

OCEAN SPRINGS SCHOOL DISTRICT
OCEAN SPRINGS MIDDLE SCHOOL
2023 HVAC REPLACEMENT

3600 HANSHAW ROAD
OCEAN SPRINGS, MS 39564



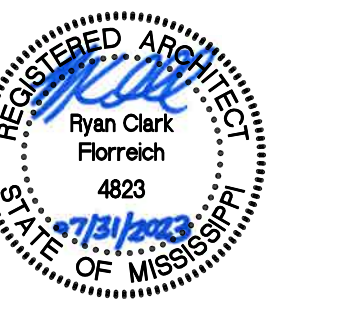
Columbus
Jackson
Tupelo
800 864 2863
jbhm.com



OCEAN SPRINGS SCHOOL DISTRICT
OCEAN SPRINGS MIDDLE SCHOOL
2023 HVAC REPLACEMENT

Revisions		
No.	Description	Date

OCEAN SPRINGS SCHOOL DISTRICT
OCEAN SPRINGS MIDDLE
SCHOOL 2023 HVAC
REPLACEMENT



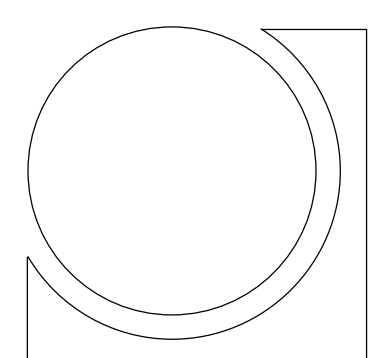
3600 HANSHAW ROAD
OCEAN SPRINGS, MS 39564

A000
COVER SHEET

Drawn By	Checked By	Date
RCF	RCF	07/31/2023

Scale: Project Number
23034.00

SET NUMBER



CODE REVIEW	
DESIGN CODE	2018 INTERNATIONAL CODE COUNCIL (ICC)

DRAWING INDEX - HVAC	
Sheet Number	Sheet Name
M100	Overall Mechanical Plan
M200	Mechanical Schedules
M300	Mechanical Details

SPECIFIC MECHANICAL NOTES	
M1	REPLACE EXISTING SPLIT SYSTEM. PROVIDE NEW SUPPLY AIR DUCTWORK TRANSITIONS AS REQUIRED TO CONNECT TO EXISTING TRUNK DUCT. CONNECT NEW CONDENSATE DRAIN PIPING TO EXISTING DISCHARGE PIPING IN SAME LOCATION. PROVIDE NEW THERMOSTAT (IN SAME LOCATION AS EXISTING) EQUAL TO WICOMICS VT 8626 SERIES, DISTECH ECLYPSE SERIES OR EQUAL WITH WIRED OR WIRELESS CONTROL OPTIONS FOR FUTURE BUILDING MANAGEMENT SYSTEM. EXISTING REFRIGERANT PIPING SIZES SHALL BE FIELD VERIFIED TO BE COMPATIBLE WITH NEW UNIT. IF COMPATIBLE, EXISTING PIPING TO BE CLEANED UTILIZING PIPE-WIPER (BY A-JACKS MANUFACTURING) AND FLUSHED WITH QUIK SYSTEM FLUSH BY MAINSTREAM ENGINEERING CORPORATION. SUBSEQUENTLY, EXISTING PIPING SHALL BE PRESSURE TESTED AND CLEANED AS REQUIRED FOR NEW INSTALLATION. IF NOT COMPATIBLE, EXISTING PIPING SHALL BE DEMOLISHED AND NEW REFRIGERANT PIPING PROVIDED. SEE SPECIFICATIONS. SEE DETAILS FOR FURTHER INSTRUCTION.



Columbus
Jackson
Tupelo
800 864 2863
jbhm.com

OCEAN SPRINGS SCHOOL DISTRICT
**OCEAN SPRINGS MIDDLE SCHOOL
2023 HVAC REPLACEMENT**

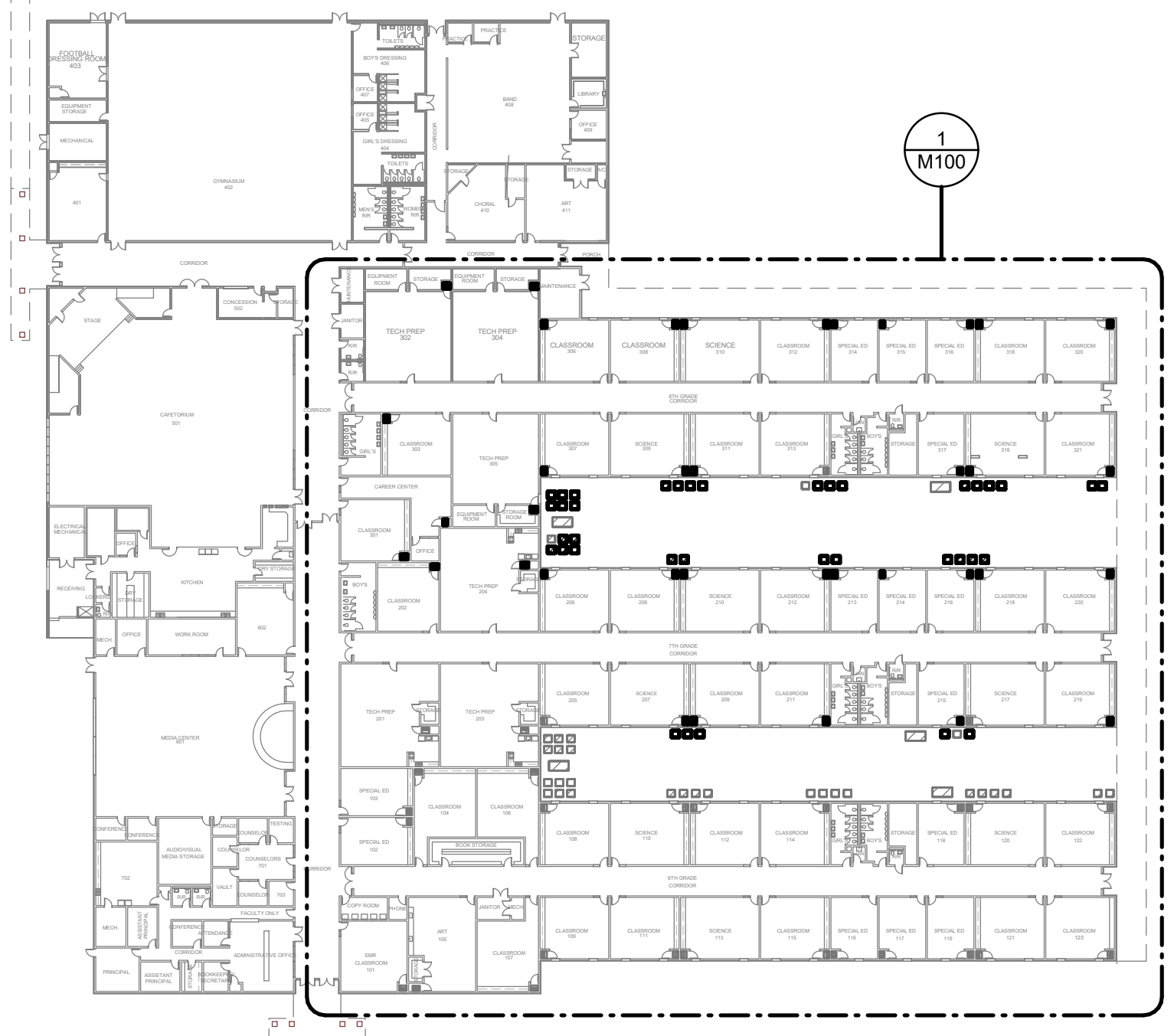
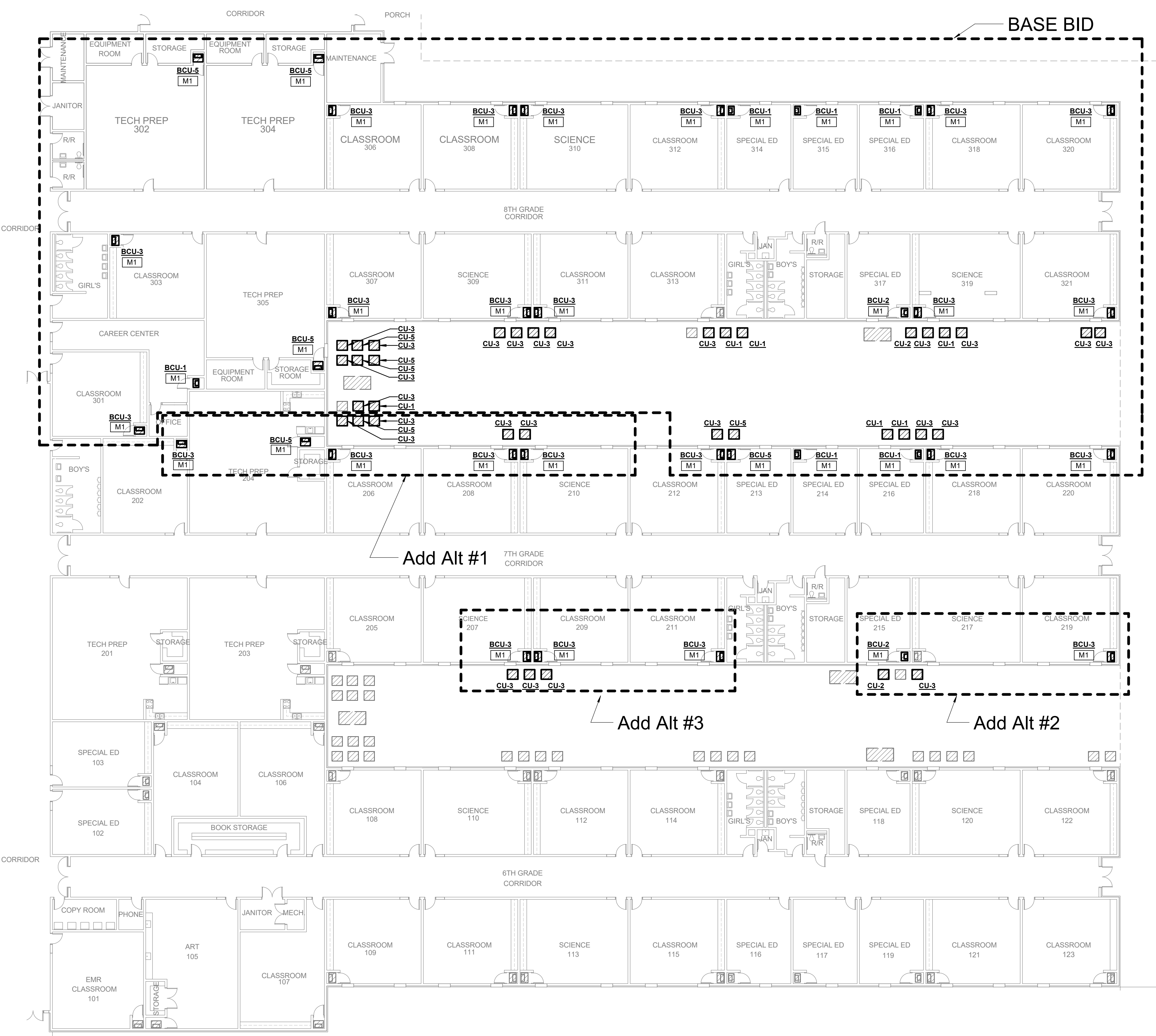
Revisions		
No.	Description	Date

OCEAN SPRINGS SCHOOL DISTRICT
OCEAN SPRINGS MIDDLE SCHOOL 2023 HVAC REPLACEMENT

3600 HANSHAW ROAD
OCEAN SPRINGS, MS 39564

M100
Overall Mechanical Plan

Drawn By	Checked By	Date
JS	KSIJK	07/31/2023
Scale	Project Number	
As Indicated	23034.00	



Overall Mechanical Plan
1" = 60'-0"

Partial Mechanical Plan
1" = 1'-0"



BLOWER COIL UNIT SCHEDULE																						
MARK	SUPPLY FAN DATA			COOLING CAPACITY					HEATING CAPACITY							ELECTRICAL SERVICE		BASIS OF DESIGN	FEATURES/ACCESSORIES [1]			
	TOTAL CFM	O.A. CFM	E.S.P. IN. W.G.	TOTAL MBH	SENS. MBH	E.A.T., °F	L.A.T., °F	CAPY. MBH	E.A.T., °F	L.A.T., °F	E.W.T., °F	L.W.T., °F	G.P.M.	MAX. W.P.D., FT.	CNTL. VALVE CONFIGURATION	CNTL. VALVE MIN. CLOSE OFF	SUPPLY FAN SERVICE			FAN HP		
BCU-1	525	-	0.50	18.6	13.9	76	63	50.7	49.7	14.5	55.0	79.9	160	102.1	0.50	4	3-WAY	25 PSI	120V.,1ph	0.33	MAGICAIRE MODEL DUC06	1, 2, 3, 4, 5
BCU-2	700	-	0.50	24.5	17.9	76	63	50.8	49.9	32.8	55.0	93.0	160	94.5	1.00	4	3-WAY	25 PSI	120V.,1ph	0.5	MAGICAIRE MODEL DUC10	1, 2, 3, 4, 5
BCU-3	1,050	-	0.50	36.4	26.5	76	63	50.9	50.0	36.1	55.0	84.4	160	87.8	1.00	4	3-WAY	25 PSI	120V.,1ph	0.5	MAGICAIRE MODEL DUC12	1, 2, 3, 4, 5
BCU-4	1,400	-	0.50	48.8	35.4	76	63	50.7	49.7	49.3	55.0	86.9	160	94.4	1.50	4	3-WAY	25 PSI	120V.,1ph	0.75	MAGICAIRE MODEL DUC16	1, 2, 3, 4, 5
BCU-5	1,750	-	0.50	60.5	44.1	76	63	50.8	49.9	65.7	55.0	89.1	160	94.4	2.00	4	3-WAY	25 PSI	120V.,1ph	1.00	MAGICAIRE MODEL DUC20	1, 2, 3, 4, 5

[1] FEATURES/ACCESSORIES:
 1. ECM FAN MOTOR (MOTOR MOUNTED SPEED ADJUSTMENT TO MEET AIRFLOW SCHEDULED)
 2. ALL UNITS SHALL BE VERTICAL TOP DISCHARGE WITH BOTTOM RETURN AIR INLET CONFIGURATION.
 3. 4-ROW DX COOLING COIL WITH TXV.
 4. 3-ROW HOT WATER COIL.
 5. 1" FILTER RACK. SEE SPECIFICATIONS FOR FILTER TYPES.

COMPARABLE PRODUCTS:
 TRANE, YORK, McQUAY-CARRIER

CONDENSING UNIT SCHEDULE									
MARK	COOLING CAPACITY			ELECTRICAL			BASIS OF DESIGN	MATCHED TO	
	OUTDOOR D.B., °F	TOTAL MBH	MIN. S.E.E.R.	SERVICE	MCA	MOCP			
CU-1	95	18.0	15.0	208V.,1ph	12.0	20	TRANE MODEL 4TTR6018	BCU-1	
CU-2	95	24.0	16.0	208V.,1ph	13.4	20	TRANE MODEL 4TTR6024	BCU-2	
CU-3	95	36.0	17.0	460V.,3ph	8.0	15	TRANE MODEL 4TTR7036	BCU-3	
CU-4	95	48.0	17.0	460V.,3ph	9.0	15	TRANE MODEL 4TTR7048	BCU-4	
CU-5	95	60.0	17.0	460V.,3ph	10.0	15	TRANE MODEL 4TTR7060	BCU-5	

COMPARABLE PRODUCTS:
 LENNOX, TRANE, CARRIER, YORK

NOTES:
 1. ALL UNITS TO BE PROVIDED WITH HIGH/LOW PRESSURE SWITCHES, HARD SHUTOFF KIT, LIQUID LINE FILTER DRYER AND WARRANTY AS SPECIFIED.
 2. ALL UNITS SHALL BE PROVIDED WITH HEAVY DUTY FACTORY COIL GUARD. SEE MECHANICAL SPECIFICATIONS FOR CLARITY.
 3. REFRIGERANT PIPE SIZE SHALL BE AS PER MANUFACTURER'S RECOMMENDATION TO PROVIDE SCHEDULED MINIMUM COOLING CAPACITY AND MAXIMUM EQUIPMENT LIFE.
 4. PROVIDE LOW AMBIENT CONTROLS/CAPABILITY.
 5. UNIT SHALL BE STARTED UP AND CHECKED OUT BY A FACTORY SERVICE REPRESENTATIVE. PROVIDE COPY OF START-UP REPORT AND MANUFACTURER'S REGISTERED CASE NUMBER IN CLOSE-OUT DOCUMENTATION.
 6. PROVIDE ALL CONDENSER COILS WITH SALT AIR CORROSION PROTECTION COATING. COATING SHALL BE A FLEXIBLE EPOXY POLYMER E-COAT UNIFORMLY APPLIED TO ALL COIL SURFACE AREAS WITH NO MATERIAL BRIDGING BETWEEN FINS. THE COATING PROCESS SHALL ENSURE COMPLETE COIL ENCAPSULATION AND A UNIFORM DRY FILM THICKNESS FROM 0.6 - 1.2 MILS ON ALL SURFACE AREAS INCLUDING FIN EDGES AND MEET 5B RATING CROSS-HATCH ADHESION PER ASTM B3359-83. CORROSION DURABILITY SHALL BE CONFIRMED THROUGH TESTING TO NO LESS THAN 5,000 HOURS SALT SPRAY RESISTANCE PER ASTM B117-90 USING SCRIBED ALUMINUM TEST COUPONS.



Columbus
Jackson
Tupelo
800 864 2863
jbhm.com

OCEAN SPRINGS MIDDLE SCHOOL
2023 HVAC REPLACEMENT

OCEAN SPRINGS SCHOOL DISTRICT

Revisions		
No.	Description	Date

OCEAN SPRINGS SCHOOL DISTRICT
OCEAN SPRINGS MIDDLE SCHOOL 2023 HVAC REPLACEMENT

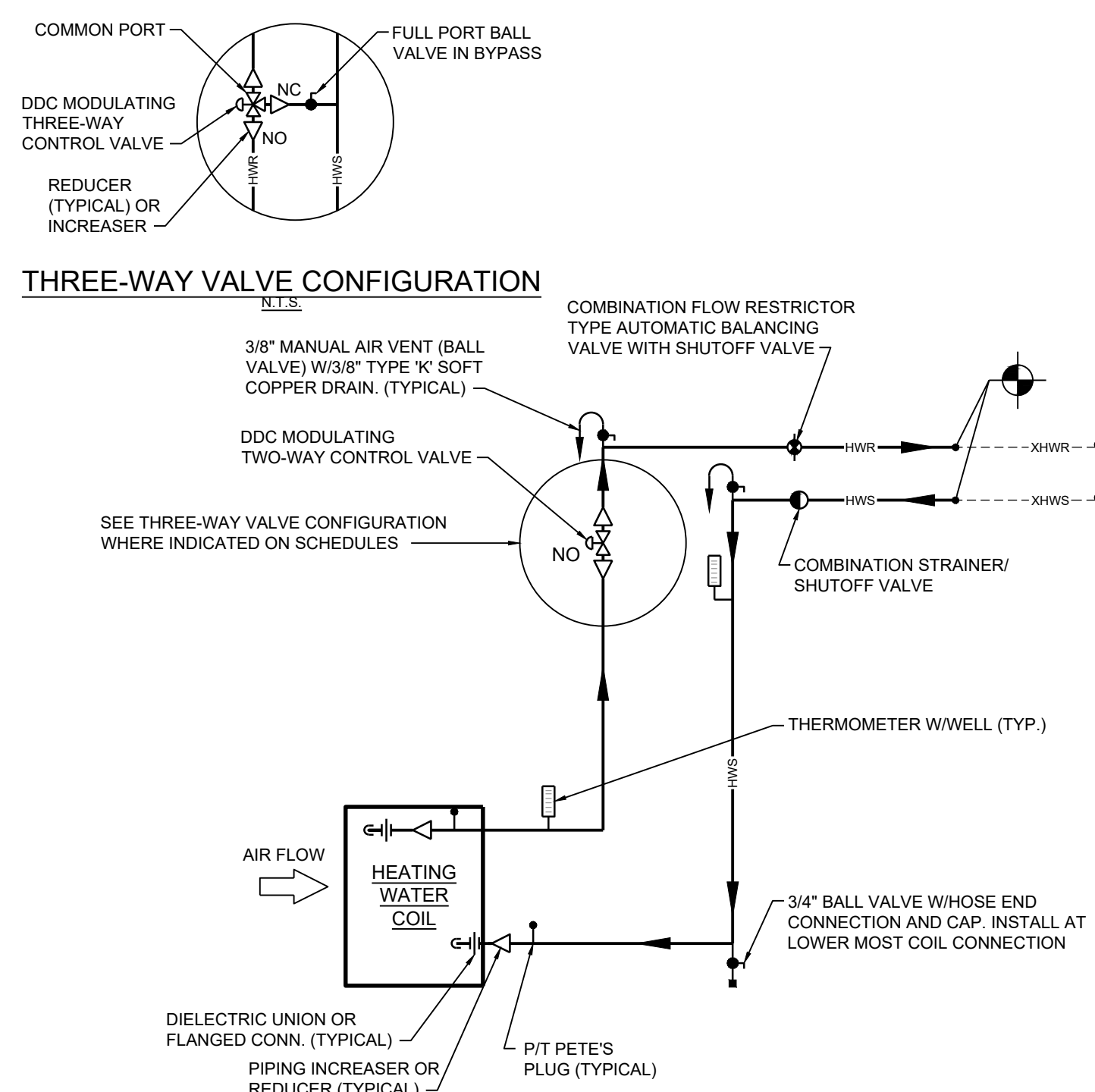


3600 HANSHAW ROAD
OCEAN SPRINGS, MS 39564

M200
HVAC SCHEDULES

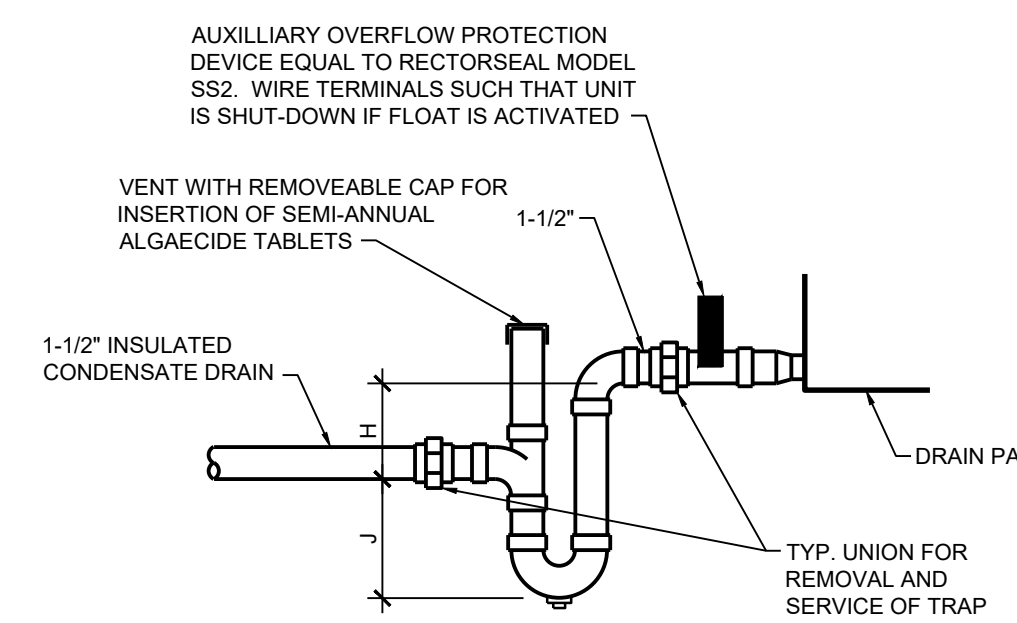
Drawn By JS	Checked By KS/JK	Date 07/31/2023
Scale As Indicated	Project Number 23034.00	



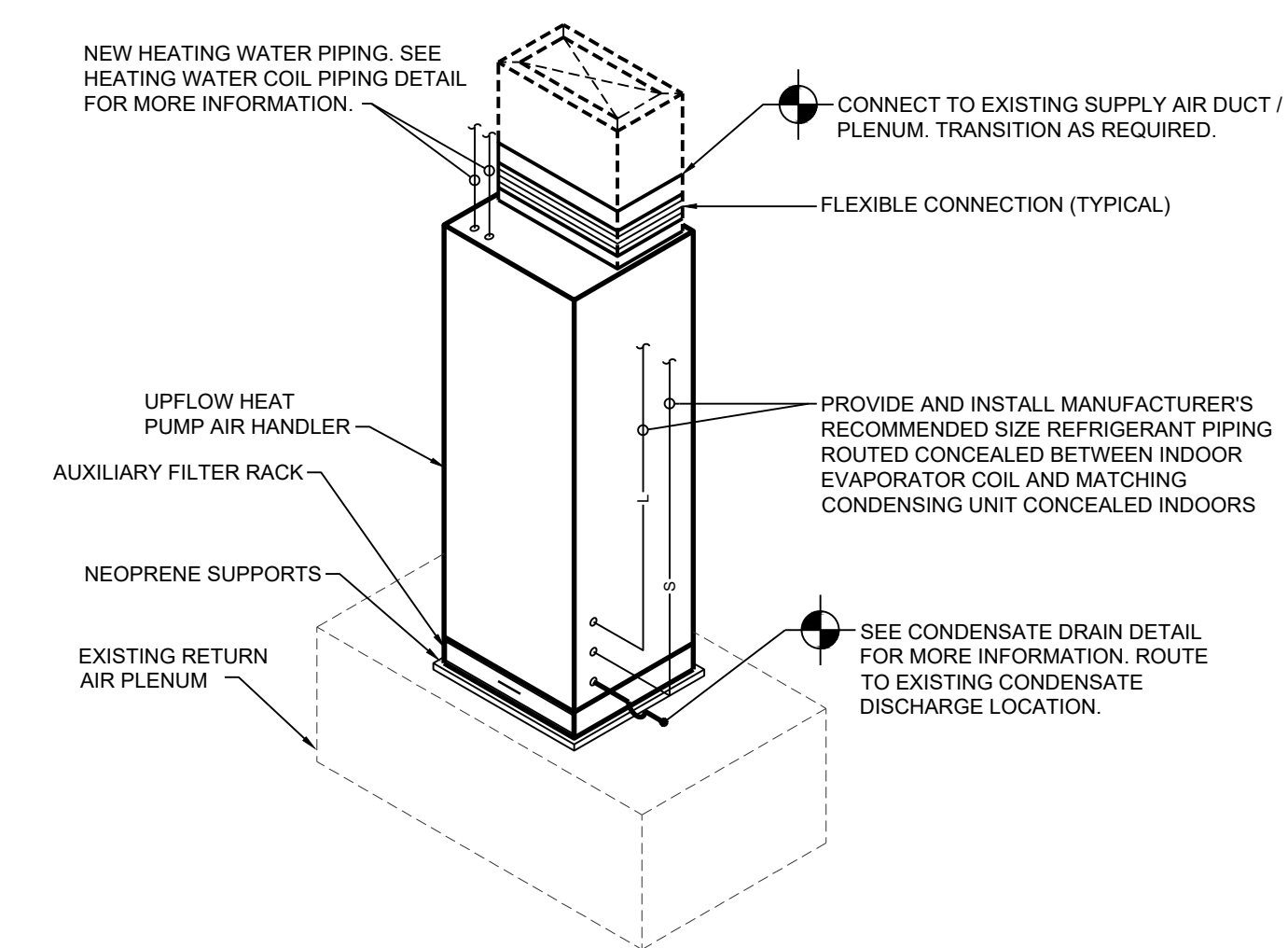


HEATING WATER COIL PIPING DETAIL
N.T.S.

- NOTES:
1. ALL COMBINATION VALVE ASSEMBLIES SHALL INCLUDE HANDLE AND P/T PORT EXTENSIONS, ETC. FOR 1-1/2" INSULATION ON PIPE APPLICATIONS.
 2. COORDINATE WITH CONTROLS SUBCONTRACTOR FOR CONTROL VALVE PROPER SIZING.
 3. ALL PIPING TO BE LINE SIZE AS INDICATED ON DRAWINGS.
 4. PROVIDE MANUAL AIR VENT IN HIGHEST POINT OF PIPING AT EQUIPMENT CONNECTIONS.
 5. COILS WITH MULTIPLE CONNECTIONS SHALL HAVE SEPARATE SHUTOFF VALVES MANUAL BALANCE VALVES, AND P/T PLUGS FOR EACH COIL PIPING CONNECTION UP STREAM OF SHUTOFF VALVE.
 6. TAB AGENCY TO VERIFY THAT TOTAL MAXIMUM FLOW IS PROPER FOR EACH COIL, AND THAT EACH COIL IS BALANCED FOR SAME PRO-RATA OUTPUT (DISCHARGE AIR TEMPERATURE, ETC.) THROUGHOUT RANGE OF COIL FLOWRATE(S).
 7. ALL HEATING WATER PIPING POINT OF CONNECTIONS AND NEW WORK TO OCCUR WITHIN EXTENTS OF EXISTING HVAC CLOSET



**DRAW THRU
CONDENSATE DRAIN PIPING**
N.T.S.



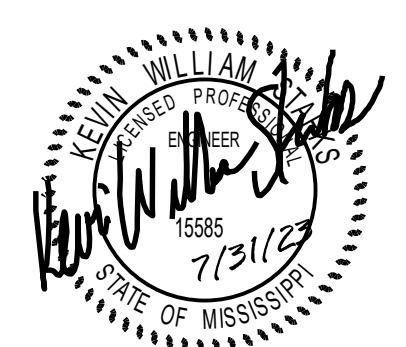
**HEATING WATER AIR HANDLER ON
EXISTING RETURN AIR BUILT-UP PLATFORM DETAIL**
N.T.S.

- NOTES:
1. THERE SHALL BE NO COMBUSTIBLE MATERIALS EXPOSED INSIDE PLENUM SPACE. COVER ALL EXPOSED WOOD FRAMING MEMBERS WITH FIRECODE GYPSUM BOARD OR SHEET METAL.
 2. PROVIDE SHEETMETAL ANGLE CAP TO COVER WOOD EDGES (TYPICAL IN ALL AREAS WHERE WOOD IS EXPOSED INSIDE PLENUM)



Revisions		
No.	Description	Date

OCEAN SPRINGS SCHOOL DISTRICT
OCEAN SPRINGS MIDDLE SCHOOL 2023 HVAC REPLACEMENT



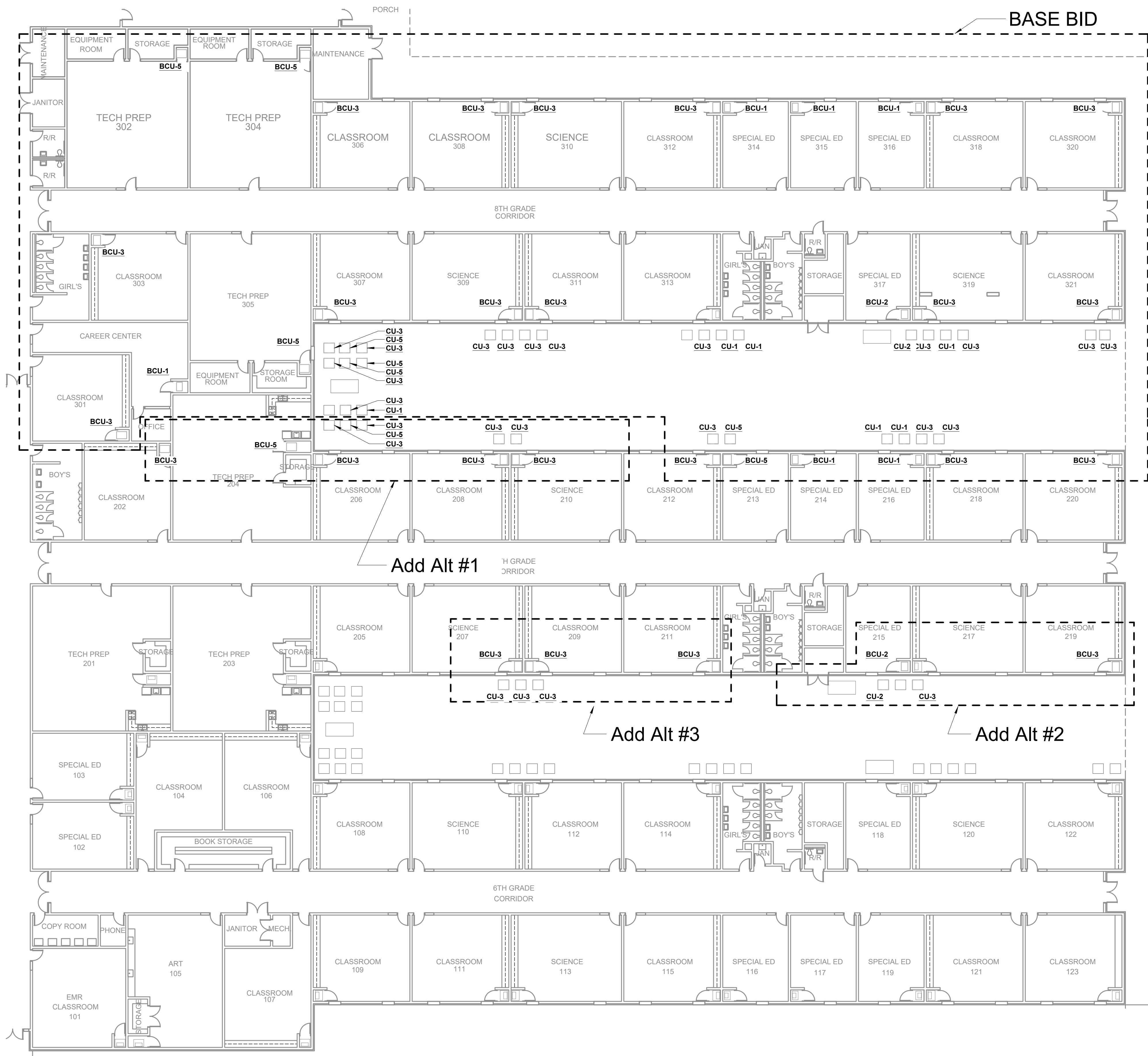
3600 HANSHAW ROAD
OCEAN SPRINGS, MS 39564

M300
HVAC DETAILS

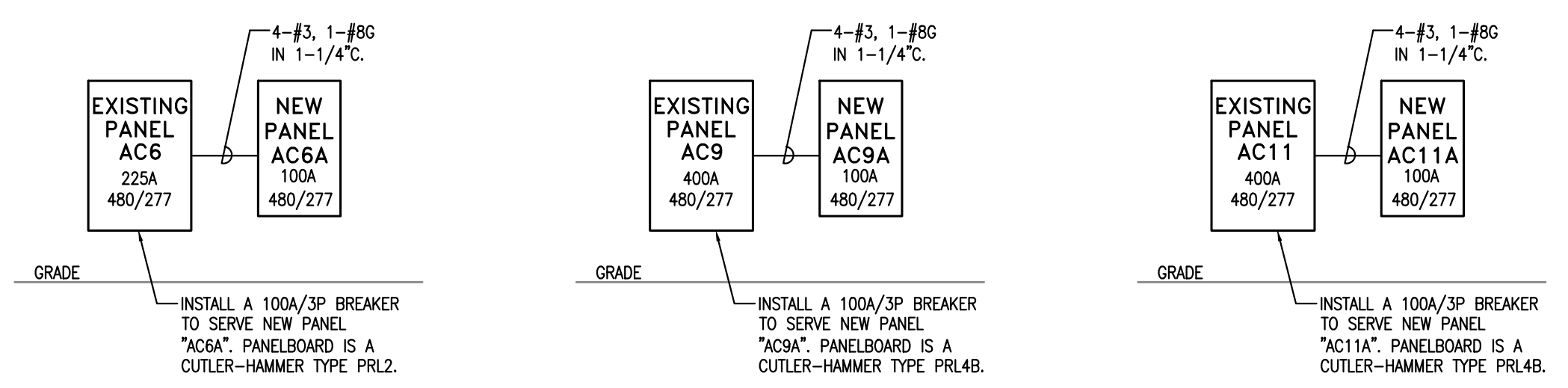
Drawn By JS	Checked By KS/JK	Date 07/31/2023
Scale As Indicated	Project Number 23034.00	

ELECTRICAL LEGEND	
SWITCHES	CONDUIT AND WIRE
MOTOR RATED SWITCH, 20AMP, 120V	FLEXIBLE CONDUIT, SEALTITE AT WET LOCATIONS
SWITCHGEAR	CONDUIT CONCEALED BELOW GRADE
JUNCTION BOX	CIRCUIT CONDUCTORS IN CONDUIT
FUSED SAFETY SWITCH NEMA 3R AT WET LOCATIONS	MULTIPLE CIRCUIT CONDUCTORS IN CONDUIT WITH NEUTRALS
EXISTING PANELBOARD TO REMAIN	GROUND CONDUCTORS IN CONDUIT
NEW LIGHT AND POWER PANELBOARD	CONDUIT UP
SPECIAL ELECTRICAL CONNECTION	CONDUIT DOWN
BLOWER COIL UNIT ELECTRICAL CONNECTION	CIRCUIT HOMERUN TO PANEL BOARD.
CONDENSING UNIT ELECTRICAL CONNECTION	XX-XX DENOTES PANEL NAME AND CIRCUIT NUMBER
	CONTINUATION OF CONDUIT RUN

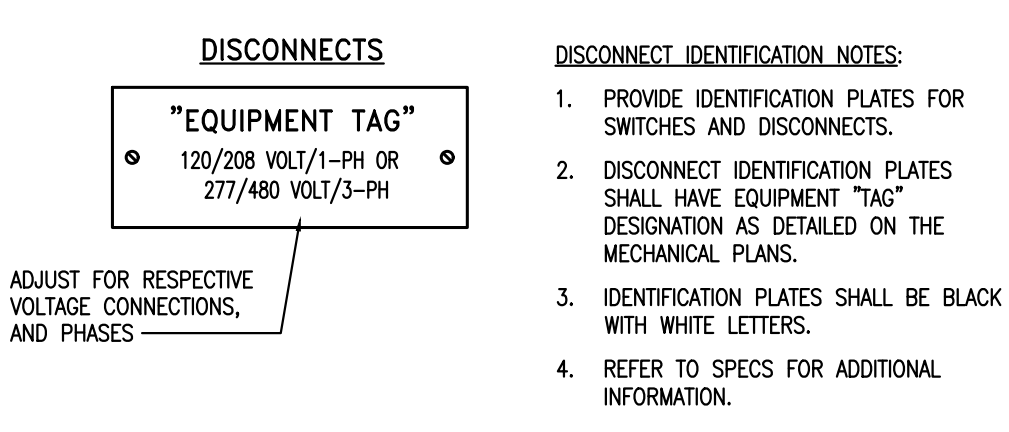
- ELECTRICAL GENERAL NOTES AND SPECS**
- CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING WORK. NO ADDITIONAL SCOPE WILL BE AUTHORIZED DUE TO LACKING OF UNDERSTANDING ON EXISTING CONDITIONS.
 - CONTRACTOR SHALL VERIFY EXISTING ELECTRICAL SYSTEMS AT THE BUILDING/FACILITY. NEW SERVICE ENTRANCES TO BE INSTALLED PER RESPECTIVE UTILITY COMPANY REQUIREMENTS.
 - ALL ELECTRICAL WORK TO CONFORM TO STATE, LOCAL, INTERNATIONAL BUILDING CODE, AND NATIONAL ELECTRICAL CODES.
 - WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND INSTALLED IN A PROFESSIONAL MANNER. ANY WORK THAT IS DETERMINED TO BE SUB-STANDARD BY THE OWNER OR THE ENGINEER SHALL BE REDONE AT THE CONTRACTOR'S EXPENSE.
 - ELECTRICAL DRAWINGS SHOW GENERAL WORK TO BE PERFORMED. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL ELECTRICAL SYSTEMS TO PROVIDE A COMPLETE PACKAGE AS INDICATED BY THE CONTRACT DOCUMENTS. THE DOCUMENTS ARE INTENDED TO PROVIDE AN OUTLINE FOR THE REQUIRED INSTALLATIONS. THE CONTRACTOR SHALL ULTIMATELY PROVIDE A COMPLETE AND OPERATIONAL SYSTEM AT THE CONCLUSION OF THE PROJECT.
 - DETAILS ARE PROVIDED AS THEY RELATE TO THE INSTALLATION. CONTRACTOR SHALL PROVIDE AND INSTALL ALL MISCELLANEOUS COMPONENTS, PARTS, MATERIALS, FASTENERS, SPLICES, AND ANY OTHER INCIDENTAL ITEMS NECESSARY TO PROVIDE A COMPLETE INSTALLATION.
 - FOR PURPOSES OF CLARITY AND LEGIBILITY, DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND THE SIZE AND LOCATION OF EQUIPMENT IS INDICATED TO SCALE WHENEVER POSSIBLE. VERIFY CONDITIONS, DIMENSIONS, INDICATED EQUIPMENT SIZES, AND MANUFACTURER'S DATA AND INFORMATION AS NECESSARY TO INSTALL THE WORK OF THIS DIVISION.
 - CONTRACTOR SHALL PROVIDE AND PAY FOR ALL PERMITTING AND INSPECTIONS REQUIRED BY THE LOCAL AUTHORITY.
 - PROVIDE 1 YEAR WARRANTY, RECORD DRAWINGS, AND OPERATION/MAINTENANCE MANUALS ON ALL ELECTRICAL EQUIPMENT. DURING THE WARRANTY PERIOD, THE CONTRACTOR SHALL REPLACE OR REPAIR ANY DEFECTIVE COMPONENTS RELATED TO THEIR WORK AT NO COSTS TO THE OWNER OR ENGINEER.
 - ALL SWITCHES, DEVICES, SHALL BE SPECIFICATION/COMMERCIAL GRADE, UL LISTED, WITH NEMA CONFIGURATION AS NOTED IN SCHEDULE OR AS REQUIRED FOR EQUIPMENT CONNECTION.
 - ALL INTERIOR CONDUITS CONCEALED IN WALLS, ABOVE CEILINGS, OR IN EXPOSED STRUCTURE SHALL BE EMT WITH COMPRESSION STEEL FITTINGS FOR CONDUITS SMALLER THAN 2", CONDUITS 2" AND ABOVE SHALL HAVE STEEL SET-SCREW FITTINGS. METAL-CLAD (MC) CABLE IS NOT ALLOWED.
 - ALL EXTERIOR CONDUITS SHALL BE GALVANIZED CONDUITS BELOW GRADE MAY BE PVC.
 - ALL CONDUITS SHALL BE INSTALLED PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE. DO NOT INSTALL CONDUITS AT "ANGLED" / "STRAIGHT-RUNS" BETWEEN BOXES.
 - ALL WIRING SHALL BE COPPER.
 - ALL WIRING SHALL BE #12 AWG MINIMUM, THIN/W/THIN, UNLESS NOTED OTHERWISE.
 - GROUNDING SHALL BE INSTALLED PER N.E.C. SECTION 250.
 - ALL ELECTRICAL DISCONNECTS SHALL BE HEAVY DUTY AND RATED FOR VOLTAGE AND AMPACITY OF EQUIPMENT BEING SERVED, UNLESS NOTED OTHERWISE. PROVIDE FUSES BASED ON EQUIPMENT RATINGS WHERE NOTED.
 - PROVIDE IDENTIFICATION PLATES OF PLASTIC STOCK TO ADEQUATELY DESCRIBE FUNCTION, VOLTAGE, AND PHASE OF IDENTIFIED EQUIPMENT. FOR LIGHTING AND POWER PANELS, IDENTIFICATION PLATES SHALL INDICATE PANEL DESIGNATION, VOLTAGE, AND PHASE OF PANEL. AT SWITCHES, STARTERS, CABINETS, EQUIPMENT, PLATES SHALL INDICATE EQUIPMENT DESIGNATION. SEE DETAIL.
 - VERIFY ALL DIMENSIONS AND CLEARANCES WITH ENGINEER, CONTRACTORS, AND OWNER.
 - SEAL ALL WALL PENETRATIONS WITH AN APPROVED CAULK COMPOUND EQUAL TO 3M FIRE BARRIER CAULK.
 - WHERE APPLICABLE, COORDINATE LOCATION AND SIZE OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
 - COORDINATE PHASING OF WORK WITH MECHANICAL DRAWINGS AND OTHER TRADES / DISCIPLINES FOR ELECTRICAL INSTALLATIONS.
 - NOTIFY THE ENGINEER IMMEDIATELY OF ANY PLAN DISCREPANCIES PRIOR TO PROCEEDING WITH ROUGH-IN OR TRIM OUT.



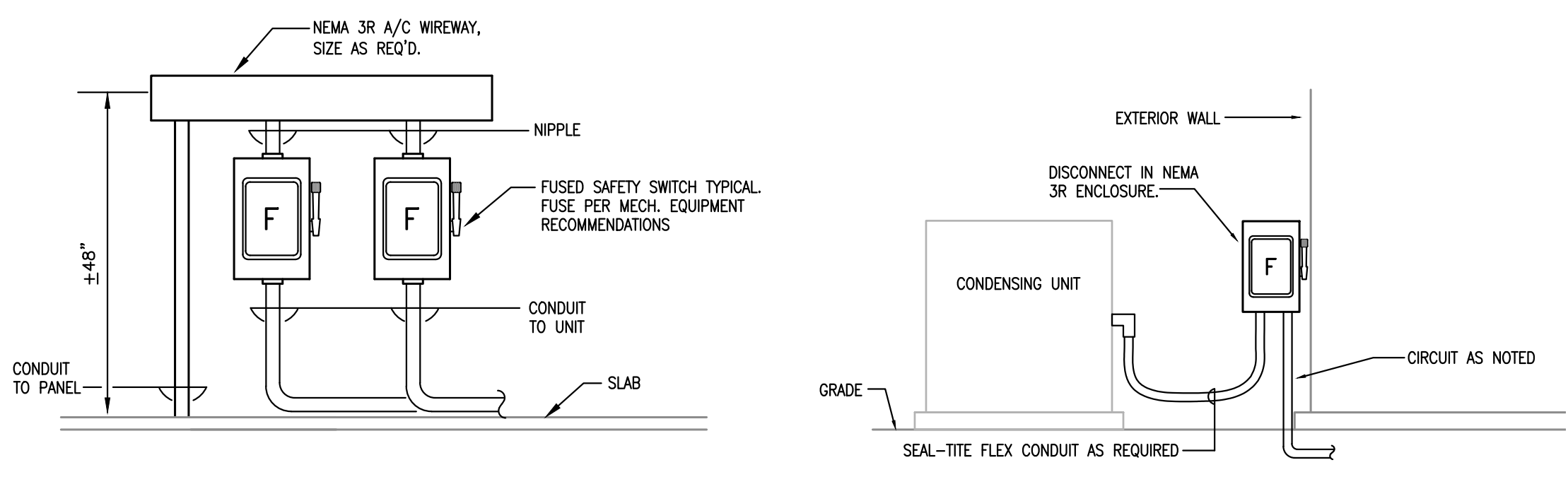
1 OVERALL ELECTRICAL REFERENCE PLAN
1/16" = 1'-0"



2 POWER RISER DIAGRAMS
1/16" = 1'-0"



3 ELECT. EQUIP. TAGS
1/16" = 1'-0"



4 HVAC UNITS INSTALLATION DETAIL
1/16" = 1'-0"

JBHM
Architecture

Columbus
Jackson
Tupelo

800 864 2863
jbhm.com

OCEAN SPRINGS SCHOOL DISTRICT

**OCEAN SPRINGS MIDDLE SCHOOL
2023 HVAC REPLACEMENT**

Revisions

No.	Description	Date

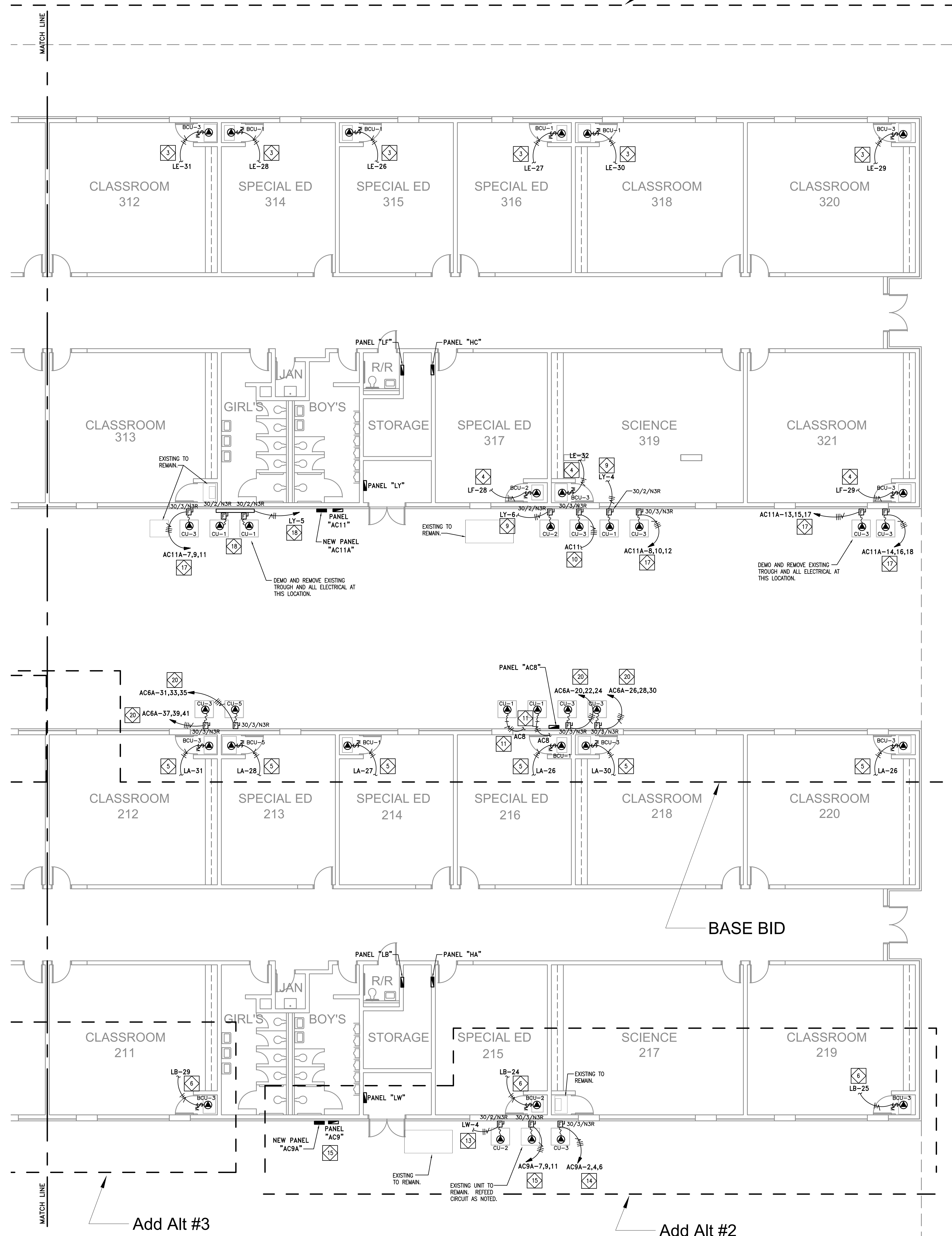
OCEAN SPRINGS SCHOOL DISTRICT
OCEAN SPRINGS MIDDLE
SCHOOL 2023 HVAC
REPLACEMENT

3600 HANSHAW ROAD
OCEAN SPRINGS, MS

E000
ELECTRICAL LEGEND, OVERALL
ELECTRICAL PLAN

Drawn By: WH
Checked By: GPW
Date: 07/31/2023
Scale: As indicated
Project Number: 23034.00

WELCON
ELECTRICAL CONSULTANTS, P.L.L.C.
1411 G. CLAYTON BLVD., SUITE #111
GULFPORT, MISSISSIPPI 39555
228.832.6000
MFC PROJECT # 23-034.00



- ELECTRICAL DEMOLITION NOTES:**
1. EVERY ATTEMPT HAS BEEN MADE TO REPRESENT EXISTING ELECTRICAL CONDITIONS.
 2. CONTRACTOR SHALL REMOVE AND DISCARD ELECTRICAL EQUIPMENT AS NOTED, INCLUDING BUT NOT LIMITED TO DEVICES, SWITCHES, CONDUIT, WIRING, EQUIPMENT, AND LOW VOLTAGE SYSTEMS THAT ARE RELATED TO MECHANICAL SYSTEMS AND NOT BEING REUSED BY THE OWNER.
 3. CIRCUITS FOR INDOOR UNITS ARE ALL EXISTING TO REMAIN. PANEL AND CIRCUIT DESIGNATIONS NOTED ON DRAWINGS ARE TAKEN FROM AS-BUILT DOCUMENTS. CONTRACTOR SHALL VERIFY ALL CIRCUITS.
 4. CIRCUITS FOR OUTDOOR UNITS ARE NOTED AS EXISTING TO REMAIN WHERE EXISTING CIRCUITS ARE COMPATIBLE. AT OTHER OUTDOOR UNITS, CIRCUITS ARE BEING UPGRADED COMPLETELY AND ROUTED TO NEW OR EXISTING PANELS AS NOTED. EXISTING PANEL AND CIRCUIT DESIGNATIONS NOTED ON DRAWINGS ARE TAKEN FROM AS-BUILT DOCUMENTS. CONTRACTOR SHALL VERIFY ALL CIRCUITS.
 5. ALL NEW CIRCUITS FOR CONDENSING UNITS SHALL HAVE HOMERUN CONDUITS ROUTED BELOW GRADE. REFER TO SPECIFIC NOTES FOR NEW CIRCUIT DESIGNATIONS.
 6. EXISTING FLUSH MOUNTED BOXES NOT BEING REUSED SHALL BE COVERED WITH FINISHED, FLUSH, STAINLESS STEEL COVER PLATES.
 7. ALL SALVAGEABLE ITEMS SHOWN FOR DEMOLITION SHALL BE TURNED OVER TO THE OWNER. OTHER ELECTRICAL COMPONENTS SHALL BE REMOVED AND DISCARDED BY THE CONTRACTOR.

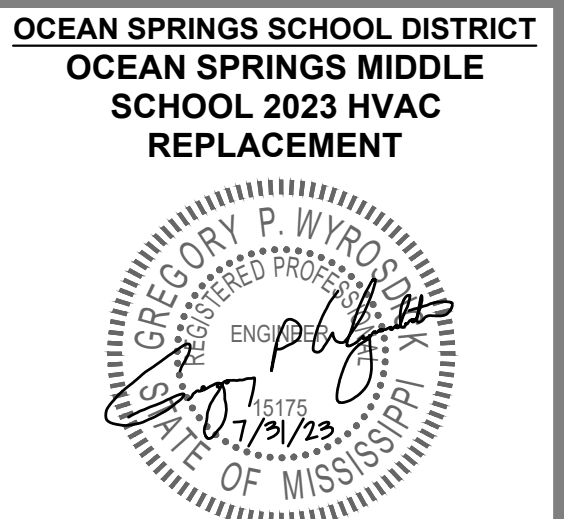
- GENERAL ELECTRICAL NOTES:**
1. ALL CONDUITS, WIRING, DISCONNECTS, BREAKERS, DEVICES, AND ELECTRICAL APPARATUS AT EQUIPMENT SHALL BE INSTALLED NEW, UNLESS SPECIFICALLY NOTED OTHERWISE.
 2. LABEL ALL DISCONNECTS WITH MECH UNIT DESIGNATION, PANEL AND CIRCUIT #, VOLTAGE, AND PHASE WHICH UNIT IS CONNECTED. SEE DETAILS.
 3. REFER TO DETAILS FOR INSTALLATION OF ELECTRICAL EQUIPMENT AND COMPONENTS AT LOCATION OF MECHANICAL EQUIPMENT.

- SPECIFIC ELECTRICAL NOTES:**
1. DISCONNECT EXISTING ELECTRICAL AND REMOVE EXISTING SWITCH AND FLEX CONNECTION TO A/C UNIT. INSTALL NEW MOTOR RATED SWITCH AND DISCONNECT WITH 2-#12, 1-#12G IN 1/2" FLEX CONDUIT. A/C UNIT FED FROM EXISTING PANEL "LX". EXISTING 20A/1P BREAKER SHALL REMAIN.
 2. DISCONNECT EXISTING ELECTRICAL AND REMOVE EXISTING SWITCH AND FLEX CONNECTION TO A/C UNIT. INSTALL NEW MOTOR RATED SWITCH AND DISCONNECT WITH 2-#12, 1-#12G IN 1/2" FLEX CONDUIT. A/C UNIT FED FROM EXISTING PANEL "LM". EXISTING 20A/1P BREAKER SHALL REMAIN.
 3. DISCONNECT EXISTING ELECTRICAL AND REMOVE EXISTING SWITCH AND FLEX CONNECTION TO A/C UNIT. INSTALL NEW MOTOR RATED SWITCH AND DISCONNECT WITH 2-#12, 1-#12G IN 1/2" FLEX CONDUIT. A/C UNIT FED FROM EXISTING PANEL "LE". EXISTING 20A/1P BREAKER SHALL REMAIN.
 4. DISCONNECT EXISTING ELECTRICAL AND REMOVE EXISTING SWITCH AND FLEX CONNECTION TO A/C UNIT. INSTALL NEW MOTOR RATED SWITCH AND DISCONNECT WITH 2-#12, 1-#12G IN 1/2" FLEX CONDUIT. A/C UNIT FED FROM EXISTING PANEL "LF". EXISTING 20A/1P BREAKER SHALL REMAIN.
 5. DISCONNECT EXISTING ELECTRICAL AND REMOVE EXISTING SWITCH AND FLEX CONNECTION TO A/C UNIT. INSTALL NEW MOTOR RATED SWITCH AND DISCONNECT WITH 2-#12, 1-#12G IN 1/2" FLEX CONDUIT. A/C UNIT FED FROM EXISTING PANEL "LA". EXISTING 20A/1P BREAKER SHALL REMAIN.
 6. DISCONNECT EXISTING ELECTRICAL AND REMOVE EXISTING SWITCH AND FLEX CONNECTION TO A/C UNIT. INSTALL NEW MOTOR RATED SWITCH AND DISCONNECT WITH 2-#12, 1-#12G IN 1/2" FLEX CONDUIT. A/C UNIT FED FROM EXISTING PANEL "LB". EXISTING 20A/1P BREAKER SHALL REMAIN.
 7. DISCONNECT EXISTING ELECTRICAL AND REMOVE EXISTING FLEX CONNECTION TO CONDENSING UNIT. INSTALL NEW FLEX CONNECTION AT UNIT AND RECONNECT WITH 2-#12, 1-#12G. CONDENSING UNIT FED FROM EXISTING PANEL "AC6". EXISTING BREAKER SHALL REMAIN.
 8. DISCONNECT EXISTING ELECTRICAL AND REMOVE EXISTING FLEX CONNECTION TO CONDENSING UNIT. INSTALL NEW FLEX CONNECTION AT UNIT AND RECONNECT WITH 2-#12, 1-#12G. CONDENSING UNIT FED FROM EXISTING PANEL "AC7". EXISTING BREAKER SHALL REMAIN.
 9. DISCONNECT EXISTING ELECTRICAL AND REMOVE EXISTING DISCONNECT AND FLEX CONNECTION TO CONDENSING UNIT. INSTALL NEW DISCONNECT AND FLEX CONNECTION AT UNIT AND RECONNECT WITH 2-#12, 1-#12G. CONDENSING UNIT FED FROM EXISTING PANEL "LY". EXISTING BREAKER SHALL REMAIN.
 10. DISCONNECT EXISTING ELECTRICAL AND REMOVE EXISTING DISCONNECT AND FLEX CONNECTION TO CONDENSING UNIT. INSTALL NEW DISCONNECT AND FLEX CONNECTION AT UNIT AND RECONNECT WITH 3-#12, 1-#12G. CONDENSING UNIT FED FROM EXISTING PANEL "AC11". EXISTING BREAKER SHALL REMAIN.
 11. DISCONNECT EXISTING ELECTRICAL AND REMOVE EXISTING DISCONNECT AND FLEX CONNECTION TO CONDENSING UNIT. INSTALL NEW DISCONNECT AND FLEX CONNECTION AT UNIT AND RECONNECT WITH 2-#12, 1-#12G. CONDENSING UNIT FED FROM EXISTING PANEL "AC8". EXISTING BREAKER SHALL REMAIN.
 12. DISCONNECT EXISTING ELECTRICAL AND REMOVE EXISTING DISCONNECT AND FLEX CONNECTION TO CONDENSING UNIT. INSTALL NEW DISCONNECT AND FLEX CONNECTION AT UNIT AND RECONNECT WITH 3-#12, 1-#12G. CONDENSING UNIT FED FROM EXISTING PANEL "AC9". EXISTING BREAKER SHALL REMAIN.
 13. DISCONNECT EXISTING ELECTRICAL AND REMOVE EXISTING DISCONNECT AND FLEX CONNECTION TO CONDENSING UNIT. INSTALL NEW DISCONNECT AND FLEX CONNECTION AT UNIT AND RECONNECT WITH 2-#12, 1-#12G. CONDENSING UNIT FED FROM EXISTING PANEL "LW". EXISTING BREAKER SHALL REMAIN.
 14. EXISTING UNIT IS 208 VOLTS. DISCONNECT AND REMOVE ALL ELECTRICAL ASSOCIATED WITH EXISTING UNIT BACK TO PANEL "LW". LABEL EXISTING BREAKER AS SPARE. INSTALL NEW CIRCUIT TO PANEL "AC9A" AS NOTED.
 15. REMOVE 15A/3-POLE BREAKER THAT FEEDS ROOM 217 COND. UNIT AND INSTALL A NEW 100A/3-POLE BREAKER IN ITS PLACE TO FEED NEW PANEL "AC9A". CIRCUIT AC9A-7,9,11.
 16. EXISTING UNIT IS 208 VOLTS. DISCONNECT AND REMOVE ALL ELECTRICAL ASSOCIATED WITH EXISTING UNIT BACK TO PANEL "AC7". LABEL EXISTING BREAKER AS SPARE. INSTALL NEW CIRCUIT TO PANEL "AC9A" AS NOTED.
 17. EXISTING UNIT IS 208 VOLTS. DISCONNECT AND REMOVE ALL ELECTRICAL ASSOCIATED WITH EXISTING UNIT BACK TO PANEL "LY". LABEL EXISTING BREAKER AS SPARE. INSTALL NEW CIRCUIT TO PANEL "AC11A" AS NOTED.
 18. EXISTING UNITS ARE 208 VOLT. DISCONNECT AND REMOVE TROUGH AND ALL ELECTRICAL ASSOCIATED WITH UNITS. SALVAGE EXISTING HOMERUN CIRCUIT FROM PANEL "LY". INSTALL NEW TROUGH, NEW DISCONNECTS, ETC. SPLICE AND TAP CIRCUIT FOR CONNECTION TO DISCONNECTS. INSTALL NEW DISCONNECTS, 2-#12, 1-#12G IN 1/2" FLEX FOR EACH UNIT.
 19. EXISTING UNIT IS NOTED TO BE FED FROM PANEL "HA". DISCONNECT AND REMOVE ALL ELECTRICAL ASSOCIATED WITH EXISTING UNIT BACK TO PANEL "HA". LABEL BREAKER AS "SPARE". INSTALL NEW CIRCUIT TO "AC9A" AS NOTED.
 20. EXISTING UNIT IS 208 VOLTS. DISCONNECT AND REMOVE ALL ELECTRICAL ASSOCIATED WITH EXISTING UNIT BACK TO PANEL "AC6". LABEL EXISTING BREAKER AS SPARE. INSTALL NEW CIRCUIT TO PANEL "AC9A" AS NOTED.

OCEAN SPRINGS SCHOOL DISTRICT

OCEAN SPRINGS MIDDLE SCHOOL
2023 HVAC REPLACEMENT

Revisions		
No.	Description	Date



3600 HANSHAW ROAD
OCEAN SPRINGS, MS

E102
PARTIAL ELECTRICAL
PLAN - EAST

Drawn By: WH
Checked By: GPW
Date: 07/31/2023

Scale: As indicated
Project Number: 23034.00

KEY PLAN



1 PARTIAL ELECTRICAL PLAN - EAST
1/8" = 1'-0"



Columbus
Tupelo
800 864 2863
jbhm.com



OCEAN SPRINGS SCHOOL DISTRICT
**OCEAN SPRINGS MIDDLE SCHOOL
2023 HVAC REPLACEMENT**

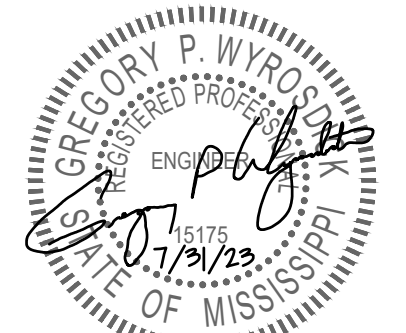
NEW PANEL		BUSS: 100 AMP	VOLT: 480/277V, 3-PHASE, 4 WIRE						AIC RATING: 10,000				
AC6A		MAINS: 100 MLO	MOUNT: SURFACE, NEMA						LOCATION: BUILDING EXTERIOR				
CKT.	BKR.	DESCRIPTION	FEEDER	LOAD (AMPS)			LOAD (AMPS)			FEEDER	DESCRIPTION	BKR.	CKT.
				A	B	C	A	B	C				
1				6.5				6.5				2	
3	15/3	COND UNIT CU-3	3-12, 1-12G		6.5				6.5		15/3	4	
5						6.5				6.5		6	
7				6.5				6.5				8	
9	15/3	COND UNIT CU-3	3-12, 1-12G		6.5				6.5		15/3	10	
11						6.5				6.5		12	
13				6.5				6.5				14	
15	15/3	COND UNIT CU-3	3-12, 1-12G		6.5				6.5		15/3	16	
17						6.5				6.5		18	
19				6.5				6.5				20	
21	15/3	COND UNIT CU-3	3-12, 1-12G		6.5				6.5		15/3	22	
23						6.5				6.5		24	
25				6.5				6.5				26	
27	15/3	COND UNIT CU-3	3-12, 1-12G		6.5				6.5		15/3	28	
29						6.5				6.5		30	
31				8								32	
33	15/3	COND UNIT CU-5	3-12, 1-12G		8						15/3	34	
35						8						36	
37				6.5				6.5				38	
39	15/3	COND UNIT CU-3	3-12, 1-12G		6.5				6.5		15/3	40	
41						6.5				6.5		42	
				47.0	47.0	47.0		32.5	32.5	32.5			
CONNECTED LOADS PER PHASE											A phase	79.5	amps
CONNECTED LOADS PER PHASE											B phase	79.5	amps
CONNECTED LOADS PER PHASE											C phase	79.5	amps

NEW PANEL		BUSS: 100 AMP	VOLT: 480/277V, 3-PHASE, 4 WIRE						AIC RATING: 10,000				
AC9A		MAINS: 100 MLO	MOUNT: SURFACE, NEMA						LOCATION: BUILDING EXTERIOR				
CKT.	BKR.	DESCRIPTION	FEEDER	LOAD (AMPS)			LOAD (AMPS)			FEEDER	DESCRIPTION	BKR.	CKT.
				A	B	C	A	B	C				
1				6.5				6.5				2	
3	15/3	COND UNIT CU-3	3-12, 1-12G		6.5				6.5		15/3	4	
5						6.5				6.5		6	
7				8								8	
9	20/3	ROOM 217 CU (EXISTING)	3-12, 1-12G		8						15/3	10	
11						8						12	
13												14	
15											15/3	16	
17												18	
19												20	
21												22	
23												24	
25												26	
27												28	
29												30	
				14.5	14.5	14.5		6.5	6.5	6.5			
CONNECTED LOADS PER PHASE											A phase	21.0	amps
CONNECTED LOADS PER PHASE											B phase	21.0	amps
CONNECTED LOADS PER PHASE											C phase	21.0	amps

NEW PANEL		BUSS: 100 AMP	VOLT: 480/277V, 3-PHASE, 4 WIRE						AIC RATING: 10,000				
AC11A		MAINS: 100 MLO	MOUNT: SURFACE, NEMA						LOCATION: BUILDING EXTERIOR				
CKT.	BKR.	DESCRIPTION	FEEDER	LOAD (AMPS)			LOAD (AMPS)			FEEDER	DESCRIPTION	BKR.	CKT.
				A	B	C	A	B	C				
1				6.5				6.5				2	
3	15/3	COND UNIT CU-3	3-12, 1-12G		6.5				6.5		15/3	4	
5						6.5				6.5		6	
7				6.5				6.5				8	
9	15/3	COND UNIT CU-3	3-12, 1-12G		6.5				6.5		15/3	10	
11						6.5				6.5		12	
13				6.5				6.5				14	
15	15/3	COND UNIT CU-3	3-12, 1-12G		6.5				6.5		15/3	16	
17						6.5				6.5		18	
19												20	
21	15/3	SPARE										22	
23												24	
25												26	
27	15/3	SPARE										28	
29												30	
				19.5	19.5	19.5		19.5	19.5	19.5			
CONNECTED LOADS PER PHASE											A phase	39.0	amps
CONNECTED LOADS PER PHASE											B phase	39.0	amps
CONNECTED LOADS PER PHASE											C phase	39.0	amps

Revisions		
No.	Description	Date

OCEAN SPRINGS SCHOOL DISTRICT
OCEAN SPRINGS MIDDLE
SCHOOL 2023 HVAC
REPLACEMENT



3600 HANSHAW ROAD
OCEAN SPRINGS, MS

E103
PANELBOARD
SCHEDULES

Drawn By	Checked By	Date
WH	GPW	07/31/2023

Scale	Project Number
As Indicated	23034.00

