direct	700	0.250	1,041	0.06	1/4	4.9	115/60/1	3.8	4.8	15	1,2,3,4,10
KEF-1	KITCHEN HOOD	CUE-130-A	Direct	1,596	1.000	1,725	0.59	3/4	15.0	115/60/1	13.8	17.2	30	1,2,5,6,7,9,10
KSF-1	KITCHEN HOOD	KSQ-12-M2	Direct	1,164	1.000	1,750	0.45	1/2		115/60/1	9.8	12.2	20	1,2,7,8,10

NOTES
1. AS MANUFACTURED BY GREENHECK OR EQUAL.
2. PROVIDE WITH FACTORY MOUNTED AND WIRED DISCONNECT SWITCH AND FSC SPEED CONTROLLER COMPATIBLE WITH SUPPLIED MOTOR.
3. PROVIDE WITH BIRDSCREEN.
4. EXHAUST FAN SHALL BE INTERLOCKED WITH AHU-1 AND AHU-2 TO RUN SIMULTANEOUSLY.
5. UL-762, RESTAURANT EXHAUST.
6. PROVIDE RETROFIT KITCHEN HOOD CONTROL WITH EXHAUST AIR STREAM TEMPERATURE AND SPACE TEMPERATURE FOR AUTOMATIC CONTROL OF THE KITCHEN HOOD SUPPLY AND EXHAUST FAN.
7. PROVIDE COMBINATION SUPPLY AND EXHAUST FAN CURB CAP ADAPTOR TO EXISTING CURB. CONTRACTOR SHALL FIELD MEASURE PRIOR TO SUBMITTING FOR APPROVAL.
8. PROVIDE WITH EXTENDED WEATHER HOOD INTAKE TO PROVIDE MIN. 10'-0" SEPARATION FROM EXHAUST FAN. INLET SHALL BE PROVIDED WITH ALUMINUM FILTER SCREEN.
9. PROVIDE WITH GREASE CUP.
10. PROVIDE 18 INCH TALL INSULATED ROOF CURB.

M 237313 CENTRAL STATION DX AIR HANDLING UNITS

ITEM NO.	---	AHU-1[E]	AHU-2[E]	AHU-3[N]	AHU-4[N]	AHU-5[E]	AHU-6[E]	AHU-7[E]
NET TOTAL COOLING CAPACITY	BTUH	217,200	259,200	40,815	44,767	36,000	47,401	29,893
NET SENSIBLE COOLING...	BTUH	173,760	204,768	31,245	31,552	28,440	36,613	21,546
SUPPLY AIR	CFM	5,500	7,000	1,450	1,400	1,200	1,625	950
OUTSIDE AIR	CFM	1,500	1,500	120	195	240	165	140
AIR PRESSURE LOSS EXT./TOT.	IN. WTR./IN. WTR.			0.5/---	0.5/---			
MOTOR SIZE	BHP/HP			---/0.50	---/0.50			
DRIVE TYPE	---			DIRECT	DIRECT			
FAN WHEEL TYPE	---			VARIABLE FC	VARIABLE FC			
COOLING COIL	ROWS/FINS			4 / 14	3 / 16			
REFRIGERANT TYPE	---			R-454B	R-454B			
ENT. AIR TEMP. DB/WB	°F / °F			77.5 / 64.8	77.8 / 65.3			
LVG. AIR TEMP. DB/WB	°F / °F			57.3 / 55.2	56.7 / 54.4			
ELECTRIC HEATER	KW @ 208V			5.77	5.77			
STEPS	---			1	1			
FILTER TYPE	---			PLEATED	PLEATED			
THICKNES	INCHES			2"	2"			
PRESSURE DROP CLEAN/FINAL	IN. WTR./IN. WTR.			0.05/0.60	0.05/0.60			
MERV RATING	---			13	13			
ELECTRICAL	V/PH/HZ			208/1/60	208/1/60			
MCA/MOCP @ 208V	AMPS/AMPS			45.0 / 45	32.0 / 45			
EFFICIENCY	EER/IEER			---	---			
EFFICIENCY	EER2/SEER2			12.0 / 15.2	12.0 / 15.2			
OPERATING WEIGHT	LBS			155	155			
LOCATION	---	116 MECHANICAL	116 MECHANICAL	121 MECHANICAL 2	121 MECHANICAL 2	116 MECHANICAL	109 MECH./ELECT	132 MECH RM
ITEM NO.	---	CU-1[E]	CU-2A[E], CU-2B[E]	CU-3[N]	CU-4[N]	CU-5[E]	CU-6[E]	CU-7[E]
CAPACITY	TONS	18.1	(2)10.8	3.5	4.0	5.0	4.0	2.5
AMBIENT TEMPERATURE	°F	95	95	95	95	95	95	95
COMPRESSOR (EACH)	RLA / LRA			12.2 / 120.4	12.2 / 120.4			
QUANTITY OF COMPRESSORS	NO.			1	1			
CIRCUITS	NO.			1	1			
ELECTRICAL	V/PH/HZ			208/3/60	208/3/60			
MCA/MOCP @ 208V	AMPS/AMPS			16.3 / 25	16.3 / 25			
OPERATING WEIGHT	LBS			246	246			
LOCATION	---	OUTDOOR PAD	OUTDOOR PAD	OUTDOOR PAD	OUTDOOR PAD	OUTDOOR PAD	OUTDOOR PAD	OUTDOOR PAD
MANUFACTURER	---			TRANE	TRANE			
AHU MODEL	---			5TEM6D05AV41	5TEM6D05AV41			
CU MODEL	---			5TTA4042A3	5TTA4048A3			
NOTES	---	1	1	2 THRU 8	2 THRU 8	1	1	1

1. CONTRACTOR SHALL VERIFY EXISTING UNIT INFORMATION AND PROVIDE IN SCHEDULE FOR AS-BUILT.
2. PROVIDE DIRECT DRIVE SUPPLY FAN.
3. PROVIDE START UP PERFORMED BY A FACTORY AUTHORIZED TECHNICIAN.
4. PROVIDE CONDENSING UNIT WITH A LOW AMBIENT HEAD PRESSURE CONTROLLER.
5. PROVIDE A CONDENSER COIL COATING WITH A MINIMUM OF 10,000 HOURS IN THE ASTM B-117 SALT SPRAY TEST. COATING MAY NOT DECREASE HEAT TRANSFER BY MORE THAN 1%. ADSIL MICROGUARD AND LUVATA INSITU ARE APPROVED. BAKE PHENOLIC COATINGS ARE NOT ACCEPTABLE.
6. PROVIDE A DOUBLE WALL FOAM INJECTED UNIT WITH MODULATING HOT GAS REHEAT COIL IN THE REHEAT POSITION.
7. PROVIDE UNIT WITH A REFRIGERANT REHEAT SYSTEM CAPABLE OF INCREASING THE TEMPERATURE OF THE SUPPLY AIR BY TEN DEGREES FOR HUMIDITY CONTROL.
8. PROVIDE A PROGRAMMABLE THERMOSTAT CAPABLE OF CONTROLLING TO BOTH SPACE TEMPERATURE AND HUMIDITY.

M 233400 AIR DEVICE SCHEDULE

ITEM NO.	SG-1	SG-2	RG-1/EG-1	RG-2/EG-2
TYPE	SUPPLY	SUPPLY	RETURN/EXHAUST	RETURN/EXHAUST
MATERIAL	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM
FINISH	WHITE	WHITE	WHITE	WHITE
ACCESSORIES	---	---	---	---
FRAME	LAY-IN	1" FLAT W/ SCREWS	LAY-IN	1" FLAT W/ SCREWS
MANUFACTURER	PRICE	PRICE	PRICE	PRICE
MODEL	ASCD	620	635	635
NOTES	1	2	3	4
ITEM NO.	RG-3	L-1	TG-1	---
TYPE	RETURN	INTAKE LOUVER	TRANSFER GRILLE	---
MATERIAL	ALUMINUM	ALUMINUM	ALUMINUM	---
FINISH	BY ARCH.	BY ARCH.	---	---
ACCESSORIES	---	BIRD SCREEN	---	---
MANUFACTURER	PRICE	GREENHECK	PRICE	---
MODEL	98LA	EVH-501D	635	---
NOTES	6	5	4	---

1. SQUARE CONE LAY-IN CEILING SUPPLY AIR DIFFUSER. REFER TO PLANS FOR DETAILS AND QUANTITIES.
2. RECTANGULAR SURFACE MOUNT SUPPLY AIR GRILLE. REFER TO PLANS FOR DETAILS AND QUANTITIES.
3. SQUARE LOUVERED FACE LAY-IN CEILING RETURN GRILLE. REFER TO PLANS FOR DETAILS AND QUANTITIES
4. RECTANGULAR LOUVERED SURFACE MOUNT RETURN GRILLE. REFER TO PLANS FOR DETAILS AND QUANTITIES
5. RECTANGULAR MIAMI-DADE QUALIFIED AND FLORIDA PRODUCT APPROVED STATIONARY VERTICAL BLADE WIND DRIVEN RAIN EXTRUDED ALUMINUM LOUVER
6. RECTANGULAR SURFACE MOUNT HEAVY DUTY GYMNASIUM RETURN GRILLE. REFER TO PLANS FOR DETAILS AND QUANTITIES.

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100% CONSTRUCTION DOCUMENTS

DMA CFMO # 224004

PALMETTO ESP RENOVATION

NATIONAL GUARD ARMORY

1107 14TH AVE WEST, PALMETTO, FL 34221

PROJECT NO.:1910.08

DATE: MARCH 30, 2026

DRAWN BY: AG

REVISIONS:
1 06-17-26 ADDENDUM 02

SHEET TITLE:
SCHEDULES

SHEET NO.:
M0.2

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TO THE BEST OF THE KNOWLEDGE OF THE ENGINEERS AND ARCHITECTS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

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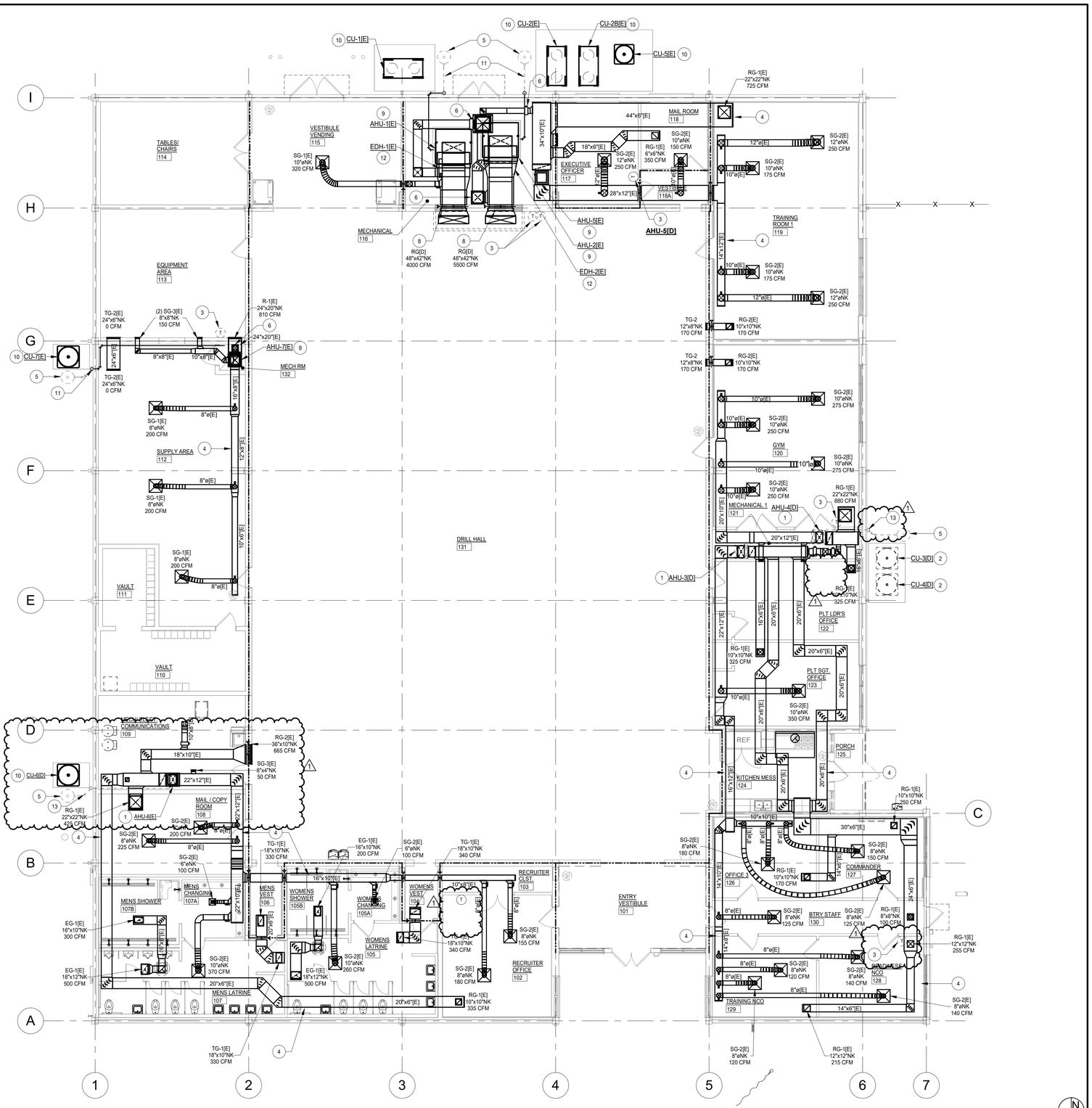

1	Ground Level Mechanical Demolition Plan
M1.1	1/8" = 1'-0"

DEMOLITION NOTES

1. EXISTING AIR HANDLER, CONDENSATE PIPING, AND DRAIN PAN TO BE REMOVED.
2. EXISTING CONDENSING UNIT AND REFRIGERANT PIPING TO BE REMOVED.
3. EXISTING THERMOSTAT TO BE REMOVED.
4. EXISTING DUCTWORK TO BE CLEANED.
5. EXISTING DRYWELL, ROCK/GRAVEL AND PIPING TO BE REMOVED.
6. EXISTING MOTORIZED CONTROL DAMPER TO REMAIN.
7. EXISTING MOTORIZED CONTROL DAMPER TO BE REMOVED.
8. EXISTING RETURN GRILLE TO BE REMOVED.
9. EXISTING AIR HANDLER, CONDENSATE PIPING AND DRAIN PAN TO REMAIN.
10. EXISTING CONDENSING UNIT TO REMAIN.
11. EXISTING CONDENSATE PIPING TO BE CUT AT 6" ABOVE GRADE. REMOVE UNDERGROUND PIPING TO DRYWELL.
12. EXISTING DUCT HEATER TO REMAIN. CONTRACTOR TO CONFIRM OPERATION AND REPORT TO GENERAL CONTRACTOR.
13. REMOVE EXISTING CONDENSATE PIPING BACK TO AIR HANDLER.

GENERAL PLAN NOTES

1. REFERENCE DRAWING M0.1 FOR ABI LIST. REVIEW REQUIREMENTS OF THE ABI'S TO BE FAMILIAR WITH HOW A DECLINE OR ACCEPTANCE OF EACH ABI AFFECTS THE SCOPE OF WORK OUTLINED ON THESE DRAWINGS.

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PROJECT NO.:1910.08
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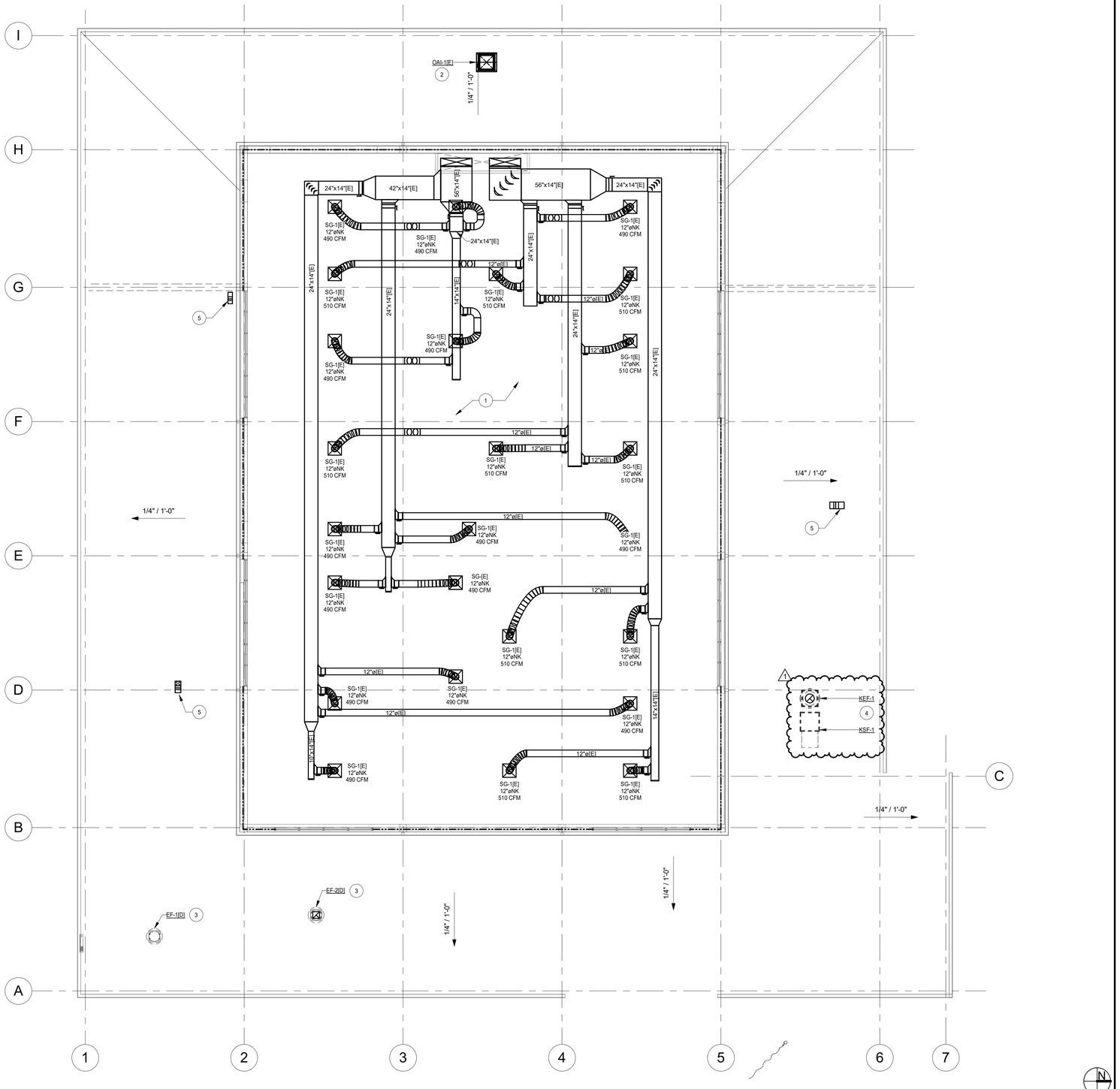
1 06-17-26 ADDENDUM 02

SHEET TITLE:
GROUND FLOOR MECHANICAL DEMOLITION PLAN

SHEET NO.:
M1.1



1 Mezzanine Level Mechanical Demolition Plan

M1.2 1/8" = 1'-0"

DEMOLITION NOTES

1. EXISTING DUCTWORK TO BE CLEANED.
2. EXISTING OA INTAKE TO REMAIN
3. EXISTING EXHAUST FAN TO BE REMOVED.
4. EXISTING KITCHEN EXHAUST AND MAKE-UP FANS TO BE REMOVED. EXISTING COMBINATION CURB TO BE REMOVED. 1
5. EXISTING ROOF JACK TO REMAIN.

GENERAL PLAN NOTES

1. REFERENCE DRAWING M0.1 FOR ABI LIST. REVIEW REQUIREMENTS OF THE ABI'S TO BE FAMILIAR WITH HOW A DECLINE OR ACCEPTANCE OF EACH ABI AFFECTS THE SCOPE OF WORK OUTLINED ON THESE DRAWINGS.

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DATE: MARCH 30, 2026
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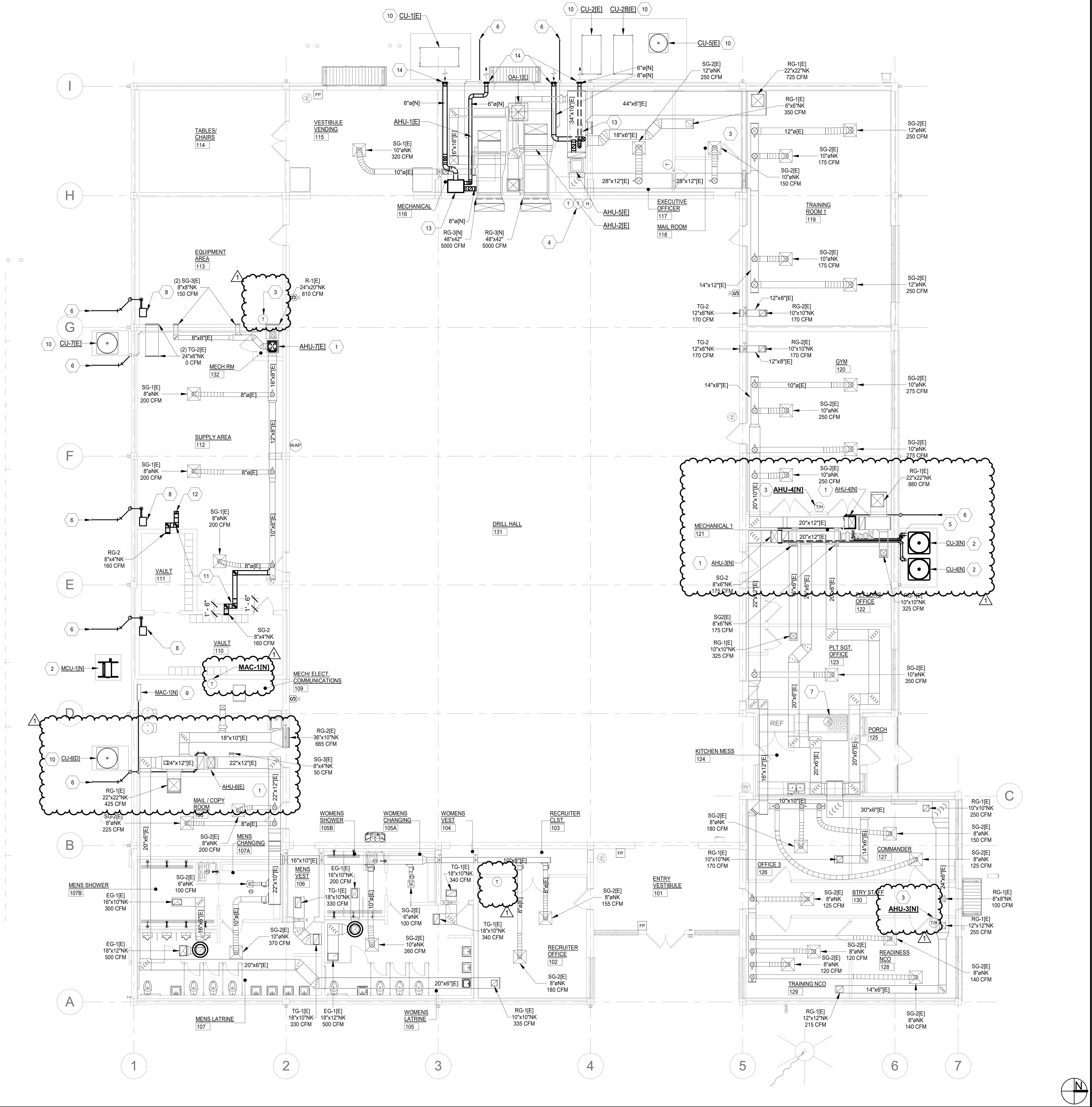
REVISIONS:
1 06-17-26 ADDENDUM 02

SHEET TITLE:
ROOF AND HIGH CEILING MECHANICAL DEMOLITION PLAN

SHEET NO.:
M1.2



1 Ground Level Mechanical Renovation Plan

M2.1 1/8" = 1'-0"

RENOVATION NOTES

1. INSTALL NEW AIR HANDLER IN NEW DRAIN PAN ON NEW 6" CONCRETE PADS, MODIFY DUCTWORK AS NEEDED TO ACCOMMODATE NEW UNIT.
2. INSTALL A NEW CONDENSING UNIT ON NEW 6" HIGH CONCRETE PAD. REFER TO DETAIL FOR CONDENSING UNIT TIE DOWN.
3. INSTALL NEW THERMOSTAT WITH HUMIDITY CONTROL IN NEW LOCATION.
4. INSTALL NEW HUMIDITY SENSORS FOR DEHUMIDIFIERS ASSOCIATED WITH AHU-1 & 2. (1)
5. ROUTE NEW INSULATED REFRIGERANT AND CONDENSATE PIPING THROUGH EXISTING SLEEVED PENETRATION IN EXTERIOR WALL.
6. **BASE BID:** CONTRACTOR SHALL PROVIDE AND INSTALL NEW DRYWELL MIN. 10' FROM BUILDING STRUCTURE. REFER TO DETAIL FOR ADDITIONAL INFORMATION.
ABI NO. 1: NEW 4” DRAIN TO NEW STORM WATER COLLECTION SYSTEM. COORDINATE CONNECTION AND TIE-IN WITH CIVIL CONTRACTOR IN ACCORDANCE WITH ABI NO.1.
7. EXISTING GREASE HOOD TO REMAIN. RECERTIFY EXISTING ANSUL SYSTEM. PROVIDE NEW CAPTIVE AIR FAN CONTROLLER AND SENSORS FOR CONTROL OF NEW EXHAUST AND SUPPLY FAN ON ROOF. EXISTING KITCHEN EQUIPMENT TO REMAIN AS-IS. (1)
8. **BASE BID:** NO SCOPE
ABI NO.8: INSTALL NEW MUNTERS MODEL DEW-50 TURNKEY CONFIGURATION DEHUMIDIFIER. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR INSTALLATION REQUIREMENTS. REFER TO VAULT WALL PENETRATION DETAIL.
9. INSTALL NEW WALL MOUNTED MINI-SPLIT, EXTEND CONDENSATE PIPING TO CONNECT TO AHU-6 CONDENSATE DRAIN THROUGH WALL.
10. EXISTING CONDENSING UNIT TO REMAIN.
11. **BASE BID:** NO SCOPE
ABI NO. 8: Z-DUCT THROUGH VAULT WALL. MIN. 18” LEGS. ALL CONSTRUCTION SHALL BE WELDED ¼” STEEL PLATE WITH 1/2” REBAR 3” O.C. EACH DIRECTION AND INSET ON EACH END BY 2”
12. **BASE BID:** NO SCOPE
ABI NO. 8: EXTEND 8X4 RELIEF DUCT UP THROUGH ROOF.
13. INSTALL NEW DEHUMIDIFIER EQUAL TO MUNTERS HC-300 TIED INTO THE RETURN DUCT OF THE AIR HANDLER IN ACCORDANCE WITH MANUFACTURE RECOMMENDATIONS. REACTIVATION AIR SHALL BE DUCTED TO EXTERIOR WALL AND TERMINATED WITH A WALL VENT INLET / OUTLET UNIT FEATURES A 6KW HEATER AT 240V/1 AND A FLA OF 31A.
14. INSTALL NEW WALL VENT EQUAL TO CANARM WHA SERIES WITH BIRD SCREEN.
15. INSTALL NEW MUNTERS MODEL DEW-50 TURNKEY CONFIGURATION DEHUMIDIFIER. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR INSTALLATION REQUIREMENTS.

GENERAL PLAN NOTES

1. REFERENCE DRAWING M0.1 FOR ABI LIST, REVIEW REQUIREMENTS OF THE ABI'S TO BE FAMILIAR WITH HOW A DECLINE OR ACCEPTANCE OF EACH ABI AFFECTS THE SCOPE OF WORK OUTLINED ON THESE DRAWINGS.

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TO THE BEST OF THE KNOWLEDGE OF THE ENGINEERS AND ARCHITECTS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

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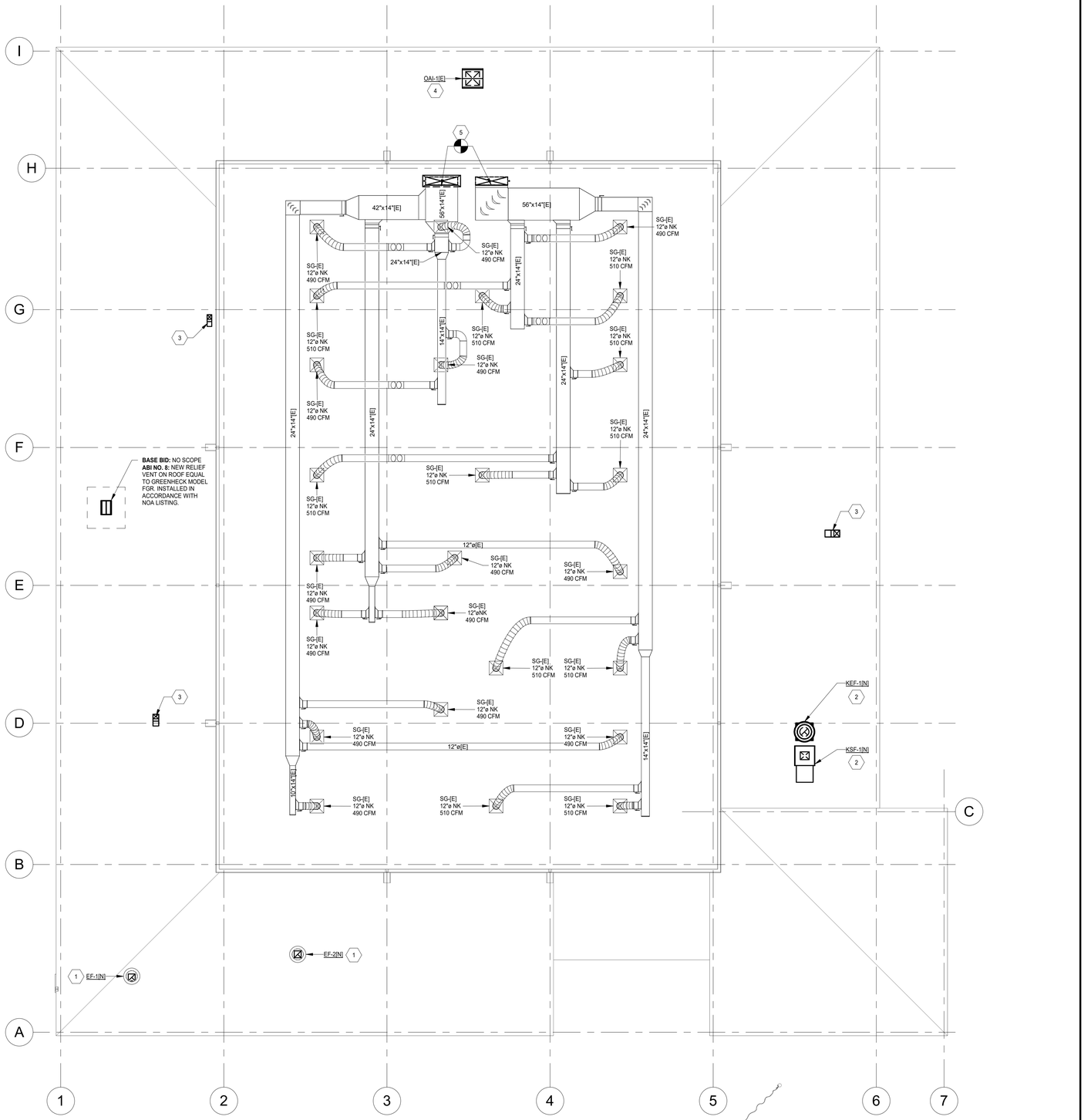
DMA CFMO # 224004
PALMETTO ESP RENOVATION
NATIONAL GUARD ARMORY

1107 14TH AVE WEST, PALMETTO, FL 34221

PROJECT NO.:1910.08
DATE: MARCH 30, 2026
DRAWN BY: AG
REVISIONS:
1 06-17-26 ADDENDUM 02

SHEET TITLE:
GROUND FLOOR MECHANICAL RENOVATION PLAN

SHEET NO.:
M2.1



1	Upper Ceiling and Partial Roof Plan
M2.2	1/8" = 1'-0"

RENOVATION NOTES

1. INSTALL NEW EXHAUST FANS ON EXISTING CURBS. PROVIDE CURB ADAPTERS AS NEEDED.
2. INSTALL NEW KITCHEN EXHAUST AND MAKE-UP AIR FAN ON NEW CURBS, COORDINATE ROOF WORK WITH GENERAL CONTRACTOR.
3. EXISTING ROOF JACK TO REMAIN. 1
4. EXISTING OUTSIDE AIR INTAKE TO REMAIN.
5. CONNECT NEW SUPPLY DUCTWORK TO EXISTING HIGH IN CHASE.
6. INSTALL NEW MANUAL VOLUME DAMPER AT EACH SUPPLY MAIN.

GENERAL PLAN NOTES

1. REFERENCE DRAWING M0.1 FOR ABI LIST, REVIEW REQUIREMENTS OF THE ABI'S TO BE FAMILIAR WITH HOW A DECLINE OR ACCEPTANCE OF EACH ABI AFFECTS THE SCOPE OF WORK OUTLINED ON THESE DRAWINGS.

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SHEET TITLE:
ROOF AND HIGH CEILING MECHANICAL RENOVATION PLAN

SHEET NO.:

M2.2