

AHU SCHEDULE - VARIABLE AIR VOLUME (VAV)					
DESIGNATION		AHU-1	AHU-2	AHU-3	AHU-4
AREA SERVED		LOBBY / STEEL	BAND / CHORUS	LOCKER ROOM	GYM
MANUFACTURER		TRANE	TRANE	TRANE	TRANE
UNIT MODEL		CSAA012	CSAA017	CSAA010	CSAA040
CONFIGURATION (SEE BELOW)		HORIZONTAL VAV	HORIZONTAL VAV	HORIZONTAL VAV	HORIZONTAL VAV
ORIENTATION/HANDING		RIGHT	RIGHT	LEFT	RIGHT
MAX SUPPLY AIR	CFM	5600	8000	4500	18000
VENTILATION AIR	CFM	1500	3200	1500	11000
CC ENTERING AIR CONDITIONS	*FDB*/FWB	78.9 / 68.3	77.6 / 67.5	80.5 / 69.1	79.7 / 68.9
CC LEAVING AIR CONDITIONS	*FDB*/FWB	54 / 54	52 / 52	54 / 54	52.1 / 52.1
UNIT TOTAL COOLING CAPACITY	MBH	253	385	210	970
UNIT LATENT COOLING CAPACITY	MBH	98	156	80	408
UNIT SENSIBLE COOLING CAPACITY	MBH	155	229	130	562
CHILLED WATER FLOW RATE	GPM	42	64	35	162
CHILLED WATER TEMP. ENT/LEAV	*F / °F	44 / 56	44 / 56	44 / 56	44 / 56
CHILLED WATER COIL ROWS & FINS/INCH		12	12	10.5	7
CHILLED WATER COIL FACE VELOCITY	FTM	474	512	490	451
COOLING COIL FLUID PRESSURE DROP	FT WG	2.1	8.8	2.2	3.9
HEATING COIL CAPACITY	MBH	121	140	120	330
HC ENTERING AIR CONDITIONS	*F DB	58	62	55	57
HC LEAVING AIR CONDITIONS	*F DB	78	78	80	74
HOT WATER FLOW RATE	GPM	12	14	12	33
HOT WATER TEMP. ENT/LEAV (MAX/MIN)	*F / °F	160 / 140	160 / 140	160 / 140	160 / 140
HOT WATER COIL ROWS & FINS PER INCH		7	7	8	7
HOT WATER COIL FLUID PRESSURE DROP	FT WG	0.5	0.7	0.5	3.9
MAX HEATING COIL FACE VELOCITY	FFM	498	533	490	480
DP ERV	IN WG	N/A	1.2	N/A	1.5
DP FILTER SECTION	IN WG	1.4	1.4	1.4	1.4
DP COOLING COIL STATIC	IN WG	0.8	0.9	1	0.9
DP HEATING COIL STATIC	IN WG	0.1	0.1	0.1	0.1
DP FAN SECTION	IN WG	0.5	0.5	0.3	0.2
EXTERNAL STATIC	IN WG	2	1.5	1.9	2
TOTAL STATIC PRESS. DROP (CLEAN/DIRTY)	IN WG	4.8	5.6	4.7	6
AHU FAN BRAKE HORSEPOWER (DIRTY)	BHP	**	**	**	**
AHU FAN MOTOR HORSEPOWER	HP	ECM 2 @ 6.03	ECM 4 @ 4.02	ECM 2 @ 4.02	ECM 3 @ 10.7
AHU ELECTRICAL CHARACTERISTICS	V/Ø/HZ	480/3/60	480/3/60	480/3/60	480/3/60
MOTOR F.L.A.	AMPS	14.13	17.5	9	31
BREAKER SIZE (MOCBP)	AMPS	20	20	15	40
MAXIMUM CABINET DIMENSIONS (LxWxH)	IN	142 x 66 x 45	152 x 72 x 53	148 x 62 x 41	166 x 112.5 x 71
NOTES		1 - 14, 16, 17	1 - 17	1 - 14, 16, 17	1 - 17

- NOTES:
- OUTSIDE AIR FLOW RATE SHALL VARY BASED ON INDOOR CO2 CONCENTRATION (DCV)
 - NO CONTROLLER. CONTROLS BY OTHERS
 - COOLING COIL SECTION SHALL HAVE STAINLESS STEEL IAQ DRAIN PAN.
 - INCLUDE STAINLESS STEEL COIL CASING AND COIL SUPPORTS.
 - FILTER SECTION TO ACCOMMODATE 2" THICK PRE-FILTERS (MERV 8) WITH 4" THICK FINAL FILTERS (MERV 11).
 - THE COOLING COIL SHALL NOT HAVE MORE THAN 8 ROWS.
 - G-60 GALVANIZED DOUBLE-WALL UNIT WITH 2" THICK FOAM FILLED INSULATION, MINIMUM R = 13.
 - MOTORS SHALL BE ECM
 - MINIMUM 6" HIGH BASE RAIL INTEGRAL TO UNIT. CONDENSATE CONNECTION SHALL BE HIGH ENOUGH TO ALLOW FOR P-TRAP AND NO STANDING WATER IN PAN.
 - ACCESS DOORS SHALL BE HINGED WITH ROTATING DOOR LOCK AND GASKETS, AND MANUFACTURED OF THE SAME CONSTRUCTION OF THE BASE
 - MEAN FILTER PRESSURE DROP USED IN TSP AND BHP CALCULATIONS.
 - FC FAN, FACTORY BALANCED ACROSS OPERATING RPM, MOUNTED ON ISOLATION PLATFORM.
 - PROVIDE A 5-YEAR MANUFACTURER'S WARRANTY ON PARTS AND LABOR
 - FAN SHIPPING SECTIONS SHALL FIT THROUGH A 6'-0" x 7'-0" DOUBLE DOOR, OR INCLUDE INSTRUCTIONS TO KNOCK-DOWN SECTIONS.
 - ENTERING AIR TEMPERATURES ARE CALCULATED WITH ERV SYSTEM
 - FAN SECTIONS SHALL INCLUDE PERFORATED PANELS FOR NOISE ATTENUATION IN GYM AND MUSIC ROOMS.
 - AIR HANDLERS SHALL BE INSTALLED IN SECONDARY CONDENSATE PANS, WITH FLOAT SWITCH.

DRAW -THRU CONFIGURATION:

- MIXING BOX SECTION, TOP INLET WITH NO DAMPER, WITH FILTER FRAMES
- COOLING COIL
- HEATING COIL
- FAN SECTION, TOP OUTLET
- PROVIDE ACCESS DOORS ON ONE SIDE.

FAN SCHEDULE								
DESIGNATION		EF-1	EF-2	EF-3	EF-4	EF-5	EF-6	EF-7
AREA/ROOM SERVED & BUILDING		LOBBY RESTROOMS	MUSIC ROOMS	LOCKER ROOM	GYM / STAGE	LOCKER ROOM	CONCESSIONS	JANITOR CLOSET
SERVICE		TOILET EXHAUST	ERV EXHAUST	FEMALE	ERV EXHAUST	MALE	GENERAL EXHAUST	GENERAL EXHAUST
MANUFACTURER		GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL		G-120-VG	G-160-VG	G-120-VG	G-300-VG	G-120-VG	SP-A200	SP-A200
TYPE		DOWNBLAST	DOWNBLAST	DOWNBLAST	DOWNBLAST	DOWNBLAST	CEILING	CEILING
FAN CONSTRUCTION		ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	PP & GALV.	PP & GALV.
DRIVE TYPE		DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
AIR FLOWRATE DESIGN	CFM	1000	2400	800	9000	800	100	50
DESIGN STATIC PRESSURE	IN	0.6	1.3	0.6	1.3	0.6	0.4	0.4
DESIGN FAN SPEED	RPM	1250	1396	1124	806	1124	900	900
RADIATED SOUND POWER	SONES	9	16.7	7.7	19.1	7.7	4	4
ELECTRICAL CHARACTERISTICS	V/Ø/HZ	120 / 1 / 60	480 / 3 / 60	120 / 1 / 60	480 / 3 / 60	120 / 1 / 60	120 / 1 / 60	120 / 1 / 60
MOTOR HORSEPOWER	HP	1/2	2	1/4	5	1/4	48 W	48 W
MCA / MOP	AMPS	8 / 15	4 / 15	4.8 / 15	9.2 / 15	4.8 / 15	0.6 / 15	0.6 / 15
OPTIONS		3, 4, 5, 6, 7	3, 5, 6, 7, 8	3, 4, 5, 6, 7	3, 5, 6, 7, 8	3, 4, 5, 6, 7	1, 2, 3	1, 2, 3
CONTROL NOTES		1	3	1	3	1	2	1
PROJECT QTY.		1	1	1	1	1	1	1
OPTIONS:		7. PROVIDE ROOF CURB TO MATCH ROOF PITCH. CURB SHALL EXTEND MIN. 8" ABOVE ROOFING.				CONTROL NOTES:		
1. ALUMINUM GRILLE.		8. VARI-GREEN MOTOR AND INPUT FOR 0-10V SIGNAL				1. FAN WILL OPERATE DURING OCCUPIED HOURS VIA BAS.		
2. PREWIRED MOTOR DISCONNECT SWITCH, NEMA-1.		9. WALL BRACKET FOR SIDE-WALL MOUNTING.				2. FAN WILL OPERATE BASED ON OCCUPANCY SENSOR.		
3. BACKDRAFT DAMPER		10. FOR USE IN FLAMMABLE STORAGE APPLICATION, CLASS I, DIV 1, GROUP D, FAN TO BE SPARK RESISTANT AND MOTOR TO BE EXPLOSION-PROOF.				3. FAN WILL BE VARIABLE SPEED TO PROVIDE CONSTANT BUILDING PRESSURE THROUGH BAS.		
4. VARI-GREEN MOTOR						4. FAN WILL OPERATE VIA WALL SWITCH.		
5. PREWIRED MOTOR DISCONNECT SWITCH, NEMA-3R.								
6. FAN & CURB ARE TO BE RATED FOR HIGH WIND APPLICATION								

ENERGY RECOVERY VENTILATOR SCHEDULE				
DESIGNATION		ERV-2	ERV-4	
AREA/ROOM SERVED & BUILDING		AHU-2	AHU-4	
SERVICE		ENERGY RECOVERY	ENERGY RECOVERY	
MANUFACTURER		RENEWAIRE	RENEWAIRE	
MODEL		CA-4XJIN	CA-4XJIN	
QTY.		1	3	
TYPE		STATIC PLATE	STATIC PLATE	
SUPPLY AIR FLOWRATE	CFM	3200	11000	
EXHAUST AIR FLOWRATE	CFM	2600	9000	
OUTDOOR AIR	*FDB*/FWB	96 / 76	96 / 76	
FRESH AIR	*FDB*/FWB	81.5 / 70.3	81.9 / 70.4	
RETURN AIR	*FDB*/FWB	73 / 63	73 / 63	
SENSIBLE EFFECTIVENESS	%	77.8%	75.4%	
TOTAL EFFECTIVENESS	%	60.0%	57.2%	
LOAD SAVINGS RATIO	%	48.5%	46.6%	
SENSIBLE ENERGY RECOVERY	MBTUH	50.2	168.6	
LATENT ENERGY RECOVERY	MBTUH	30.5	82.5	
TOTAL ENERGY RECOVERY	MBTUH	80.7	251	
MOISTURE REMOVED	GR / LB	12.8	10	
OUTDOOR AIR	*FDB*/FWB	25.6 / 21.4	25.6 / 21.4	
FRESH AIR	*FDB*/FWB	53.5 / 41.1	52.8 / 40.6	
RETURN AIR	*FDB*/FWB	70 / 51.5	70 / 51.5	
SENSIBLE EFFECTIVENESS	%	77.8%	75.4%	
TOTAL EFFECTIVENESS	%	74.1%	71.6%	
LOAD SAVINGS RATIO	%	59.0%	56.2%	
SENSIBLE ENERGY RECOVERY	BTU/H	96.7	325.5	
LATENT ENERGY RECOVERY	BTU/H	18.7	60.4	
TOTAL ENERGY RECOVERY	BTU/H	115.5	386	
MOISTURE ADDED	GR / LB	8.2	7.7	
INTERNAL STATIC, O/A / E/A	IN WC	1.2 / 0.91	1.46 / 1.1	
FILTER QTY / SIZE, EACH	IN	8 / 20x20x2	8 / 20x20x2	
FILTER TYPE		MERV 11	MERV 11	
UNIT DIMENSIONS, EACH	LXWXH	82" x 35" x 35"	82" x 35" x 35"	
APPROX. UNIT WEIGHT, EACH	LBS	400	400	
NOTES:				
1. INDOOR UNITS				
2. DOUBLE WALL INSULATED CABINET				
3. MULTIPLE UNITS ARE TO BE STACKED, AND DUCT CONNECTIONS WILL BE PLENUM STYLE				
4. MAINTAIN ACCESS TO BOTH SIDES OF ERV FOR FILTER ACCESS.				

LOUVER SCHEDULE				
DESIGNATION		L-1	L-2	L-3
SERVICE		BOILER ROOM 115	PLATFORM 201	PLATFORM 202
NOMINAL SIZE (WXH)	IN	72" x 28"	96"x48"	24" x 24"
BLADE ORIENTATION		VERTICAL	VERTICAL	VERTICAL
FREE AREA (DESIGN MINIMUM)	%	51%	58%	43%
FREE AREA	SQ FT	6.25 SF MIN.	18.5 SF	1.7 SF
CAPACITY			15,700 CFM	1500 CFM
DEPTH	IN	5	5	5
TYPE		EXTERIOR	EXTERIOR	EXTERIOR
MATERIAL/CONSTRUCTION		ALUMINUM	ALUMINUM	ALUMINUM
BASIS OF DESIGN MANUFACTURER		GREENHECK	GREENHECK	GREENHECK
BASIS OF DESIGN MODEL		EVH-501D	EVH-501D	EVH-501
QUANTITY		1	1	1
NOTES		1 to 4, 6, 8	1 to 4, 7, 9	1 to 4, 7, 9

- NOTES:
- CONSTRUCTED OF EXTRUDED ALUMINUM.
 - EXPANDED, FLATTENED ALUMINUM BIRD SCREEN.
 - FLORIDA PRODUCT APPROVED.
 - INCLUDE INSECT SCREEN
 - PROVIDE INSULATED BLANK PANEL
 - TO BE INSTALLED IN A DOOR FRAME
 - TO BE INSTALLED IN A CMU WALL
 - FINISH COLOR TO MILL FINISH ANODIZED ALUMINUM
 - FINISH COLOR TO BE CUSTOM COLOR, OWNER TO ADVISE.

GRAVITY VENTILATOR SCHEDULE			
DESIGNATION		GV-1	GV-2
SERVICE		EXHAUST	WALL CAP
NOMINAL SIZE (WXH)	IN	8	6
FREE AREA (DESIGN MINIMUM)	SQ FT	0.37	-
AIR FLOW RATE	CFM	70-300	70
MAXIMUM PRESSURE DROP	IN	0.2	0.2
THROAT VELOCITY	FFM	VARIES	350
MATERIAL/CONSTRUCTION		ALUMINUM	ALUMINUM
CURB CAP	IN	16x19	N/A
ROOF CURB		YES	N/A
CURB HEIGHT	IN	12", F.V.	N/A
ROOF OPENING	IN	10.5 x 10.5	6"Ø
BASIS OF DESIGN MANUFACTURER		GREENHECK	GREENHECK
BASIS OF DESIGN MODEL		GRSR	WC-6
PROJECT QTY.		2	1
NOTES		1-4	1, 5
NOTES:			
1. HEAVY-GAUGE ALUMINUM CONSTRUCTION, STANDARD FINISH			
2. PROVIDE ROOF CURB TO MATCH ROOF PITCH. CURB SHALL EXTEND MIN. 8" ABOVE ROOFING.			
3. CURB CAP TO BE PRE-PUNCHED FOR MOUNTING TO CURB			
4. BIRD SCREEN, 1/2" GALV. MESH			
5. PROVIDE WITH DAMPER & NO BIRD SCREEN.			

FUTURE COOLING & HEATING LOADS					
BUILDING	SQ.FT.	C/O CAPACITY TONS	CHW FLOW GPM	H/C CAPACITY MBH	HHW FLOW GPM
BLDG 15	N/A	30	60	89	9
BLDG 16	N/A	15	30	28	3
BLDG 18	N/A	38	76	419	42
BLDG 18	N/A	** 27	N/A	** 219	N/A
GYM	36,000	150	300	700	70
CLASSROOMS A	29,500	90	180	490	49
CLASSROOMS B	23,000	70	140	390	39
ADMIN / MEDIA	18,000	45	90	300	30
CONNECTED TO CHILLER: 438 TONS 876 GPM 2420 MBH 242 GPM HHW SYSTEM					

ZONE DIRECT EXHAUST	EXHAUST CFM	O/A CFM		
AHU-1	1050	1500		
103 JANITOR	50			
106 RR-F	550			
108 RR-M	350			
111 CONCESSIONS	100			
AHU-2	0	3200		
AHU-3	1500	1500		
117A COACH RR	50			
118 LOCKER ROOM	350			
120 LOCKER RR-M	350			
141A COACH RR	50			
142 LOCKER ROOM	350			
144 LOCKER RR-F	350			
AHU-4	0	11,000		

DUCTLESS SPLIT SYSTEM SCHEDULE			
DESIGNATION		CU-105 & FCU-105	CU-201 & FCU-201
LOCATION		MDU	PLATFORM
TYPE OF UNIT		WALL MOUNT COOLING ONLY	WALL MOUNT COOLING ONLY
MANUFACTURER		DAIKIN	DAIKIN
FAN COIL UNIT MODEL		PKA-AL12NL	PKA-AL12NL
CONDENSING UNIT MODEL		PUZ-AK12NL	PUZ-AK12NL
SUPPLY AIR (LOW, MED, HIGH)	CFM	265, 290, 385	265, 290, 385
VENTILATION AIR	CFM	N/A	N/A
FAN STATIC (EXTERNAL)	IN	N/A	N/A
AHRI RATED COOLING CAPACITY	MBH	12.0	12.0
SEER	BTU/HWATT	21.3	21.3
RATED HEATING CAPACITY	MBH	N/A	N/A
UNIT ELECTRICAL CHARACTER.	V/Ø/HZ	208/230 / 1 / 60	208/230 / 1 / 60
MINIMUM CIRCUIT AMPS	AMPS	16	16
BREAKER SIZE	AMPS	20	20
SUCTIION/LIQUID LINE SIZE	IN	1/2" / 1/4"	1/2" / 1/4"
MAX PIPING LENGTH	FT	165	165
FAN COIL DIMENSIONS (LXWXDP)	IN	36X12X10	36X12X10
NOTES		ALL	ALL
NOTES:			
1. VARIABLE INVERTER-DRIVEN COMPRESSOR, HIGH PRESSURE SWITCH, EXTERNAL SERVICES VALVES.			
2. INDOOR UNIT POWERED BY OUTDOOR UNIT.			
3. PROVIDE SIMPLE WIRED CONTROLLER			
4. PROVIDE REFCO GOBI II CONDENSATE PUMP W/ RESERVOIR & SENSOR TO OVERRIDE EQUIPMENT OPERATION ON HIGH CONDENSATE LEVEL.			
5. INCLUDE CONDENSER WALL BRACKET OR MOUNTING PAD.			

DUCT SILENCER SCHEDULE				
DESIGNATION		SA-1	SA-2	
SERVICE		GYM SUPPLY AIR	GYM RETURN AIR	
NOMINAL SIZE (WxHxL)	IN	42" x 42" x 36"	42" x 42" x 60"	
AIR FLOW	CFM	18,000	18,000	
VELOCITY	FPM	1469	1469	
PRESSURE DROP	IN. W.G.	0.22"	0.20"	
MIN. DYNAMIC INSERTION LOSS				
63 Hz	dB	3	5	
125 Hz	dB	9	11	
250 Hz	dB	15	20	
500 Hz	dB	22	31	
1 KHz	dB	27	38	
2 KHz	dB	24	32	
4 KHz	dB	16	21	
8 KHz	dB	12	15	
MATERIAL/CONSTRUCTION		22 GA. GALV.	22 GA. GALV.	
BASIS OF DESIGN/MANUFACTURER		RUSKIN	RUSKIN	
BASIS OF DESIGN MODEL		AM36	DM60	
QUANTITY		1	1	
WEIGHT		LBS	775	1045
NOTES		1, 2, 3		1, 2



ATLANTA
1401 Peachtree Street NE, Suite 200
ATLANTA, GA 30309

FITZGERALD COLLABORATIVE GROUP, LLC
AA26001957

JON BARBER, PE 55427 | BRIAN WALLACE, PE 75062
820 EAST PARK AVE, I-200, TALLAHASSEE, FL 32301
MEE INC.COM | 900.681.8424



**100%
CONSTRUCTION
DOCUMENTS**

DISCUSSION

**LEON
COUNTY
SCHOOLS**

RAA MIDDLE

401 W THARPE STREET,
TALLAHASSEE, FL 32303

250225

DRAWING TITLE

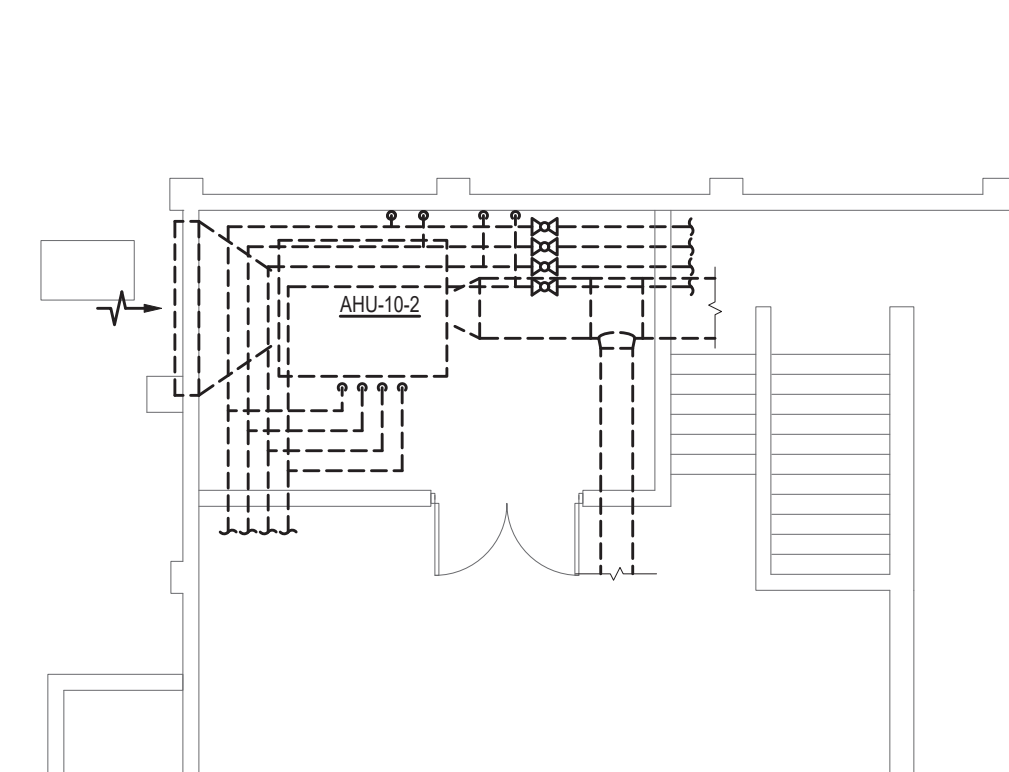
DEMOLITION

MD-101

1. DEMOLITION SCOPE
BLDG 10: REMOVE ALL HVAC EQUIPMENT AND ASSOCIATED APPURTENANCES IN EXISTING BUILDING. THE CHILLED WATER AND HEATING HOT WATER PIPING WILL BE REROUTED TO THE NEW UTILITY PLANT.
 - ALL BUILDING STRUCTURES WILL BE REMOVED - LGS WILL SALVAGE ANY MODULES, THERMOSTATS AND SENSORS PRIOR TO DEMOLITION
2. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE SITE PRIOR TO SUBMITTING A BID. DUE TO THE NATURE OF THIS PROJECT AND THE STATE OF THE EXISTING BUILDING, IT IS IMPOSSIBLE TO COMPLETELY RELATE THE SCOPE OF THE DEMOLITION REQUIRED TO THE CONTRACTOR THROUGH THE CONTRACT DOCUMENTS. FAILURE TO VISIT THE SITE WILL BE CONSIDERED BY THE CONTRACTOR AS AN ACCEPTANCE OF THE SCOPE OF THE CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND COORDINATE THE EXACT CONTENT OF DEMOLITION NECESSARY TO PROVIDE A RENOVATED AND UPGRADED SPACE AND TO FACILITATE NEW WORK.
3. INFORMATION REGARDING THE EXISTING CONDITIONS WAS GATHERED FROM THE ALL AVAILABLE EXISTING DRAWINGS, SURVEY AND CORRESPONDENCE WITH UTILITY, STAFF AND OTHER PERSONNEL. THERE ARE NO GUARANTEES AS TO THE ACCURACY OF THIS INFORMATION AND IT IS OFFERED FOR INFORMATION ONLY.
4. VERIFY EXISTING LOCATIONS OF EQUIPMENT, PIPING AND SYSTEM COMPONENTS PRIOR TO DEMOLITION. IF EXISTING CONDITIONS ARE DIFFERENT THAN WHAT IS INDICATED ON THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
5. MINIMIZE DISTURBANCE AND/OR DAMAGE TO EXISTING FINISHED SURFACES AND FINISHES. WHERE DEMOLITION OF SYSTEM COMPONENTS DAMAGES EXISTING SURFACE TO REMAIN, REPAIR THESE SURFACES PRIOR TO DEMOLITION. WORK ON THE ADJACENT SURFACES RESTORATION MUST BE PERFORMED BY WORKMEN SKILLED IN PERFORMING SUCH WORK. ALL FIRE AND SMOKE RATINGS SHALL BE RETAINED AS PART OF THE REPAIRS AND PATCH/SKAL HOLES WEATHER TIGHT WHERE REQUIRED. ALL PATCHES AND REPAIRS SHALL BE SUBJECT TO REVIEW AND APPROVAL OF THE ARCHITECT.
6. ALL AREAS OF EGRESS SHALL BE KEPT OPEN AND FREE FROM DEBRIS AT ALL TIMES.
7. DO NOT REMOVE ITEMS SUPPORTING OTHER ITEMS WITHOUT PROVIDING TEMPORARY OR PERMANENT SUPPORT AS REQUIRED. SEE DRAWINGS FOR AREAS AND EXTENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY SUPPORTS FOR DAMAGED ITEMS.
8. VERIFY EXTENT OF PIPING, EQUIPMENT, COMPONENTS AND CONTROLS TO BE RETAINED OR REUSED PRIOR TO THE DEMOLITION OF SPECIFIC SYSTEM PROTECT ITEMS WHICH ARE TO BE REUSED ON SITE TO MINIMIZE POST CONSTRUCTION REPAIRS. ANY ITEMS WHICH ARE DAMAGED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CONTRACT.
9. REMOVE EQUIPMENT OWNER WISHES TO RETAIN AND DELIVER TO THE LOCATION DESIGNATED BY THE OWNER. REMOVE PROMPTLY FROM SITE ALL MATERIALS AND EQUIPMENT INDICATED FOR REMOVAL WHICH ARE NOT SPECIFIED FOR REUSE, STORAGE, OR RETAINED BY OWNER.
10. VERIFY ALL EXISTING STRUCTURAL CONDITIONS AND NOTIFY STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO PENETRATING EXISTING BUILDING STRUCTURAL SYSTEMS.
11. NO DEMOLITION SHALL OCCUR WHICH LEAVES THE BUILDING INTERIOR WITHOUT WEATHER PROTECTION. ALL DEMOLITION OF EXTERIOR OF EXTERIOR SURFACES SHALL BE FOLLOWED IMMEDIATELY BY PROTECTIVE CONSTRUCTION. CONTRACTORS SHALL PROVIDE AND INSTALL TEMPORARY PROTECTION IN ALL OPENINGS WHERE WINDOWS AND EXTERIOR WALLS ARE REFERENCED.

BUILDING	YEAR	C/C CAPACITY TONS	CHW FLOW GPM	H/C CAPACITY MBH	HHW FLOW GPM	
BLDG 1	2011	25.2	50	141	14	
BLDG 2	2003	24.4	50	260	26	
BLDG 3	2003	19	38	192	19	
BLDG 4	2003	39	N/A	282	N/A	**DX
BLDG 5	2007	12	N/A	97	N/A	**DX
BLDG 6	2007	39	N/A	282	N/A	**DX
BLDG 7	2007	12	N/A	97	N/A	**DX
BLDG 8	2011	25	50	108	11	
BLDG 9	2011	N/A	N/A	34	3.5	
BLDG 10	2011	46	92	102	10	
BLDG 11	N/A	N/A	N/A	N/A	N/A	
BLDG 12	2011	14	28	20	2	
BLDG 13	2011	12	24	23	2.3	
BLDG 14	2003	9	18	12	1.2	
BLDG 15	2011	30	60	89	9	
BLDG 16	2011	15	30	28	3	
BLDG 18	03/16	65	76	638	42	**DX & CHW AHUs
TOTAL: 390 TONS				2405 MBH		
CONNECTED TO CHILLER: 258 TONS			516 GPM	1428 MBH	143 GPM	HHW SYSTEM





SOUTH MEZZANINE

- 

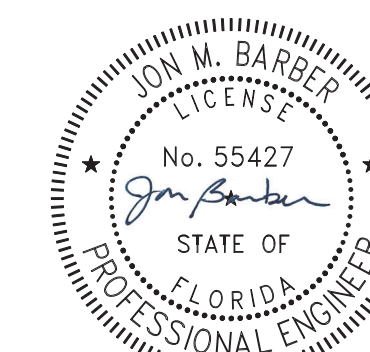
ATLANTA
1401 Peachtree Street NE, Suite 200
ATLANTA, GA 30309

TALLAHASSEE
850 Gadsden Street, Suite 140
TALLAHASSEE, FL 32301

FITZGERALD COLLABORATIVE GROUP, LLC.
AA26001957



JON BARBER, PE 55427 | BRIAN WALLACE, PE 7550
820 EAST PARK AVE., I-200, TALLAHASSEE, FL 32310
MFE-INC.COM | 850.681.8424



This item has been digitally signed and sealed by **Jon Barber, PE** on 8/19/26
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

[illegible]

**100%
CONSTRUCTION
DOCUMENTS**

CLIENT

**LEON
COUNTY
SCHOOLS**

PROJECT TITLE

**RAA MIDDLE
SCHOOL -
PHASE 1
GYM EARLY
RELEASE**

401 W THARPE STREET,
TALLAHASSEE, FL 32303

PROJECT NUMBER

250225

ISSUE DATE

06/05/2026

DRAWING TITLE

**DEMOLITION
PLAN, BLDG. 10
- MECHANICAL**

SHEET NUMBER

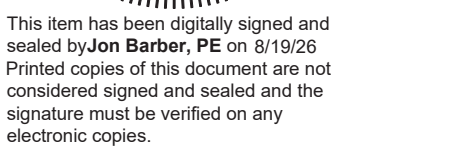
MD-102





ATLANTA
01 Peachtree Street NE, Suite 200
ATLANTA, GA 30309

TERZGERALD COLLABORATIVE GROUP, LLC.
A26001957



PERMIT DOCUMENTS

ONT

**LEON
COUNTY
SCHOOLS**

SUBJECT TITLE

RAA MIDDLE SCHOOL - PHASE 1 GYM

01 W THARPE STREET,
ALLAHASSEE, FL 32303

JECT NUMBER

0225

DATE _____

/28/26

WORKING TITLE

SITE PLAN - MECHANICAL FUTURE PHASES

ET NUMBER

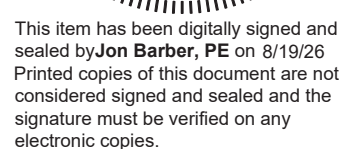
M-202



1" = 40'-0"



1. INSTALL CHILLED WATER H&A ENERGY RECOVERY EQUIP IN MECHANICAL ROOMS. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCE FOR FILTER AND MAINTENANCE ACCESS.
2. AIR HANDLERS ARE TO BE INSTALLED ON 4" TALL HOUSE KEEPING PADS, AND SHALL HAVE AUXILIARY DRAIN PANS.
3. INSTALL SUPPLY AND RETURN DUCTWORK AS SHOWN. COORDINATE WITH OTHER DISCIPLINES. ALL DUCTWORK INSIDE MECHANICAL ROOM SHALL HAVE EXTERNAL RIGID INSULATION. ALL OTHER DUCTWORK SHALL HAVE BLANKET INSULATION, U.N.O.
4. PROVIDE FIRE DAMPERS AND FIRE-SMOKE DAMPERS WHERE DUCTS PASS THROUGH FIRE PARTITIONS. FLEX DUCT MAY NOT EXTEND THROUGH ANY RATED WALLS. SEE LIFE SAFETY PLAN FOR COORDINATION.
5. ADD SMOKE DAMPERS AND DUCT DETECTORS TO SUPPLY AND RETURN AIR DUCTS WHERE THERE ARE FIRE-SMOKE PARTITIONS AND HAVE A GRILLE OR DIFFUSER. FLEX DUCT MAY NOT EXTEND THROUGH ANY RATED WALLS. SEE LIFE SAFETY PLAN FOR COORDINATION.
6. THE DRYER EXHAUST DUCT IS TO ROUTE ABOVE THE CEILING TO THE EXTERIOR WALL. DUCT SHALL BE RIGID WITH A MINIMUM WALL THICKNESS OF 26 GA. THE WALL CAP CANNOT HAVE A BIRD SCREEN.
7. BALANCING DAMPERS ARE NOT TO BE INSTALLED ABOVE GYPSUM CEILINGS.
8. EXPOSED DUCT IN GYM TO BE DOUBLE-WALL INSULATED DUCT, AND SUPPORTED ABOVE THE BOTTOM CHORD OF THE ROOF TRUSSES. THE BOTTOM CHORD OF THE TRUSSES IS FLAT. DUCT TO BE PAINTED.
9. OUTSIDE AIR FOR AHU-1 WILL BE SUPPLIED FROM LOUVER L-3 IN THE EAST WALL OF PLATFORM 202. OUTSIDE AIR FOR AHU-2, AHU-3, & AHU-4 WILL BE SUPPLIED FROM LOUVER L-2 IN THE EAST WALL OF PLATFORM 201.
10. COMBUSTION AIR FOR THE BOILERS AND WATER HEATER WILL BE FROM LOUVER L-1 OVER THE DOORS OF THE BOILER ROOM. THE LOUVER OPEN AREA SHALL BE 1 IN2 PER 300 BTU AND SHALL COMMENCE WITHIN 12" OF THE CEILING.
11. COORDINATE GRILLES AND DIFFUSERS WITH CEILING GRID AND OTHER DISCIPLINES.
12. LIMIT FLEX DUCT RUNLENGTHS TO 10' MAX. SUPPORT FLEX DUCT FROM STRUCTURE WITH SADDLES TO AVOID KINKS AND SHARP BENDS.
13. IN THE LOBBY 100, THE LINEAR SLOTT DIFFUSERS ARE TO BE INSTALLED IN CLOUD CEILING ELEMENTS. COORDINATE DIFFUSER INSTALLATION WITH ARCHITECTURAL CEILING SYSTEM. ADJUST THE AIR PATTERN CONTROLLERS FOR EVEN DISTRIBUTION OF THE SUPPLY AIR.
14. INSTALL WALL-MOUNTED DUCTLESS SPLIT AIR CONDITIONERS IN ROOMS 105 AND 201A. COORDINATE UNIT TO BE INSTALLED ON MOUNTING PAD OR WALL BRACKET. SET FAN SPEED TO AUTO (A.D.X.).
15. INSTALL EXHAUST FANS IN CELLINGS OR ON THE ROOF, AND DUCT FROM BUILDING AS INDICATED. WHERE CEILING EXHAUST FANS ARE SHOWN, PROVIDE A GRAVITY VENTILATOR ON THE ROOF. THE JANITOR CLOSET HAS A SMOKE PARTITION AND SHALL BE VENTED SEPARATELY.
16. CONTROL DAMPERS FOR AIR FLOW WILL BE PROVIDED BY THE CONTROLS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.
17. PROVIDE AND INSTALL THE BOILER FUEL FOR THE CONDENSING BOILERS. THE BOILERS WILL BE COMMON VENTED. THE FUEL WILL HAVE AN EQUIVALENT LENGTH OF UNDER 100 FEET. THE FUEL SHALL BE DIRECT AS POSSIBLE. THE FUEL MATERIAL SHALL BE 10" DOUBLE-WALL A24-4C STAINLESS STEEL. THE BOILER MANUFACTURER SHALL CONFIRM.



PERMIT DOCUMENTS

CLIENT

**LEON
COUNTY
SCHOOLS**

PROJECT TITLE

**RAA MIDDLE
SCHOOL -
PHASE 1
GYM**

401 W THARPE STREET,
TALLAHASSEE, FL 32303

PROJECT NUMBER

250225

ISSUE DATE

07/28/20

DRAWING TITLE

**GYM FLOOR
PLAN -
MECHANICAL**

SHEET NUMBER

M-301

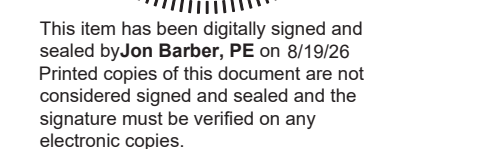
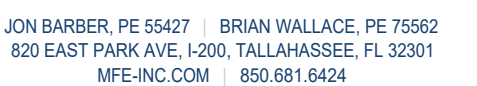
1. INSTALL CHILLED WATER AHU & ENERGY RECOVERY EOPF IN MECHANICAL ROOMS. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCE OFF FILTER AND MAINTENANCE ACCESS.
2. AIR HANDLERS ARE TO BE INSTALLED ON 6" TALL HOUSE KEEPING PADS, AND SHALL HAVE AUXILIARY DRAIN PANS.
3. INSTALL SUPPLY AND RETURN DUCTWORK AS SHOWN. COORDINATE WITH OTHER DISCIPLINES. ALL DUCTWORK INSIDE MECHANICAL ROOM SHALL HAVE EXTERNAL RIGID INSULATION. ALL OTHER DUCTWORK SHALL HAVE BLANKET INSULATION, U.N.O.
4. PROVIDE FIRE DAMPERS AND FIRE-SMOKE DAMPERS WHERE DUCTS PASS THROUGH FIRE PARTITIONS. FLEX DUCT MAY NOT EXTEND THROUGH ANY RATED WALLS. SEE LIFE SAFETY PLAN FOR COORDINATION.
5. ADD SMOKE DAMPERS AND DUCT DETECTORS TO SUPPLY AND RETURN AIR DUCTS WHERE THEY CROSS SMOKE PARTITIONS AND HAVE A GRILLE OR DIFFUSER. FLEX DUCT MAY NOT EXTEND THROUGH ANY RATED WALLS. SEE LIFE SAFETY PLAN FOR COORDINATION.
6. THE DRYER EXHAUST DUCT IS TO ROUTE ABOVE THE CEILING TO THE EXTERIOR WALL. DUCT SHALL BE RIGID WITH A MINIMUM WALL THICKNESS OF 26 GA. THE WALL CAP CANNOT HAVE A BIRD SCREEN.
7. BALANCING DAMPERS ARE NOT TO BE INSTALLED ABOVE GYPSUM CEILINGS.
8. EXPOSED DUCT IN GYM TO BE DOUBLE-WALL INSULATED DUCT, AND SUPPORTED ABOVE THE BOTTOM CHORD OF THE ROOF TRUSSES, THE BOTTOM CHORD OF THE TRUSSES IS FLAT. DUCT TO BE PAINTED.
9. OUTSIDE AIR FOR AHU-1 WILL BE SUPPLIED FROM LOUVER L-3 IN THE EAST WALL OF PLATFORM 20. OUTSIDE AIR FOR AHU-2, AHU-3, & AHU-4 WILL BE SUPPLIED FROM LOUVER L-2 IN THE EAST WALL OF PLATFORM 20-1.
10. COMBUSTION AIR FOR THE BOILERS AND WATER HEATER WILL BE FROM LOUVER L-1 OVER THE DOORS OF THE BOILER ROOM. THE LOUVER OPEN AREA SHALL BE 1 IN2 PER 300 BTU AND SHALL COMMENCE WITHIN 12" OF THE CEILING.
11. COORDINATE GRILLES AND DIFFUSERS WITH CEILING GRID AND OTHER DISCIPLINES.
12. LIMIT FLEX DUCT RUNOUTS TO 10' MAX. SUPPORT FLEX FROM STRUCTURE WITH SADDLES TO AVOID KINKS AND SHARP BENDS.
13. IN THE LOBBY 100, THE LINEAR SLOD DIFFUSERS ARE TO BE INSTALLED IN CLOUD CEILING ELEMENTS. COORDINATE DIFFUSER INSTALLATION WITH ARCHITECTURAL CEILING SYSTEM. ADJUST THE AIR PATTERN CONTROLLERS FOR EVEN DISTRIBUTION OF THE SUPPLY AIR.
14. INSTALL WALL-MOUNTED DUCTLESS SPLIT AIR CONDITIONERS IN ROOMS 105 AND 201A. CONTROLS SHALL NOT BE INSTALLED ON MOUNTING PAD OR WALL BRACKET. SET FAN SPEED TO AUTO (A.D.).
15. INSTALL EXHAUST FANS IN CEILINGS OR ON THE ROOF, AND DUCT FROM BUILDING AS INDICATED. WHERE CEILING EXHAUST FANS ARE SHOWN, PROVIDE A GRAVITY VENTILATOR ON THE ROOF. THE JANITOR CLOSET HAS A SMOKE PARTITION AND SHALL BE VENTED SEPARATELY.
16. CONTROL DAMPERS FOR AIR FLOW WILL BE PROVIDED BY THE CONTROLS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR.
17. PROVIDE AND INSTALL THE BOILER FLUE FOR THE CONDENSING BOILERS. THE BOILERS WILL BE COMMON VENTED. THE FLUE WILL HAVE AN EQUIVALENT LENGTH OF UNDER 100 FEET. THE CONDENSING BOILER SHOULD BE AS CLOSE AS POSSIBLE TO THE FLUE MATERIAL. SHALL BE 10" DOUBLE-WALL AL29-2C STAINLESS STEEL. THE BOILER MANUFACTURER SHALL CONFIRM.



ATLANTA
1401 Peachtree Street NE, Suite 200
ATLANTA, GA 30309

TALLAHASSEE
850 Gadsden Street, Suite 140
TALLAHASSEE, FL 32301

FITZGERALD COLLABORATIVE GROUP, LLC
AA26001957



PERMIT DOCUMENTS

CLIENT

**LEON
COUNTY
SCHOOLS**

PROJECT TITLE

RAA MIDDLE SCHOOL - PHASE 1 GYM

401 W THARPE STREET,
TALLAHASSEE, FL 32303

PROJECT NUMBER

250225

ISSUE DATE

07/28/26

DRAWING TITLE

GYM PLATFORM PLAN - MECHANICAL

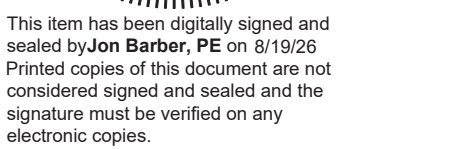
SHEET NUMBER

M-302



ATLANTA
01 Peachtree Street NE, Suite 200
ATLANTA, GA 30309

TERGALD COLLABORATIVE GROUP, LLC.
A26001957



PERMIT DOCUMENTS

ONT

SUBJECT TITLE

01 W THARPE STREET,
ALLAHASSEE, FL 32303

SUBJECT NUMBER

0225

DATE _____

/28/26

ET NUMBER

M-304



1/4" = 1'-0'



NORTH

DUCT NOTES

1. ON THE PLATFORMS, MAINTAIN 7-FT MINIMUM CLEARANCE TO THE BOTTOM OF THE DUCTS AND ERV-2, INCLUDING INSULATION.



1/4" = 1'-0"



NORTH

1. INSTALL CHW/HWH/HAU TO AHUs: MAIN PIPING RUNS SHALL BE AHAP. SUPPORT FROM STRUCTURE. SEE COIL CONNECTION DETAILS. AVOID ROUTING PIPING IN FRONT OF ACCESS DOORS AND OVER ELECTRICAL PANELS
2. INSTALL CONDENSATE PIPING FROM ALL COOLING COILS. DRAIN LINES SHALL HAVE P-TRAPS AND ROUTE TO CONDENSATE FLOOR DRAIN FOR CONNECTION INTO STORM WATER SYSTEM
3. INSULATE ALL CHWS, CHWR, HWHs, HWHR, AND CONDENSATE PIPING. ALL EXTERIOR PIPING SHALL BE CLAD WITH ALUMINUM. USE POLYURETHANE FOR BELOW GROUND PIPING. ALL PIPING THAT PENETRATES SMOKE RATED WALLS SHALL BE SEALED.
5. PROVIDE AND INSTALL ALL DEVICES SHOWN IN THE SCHEMATICS ON SHEET M104.
6. INLINE CONTROLS DEVICES WILL BE PROVIDED BY THE CONTROLS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. VERIFY STRAIGHT RUN REQUIREMENTS.
7. COORDINATE PIPING, SIZING, INLINE COMPONENTS, ETC. WITH SCHEMATICS ON SHEET M-104



ATLANTA
1401 Peachtree Street NE, Suite 200
ATLANTA, GA 30309

TALLAHASSEE
850 Gadsden Street, Suite 140
TALLAHASSEE, FL 32301

FITZGERALD COLLABORATIVE GROUP, LLC
AA26001957



PERMIT DOCUMENTS

CLIENT _____

**LEON
COUNTY
SCHOOLS**

PROJECT TITLE _____

**RAA MIDDLE
SCHOOL -
PHASE 1
GYM**

401 W THARPE STREET,
TALLAHASSEE, FL 32303

PROJECT NUMBER

250225

ISSUE DATE _____

07/28/26

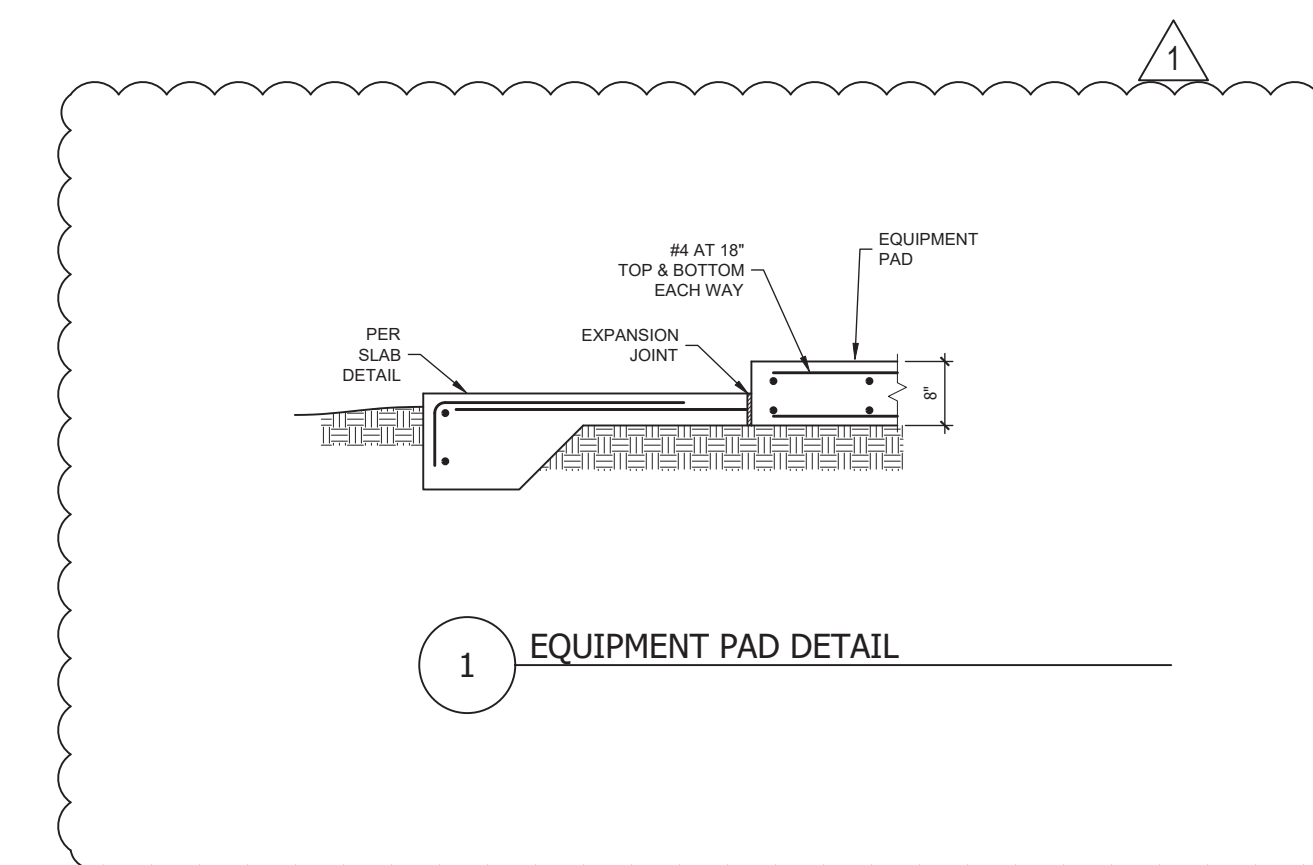
DRAWING TITLE

GYM FLOOR PLAN - MECHANICAL PIPING

SHEET NUMBER

M-305

1. INSTALL CHW/HWHP PIPING TO AHUs. MAIN PIPING RUNS SHALL BE AHAF. SUPPORT FROM STRUCTURE. SEE COIL CONNECTION DETAILS. AVOID ROUTING PIPING IN FRONT OF ACCESS DOORS AND OVER ELECTRICAL PANELS
2. INSTALL CONDENSATE PIPING FROM ALL COOLING COILS. DRAIN LINES SHALL HAVE P-TRAPS AND ROUTE TO CONDENSATE FLOOR DRAIN FOR CONNECTION INTO STORM WATER SYSTEM.
3. INSULATE ALL CHWS, CHWR, HHWS, HHWR, AND CONDENSATE PIPING. ALL EXTERIOR PIPING SHALL BE CLAD WITH ALUMINUM. INSULATION REQUIRED FOR BELOW GRADE PIPING. ALL PIPING THAT PENETRATES SMOKE RATED WALLS SHALL BE SEALED.
5. PROVIDE AND INSTALL ALL DEVICES SHOWN IN THE SCHEMATICS ON SHEET M-104.
6. INLINE CONTROLS DEVICES WILL BE PROVIDED BY THE CONTROLS CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. VERIFY STRAIGHT RUN REQUIREMENTS.
7. COORDINATE PIPING, SIZING, INLINE COMPONENTS, ETC. WITH SCHEMATICS ON SHEET M-104.



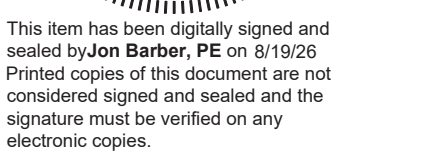
01 ENLARGED PLAN - CHILLER YARD



ATLANTA
101 Peachtree Street NE, Suite 200
ATLANTA, GA 30309

ALLAHASSEE
60 Gadsden Street, Suite 140
ALLAHASSEE, FL 32301

ATZGERALD COLLABORATIVE GROUP, LLC.
A26001957

[illegible]

PERMIT DOCUMENTS

ENT

**LEON
COUNTY
SCHOOLS**

SUBJECT TITLE

RAA MIDDLE SCHOOL - PHASE 1 GYM

01 W THARPE STREET,
ALLAHASSEE, FL 32303

JECT NUMBER

0225

DATE

/28/26

...ING TITLE

ENLARGED PLANS - CHILLER & BOILER

ET NUMBER

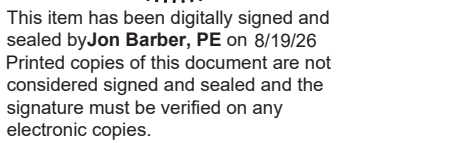
M-307



ATLANTA
101 Peachtree Street NE, Suite 200
ATLANTA, GA 30309

ALLAHASSEE
60 Gadsden Street, Suite 140
ALLAHASSEE, FL 32301

TERGALD COLLABORATIVE GROUP, LLC.
A26001957



100%
CONSTRUCTION
DOCUMENTS

ENT

**LEON
COUNTY
SCHOOLS**

SUBJECT TITLE

**RAA MIDDLE
SCHOOL -
PHASE 1
GYM EARLY
RELEASE**

01 W THARPE STREET,
ALLAHASSEE, FL 32303

SUBJECT NUMBER

0225

DATE _____

/05/2026

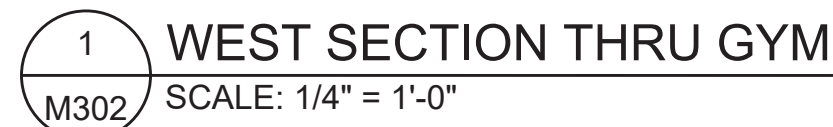
WORKING TITLE

SECTIONS

ET NUMBER

M 000

M-308

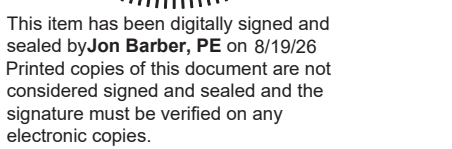




ATLANTA
101 Peachtree Street NE, Suite 200
ATLANTA, GA 30309

ALLAHASSEE
60 Gadsden Street, Suite 140
ALLAHASSEE, FL 32301

ATZGERALD COLLABORATIVE GROUP, LLC.
A26001957



100%
CONSTRUCTION
DOCUMENTS

ONT

**LEON
COUNTY
SCHOOLS**

SUBJECT TITLE

**RAA MIDDLE
SCHOOL -
PHASE 1
GYM EARLY
RELEASE**

01 W THARPE STREET,
ALLAHASSEE, FL 32303

JECT NUMBER

0225

DATE _____

/05/2026

SECTIONS

ET NUMBER

M-309

