# SANTA ROSA COUNTY SCHOOL DISTRICT ORIOLE BEACH ELEMENTARY SCHOOL -KITCHEN RENOVATION



16 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606

#### **PROJECT ISSUES:**

PHASE 1: 01 MAR 2022 PHASE 2: 30 MAR 2022 7 JUNE 2022 PHASE 3:

PROJECT TEAM: <u>ARCHITECTURAL</u> Caldwell Associates **STRUCTURAL** McCarthy Engineering **MECHANICAL** Anton Lee Engineering **ELECTRICAL** HG Engineers

## PROJECT: **ORIOLE BEACH**

**ELEMENTARY - KITCHEN RENOVATION** 



## 1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA**

PROJECT NO. : SHEET TITLE: 21065

**COVER SHEET** 

SHEET NUMBER:

PHASE 3

PROJECT LOCATION

LOCATION MAP

NOT TO SCALE

**VICINITY MAP** G001

NOT TO SCALE

© CALDWELL ASSOCIATES ARCHITECTS, INC. 3

DO NOT SCALE DRAWINGS

INDEX OF DRAWINGS SHEET NO. GENERAL G001 COVER SHEET G002 | INDEX OF DRAWINGS G003 PROJECT INFORMATION G004 CODE ANALYSIS G101 | LIFE SAFETY PLAN & CODE ANALYSIS DEMOLITION D101 DEMOLITION FLOOR PLAN D102 DEMOLITION REFLECTED CEILING PLAN ARCHITECTURAL A101 NEW WORK FLOOR PLAN A102 NEW WORK REFLECTED CEILING PLAN A401 ENLARGED PLANS A501 WALL TYPES A601 DOOR SCHEDULE EQUIPMENT Q101 KITCHEN EQUIPMENT PLAN PLUMBING P001 PLUMBING LEGEND AND NOTES P002 PLUMBING SCHEDULE AND DETAILS P101 PLUMBING OVERALL PLAN P201 PLUMBING PLAN TEMPORARY SERVING LINE P202 PLUMBING DEMOLITION PLAN P301 PLUMBING PLAN P302 PLUMBING PLAN P501 PLUMBING DETAILS P502 PLUMBING DETAILS MECHANICAL M001 | MECHANICAL LEGEND AND ABBREVIATIONS M002 MECHANICAL NOTES M003 MECHANICAL SCHEDULES M004 MECHANICAL SCHEDULES M005 | MECHANICAL SCHEDULES M101 MECHANICAL DEMOLITION PLAN M102 MECHANICAL PLAN MECHANICAL DEMOLITION PLAN M301 | MECHANICAL PLAN M302 MECHANICAL ROOF PLAN MECHANICAL DETAILS M502 | MECHANICAL DETAILS M503 | MECHANICAL DETAILS MECHANICAL CONTROLS M602 MECHANICAL CONTROLS ELECTRICAL E001 | ELECTRICAL LEGEND AND NOTES E101 OVERALL PLAN - REFERENCE KITCHEN PLAN - ELECTRICAL DEMOLITION E202 KITCHEN PLAN - LIGHTING DEMOLITION KITCHEN PLAN - ELECTRICAL NEW WORK KITCHEN PLAN - TEMPORARY SERVICE KITCHEN PLAN - LIGHTING NEW WORK ELECTRICAL DETAILS E502 LIGHTING CONTROL DETAILS POWER RISER DIAGRAM ELECTRICAL PANEL SCHEDULES E702 EQUIPMENT SCHEDULES © CALDWELL ASSOCIATES ARCHITECTS, INC. 3



116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017

#### PROJECT ISSUES:

ISSUE DATE

07 JUN 2022

07 JUN 2022 07 JUN 2022

07 JUN 2022

07 JUN 2022

07 JUN 2022

07 JUN 2022

07 JUN 2022

07 JUN 2022

07 JUN 2022

07 JUN 2022

07 JUN 2022

07 JUN 2022

07 JUN 2022

07 JUN 2022

07 JUN 2022

07 JUN 2022

07 JUN 2022

07 JUN 2022

07 JUN 2022

07 JUN 2022

SHEET NAME

PHASE 1: 01 MAR 2022 PHASE 2: 30 MAR 2022 PHASE 3: 7 JUNE 2022

PROJECT TEAM: <u>ARCHITECTURAL</u> Caldwell Associates **STRUCTURAL** McCarthy Engineering **MECHANICAL** Anton Lee Engineering **ELECTRICAL** HG Engineers

PROJECT: **ORIOLE BEACH** 

**ELEMENTARY - KITCHEN RENOVATION** 



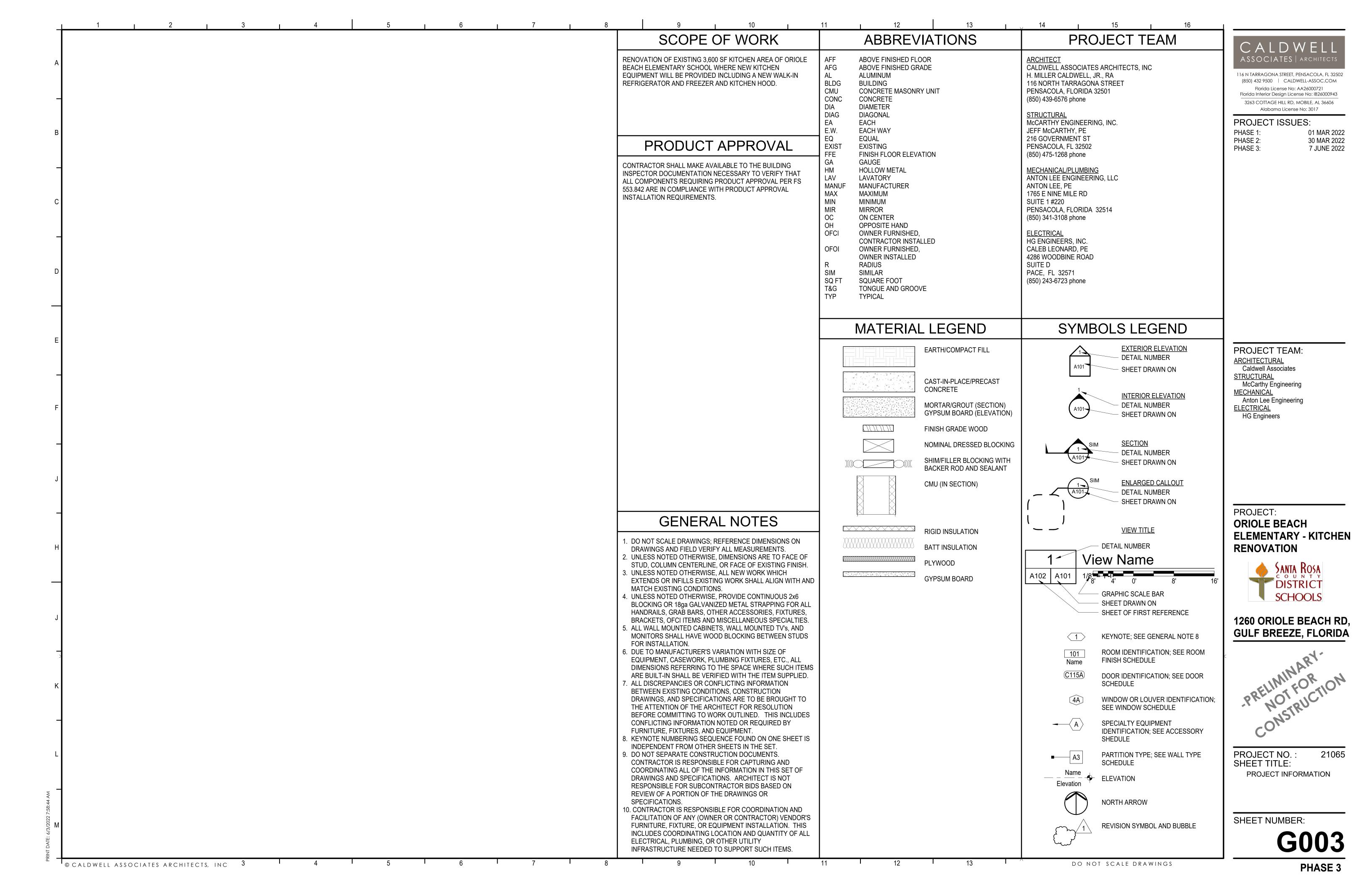
1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** 

21065 PROJECT NO.: SHEET TITLE: INDEX OF DRAWINGS

SHEET NUMBER:

PHASE 3

DO NOT SCALE DRAWINGS



## CODE SUMMARY

SANTAROSA COUNTY DISTRICT SCHOOLS ORIOLE BEACH ELEMENTARY SCHOOL 1260 ORIOLE BEACH ROAD GULF BREEZE, FLORIDA **CLIMATE ZONE 2A** GROUP E (EDUCATIONAL) OCCUPANCY CONSTRUCTION TYPE IIB, SPRINKLERED

## APPLICABLE CODES

#### THE FOLLOWING CODES AND REVISIONS ARE APPLICABLE TO THIS PROJECT:

FLORIDA BUILDING CODE - BUILDING	7th EDITION, 2020	(FBC)
FLORIDA BUILDING CODE - ACCESSIBILITY	7th EDITION, 2020	(FBC-A)
FLORIDA BUILDING CODE - EXISTING BUILDING	7th EDITION, 2020	(FBC-EB)
FLORIDA BUILDING CODE - ENERGY CONSERVATION	7th EDITION, 2020	(FBC-EC)
FLORIDA BUILDING CODE - PLUMBING	7th EDITION, 2020	(FBC-P)
FLORIDA BUIDLING CODE - MECHANICAL	7th EDITION, 2020	(FBC-M)
FLORIDA BUILDING CODE - ELECTRICAL	7th EDITION, 2020	(FBC-E)
FLORIDA FIRE PREVENTION CODE	7th EDITION, 2020	(FFPC)
		,

OCCUPANCY	OCCUPANCY	CONSTRUCTION	AUTOMATIC		BUILDING H	EIGHT		BUILDI	NG AREA
OCCUPANCY OCCUPANCY OCCUPANCY DESCRIPTION  (CHAPTER 3)  E PUBLIC EDUCATION	TYPE	SPRINKLER SYSTEM	ALLOWABLE HEIGHT	ACTUAL HEIGHT	ALLOWABLE STORIES	ACTUAL STORIES	ALLOWABLE AREA	ACTUAL AREA	
(CH	APTER 3)	(CHAPTER 6)	(903.3.1.1)	TABLE 504.3		TABLE 504.4		TABLE 506.2	
, , ,		IIB (2B)	YES	75'-0"	N/A	3	N/A	58,000 SF	N/A

. NO ADDITIONAL AREA IS BEING ADDED TO THE EXISTING BUILDING. 2. THE BUILDING OCCUPANCY IS NOT CHANGING.

NO CONSIDERATIONS HAVE BEEN MADE FOR ANY ALLOWABLE AREA OR HEIGHTS.

MEANS	OF EG	RESS	
	CODE	01-F	loor
	CITATION	REQUIRED	PROVIDED
OCCUPANT LOAD	1004.5	5	50
NUMBER OF EXITS	1006.3	2	3
EGRESS COMPONENT WIDTH	1005.3.2	10.0"	34"
EGRESS DOOR WIDTH	1010.1.1	32"	34"
CORRIDOR WIDTH	1020.3	44"	60" MIN.
DEAD END CORRIDOR	1020.4	20'	15'-2"
CLEAR STAIR WIDTH	1005.3.1	15"	
	1009.3.2	48"	N/A
	1011.2	36"	
COMMON PATH OF TRAVEL	1006.2.1	75'	N/A
EXIT ACCESS TRAVEL	1017.2.1	200'	31'
NOTES: NO CONSIDERATION	S FOR MEANS	OF EGRESS H	IAVE BEEN

MADE DUE TO NO CHANGES MADE TO OCCUPANY LOAD OR TRAVEL

DISTANCES

BUILDING ELEMENT (TABLE 601)		RATING REQUIRED
PRIMARY STRUCTURAL FRAME		0
BEARING WALLS		0
EXTERIOR		0
INTERIOR		0
NONBEARING WALLS AND PARTITIONS	X < 5'	1 <sup>1</sup>
EXTERIOR (TABLE 705.5)	5' ≤ X < 10'	1 <sup>1</sup>
	10' ≤ X < 30'	0
	30' ≥ X	0
NONBEARING WALLS AND PARTITIONS		
INTERIOR (TA	ABLE 601)	0
CORRIDOR (TA	ABLE 1020.1)	02
FLOOR CONSTRUCTION AND SECONDAR STRUCTURAL MEMBERS	0	

1. NO CONSIDERATIONS HAVE BEEN MADE AS ALL NEW CONSTRUCTION WILL NOT BE REQUIRED TO BE RATED.

PROJECT:

PROJECT TEAM:

Caldwell Associates

McCarthy Engineering

Anton Lee Engineering

<u>ARCHITECTURAL</u>

<u>STRUCTURAL</u>

**MECHANICAL** 

**ELECTRICAL** 

HG Engineers

**ORIOLE BEACH ELEMENTARY - KITCHEN RENOVATION** 

ASSOCIATES | ARCHITECT

116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM

Florida License No: AA26000721 Florida Interior Design License No: IB26000943

3263 COTTAGE HILL RD, MOBILE, AL 36606

Alabama License No: 3017

01 MAR 2022

30 MAR 2022

7 JUNE 2022

PROJECT ISSUES:

PHASE 1:

PHASE 2:

PHASE 3:



1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** 

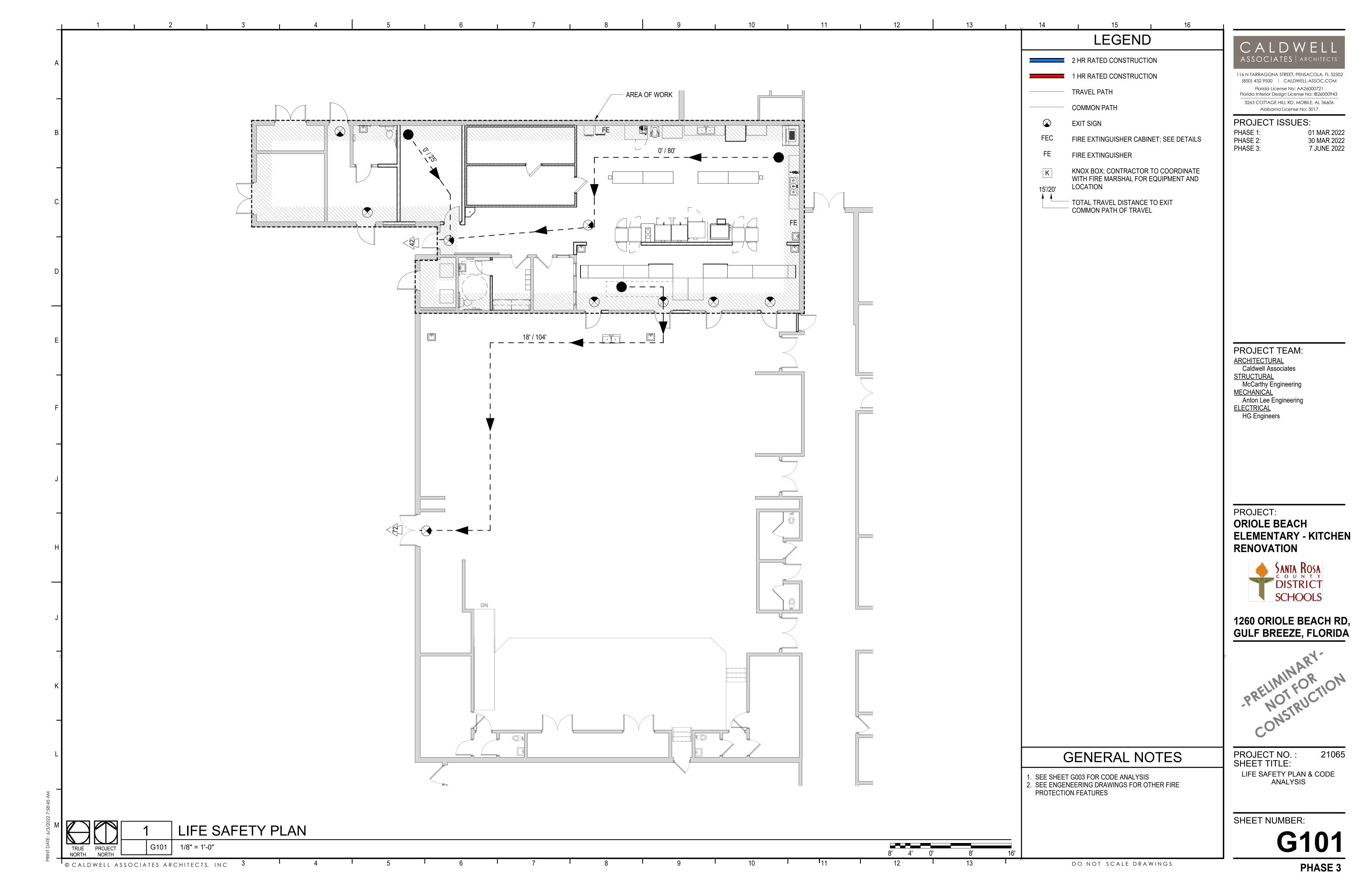
PROJECT NO. : SHEET TITLE:

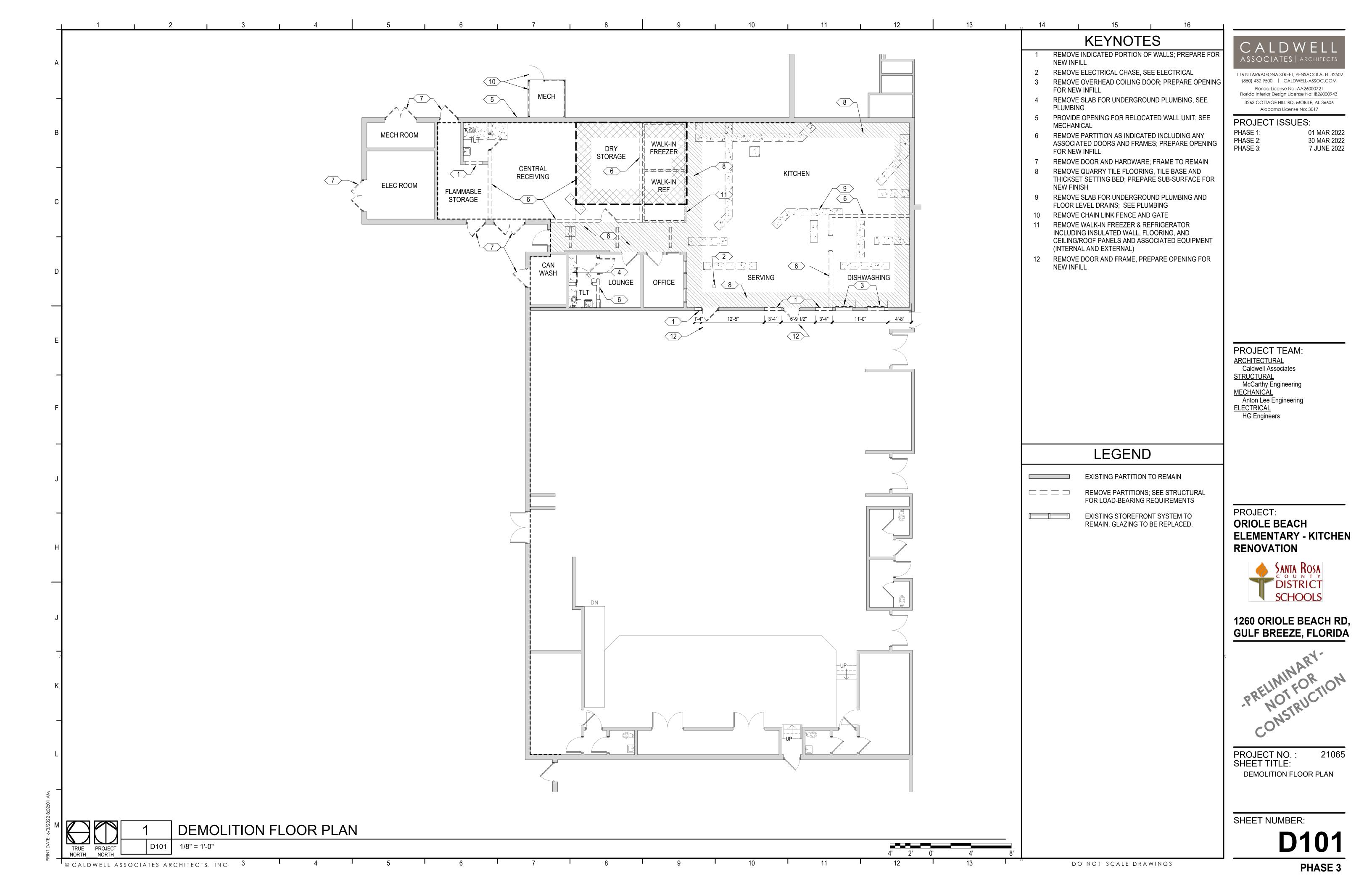
CODE ANALYSIS

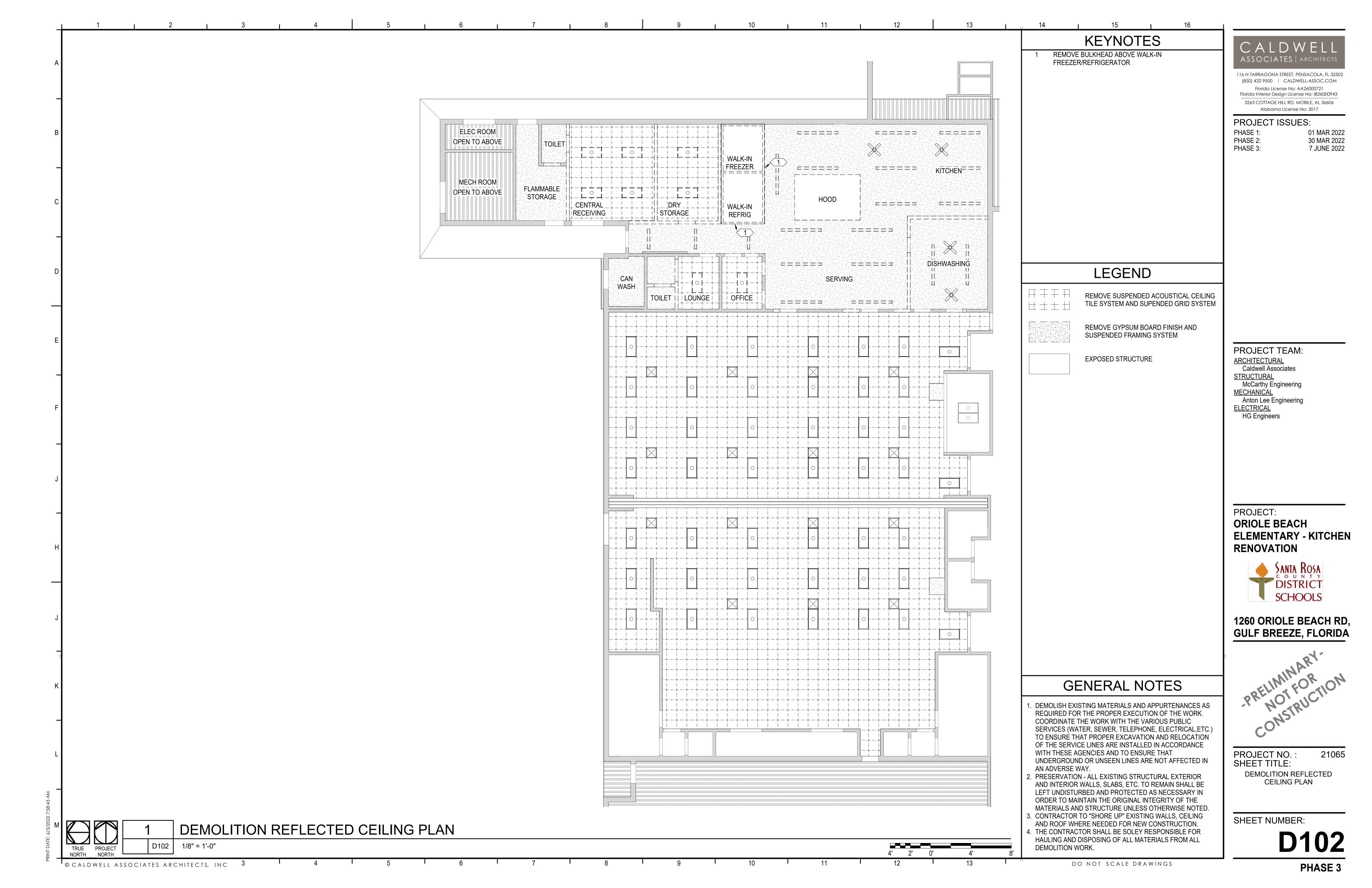
SHEET NUMBER:

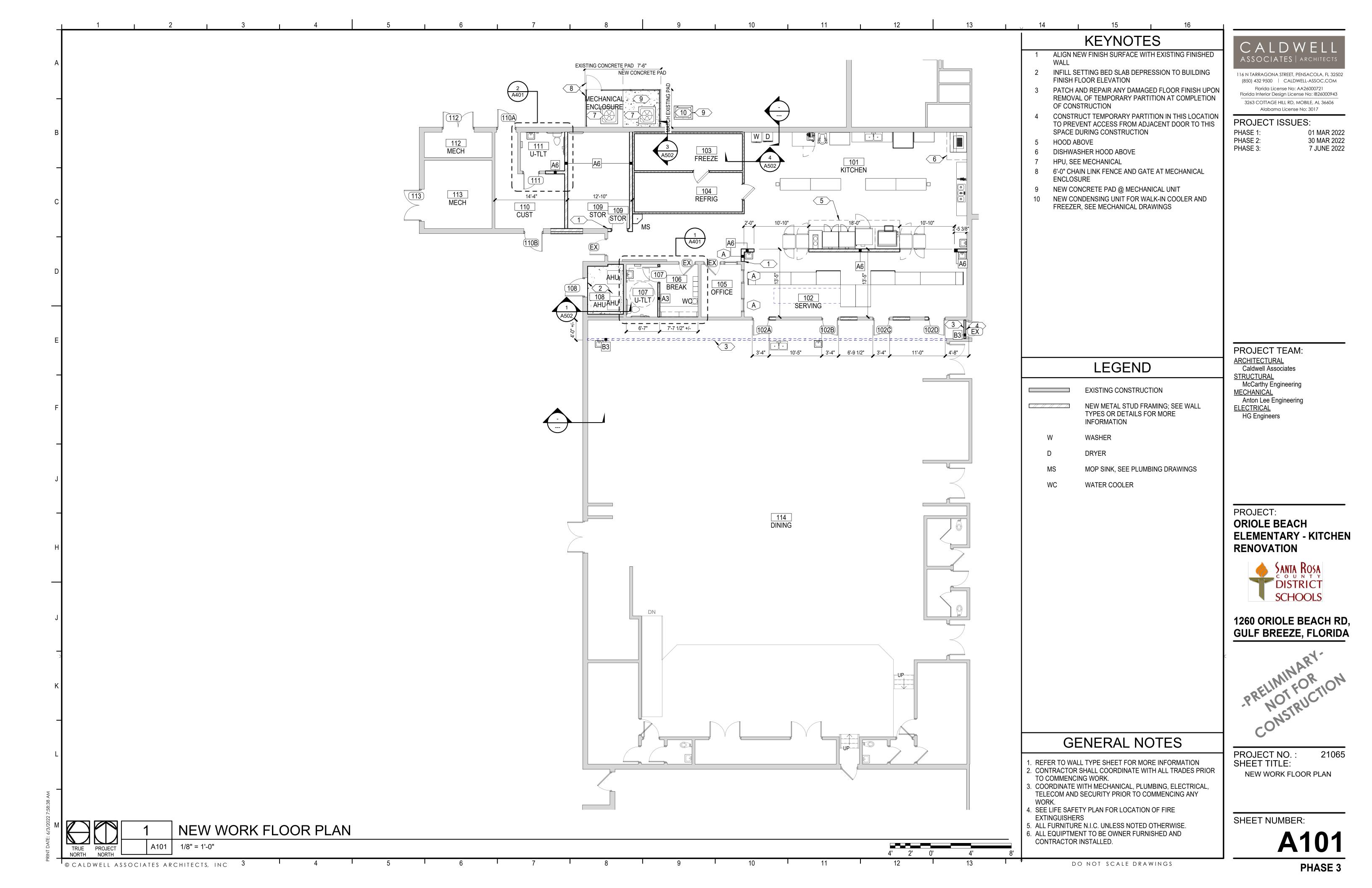
OCCUPANT LOAD PER TABLE 1004.5 FLOOR FUNCTION OF SPACE AREA LOAD FACTOR OCCUPANT LOAD 01 KITCHENS, COMMERCIAL 200 GROSS 3,600 18 TOTAL 18

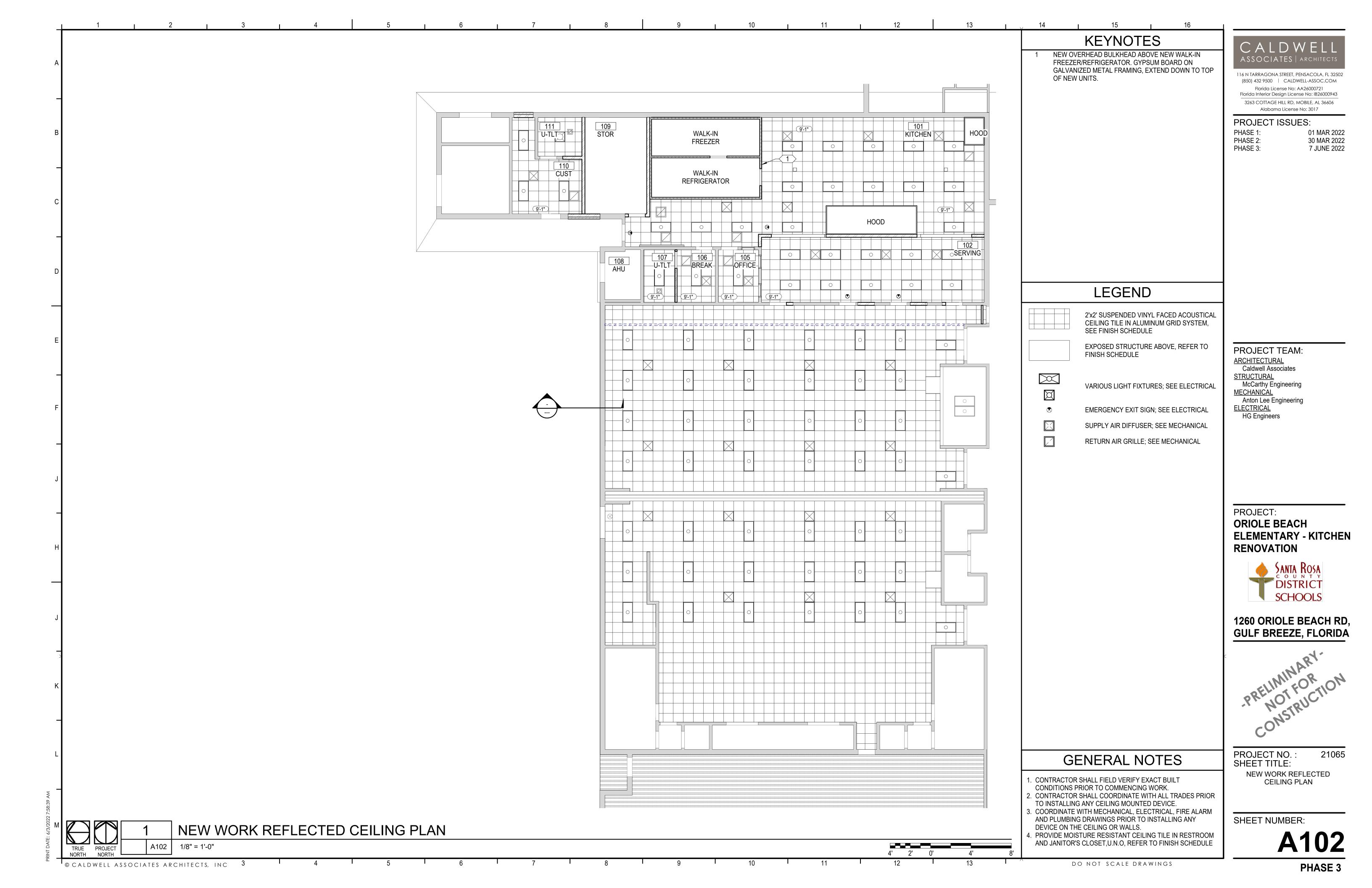
© CALDWELL ASSOCIATES ARCHITECTS, INC. 3 DO NOT SCALE DRAWINGS

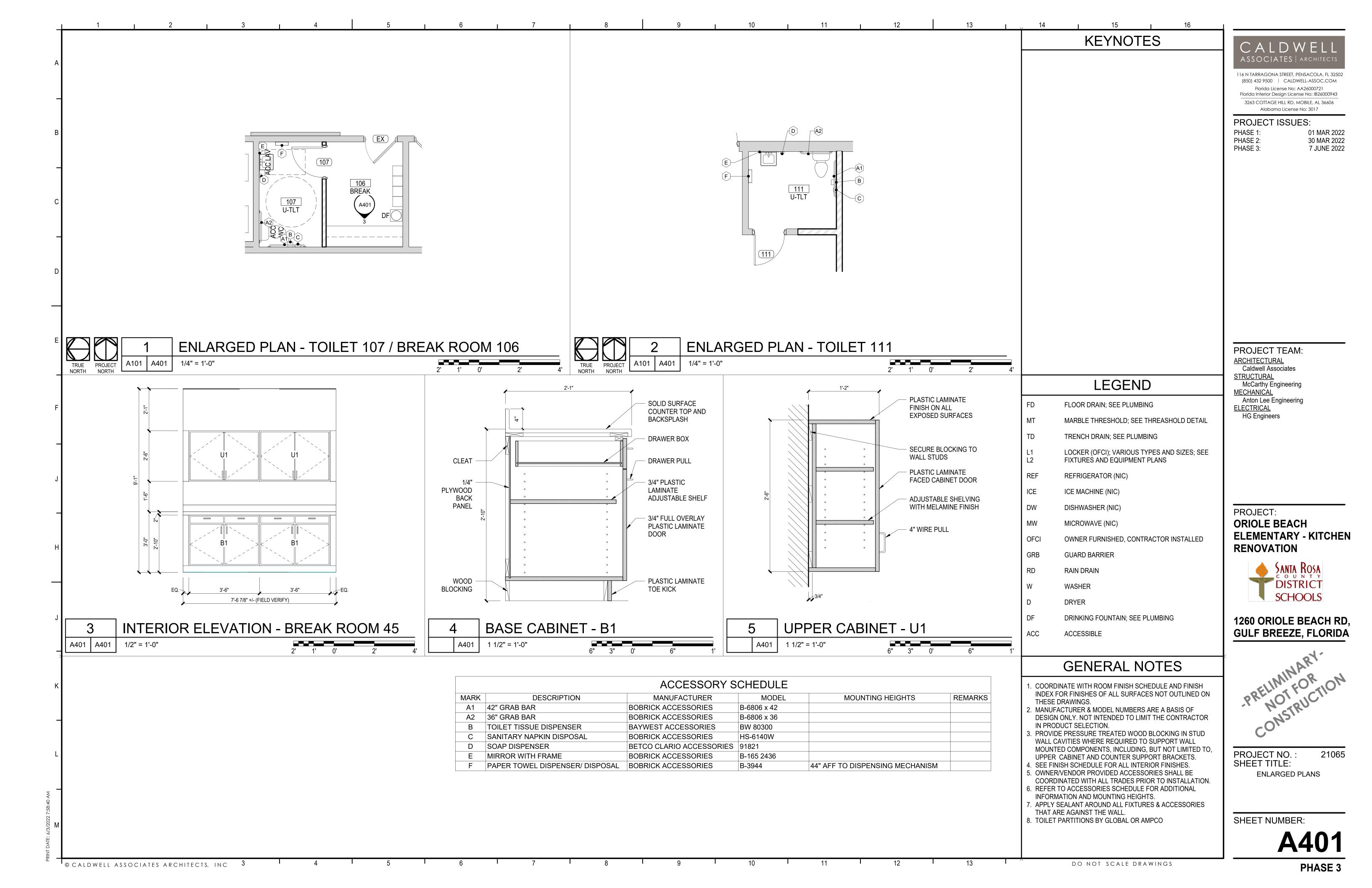


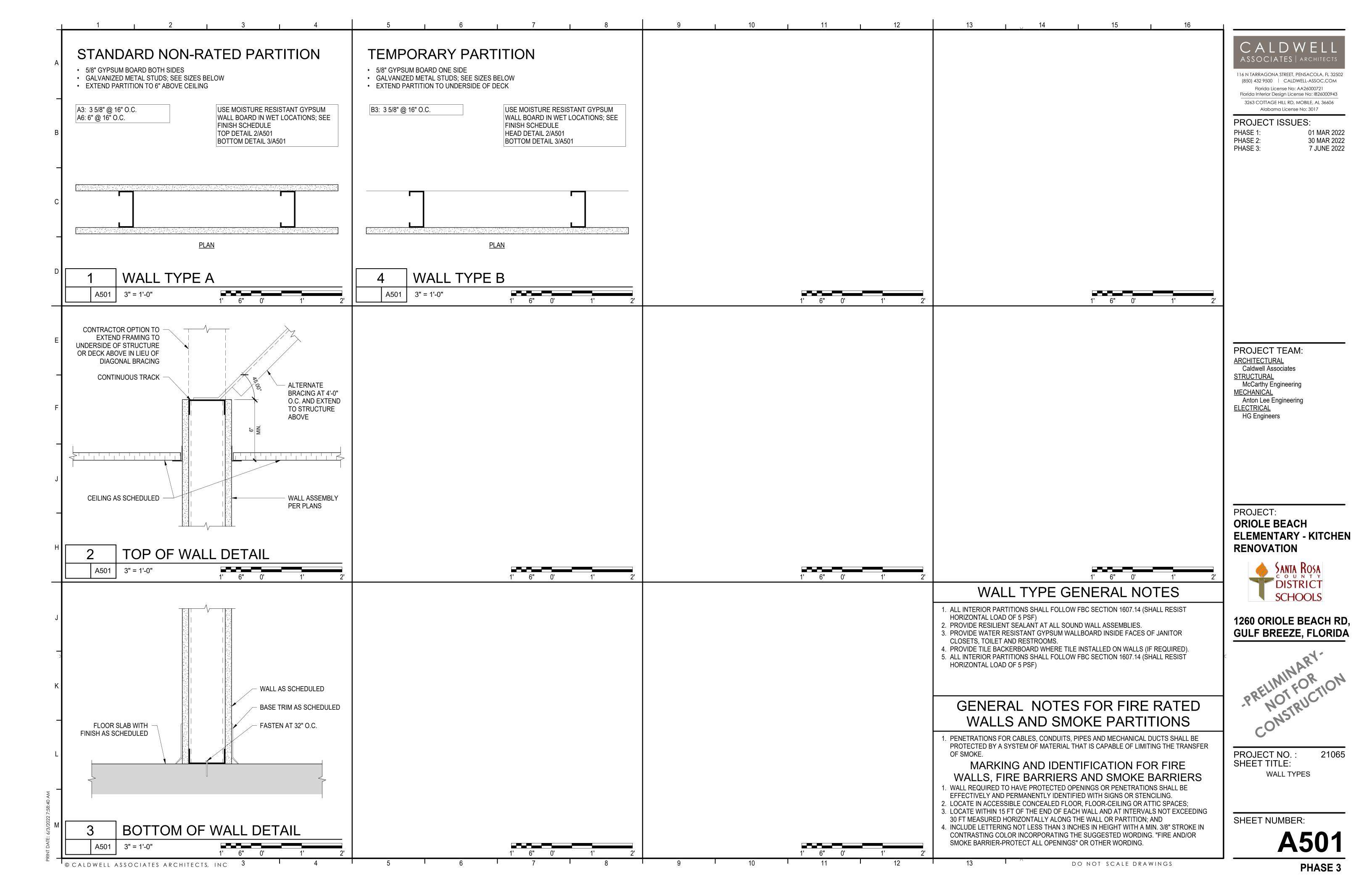


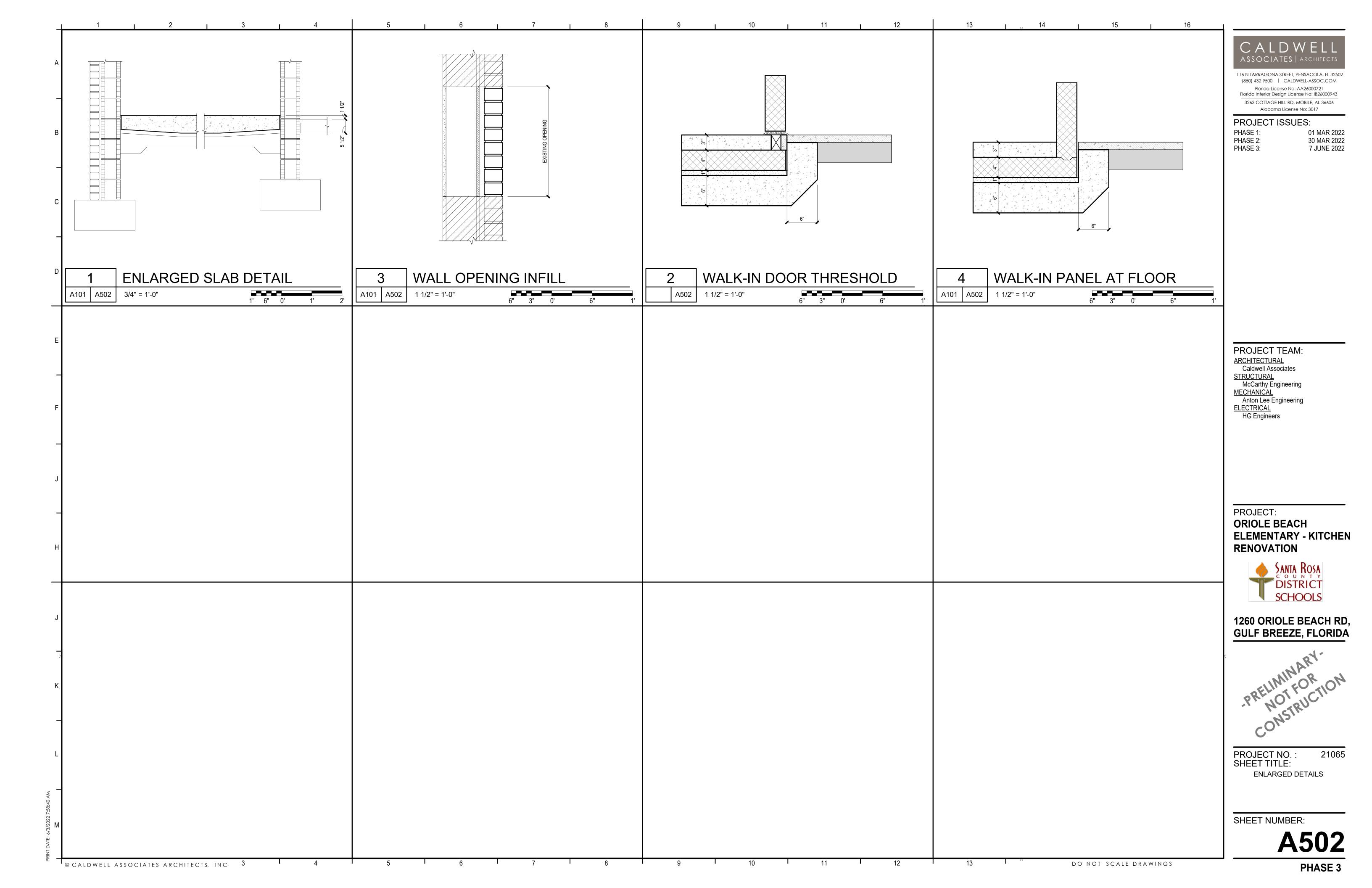












1	2	ı	3	4		5	ĺ	6 <sub>I</sub>		7	8		9	L	10	<b>I</b> 11	12	
							D	OOR SCHEDU	JLE									
				D	OOR						FRAME							
		SIZE									T TO WILL	DETAIL		FIRE	HARDWARE			
MARK	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	UNDERCUT	GLAZING	TYPE	FINISH	HEAD	JAMB	SILL	RATING	SET NO.	REMARKS		
102A	3'-0"	7'-0"	1 3/4"	NV	HM	PT	-	G1	HM-1	PT	3/A602	4/A602		-		1		
102B	3'-0"	7'-0"	1 3/4"	NV	HM	PT	-	G1	HM-1	PT	3/A602	4/A602		-		1		
102C	3'-0"	7'-0"	1 3/4"	NV	HM	PT	-	G1	HM-1	PT	3/A602	4/A602		-		1		
102D	3'-0"	7'-0"	1 3/4"	NV	HM	PT	-	G1	HM-1	PT	3/A602	4/A602		-		1		
107	3'-0"	7'-0"	1 3/4"	F	HM	PT	-	-	HM-1	PT	1/A602	2/A602		-				
108	3'-6"	7'-0"	1 3/4"	FL	HM	PT	-	-	HM-2	PT	5/A602	6/A602		-				
109	3'-0"	7'-0"	1 3/4"	F	HM	PT	-	-	HM-1	PT	1/A602	2/A602		-			-	
110A	3'-6"	7'-0"	1 3/4"	F	HM	PT	-	-	HM-2	PT	5/A602	6/A602		-		2		
110B	3'-6"	7'-0"	1 3/4"	F	HM	PT	-	-	HM-2	PT	5/A602	6/A602		-		2		
111	3'-0"	7'-0"	1 3/4"	F	HM	PT	-	-	HM-1	PT	3/A602	4/A602		-		2.2		
112 113	6'-0" 6'-0"	7'-0" 7'-0"	1 3/4" 1 3/4"	FL FL	HM HM	PT PT	-	-	HM-2 HM-2	PT PT	5/A602 5/A602	6/A602 6/A602		-		2, 3		
113	0-0	7 -0	1 3/4	ΓL	ПІИ	PI	-	-	□IVI-Z	P I	5/A602	0/A002		-		۷, ۵		
										D (	OR	TYP	ES			FRAN	ME TYPES	
									EE SCHED.	SEE SCHED.		E SCHED.	SEE SCHED.	SCHED.		SEE SCHED.	D. 2" 2" 3'-0" 2"	•

FLUSH

NARROW VIEW

FULL LOUVER

## **ABBREVIATIONS**

F FLUSH
FL FULL LOUVER
HM HOLLOW METAL
NV NARROW VIEW
PT PAINT

12 | 13 | 14 \_\_\_\_\_ 15 \_\_\_\_ 16\_

# ASSOCIATES | ARCHITECTS

116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943

3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017

## PROJECT ISSUES:

PHASE 1: 01 MAR 2022 PHASE 2: 30 MAR 2022 PHASE 3: 7 JUNE 2022

## REMARKS

PROVIDE MAGNETIC HOLD OPEN DEVICE CONNECTED TO FIRE ALARM SYSTEM

## **GLAZING INDEX**

SINGLE, TEMPERED

**HOLLOW METAL** 

**HOLLOW METAL** 

PROJECT TEAM:

ARCHITECTURAL

Caldwell Associates

STRUCTURAL

McCarthy Engineering

MECHANICAL

Anton Lee Engineering

ELECTRICAL

**HG** Engineers

# PROJECT:

ORIOLE BEACH
ELEMENTARY - KITCHEN
RENOVATION



## 1260 ORIOLE BEACH RD, GULF BREEZE, FLORIDA

## GENERAL NOTES

- 1. ALL HARDWARE TO BE SUPPLIED W/ DOOR.
- CONTRACTOR TO FIELD VERIFY ALL OPENINGS PRIOR TO DOOR PURCHASE.
- 3. COORDINATE ALL DOORS WITH MANUFACTURER PRIOR TO PURCHASE.
- 4. INSTALL DOORS IN STRICT ACCORDANCE W/ THE MANUFACTURER'S PRINTED INSTRUCTIONS.
- 5. INSTALL SEALANT AND BACKING ROD AS PER INDUSTRY STANDARDS AND MANUFACTURE'S RECOMMENDATIONS.
- CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR
  TO INSTALLING ANY CEILING MOUNTED DEVICE.
   COORDINATE WITH MECHANICAL, ELECTRICAL, FIRE ALARM
  AND PLUMBING DRAWINGS PRIOR TO INSTALLING ANY
- DEVICE ON THE CEILING OR WALLS.

  B. EXTERIOR HOLLOW METAL DOORS SHALL BE GALVANIZED
- WITH INSULATED CORE.

9. EXTERIOR HOLLOW METAL FRAMES SHALL BE GALVANIZED. 10. PROVIDE KICK PLATE ON INTERIOR SIDE(S) OF ALL DOORS.

SHEET NUMBER:

PROJECT NO.:

SHEET TITLE:

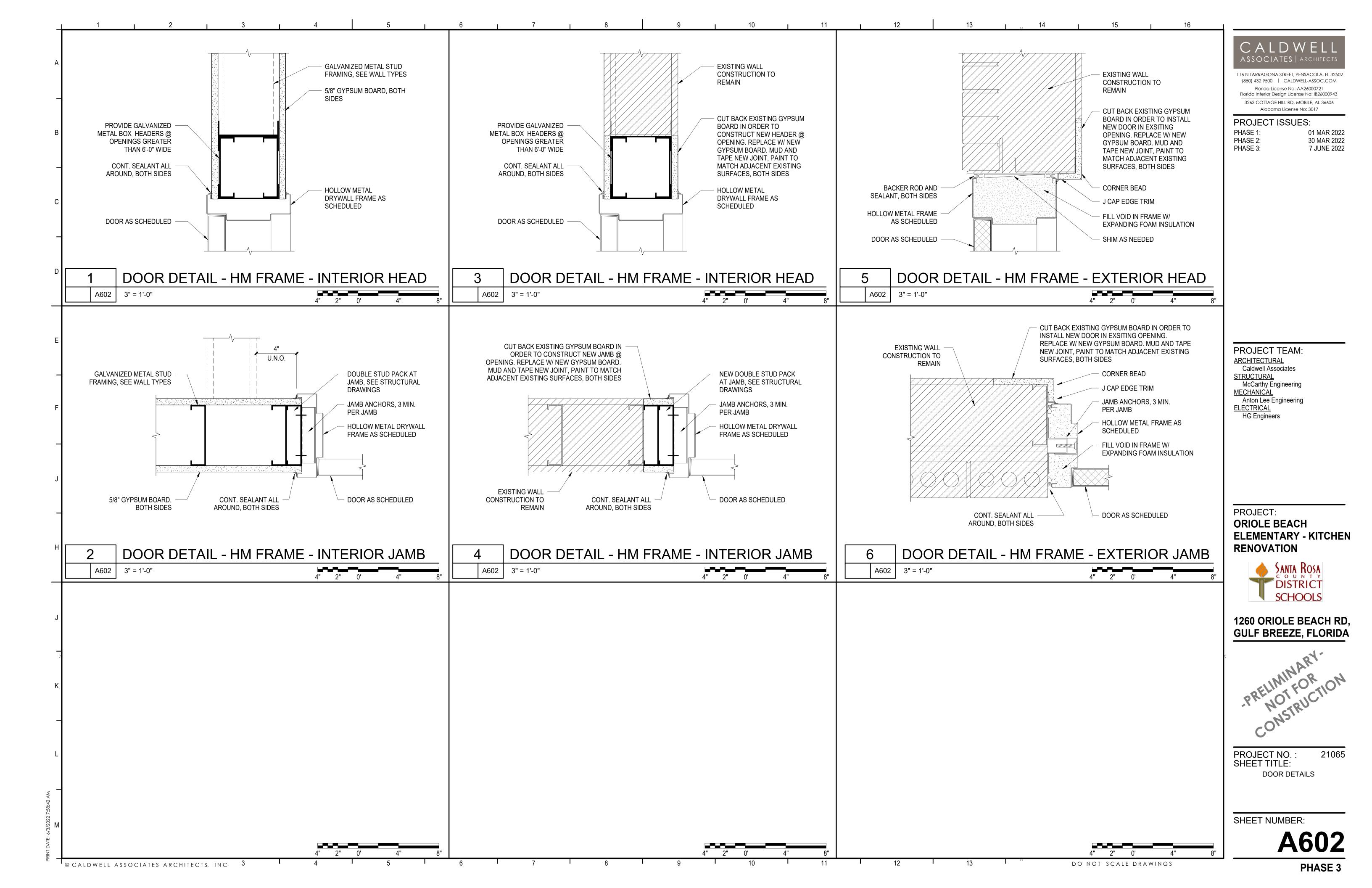
A60'

PHASE 3

DOOR SCHEDULE

21065

© CALDWELL ASSOCIATES ARCHITECTS, INC. 3 4 5 DO NOT SCALE DRAWINGS



						FINIS	H SCH	EDULE	- - -							
		FLO	OR	BA	ASE				W	ALLS				CEI	ILING	
						NC	NORTH		EAST	SO	OUTH	V	VEST			
ROOM No.	ROOM NAME	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	REMARKS
101	KITCHEN	CONC	RF-1	TBU	ICB-1	TBU	WT-1	TBU	WT-1	TBU	WT-1	TBU	WT-1		APC-2	
102	SERVING	CONC	RF-1	TBU	ICB-1			TBU	WT-1	TBU	WT-1	TBU	WT-1		APC-2	
103	WALK-IN FREEZER	CONC	RF-1	IN PAN	ICB-1	IN PAN	AL-1	IN PAN	AL-1	IN PAN	AL-1	IN PAN	AL-1	IN PAN	AL-1	
104	WALK-IN REFRIGERATOR	CONC	RF-1	IN PAN	ICB-1	IN PAN	AL-1	IN PAN	AL-1	IN PAN	AL-1	IN PAN	AL-1	IN PAN	AL-1	
105	OFFICE	EX CONC	RFT-1	GB	RB-1	GB	P-1	GB	P-1	GB	P-1	GB	P-1		APC-1	
106	BREAK ROOM	EX CONC	RFT-1	GB	RB-1	GB	P-1	GB	P-1	GB	P-1	GB	P-1		APC-1	
107	UNISEX TOILET	EX CONC	RF-1	MRGB	ICB-1	MRGB	P-2	MRGB	P-2	MRGB	P-2	MRGB	P-2		APC-2	
108	CAN WASH	EX CONC	RF-1	MRGB	ICB-1	MRGB	P-2	MRGB	P-2	MRGB	P-2	MRGB	P-2		APC-2	
109	DRY STORAGE	EX CONC	RFT-1	GB	RB-1	GB	P-1	GB	P-1	GB	P-1	GB	P-1		APC-1	
110	CUSTODIAL	EX CONC	RF-1	MRGB	ICB-1	MRGB	P-2	MRGB	P-2	MRGB	P-2	MRGB	P-2		APC-2	
111	UNISEX TOILET	EX CONC	RF-1	MRGB	ICB-1	MRGB	P-2	MRGB	P-2	MRGB	P-2	MRGB	P-2		APC-2	
112	MECHANICAL	EX CONC		EX GB		EX GB		EX GB		EX GB		EX GB		EXPOSED		1
113	MECHANICAL	EX CONC		EX GB		EX GB		EX GB		EX GB		EX GB		EXPOSED		1
114	DINING	EX CONC		EX GB		EX GB		EX GB		EX GB		GB	P-1		APC-1	

## FINISH INDEX

**RESINOUS FLOORING** MANUF: COLLECT: COLOR:

RESILIENT FLOOR TILE MANUF:

COLLECT: COLOR: SIZE:

SIZE:

**FLOORS** 

INTEGRAL COVE BASE MANUF: COLOR:

SIZE:

SIZE:

**RUBBER WALL BASE** MANUF: COLOR:

#### <u>WALLS</u>

MANUF: PRODUCT: COLOR: SHEEN:

> MANUF: PRODUCT: COLOR: SHEEN:

WALL TILE MANUF: LINE: COLOR:

## **CEILING**

APC ACOUSTI APC-1 MANUF: ACOUSTICAL PANEL CEILING PRODUCT: COLOR: EDGE:

APC-1 MANUF: PRODUCT COLOR: EDGE: SIZE: GRID:

SIZE:

GRID:

#### **DOORS & WINDOWS:**

MANUF: PRODUCT COLOR: SHEEN:

P-4 MANUF: PRODUCT COLOR: SHEEN:

P-5 MANUF: PRODUCT COLOR: SHEEN:

> STAINED TO MATCH NATIONAL OFFICE FURNITURE SAMPLE "AUTUMN ON CHERRY"

#### **WALK-IN REFRIGERATOR & FREEZER**

ALUMINUM
COLOR: MANUFACTURER'S STANDARD WHITE

## **ABBREVIATIONS**

FLOORS CPT CARPET COMPOSITION TILE LVT LUXURY VINYL TILE PCT PORCELAIN CERAMIC TILE SC STAINED CONCRETE SDT STATIC DISSIPATIVE TILE WM WALK-OFF MAT

<u>BASE</u> ' RB RUBBER BASE PCTB PORCELAIN TILE BASE

WDB WOOD BASE CTB CERAMIC TILE BASE <u>WALLS</u> GL

**GLASS** GB GYPSUM BOARD CTW CERAMIC WALL TILE PCTW PORCELAIN WALL TILE PL PT PLASTIC LAMINATE PAINT WC WALL COVERING WDW WOOD WALL PANEL

<u>CEILING</u> ACT

TBD

ACOUSTICAL CEILING TILE EXP EXPOSED STRUCTURE; PAINTED GB GYPSUM BOARD

TO BE DETERMINED

**MISCELLANEOUS** GRT PLASTIC LAMINATE

# REMARKS

1. NO FINISH WORK IN THIS SPACE.

#### PROJECT TEAM: <u>ARCHITECTURAL</u>

CALDWELI

ASSOCIATES | ARCHITECT

116 N TARRAGONA STREET, PENSACOLA, FL 32502

(850) 432 9500 | CALDWELL-ASSOC.COM

Florida License No: AA26000721

Florida Interior Design License No: IB26000943

3263 COTTAGE HILL RD, MOBILE, AL 36606

Alabama License No: 3017

01 MAR 2022

30 MAR 2022

7 JUNE 2022

PROJECT ISSUES:

PHASE 1:

PHASE 2:

PHASE 3:

Caldwell Associates **STRUCTURAL** McCarthy Engineering <u>MECHANICAL</u> Anton Lee Engineering **ELECTRICAL** HG Engineers

PROJECT:

**ORIOLE BEACH ELEMENTARY - KITCHEN** RENOVATION



1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** 

## **GENERAL NOTES**

. CONTRACTOR SHALL SUBMIT SAMPLES/SWATCHES FOR APPROVAL OF ALL MATERIALS OUTLINED ON COLOR LEGEND FOR VERIFICATION.

PROJECT NO.: SHEET TITLE:

ROOM FINISH SCHEDULE

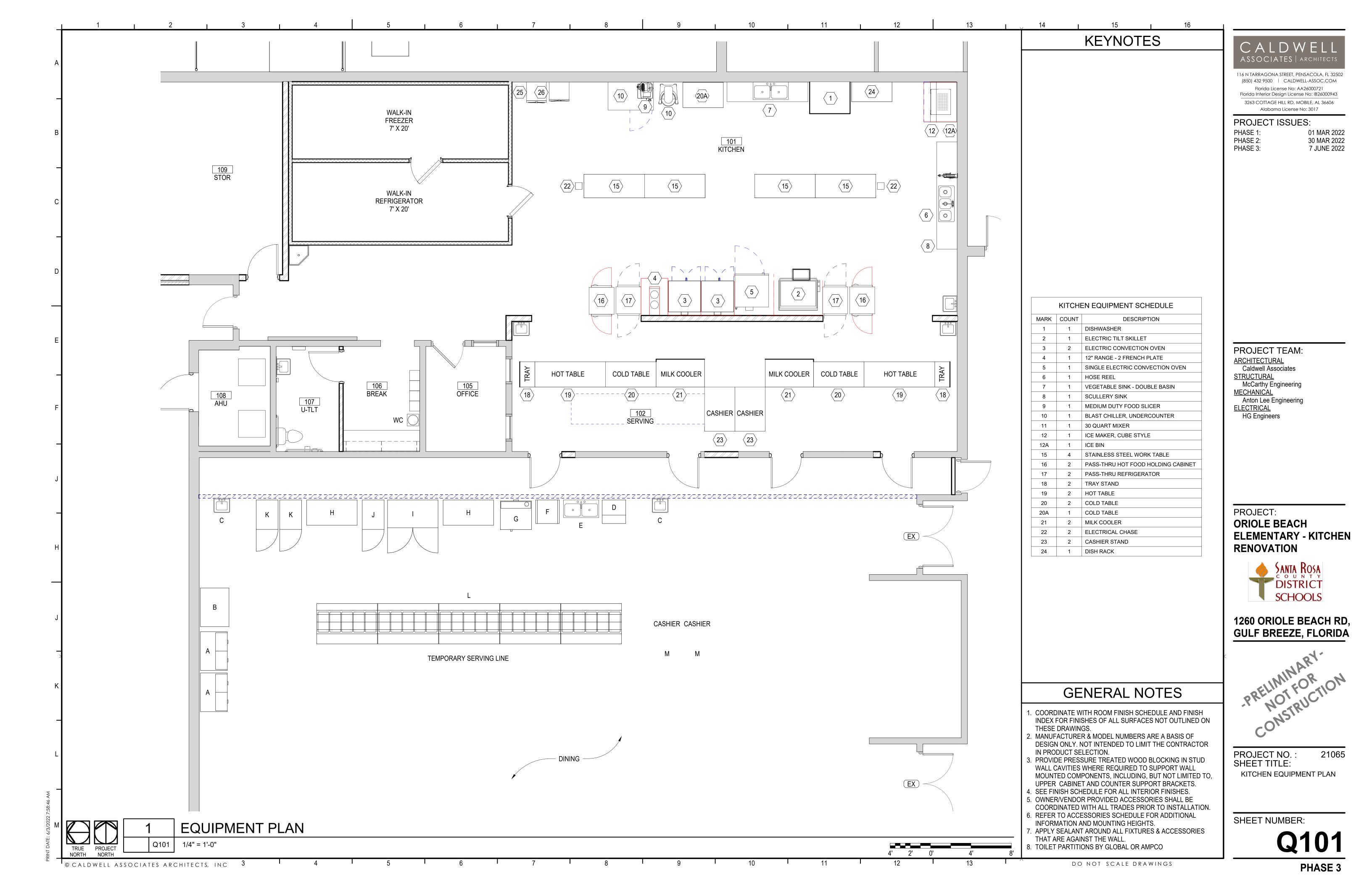
SHEET NUMBER:

**I601** 

PHASE 3

21065

DO NOT SCALE DRAWINGS © CALDWELL ASSOCIATES ARCHITECTS, INC. 3

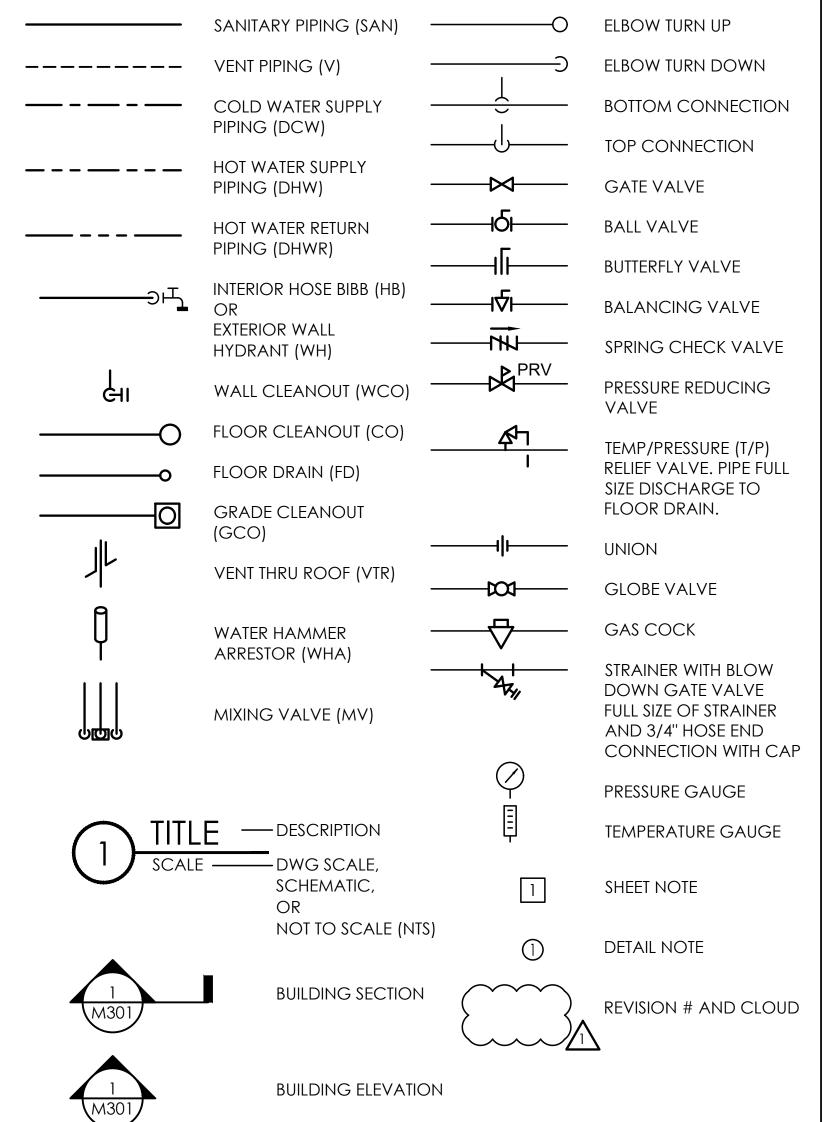


	ABBREV	IATIONS	GENERAL	PLUMBING NOTES
AAV ABA ABS	AIR ADMITTANCE VALVE ARCHITECTURAL BARRIERS ACT ACRYLONITRILE BUTADIENE STYRENE	HB HOSE BIBB HW HOT WATER HWR HOT WATER RETURN	1. PRIOR TO BEGINNING CONSTRUCTION, FIELD VERIFY THE EXACT LOCATION, SIZE, DEPTH, DIRECTION OF FLOW, CAPACITY, PIPE MATERIAL, AND CONDITION OF EXISTING PIPING TO ENSURE THAT PROPER CONNECTIONS TO AND EXTENSION OF SUCH UTILITIES CAN BE MADE.	26. PROVIDE INSULATION WATER AND HOT WAS SPECIFICATIONS.
ADA AFF AGA	PLASTIC  AMERICANS WITH DISABILITY ACT  ABOVE FINISH FLOOR  AMERICAN GAS ASSOCIATION	INV INVERT IWH INSTANTANEOUS WATER HEATER	2. INVERT ELEVATIONS LISTED ARE APPROXIMATE. PRIOR TO CONSTRUCTION, FIELD VERIFY EXISTING CONDITIONS AND MAKE ADJUSTMENTS AS REQUIRED TO ENSURE PROPER CONNECTIONS TO UTILITIES.	28. ALL ITEMS PROJECTIN MINIMUM OF 12" AN SEALS AT ALL ROOF I
ANSI ASHRAE	AMERICAN NATIONAL STANDARDS INSTITUTE AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR-CONDITIONING ENGINEERS	MECH MECHANICAL NSF NATIONAL SCIENCE FOUNDATION PSI POUNDS PER SQUARE INCH	3. SITE INSPECTION: CONTRACTOR SHALL VISIT THE SITE OF WORK PRIOR TO SUBMISSION OF HIS BID AND THOROUGHLY FAMILIARIZE HIMSELF WITH THE WORKING CONDITIONS AND EXACT NATURE OF THE WORK. SUBMISSION OF A BID ACKNOWLEDGES FULL RESPONSIBILITY FOR PROVIDING ALL NECESSARY LABOR AND MATERIALS TO ENSURE COMPLETE, FUNCTIONAL, AND COMPLIANT SYSTEMS. FAILURE TO MEET THIS REQUIREMENT SHALL NOT BE CONSIDERED	30. UNDER SLAB SOIL, W FOUNDATION FOOTI
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERING	SAN SANITARY	JUSTIFICATION FOR OMISSIONS, FAULTY WORK, OR THE PAYMENT OF ADDITIONAL COMPENSATION.	COORDINATE FINAL  31. SEE RESTROOM ELEV
FP	BACKFLOW PREVENTER	SS STAINLESS STEEL	4. CONTRACTOR SHALL COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES TO AVOI CONFLICTS AND TO MINIMIZE INTERRUPTION OF SERVICES.	MOUNTING HEIGHT.
FH FM O W	CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CLEANOUT COLD WATER (POTABLE)	TYP TYPICAL T/P TEMPERATURE AND PRESSURE TP TRAP PRIMER	5. ALL WORK, METHODS, AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE PREVAILIN BUILDING CODE, INSPECTION REGULATIONS AND ALL OFFICIALS HAVING JURISDICTION.	32. PRIOR TO SUBSTANTIA  SANITARY PLUMBING  OR PREVENT ADEQU  TERMINATING INTO B
CW EG F IA	DOMESTIC COLD WATER DEGREES DRINKING FOUNTAIN DIAMETER DOWN	U/G UNDERGROUND  V VENT  VTR VENT THROUGH ROOF  W/ WITH	6. DUE TO THE SCALE OF DRAWINGS, NOT ALL PIPING AND APPURTENANCES TO BE PROVIDED ARE SHOWN. CONTRACTOR SHALL PROVIDE SERVICES INCLUDING, BUT NOT LIMITED TO, TH FOLLOWING: PIPING INSIDE WALLS AND CHASES TO SERVE ADJACENT PLUMBING FIXTURES AND EQUIPMENT, INDIVIDUAL FIXTURE SUPPLIES AND DRAINS, PIPING OFFSETS, VALVES, TRAFFIGAUGES, STRAINERS, AND UNIONS TO ENSURE THE COMPLETE AND FUNCTIONING INSTALLATION OF FIXTURES AND EQUIPMENT.	TEST FOR WATER SYSTEM 33. PROVIDE TRAP PRIME
ELEV EWC	ELEVATION ELECTRIC WATER COOLER ELECTRIC WATER HEATER	W WASTE WC WATER CLOSET (TOILET) WCO WALL CLEANOUT WH WALL HYDRANT	<ol> <li>COORDINATE ROUTING OF PIPING BELOW SLAB WITH COLUMN FOUNDATIONS, PILINGS, GRADE BEAMS, UNDERGROUND PLUMBING, ELECTRICAL UTILITIES, AND OTHER SUB-SURFAC BUILDING ELEMENTS.</li> </ol>	05
PA CO	ENVIRONMENTAL PROTECTION AGENCY FLOOR CLEANOUT	WHA WATER HAMMER ARRESTOR  NOTE:	8. DO NOT ROUGH-IN BASED UPON THESE DRAWINGS. REFER TO LATEST DRAWINGS PREPARED BY THE ARCHITECT. THE FINAL LOCATIONS OF ALL PIPING SHALL ALLOW INSTALLATION OF FIXTURES WITHOUT THE NEED TO FURR-OUT WALLS.	
) /	FLOOR DRAIN FOOT OR FEET FLUSH VALVE	NOT ALL ABBREVIATIONS ARE USED ON THIS DRAWING	9. PRIOR TO ANY ROUGH-INS, COORDINATE ALL FIXTURE AND EQUIPMENT LOCATIONS AND CONNECTION REQUIREMENTS WITH LATEST MANUFACTURER RECOMMENDATIONS AND DRAWINGS AND SPECIFICATIONS. MAKE ADJUSTMENTS AND PROVIDE SERVICES AS	
GALV GCO GPF	GALVANIZED GRADE CLEANOUT GALLONS PER FLUSH		REQUIRED.  10. VERIFY EXACT LOCATION OF EQUIPMENT PRIOR TO ROUGH-IN OF DRAINS AND CLEANOUTS	
PM	GALLONS PER MINUTE		11. NO PIPING IS TO BE INSTALLED OPEN TO PUBLIC VIEW UNLESS NOTED OTHERWISE.	
			12. DO NOT INSTALL PIPING AT LOCATIONS THAT INTERFERE WITH SERVICE ACCESSIBILITY TO EQUIPMENT.	
			13. ALL PENETRATIONS THROUGH FLOOR SLABS AND EXTERIOR WALLS SHALL BE SEALED WATERTIGHT.	
			14. ALL EXISTING WALLS, FLOORS, DRIVEWAYS, SIDEWALKS, PARKING AREAS, FENCING, ETC. DISTURBED DUE TO WORK DONE AND THAT ARE TO REMAIN SHALL BE REPAIRED TO CONDITION THAT IS ACCEPTABLE TO THE ARCHITECT/ENGINEER AND OWNER.	
	ROJECT BUILDING CO		15. COORDINATE ROUTING OF PIPING IN CEILING SPACES WITH MECHANICAL AND ELECTRICA EQUIPMENT, DUCTWORK AND CONDUIT. INSTALL TO CONSERVE HEADROOM AND TO CREAMINIMUM INTERFERENCE WITH USE OF SPACE. SHOULD A CONFLICT OCCUR THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO INSTALLING AN ALTERNAPIPING PLAN. GROUP PIPING AT COMMON ELEVATIONS WHENEVER PRACTICAL.	TE ————————————————————————————————————
• 20	020 FLORIDA BUILDING CODE 020 FLORIDA MECHANICAL CODE 020 FLORIDA ENERGY CONSERVATION CO	ODE	16. ALL VALVES INDICATED ON DRAWINGS SHALL BE LINE-SIZED (THE SAME SIZE AS THE PIPE THE SERVE) UNLESS NOTED OTHERWISE.	
<ul><li>20</li><li>20</li></ul>	020 FLORIDA PLUMBING CODE 020 FLORIDA FIRE PREVENTION CODE 014 STATE REQUIREMENTS FOR EDUCATIO	, ,	17. PROVIDE LOCKING ACCESS PANELS ACCEPTABLE TO ARCHITECT/OWNER AS REQUIRED TO ENSURE ACCESS TO VALVES AND WATER HAMMERS.	A P
• A	MERICAN SOCIETY OF HEATING AND REF MERICAN SOCIETY OF PLUMBING ENGINI ATION ALL FIRE PROTECTION ASSOCIATION	EERS (ASPE)	18. PROVIDE CLEANOUTS IN ADDITION TO THOSE SHOWN AS REQUIRED BY CODE.	Ų
• N	ational fire protection association fpa 70 national electrical code fpa 101 life safety code	N (INFFA)	19. UPON COMPLETION OF WORK, THOROUGHLY ROD AND FLUSH OUT ALL GRAVITY DRAINAGE PIPING TO ENSURE IT IS FREE FROM BLOCKAGES AND FLOWING FREELY.	
			20. PROVIDE PIPE CONNECTIONS AND VIBRATION ISOLATORS FOR INTERNALLY ISOLATED MECHANICAL EQUIPMENTS.	<u>ილ</u> ი
			21. COMPLY WITH MSS SP-58 (PIPE HANGERS AND SUPPORTS-MATERIALS, DESIGN, AND MANUFACTURE), MSS SP-69 (PIPE HANGERS AND SUPPORTS-SELECTION AND APPLICATION), MSS SP-89 (PIPE HANGERS AND SUPPORTS-FABRICATION AND INSTALLATION) FOR PIPE HANGER SELECTIONS AND APPLICATIONS.	1 TITLE SCALE
			22. PROVIDE WALL SLEEVE AND ESCUTCHEON PLATES FOR ALL WALL PIPING PENETRATIONS. GALVANIZED STEEL SHEET SLEEVES. PROVIDE A MINIMUM 1" ANNULAR SPACE. PROVIDE CONTINUOUS INSULATION THROUGH SLEEVE.	
			23. PROVIDE STAINLESS STEEL SADDLE ON INSULATED PIPE.	1
			24. PROVIDE STAINLESS STEEL HARDWARE ON ALL EXTERIOR VALVES.	M301
			25. PIPING MATERIAL AND IDENTIFICATION. PROVIDE TYPE L COPPER PIPING FOR DOMESTIC WATER COLD AND HOT PIPING. PROVIDE DWV TYPE PVC PIPING FOR SANITARY PIPING. SEE SPECIFICATIONS.	1 M301

SPECIFICATIONS.

- 26. PROVIDE INSULATION WITH VAPOR BARRIER AND ALL PURPOSE JACKET FOR DOMESTIC COLD WATER AND HOT WATER PIPING. PROVIDE FIBERGLASS TYPE INSULATION AND/OR PER SPECIFICATIONS.
- 28. ALL ITEMS PROJECTING THROUGH ROOF SHALL BE FLASHED AND COUNTER-FLASHED A MINIMUM OF 12" AND SHALL BE PAINTED TO MATCH ROOF COLOR. PROVIDE APPROVED SEALS AT ALL ROOF PENETRATIONS. COORDINATE WITH ARCHITECTURAL.
- 29. PROVIDE VACUUM BREAKERS AT FIXTURES WITH HOSE THREAD CONNECTIONS.
- 30. UNDER SLAB SOIL, WASTE AND VENT PIPING PASSING TO UNDERSIDE OR THROUGH FOUNDATION FOOTING, WALL OR GRADE BEAM SHALL BE PROVIDED WITH A RELIEVING ARCH OR PIPE SLEEVE TWO PIPE SIZES GREATER THAN PIPE SIZE INDICATED ON PLANS. COORDINATE FINAL PIPE ROUTING AND LAYOUT WITH STRUCTURAL DRAWINGS.
- 31. SEE RESTROOM ELEVATIONS ON ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURES' MOUNTING HEIGHT.
- 32. PRIOR TO SUBSTANTIAL COMPLETION OF NEW WORK AREAS, CONTRACTOR SHALL HAVE SANITARY PLUMBING SYSTEM CLEARED OF DEBRIS OR ANY MATTER THAT WOULD INTERFERE OR PREVENT ADEQUATE CONVEYANCE OF MATERIALS FROM MOVING THROUGH AND TERMINATING INTO BUILDING OR PUBLIC DISPOSAL FACILITIES. PROVIDE BACTERIOLOGICAL TEST FOR WATER SYSTEM.
- 33. PROVIDE TRAP PRIMERS TO ALL FLOOR DRAINS. CONNECT TP TO NEAREST POTABLE WATER WITHIN VICINITY. SEE FLP.
- 34. ALL EXPOSED PIPING AND FITTINGS EXCEPT THOSE LOCATED IN MECHANICAL AND CUSTODIAL ROOMS SHALL BE CHROME PLATED.
- 35. REFER TO DIVISION 22 SPECIFICATIONS FOR FURTHER PROJECT REQUIREMENTS OR OTHER PIPING AND INSULATION OPTIONS.

## PLUMBING LEGEND





116 N TARRAGONA STREET, PENSACOLA, FL 32502
(850) 432 9500 | CALDWELL-ASSOC.COM
Florida License No: AA26000721
Florida Interior Design License No: IB26000943

3263 COTTAGE HILL RD, MOBILE, AL 36606
Alabama License No: 3017

#### PROJECT ISSUES:

PHASE 1: 01 MAR 2022

PHASE 2: 30 MAR 2022

PHASE 3:

07 JUNE 2022

PROJECT TEAM:

ARCHITECTURAL
Caldwell Associates
STRUCTURAL
McCarthy Engineering
MECHANICAL
Anton Lee Engineering
ELECTRICAL
HG Engineers

PROJECT:

ORIOLE BEACH
ELEMENTARY - KITCHEN
RENOVATION



1260 ORIOLE BEACH RD, GULF BREEZE, FLORIDA

ENGINEER'S SEAL

PRELIMINARY.
PRELIMINARY.
FOR
TON
STRUCTION

PROJECT NO. : SHEET TITLE:

ANTON LEE

ENGINEERING

ANTON LEE ENGINEERING, LLC 1765 E. NINE MILE RD., STE. 1 #220 PENSACOLA, FL 32514

CERTIFICATE OF AUTHORIZATION: FL 32794 | AL 5685-E

FL PE# 82369 | AL PE# 37427-E PROJECT NUMBER 21-149

ANTON LEE, PE

PLUMBING LEGEND AND NOTES

SHEET NUMBER:

P001

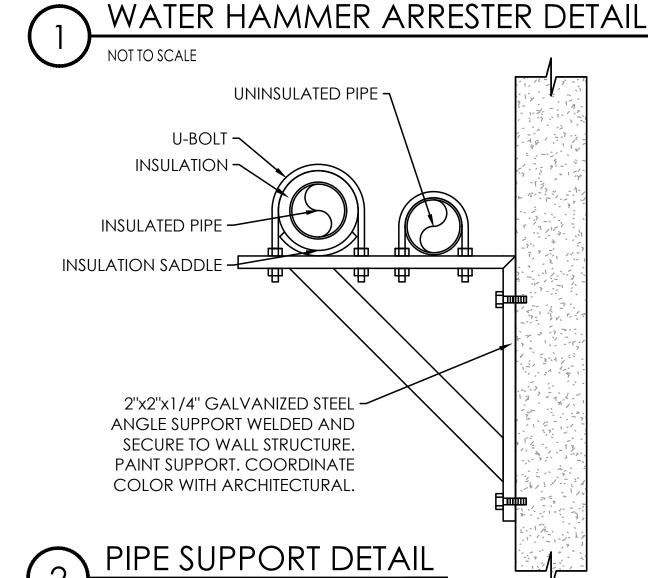
© CALDWELL ASSOCIATES ARCHITECTS, INC. 3 4 5 6 7 8 DO NOT SCALE DRAWINGS

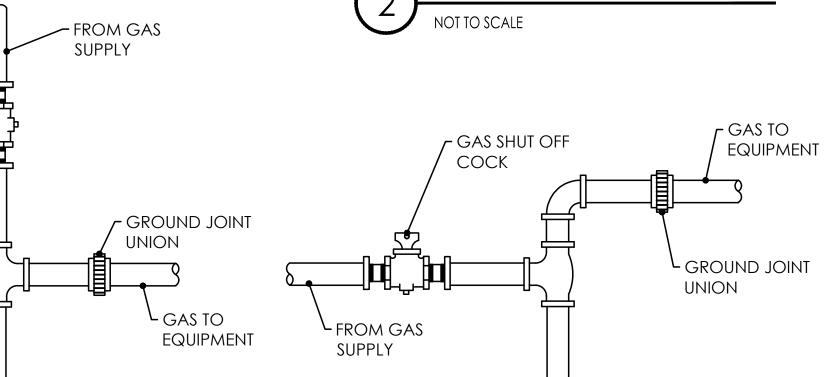
	<u> </u>	<u> </u>	<u> </u>		NNECT		FIXTURE AND EQUIPMENT SCHEDULE
		BASIS OF		SAN	DCW	DHW	
MARK	FIXTURE	MANUFACTURER	MODEL/MODEL#	(IN)	(IN)	(IN)	DESCRIPTION
P-1	WATER CLOSET	zurn	Z5655; Z6000AV	3	1	-	FLOOR MOUNTED TOILET WITH MANUAL FLUSH VALVE. WHITE VITREOUS CHINA, 1.6 GPF WITH SIPHON JET FLUSHING ACTION. ADA ELONGATED FRONT RIM, WITH 1-1/TOP SPUD. PROVIDE WITH WHITE, OPEN FRONT TOILET SEAT LESS COVER WITH STAINLESS STEEL HINGE.
P-1A	WATER CLOSET (ADA)	ZURN	Z5665; Z6000AV	3	1	-	FLOOR MOUNTED TOILET WITH MANUAL FLUSH VALVE. WHITE VITREOUS CHINA, 1.6 GPF WITH SIPHON JET FLUSHING ACTION. ADA ELONGATED FRONT RIM, WITH 1-1/TOP SPUD. PROVIDE WITH WHITE, OPEN FRONT TOILET SEAT LESS COVER WITH STAINLESS STEEL HINGE. ADA HEIGHT.
P-2	WALL HUNG SINK	KOHLER	K-2005	1 1/2	1/2	1/2	20"x 18" WHITE VITREOUS CHINA WALL MOUNT SINK. PROVIDE WITH K-8998 P-TRAP AND HANGER. MOUNT PER ARCHITECTURAL REQUIREMENTS.
Γ-Ζ	WALL HUNG SINK	T&S	B-0892	1-1/2	1/2	1/2	POLISHED CHROME PLATED BRASS BODY 4" CENTERSET DECK MOUNT MIXING FAUCET WITH 3" SWIVEL GOOSENECK, 4" WRIST ACTION HANDLES, AND A TEMPERATUI LIMIT STOP. PROVIDE WITH 0.5 GPM AERATOR.
		KOHLER	K-6710 / K-9146				WHITE, CAST IRON, FLOOR MOUNT, CORNER BASIN, ACID RESISTANT ENAMEL FINISH. PROVIDE WITH SINK RIM GUARD AND SERVICE SINK STRAINER.
P-3	Janitor Sink	T&S	B-0665-BSTR	3	1/2	1/2	8" WALL MOUNT MIXING FAUCET WITH ROUGH CHROME PLATED BRASS BODY, ROUGH CHROME PLATED BRASS SPOUT WITH VACUUM BREAKER, PAIL HOOK AND GARDEN HOSE MALE OUTLET, COMPRESSION CARTRIDGES WITH SPRING CHECKS, LEVER HANDLES, 1/2" NPT FEMALE INLETS, BUILT-IN SERVICE STOPS IN BODY AND UPPER SUPPORT ROD.
P-4	WASHING MACHINE BOX	GUY GRAY	MWB-13	2	1/2	1/2	WASHING MACHINE OUTLET BOX MADE OF 20 GAUGE STEEL. PROVIDE WITH 1/4 TURN BRASS BALL VALVES AND METAL FACEPLATE.
P-5	ICE MAKER BOX	GUY GRAY	BIM875AB	-	1/2	-	ICE MAKER BOX MADE OF 20 GAUGE STEEL. LOW LEAD, DOMESTIC VALVE, METAL FACEPLATE.
P-6	TRENCH DRAIN	ZURN	Z-895	3	-	-	STAINLESS STEEL BAR GRATE. CHANNELS SHALL BE 5' LONG, 12 WIDE, AND HAVE A 9" WIDE THROAT. MODULAR CHANNEL SECTIONS SHALL BE MADE OF 12-GA TYPE 304 SS. PROVIDE GASKET FOR FLANGED CONNECTIONS. CHANNEL SHALL BE PROVIDED WITH A 1.04% PRE-SLOPE MECHANICAL LOCKDOWN DEVICES. PROVIDE WIT NO-HUB BOTTOM OUTLET AND BOTTOM DOME STRAINER.
FS	floor Sink	ZURN	Z1901-P-2	3	-	-	12"X12"X8" DEEP CAST IRON BODY AND SQUARE SLOTTED LIGHT DUTY GRATE, WITH WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, COMPLETE WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM ALUMINUM DOME STRAINER
FD	FLOOR DRAIN	ZURN	Z415B	3	-	-	3" FLOOR DRAIN. CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS. POLISHED NICKEL BRONZE, LIGHT DUTY STRAINER. PROVIDE WITH TRAP PRIMER CONNECTION.
СО	FLOOR CLEANOUT	ZURN	ZN1400		SEE FLI	P	ADJUSTABLE FLOOR CLEANOUT WITH BOTTOM OUTLET, CLEANOUT GASKETED PLUG, ROUND TOP AND POLISHED NICKEL BRONZE TOP FINISH, SCORIATED COVER.
WCO	WALL CLEANOUT	ZURN	Z1469-ZS		SEE FLI	P	WALL CLEANOUT WITH ROUND WALL ACCESS COVER AND POLISHED STAINLESS STEEL COVER.
НВ	HOSE BIBB	WOODFORD	24	-	3/4	-	ANTI SIPHON, VACUUM BREAKER, CHROME FINISH, WHEEL HANDLE AND LOOSE TEE KEY.
WH	WALL HYDRANT	WOODFORD	B65	-	3/4	-	BOX TYPE, AUTOMATIC DRAINING WITH SINGLE CHECK VACUUM BREAKER. ASSE STANDARD 1019-B APPROVED. HARDENED STAINLESS STEEL OPERATING STEM AND ONE-PIECE VALVE PLUNGER TO CONTROL BOTH FLOW AND DRAIN FUNCTIONS. EXTERIOR FINISH TO BE CHROME PLATED. LOOSE TEE KEY TO BE FURNISHED WITH EACHYDRANT. COORDINATE WALL THICKNESS WITH ARCHITECTURAL.
MV-1	MIXING VALVE	LEONARD	TM-26-LF-E-RF	-	3/4	3/4	THERMOSTATIC WATER MIXING VALVE. ASSE 1017 CERTIFIED. PROVIDE WITH BALL VALVE WITH DIAL THERMOMETER. INTEGRAL WALL SUPPORT. 1 GPM MIN. FLOW CAPACITY.
CP-1	110F CIRCULATION PUMP	ARMSTRONG	ASTRO 250SS	-	-	3/4	LEAD FREE BRONZE PUMP CASING, 7 GPM, 25 FT, 1750 RPM, PROVIDE WITH TIMER AND AQUASTAT. 115V/1/60, 0.64A, 117W. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.
CP-2	140F CIRCULATION PUMP	ARMSTRONG	ASTRO 250SS	-	-	3/4	LEAD FREE BRONZE PUMP CASING, 7 GPM, 25 FT, 1750 RPM, PROVIDE WITH TIMER AND AQUASTAT. 115V/1/60, 0.64A, 117W. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.
GWH-1	GAS WATER HEATER	EXISTING TO REMAIN		-	1-1/2	1-1/2	EXISTING TO REMAIN.

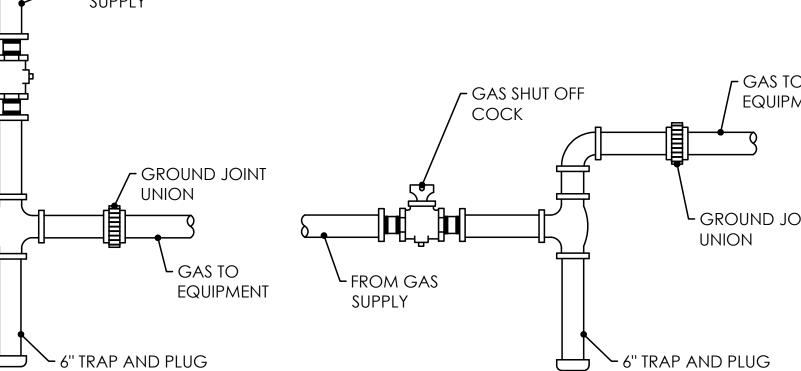
✓ WATER HAMMER **ARRESTOR**  $\longrightarrow$ 

	WA	TER HAM	MER SCHED	DULE
PIPE SIZE	SIZE	AIR CHAMBER	FIXTURE UNIT CAPACITY	WATTS MODEL #
1/2"	Α	60 PSIG	1 TO 11	LF15M2-A
3/4"	В	60 PSIG	12 TO 32	LF15M2-B
1"	С	60 PSIG	33 TO 60	LF15M2-C

WATER HAMMERS SHALL MEET ASSE 1010 AND BE SIZED PER PDI STANDARDS

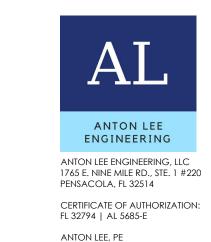






## **DETAIL 3 NOTES:**

- COORDINATE EXACT GAS SUPPLY REQUIREMENTS AS PER MFR RECOMMENDATIONS.
- 2. INSTALL SHUT OFF VALVE WITH 1/8" PLUGGED TEST PORT AND DRIP LEG BETWEEN THE GAS SUPPLY PIPE AND THE START OF THE GAS TRAIN.
- 3. THE VALVE AND TEST PORT WILL BE ACCESSIBLE FOR THE CONNECTION OF TEST GAUGE.
- 4. ALL COMPONENTS SHOWN ON THIS DETAIL SHALL BE LOCATED INSIDE THE MECHANICAL ROOM OR CLOSET
- MECHANICAL CONTRACTOR TO INSTALL AN ADDITIONAL REGULATOR, AS NEEDED. REGULATOR WILL HAVE A LISTED LIMITING DEVICE OR TO BE VENTED TO THE OUTDOOR.
- REFER TO SHEET P302 FOR DEMAND LOAD CRITERIA AND PIPE SIZING.



FL PE# 82369 | AL PE# 37427-E PROJECT NUMBER 21-149



116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017

#### PROJECT ISSUES:

PHASE 1: 01 MAR 2022

07 JUNE 2022

PHASE 2: 30 MAR 2022

PHASE 3:

PROJECT TEAM: ARCHITECTURAL Caldwell Associates STRUCTURAL McCarthy Engineering MECHANICAL Anton Lee Engineering ELECTRICAL HG Engineers

### PROJECT:

**ORIOLE BEACH ELEMENTARY - KITCHEN RENOVATION** 



1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** 

ENGINEER'S SEAL

PROJECT NO. SHEET TITLE:

> PLUMBING SCHEDULE AND DETAILS

SHEET NUMBER:

P002

GAS RISER AND EQUIPMENT GAS CONNECTION DETAIL

1. PROVIDE WITH ALL REQUIRED ACCESSORIES AND FITTINGS FOR A COMPLETE INSTALLATION.

4. PROVIDE FULL SIZE WATER AND SANITARY PIPING TO EACH FIXTURE UNLESS NOTED OTHERWISE

6. ALL EXPOSED DOMESTIC WATER AND P-TRAP BELOW SINK SHALL BE CHROME PLATED.

8. ADDITIONAL NOTE FOR ALL SERVERY AND KITCHEN FLOOR DRAIN AND FLOOR SINK -

SHUT-OFF COCK

(E)FOOTINGS

PIPE THRU WALL PIPE SLEEVE -

7. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL

NEW ESCUTCHEON AT BOTH SIDES OF WALL

NEW GAS PRESSURE -

REGULATE TO 1/2 PSI.

PLUGGED TEE W/BUSHING ~

INSULATING UNION:

AND 3/8" PLUG

ANODELESS RISER ———

GAS COCK (TYP.)

REGULATOR

2. PROVIDE WATER HAMMER ARRESTORS ON COLD AND HOT WATER SUPPLY BRANCHES. REFER TO WATER HAMMER ARRESTOR SCHEDULE.

5. PROVIDE BASIS OF DESIGN MANUFACTURER AND MODEL OR APPROVED EQUAL WITH PERFORMANCE, COMPONENTS AND TRIM OPTIONS WHICH EXCEED OR EQUAL TO BASIS OF DESIGN.

GAS WATER -

HEATER, GWH-1

COORDINATE AND PROVIDE

REPLACEMENT IS REQUIRED.

NEW WITH UTILITY COMPANY IF

L DRIP LEG & PLUG

EXISTING GAS METER.

3. REFER TO ARCHITECTURAL DRAWINGS FOR ALL PLUMBING FIXTURES' MOUNTING HEIGHT. COORDINATE WITH ADA REQUIREMENTS.

SET THE TOP 1/4" BELOW FINISH FLOOR AND PROVIDE SWEEP WITH 12" RADIUS. COORDINATE WITH ARCHITECTURAL.

© CALDWELL ASSOCIATES ARCHITECTS, INC. 3 DO NOT SCALE DRAWINGS

- SOLENOID VALVE

MAKE UP AIR -

GAS J

FURNACE,

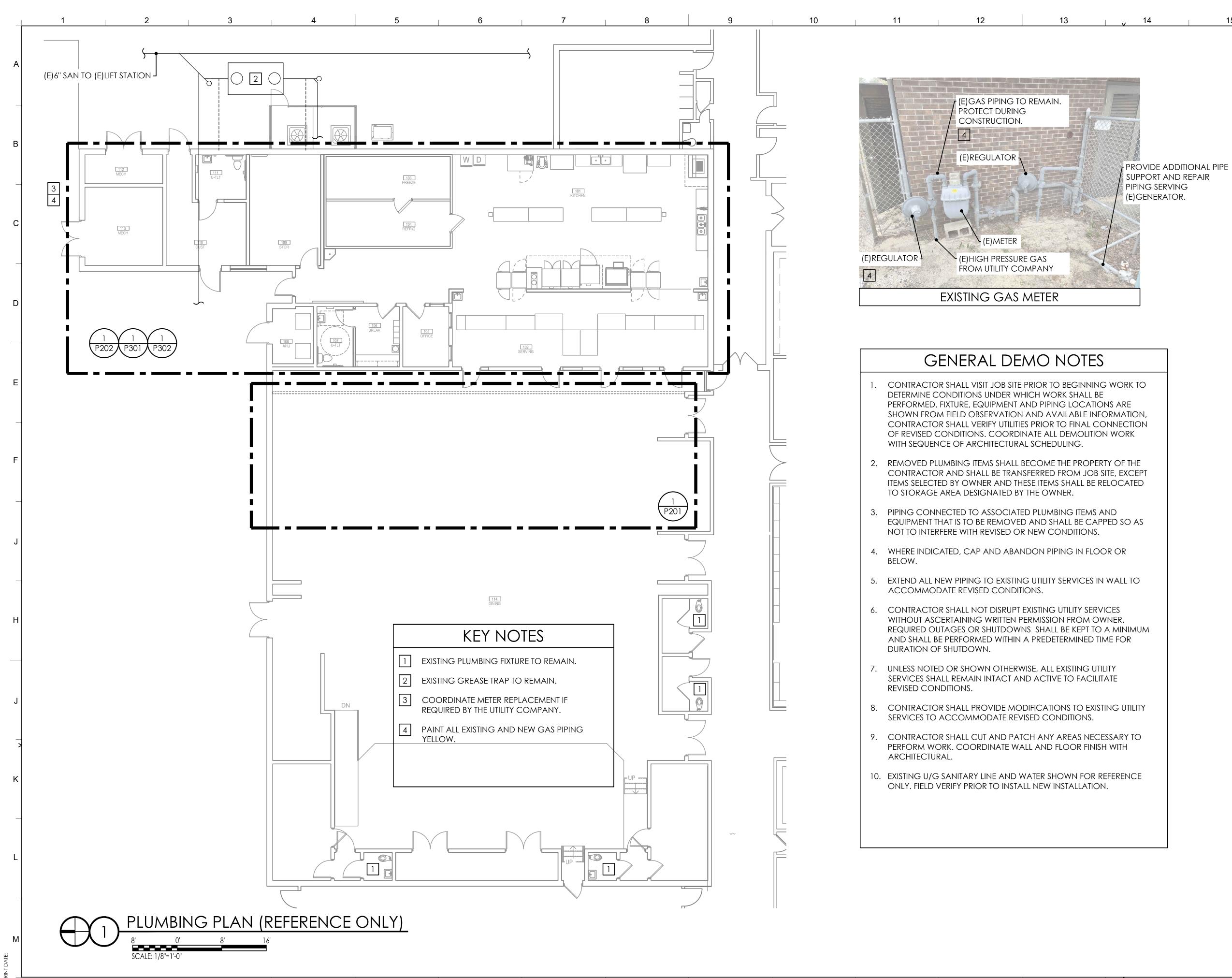
AHU-19A

**AND 19B** 

UNIT, <u>KSF-1</u>

EQUIPMENT J

**UNDER HOOD** 



© CALDWELL ASSOCIATES ARCHITECTS, INC 3



116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017

#### PROJECT ISSUES:

PHASE 1: 01 MAR 2022

30 MAR 2022 PHASE 2:

07 JUNE 2022 PHASE 3:

PROJECT TEAM:

ARCHITECTURAL Caldwell Associates **STRUCTURAL** McCarthy Engineering **MECHANICAL** Anton Lee Engineering ELECTRICAL

HG Engineers

PROJECT:

**ORIOLE BEACH ELEMENTARY - KITCHEN** RENOVATION



1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** 

ENGINEER'S SEAL

PROJECT NO.: SHEET TITLE:

> PLUMBING OVERALL PLAN

SHEET NUMBER:

P101

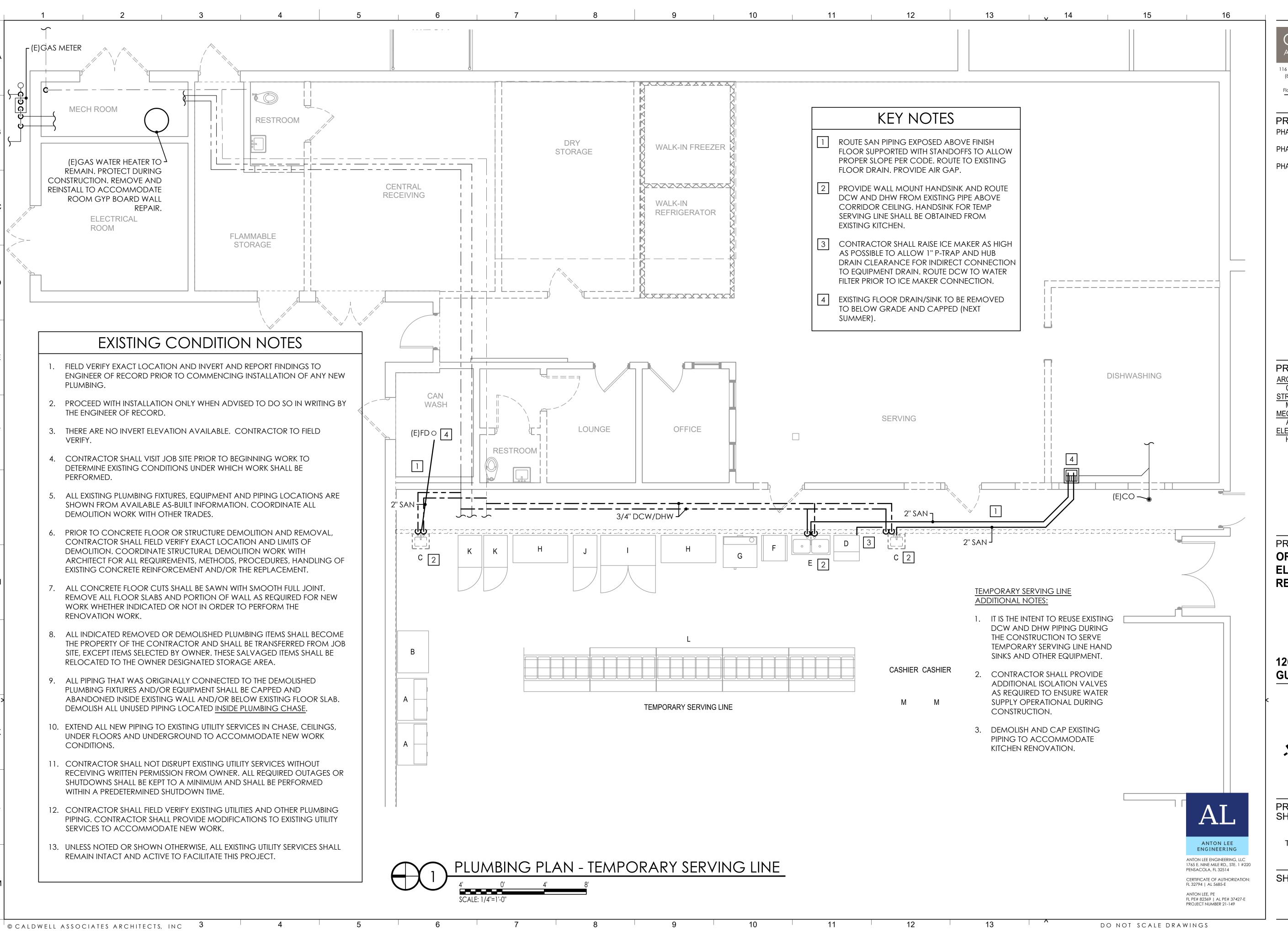
ANTON LEE

ANTON LEE ENGINEERING, LLC 1765 E. NINE MILE RD., STE. 1 #220 PENSACOLA, FL 32514

CERTIFICATE OF AUTHORIZATION: FL 32794 | AL 5685-E

FL PE# 82369 | AL PE# 37427-E PROJECT NUMBER 21-149

ANTON LEE, PE



ASSOCIATES | ARCHITE

116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606

#### PROJECT ISSUES:

01 MAR 2022 PHASE 1:

Alabama License No: 3017

PHASE 2: 30 MAR 2022

PHASE 3:

07 JUNE 2022

**PROJECT TEAM:** ARCHITECTURAL Caldwell Associates STRUCTURAL McCarthy Engineering

**MECHANICAL** Anton Lee Engineering **ELECTRICAL** HG Engineers

PROJECT:

**ORIOLE BEACH ELEMENTARY - KITCHEN** RENOVATION



1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** 

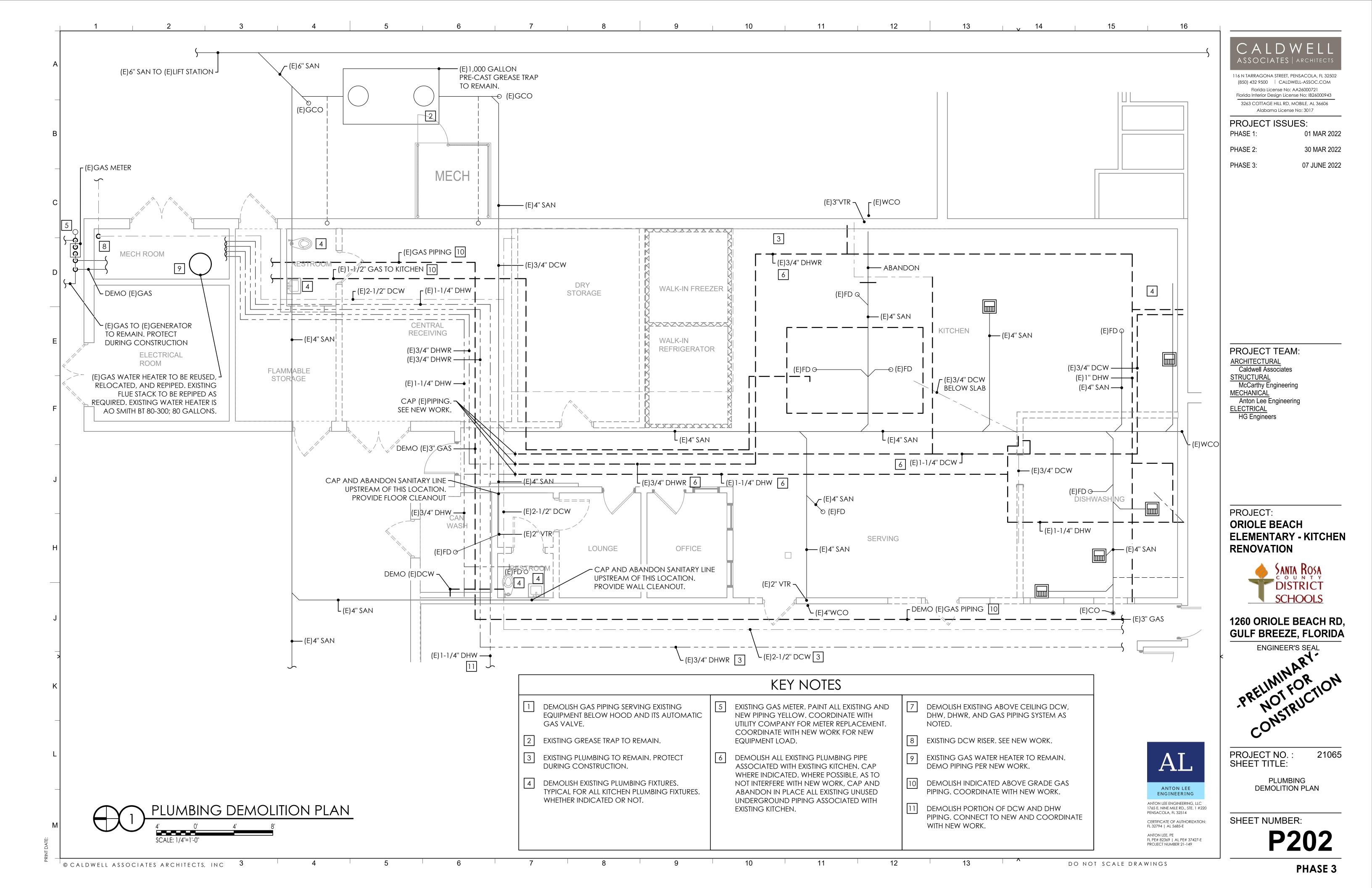
**ENGINEER'S SEAL** 

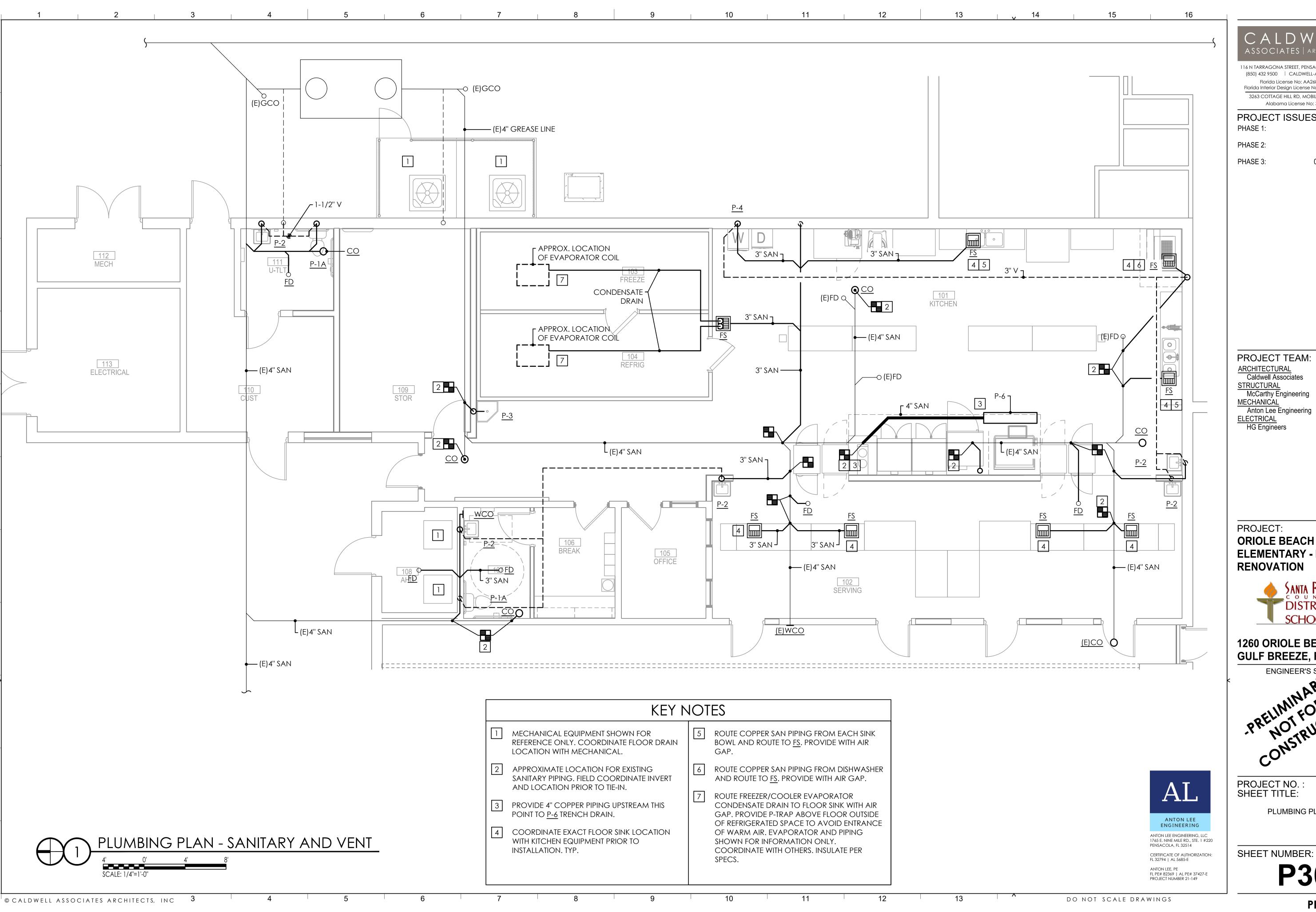
NOTFOR

PROJECT NO. : SHEET TITLE:

> PLUMBING PLAN TEMPORARY SERVIING LINE

SHEET NUMBER:





ASSOCIATES | ARCHITEC

116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606

### PROJECT ISSUES:

01 MAR 2022

07 JUNE 2022

30 MAR 2022 PHASE 2:

Alabama License No: 3017

PHASE 3:

PROJECT TEAM: ARCHITECTURAL Caldwell Associates **STRUCTURAL** McCarthy Engineering MECHANICAL Anton Lee Engineering

PROJECT:

**ORIOLE BEACH ELEMENTARY - KITCHEN RENOVATION** 



1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** 

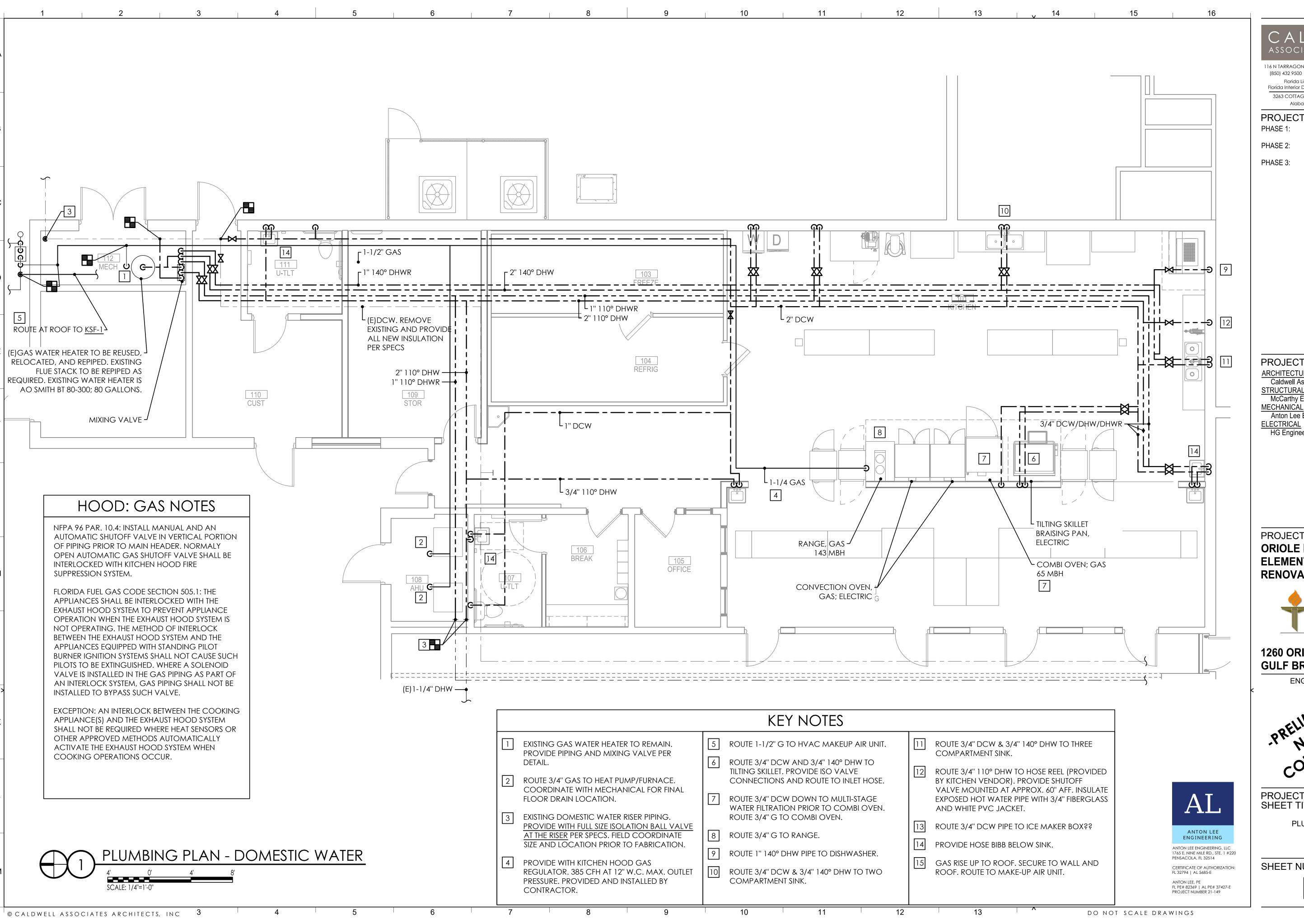
ENGINEER'S SEAL

PROJECT NO. : SHEET TITLE:

PLUMBING PLAN

P301

PHASE 3



ASSOCIATES | ARCHITE

116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017

#### **PROJECT ISSUES:**

01 MAR 2022

30 MAR 2022

PHASE 3:

07 JUNE 2022

PROJECT TEAM:

ARCHITECTURAL Caldwell Associates **STRUCTURAL** McCarthy Engineering

Anton Lee Engineering **ELECTRICAL** HG Engineers

PROJECT:

**ORIOLE BEACH ELEMENTARY - KITCHEN RENOVATION** 



1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** 

ENGINEER'S SEAL

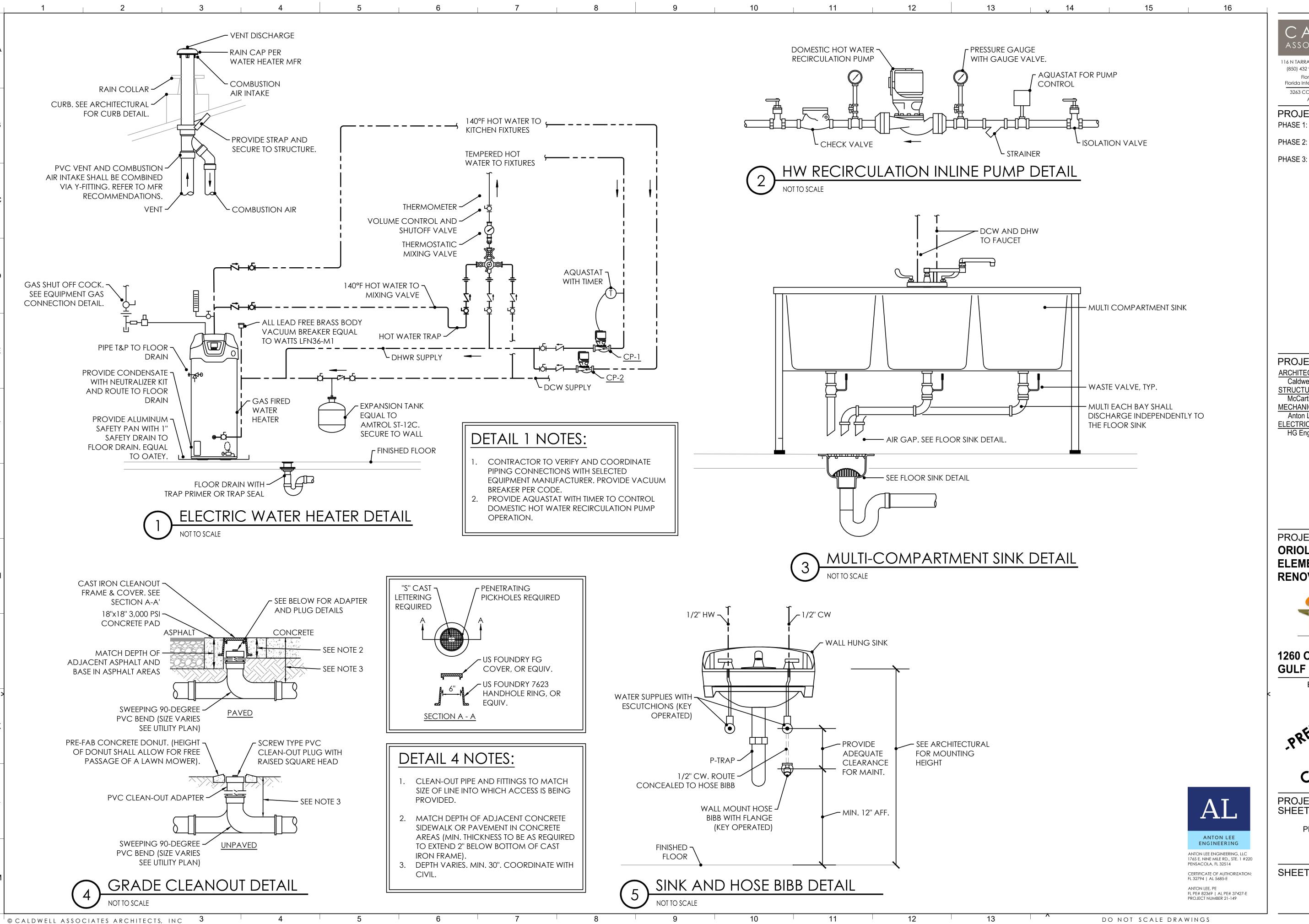
PRELIMINARY

PROJECT NO. SHEET TITLE:

PLUMBING PLAN

SHEET NUMBER:

PHASE 3



ASSOCIATES | ARCHITE

116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017

#### PROJECT ISSUES:

01 MAR 2022

07 JUNE 2022

PHASE 2: 30 MAR 2022

PHASE 3:

PROJECT TEAM: ARCHITECTURAL

Caldwell Associates **STRUCTURAL** McCarthy Engineering **MECHANICAL** Anton Lee Engineering ELECTRICAL HG Engineers

PROJECT:

**ORIOLE BEACH ELEMENTARY - KITCHEN RENOVATION** 



1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** 

ENGINEER'S SEAL

PROJECT NO. : SHEET TITLE:

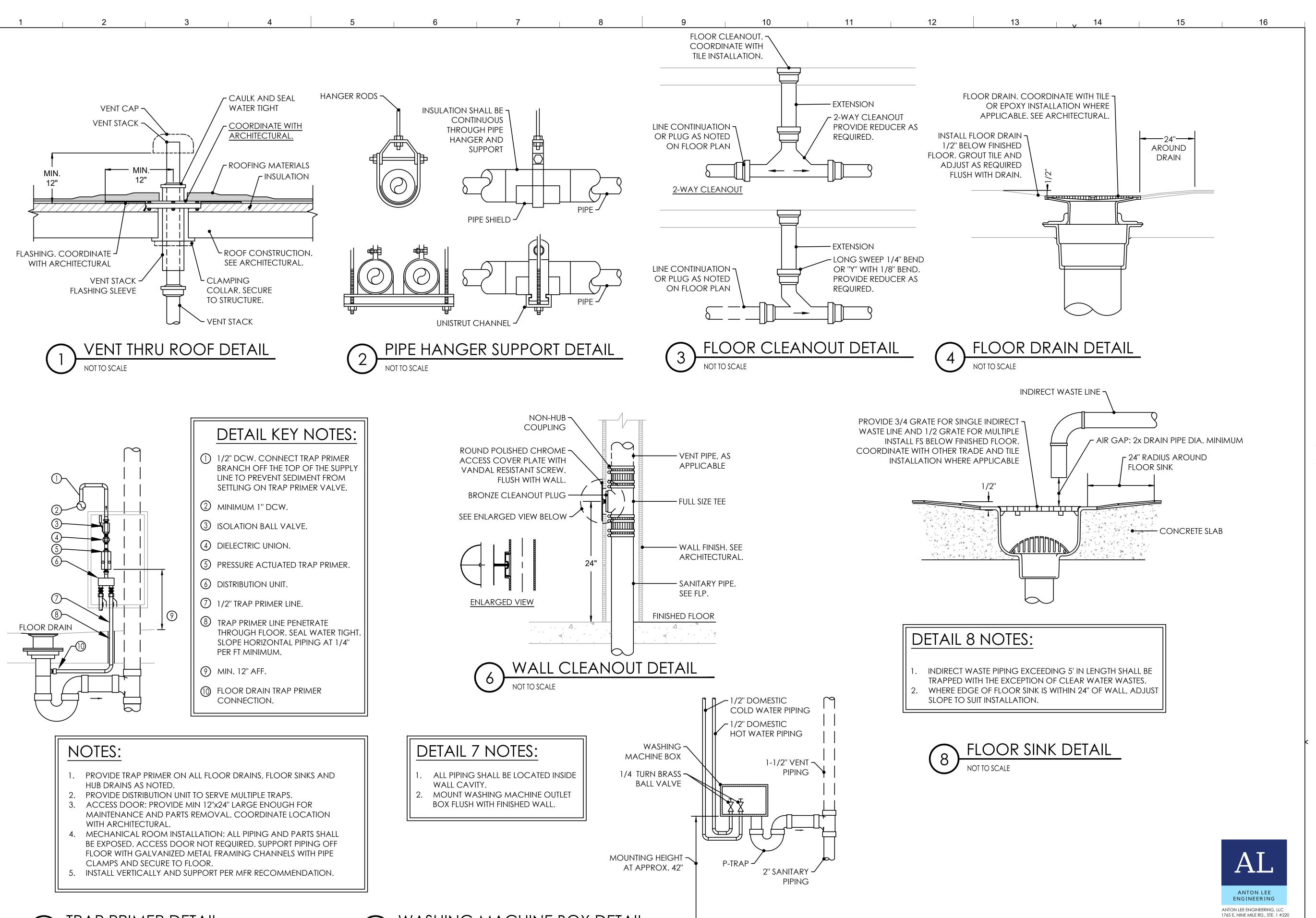
PLUMBING DETAILS

21065

SHEET NUMBER:

P501

PHASE 3



FINISHED FLOOR

WASHING MACHINE BOX DETAIL

TRAP PRIMER DETAIL

© CALDWELL ASSOCIATES ARCHITECTS, INC. 3

ASSOCIATES | ARCHITEC

116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017

#### PROJECT ISSUES:

PHASE 1: 01 MAR 2022

PHASE 2: 30 MAR 2022

PHASE 3: 07 JUNE 2022

PROJECT TEAM:

ARCHITECTURAL Caldwell Associates **STRUCTURAL** McCarthy Engineering **MECHANICAL** Anton Lee Engineering **ELECTRICAL** 

HG Engineers

PROJECT:

**ORIOLE BEACH ELEMENTARY - KITCHEN RENOVATION** 



1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA ENGINEER'S SEAL** 

21065 PROJECT NO. : SHEET TITLE:

PLUMBING DETAILS

SHEET NUMBER:

P502

DO NOT SCALE DRAWINGS

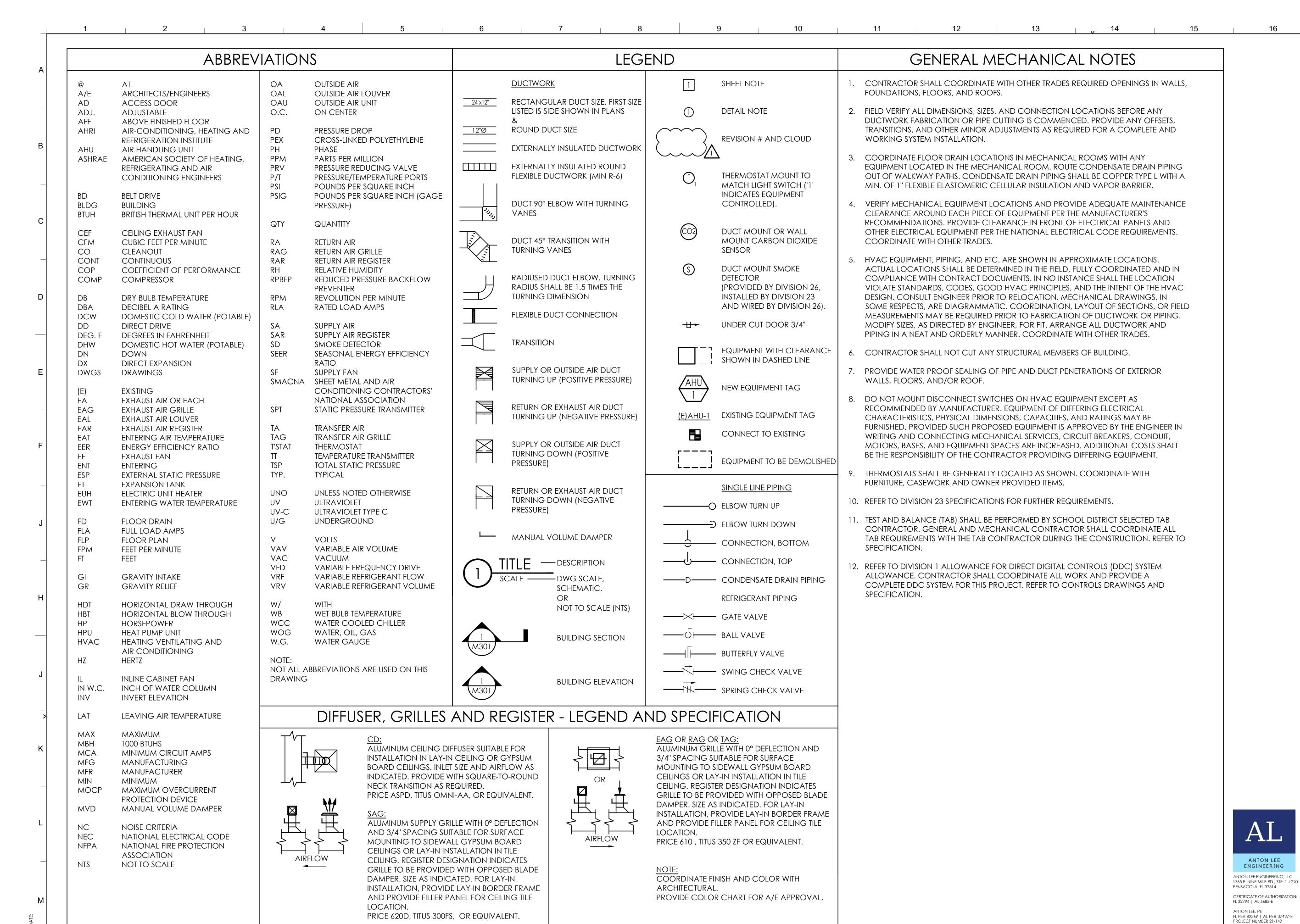
PENSACOLA, FL 32514

ANTON LEE, PE

CERTIFICATE OF AUTHORIZATION: FL 32794 | AL 5685-E

FL PE# 82369 | AL PE# 37427-E PROJECT NUMBER 21-149

PHASE 3



CALDWELL ASSOCIATES | ARCHITECTS

116 N TARRAGONA STREET, PENSACOLA, FL 32502
(850) 432 9500 | CALDWELL-ASSOC.COM
Florida License No: AA26000721
Florida Interior Design License No: IB26000943

3263 COTTAGE HILL RD, MOBILE, AL 36606
Alabama License No: 3017

#### PROJECT ISSUES:

PHASE 1: 01 MAR 2022

PHASE 2: 30 MAR 2022

07 JUNE 2022

PHASE 3:

PHASE 3:

PROJECT TEAM:

ARCHITECTURAL
Caldwell Associates
STRUCTURAL
McCarthy Engineering
MECHANICAL
Anton Lee Engineering

**ELECTRICAL** 

HG Engineers

#### PROJECT:

ORIOLE BEACH
ELEMENTARY - KITCHEN
RENOVATION



1260 ORIOLE BEACH RD, GULF BREEZE, FLORIDA

ENGINEER'S SEAL

PRELIMINARY.

PRELIMINARY.

CONSTRUCTION

CONSTRUCTION

PROJECT NO. SHEET TITLE:

MECHANICAL LEGEND

AND ABBREVIATIONS

SHEET NUMBER:

M001

© CALDWELL ASSOCIATES ARCHITECTS, INC. 3 4 5 6 7 8 DO NOT SCALE DRAWINGS

PHASE 3

#### GENERAL DEMOLITION NOTES GENERAL DUCTWORK NOTES 1. ALL NEW SUPPLY, RETURN, OUTSIDE AND EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARILY AND PERMANENT WEATHERPROOFING OF THE INSTALLATION. THE CONTRACTOR SHALL BE FULLY LIABLE SINGLE WALL METAL RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS FOR ANY WATER DAMAGE OR OTHER DAMAGE FROM THE ELEMENTS CAUSED TO THE A. PROVIDE 2" WRAP INSULATION AT ABOVE CEILING AS REQUIRED PER SPECIFICATIONS. OWNER'S PROPERTY AS A RESULT OF THE CONTRACTOR'S FAILURE TO PROVIDE THE PROVIDE 2" RIGID INSULATION FOR DUCTWORK SYSTEM AT MECHANICAL ROOMS. NECESSARY WEATHERPROOFING DURING THE COURSE OF WORK UNDER THIS CONTRACT. 2. ALL DUCTWORK CONSTRUCTION, DUCT HANGERS, AND SUPPORTS SHALL COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE" FOR METAL 2. DRAWINGS SHOWING EXISTING EQUIPMENT, FLUE STACKS, PIPING, DUCTWORK, THICKNESS', REINFORCING TYPES AND INTERVALS, TIE-ROD APPLICATIONS, AND JOINT TYPES AND INTERVALS, SUPPORT HORIZONTAL DUCTS WITHIN 24" OF EACH FLBOW AND WITHIN 48" ELECTRICAL, AND FUEL GAS PIPING CONNECTIONS ARE DIAGRAMMATIC AND ARE INTENDED ONLY TO DEPICT THE GENERAL ARRANGEMENT, APPROXIMATE SIZE, AND OF EACH BRANCH. SEE DUCT HANGER DETAILS. OVERALL PROXIMITY OF THE EXISTING SYSTEM ELEMENTS. EACH CONTRACTOR AND 3. VERIFY COLLAR SIZES ON ALL EQUIPMENT INLETS AND OUTLETS. TRANSITION DUCTWORK AS SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE OF WORK TO VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING THE CONSTRUCTION. NECESSARY. EXTERNALLY INSULATE ALL TRANSITIONS AT EQUIPMENT CONNECTIONS. 3. THE CONTRACTOR SHALL ADDITIONALLY BE RESPONSIBLE FOR MAKING ACCURATE FIELD 4. PROVIDE FLEXIBLE CONNECTIONS, AND VIBRATION ISOLATORS FOR INTERNALLY ISOLATED MEASUREMENTS OF ALL EXISTING CONDITIONS RELATING TO THE DESIGN AND UNITS. PROVIDE FLEXIBLE DUCT CONNECTORS AT ALL HVAC EQUIPMENT CONNECTIONS COMPLYING WITH UL-181, NFPA 90A, AND NFPA 90B. INSTALLATION OF NEW MECHANICAL EQUIPMENT, PIPING, DUCTWORK, ETC PRIOR TO COMMENCING WORK. PROPER SIZING OF THE PHYSICAL ASPECTS OF NEW EQUIPMENT TO MATCH EXISTING SITE CONDITIONS SHALL BE THE SOLE RESPONSIBILITY OF THE 5. THREADED DUCT TEST PORTS (VENTLOK 699 FOR UNINSULATED, VENTLOK 699-2 FOR EXTERIOR CONTRACTOR. INSULATED DUCT) SHALL BE INSTALLED WITHIN 6 INCHES OF ALL DUCT AND EQUIPMENT MOUNTED DDC AIRFLOW SENSORS, TEMPERATURE SENSORS, RH SENSORS, DEWPOINT 4. UNLESS NOTED OTHERWISE, ANY AND ALL DAMAGE TO THE EXISTING BUILDING SITE, SENSORS, PRESSURE SENSING PORTS, AND ALL LOCATIONS WHERE THE TEST, ADJUST, BALANCE EXTERIOR BUILDING FINISHES, BUILDING STRUCTURE, BUILDING SYSTEMS (MECHANICAL, CONTRACTOR MAKES A TEMPERATURE, PRESSURE, OR AIRFLOW MEASUREMENT. ELECTRICAL, ETC.), INTERIOR BUILDING FINISHES, OR BUILDING FURNISHINGS CAUSED BY THE CONTRACTOR DURING THE COURSE OF WORK UNDER THIS CONTRACT SHALL BE 6. PROVIDE HINGED AND RUBBER-GASKETED ACCESS DOORS (MINIMUM 16"x16") ADJACENT TO REPLACED AND/OR REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE ALL AUTOMATIC CONTROL DAMPERS, CO2 SENSORS, AIRFLOW MEASUREMENT STATIONS, OWNER. REPLACEMENT AND/OR REPAIR OF DAMAGED ITEMS SHALL BE MADE TO THE AND INTAKE OR EXHAUST LOUVERS / INTAKES IN THE EXTERIOR WALL OR ROOF. ACCESS DAMPERS ARE ALSO REQUIRED ADJACENT TO FIRE DAMPERS AND ON THE ENTERING SIDE OF COMPLETE SATISFACTION OF THE OWNER, AND AS A MINIMUM SHALL RETURN THE DAMAGED ITEMS TO THE CONDITION IN WHICH THEY WERE FOUND PRIOR TO THE ALL DUCT MOUNTED HEATING COILS. COMMENCEMENT OF THIS WORK. 7. REFER TO SPECIFICATIONS FOR KITCHEN HOOD EXHAUST DUCTWORK, DISHWASHER HOOD EXHAUST DUCTWORK, AND OTHER DETAILS REQUIREMENTS. 5. PLACEMENT OF EQUIPMENT AND MATERIALS REQUIRED FOR THIS WORK SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, ACCORDINGLY, THE CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF PROPER PLACEMENT MACHINERY AND EQUIPMENT. THE CONTRACTOR SHALL BE FULLY LIABLE FOR ANY DAMAGE CAUSED TO THE BUILDING OR BUILDING SITE DURING EQUIPMENT PLACEMENT OPERATIONS. THIS INCLUDES BUT IS NOT LIMITED TO DAMAGE TO SITE ITEMS SUCH AS LANDSCAPING, GRASSING, SIDEWALKS, AND EXTERIOR LIGHTING. 6. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR OUTAGES OF ELECTRICAL POWER, AIR CONDITIONING/HEATING, ETC. TO THE OWNER NOT LESS THAN 10 WORKING DAYS PRIOR TO THE DATE PLANNED FOR SUCH OUTAGES. ALL OUTAGES SHALL REQUIRE THE PRIOR WRITTEN APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE. UNLESS NOTED OR SHOWN OTHERWISE, ALL EXISTING UTILITY SERVICES SHALL REMAIN INTACT AND ACTIVE TO FACILITATE REVISED CONDITIONS. 7. PROVIDE TEMPORARY DEHUMIDIFICATION AS REQUIRED TO SATISFY SPACE RELATIVE HUMIDITY LEVEL OF 62% WHEN BUILDING HVAC IS NOT OPERABLE DURING SHUTDOWN. 8. SEE NEW WORK FOR EXTENT OF NEW EQUIPMENT AND PIPING. CARE SHALL BE TAKEN 9. INFORMATION INDICATING LOCATION OF EXISTING EQUIPMENT, DUCTWORK AND PIPING WAS OBTAINED FROM EXISTING AS BUILT DRAWINGS AND SITE VISITS AND ARE REPRESENTATIVE OF THE BEST AVAILABLE SOURCE TO DATE. 10. PRIOR TO SUBSTANTIAL, CONTRACTOR SHALL PATCH OR REPLACE ALL DAMAGED WALL, CEILING, AND FLOOR DURING CONSTRUCTION TO MATCH EXISTING. PAINT TO MATCH EXISTING. CONTRACTOR SHALL PROTECT ALL EXISTING FLOOR DURING CONSTRUCTION. 11. ALL REMOVED MECHANICAL ASSOCIATED ITEMS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE TRANSFERRED FROM JOB SITE, EXCEPT ITEMS SELECTED BY OWNER AND THESE ITEMS SHALL BE RELOCATED TO STORAGE AREA DESIGNATED BY THE SCHOOL DISTRICT. ALL DEMOLISHED ITEMS THAT INCLUDES BUT NOT LIMITED TO DIRT, DEBRIS, EQUIPMENT, ETC SHALL BE HAULED BY THE CONTRACTOR AWAY FROM THE JOBSITE. BASIS OF DESIGN & OTHER ACCEPTABLE MFR NOTES 1. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS IN CAD PER CONTRACTOR PROPOSED EQUIPMENT SELECTION AND CONFIGURATION. PROVIDE PROPOSED ELECTRICAL, PIPING, AND EQUIPMENT CONFIGURATION FOR A/E APPROVAL PRIOR TO CONSTRUCTION OR FABRICATION. PROJECT BUILDING CODE REQUIREMENTS 2. REFER TO SPEC SECTION 23050 FOR FIELD MEASUREMENTS AND SUBMITTALS: COORDINATION/SHOP DRAWINGS REQUIREMENTS. WORK SHALL COMPLY WITH THE FOLLOWING AGENCIES: 3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL UPSIZING AND PIPING MODIFICATION FROM THE BASIS OF DESIGN EQUIPMENT TO OTHER ACCEPTABLE EQUIPMENT 2020 FLORIDA BUILDING CODE WITHOUT ADDITIONAL COST TO THE OWNER. ALL REQUIRED UPSIZING COST SHALL BE 2020 FLORIDA MECHANICAL CODE INCLUDED UNDER BASE BID. 2020 FLORIDA ENERGY CONSERVATION CODE 2020 FLORIDA PLUMBING CODE MAINTAIN MINIMUM CLEAR ACCESS FOR UNIT MAINTENANCE PER MANUFACTURER'S 2020 FLORIDA FUEL GAS CODE ANTON LEE RECOMMENDATION. 2020 FLORIDA FIRE PREVENTION CODE ENGINEERING 2014 STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (SREF) ANTON LEE ENGINEERING, LLC 1765 E. NINE MILE RD., STE. 1 #220 • AMERICAN SOCIETY OF HEATING AND REFRIGERATION ENGINEERS (ASHRAE) PENSACOLA, FL 32514 AMERICAN SOCIETY OF PLUMBING ENGINEERS (ASPE) CERTIFICATE OF AUTHORIZATION: NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) ANTON LEE, PE NFPA 70 NATIONAL ELECTRICAL CODE FL PE# 82369 | AL PE# 37427-E PROJECT NUMBER 21-149 NFPA 101 LIFE SAFETY CODE

9 10 11

12

5 6 7 8

© CALDWELL ASSOCIATES ARCHITECTS, INC. 3

ASSOCIATES | ARCHITE

116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017

#### PROJECT ISSUES:

PHASE 1: 01 MAR 2022

PHASE 2: 30 MAR 2022

07 JUNE 2022

PHASE 3:

PROJECT TEAM:

ARCHITECTURAL Caldwell Associates STRUCTURAL McCarthy Engineering **MECHANICAL** Anton Lee Engineering **ELECTRICAL** HG Engineers

#### PROJECT:

**ORIOLE BEACH ELEMENTARY - KITCHEN** RENOVATION



1260 ORIOLE BEACH RD. **GULF BREEZE, FLORIDA** 

**ENGINEER'S SEAI** 

NOTFOR

PROJECT NO.: SHEET TITLE:

MECHANICAL NOTES

SHEET NUMBER:

DO NOT SCALE DRAWINGS

PHASE 3

	DESIG	N CONDIT	IONS	
	OUT	SIDE	INSIDE - OCC	CUPIED MODE
	DB (DEG. F)	WB (DEG. F)	DB (DEG. F)	RH
SUMMER	94	78	74	50%
WINTER	29	-	70	

#### **NOTES:**

- 1. INSIDE SUMMER DESIGN TEMPERATURE IS +0/-2 DEG. F.
- 2. INSIDE SUMMER DESIGN RELATIVE HUMIDITY IS + 10%.
- 3. INSIDE WINTER DESIGN TEMPERATURE IS +2/-0 DEG. F.
- 4. OUTDOOR DESIGN CONDITIONS ARE BASED ON
- ASHRAE FUNDAMENTALS WEATHER DATA FOR PENSACOLA, FL. COOLING 0.4% DB/MCWB AND HEATING 99.6% DB

											SPL	IT SYSTEM	DX UNIT	EQUIPN	NENT SCH	HEDULE													
											INDOOR	UNIT														OUTD	OOR UNIT		
	FAN DATA COOLING COIL DATA HEATING COIL DATA NATURAL GAS HEAT																												
	SA	OA			TOTAL	SENSIBLE	LATENT						TOTAL				INPUT		MIN.								1		
	AIRFLOW	AIRFLOW	EXT. S. P.	POWER	CAP.	CAP.	CAP.	EAT (DB)	EAT (WB)	LAT (DB)	LAT (WB)	ARI	CAP.	EAT (DB)	LAT (DB)	ARI	HEAT	GAS	AFUE	# OF		ELECTRICAL DATA	Λ.		СОМР	FAN	ELF	CTRICAL [	ATAC
MARK	(CFM)	(CFM)	(IN. W.C.)	(HP)	(MBH)	(MBH)	(MBH)	(DEG. F)	(DEG. F)	(DEG. F)	(DEG. F)	SEER	(MBH)	(DEG. F)	(DEG. F)	HSPF	(MBH)	(CFH)	(%)	STAGE	MCA	VOLTS PHASE	Hz	MARK	QTY	QTY	MCA V	OLTS PH	ASE H
AHU-19A	2,020	NOTE 8	0.75	3/4	59.7	45.5	14.2	72.9	60.8	52.2	50.5	15 SEER	52.6	60	84	9 HSPF	55.4	55	95%	2	11	115 1	60	HPU-19A	1	1	50.0	208	1 60
AHU-19B	2,020	NOTE 8	0.75	3/4	59.7	45.5	14.2	72.9	60.8	52.2	50.5	15 SEER	52.6	60	84	9 HSPF	55.4	55	95%	2	11	115 1	60	HPU-19B	1	1	50.0	208	1 60

- 1. UNIT EFFICIENCY RATED AT ARI STANDARD CONDITIONS. PROVIDE AHU WITH SINGLE POWER POINT CONNECTION.
- 2. REFRIGERANT R-410A PIPING SIZE, ROUTING, AND CONFIGURATION SHALL BE AS RECOMMENDED BY MANUFACTURER.
- 3. INSULATE ENTIRE LENGTH OF REFRIGERANT SUCTION LINES WITH MINIMUM 3/4" THICK UNICELLULAR INSULATION.
- 4. MOUNT ALL INDOOR UNIT ABOVE FILTER BOX EQUAL TO MCDANIEL LABOR SAVER.
- 5. PROVIDE VARIABLE VOLUME INDOOR AIR HANDLER UNIT AND 2" MERV 8 FILTER.
- 6. PROVIDE UNIT WITH LOW AMBIENT CONTROLS AND COMPRESSOR PER SPECIFICATION.

- 7. MOUNT AND SECURE OUTDOOR UNIT ON 4" THICK CONCRETE PAD.
- 8. VENTILATION IS PROVIDED VIA EXISTING DX SPLIT OUTSIDE AIR UNIT.
- 9. ROUTE 3" COMBUSTION AIR AND 3" FLUE TO EXISTING ROOF. PROVIDE MFR ROOF CAP. 10. CONNECT 1-1/2" GAS PIPE WITH ADDITIONAL REGULATOR AND DRIP LEG TO THE UNIT. COORDINATE WITH PLUMBING.

11

12

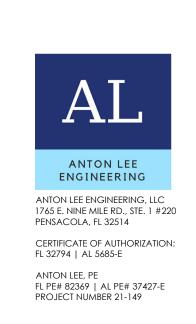
13

- 11. OUTDOOR UNIT COIL SHALL BE PROVIDED WITH SEACOAST CORROSION PROTECTION COATING.
- 12. BASIS OF DESIGN IS TRANE. INDOOR UNIT: 4TXC+S9V2C. OUTDOOR UNIT: 4TWR5060H1

OTHER ACCEPTABLE MFR IS YORK AND DAIKIN.

	SPLIT SYSTEM DX - 100% OUTSIDE AIR UNIT EQUIPMENT SCHEDULE																							
	INDOOR UNIT																							
		FAN DATA				COOLING	COIL DATA	4			ELEC	CT. STRIP HEAT	-											
	ОА											MINIMUM		]										
	AIRFLOW	EXT. S. P.	POWER	TOTAL CAP.	SENS. CAP.	LATENT CAP.	EAT (DB)	EAT (WB)	LAT (DB)	LAT (WB)	PROVIDED	CAPACITY	# OF	El	ECTRICA	AL DATA			СОМР	FAN	<u>E</u> !	LECTRIC <i>A</i>	AL DATA	
MARK	(CFM)	(IN. W.C.)	(HP)	(MBH)	(MBH)	(MBH)	(DEG. F)	(DEG. F)	(DEG. F)	(DEG. F)	(KW)	(KW)	STAGE	MCA	VOLTS	PHASE	Hz	MARK	QTY	QTY	MCA	VOLTS	PHASE	Hz
OAU-4	3,090	1.00	7.5	334.0	144.2	189.9	93.0	81.0	50.0	50.0	41	39.3	SCR	73	460	3	60	CU-4	2	3	8.1	460	3	60

- 1. UNIT EFFICIENCY RATED AT ARI STANDARD CONDITIONS.
- 2. REFRIGERANT R-410A PIPING SIZE, ROUTING, AND CONFIGURATION SHALL BE AS RECOMMENDED BY MANUFACTURER.
- 3. INSULATE ENTIRE LENGTH OF REFRIGERANT LINES WITH MINIMUM 3/4" THICK UNICELLULAR INSULATION.
- 4. PROVIDE INDOOR UNIT WITH HOT GAS REHEAT. SEE OUTSIDE AIR RESET SCHEDULE.
- 5. PROVIDE INDOOR UNIT WITH LOW LEAKAGE MOTORIZED DAMPERS AND END SWITCHES.
- INDOOR FAN SHALL NOT RUN UNLESS EITHER ONE OF THE MOTORIZED DAMPER IS FULLY OPEN.
- 6. PROVIDE INDOOR UNIT WITH SCR ELECTRIC HEAT FOR FULL MODULATION AND MERV 11 FILTER.
- 7. PROVIDE COMPRESSOR WITH HOT GAS BYPASS FOR CAPACITY MODULATION.
- 8. PROVIDE EVAPORATOR AND CONDENSER COIL WITH ANTI CORROSION COIL COATING.
- 9. MOUNT AND SECURE OUTDOOR UNIT ON 4" THICK CONCRETE PAD.
- 10. PROVIDE CONTROL PANEL INSIDE MECHANICAL ROOM WITH BACNET MSTP INTERFACE.
- 11. BASIS OF DESIGN IS DESERT AIRE QV SERIES (INDOOR) AND ROC SERIES (OUTDOOR).





116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017

#### PROJECT ISSUES:

PHASE 1: 01 MAR 2022

30 MAR 2022 PHASE 2:

07 JUNE 2022

PHASE 3:

PROJECT TEAM: ARCHITECTURAL Caldwell Associates **STRUCTURAL** McCarthy Engineering MECHANICAL Anton Lee Engineering ELECTRICAL HG Engineers

PROJECT:

**ORIOLE BEACH ELEMENTARY - KITCHEN** RENOVATION



1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** ENGINEER'S SEAL

PROJECT NO. : SHEET TITLE:

MECHANICAL SCHEDULES

SHEET NUMBER:

DO NOT SCALE DRAWINGS

## KITCHEN HOOD (KH-1) NOTES

KITCHEN VENTILATION HOOD(S) SHALL BE OF THE TYPE I, FULL COMPENSATING WALL CANOPY WITH THE CAPABILITY TO REPLACE UP TO 100% OF THE EXHAUSTED AIR WITH FRESH OUTSIDE AIR. THE HOOD(S) SHALL BE U.L. 710 LISTED WITHOUT A FIRE DAMPER FOR 400°F RATED COOKING APPLIANCES. AIR SHALL BE SUPPLIED THROUGH PERFORATED PANELS IN A MANNER THAT DOES NOT INTERFERE WITH THE COOKING OPERATIONS BENEATH THE HOOD(S). PERFORATED PANELS SHALL BE LOCATED ON THE FACE TO ENSURE PRECISE VOLUME CONTROL AND SHALL LIMIT THE THROW TO WITHIN SEVERAL FEET OF THE HOOD.

THE HOOD(S) EXTERIOR SHALL BE CONSTRUCTED OF A MINIMUM OF 18 GAUGE 300 SERIES STAINLESS STEEL. THE HOOD(S) SHALL BE CONSTRUCTED USING THE STANDING SEAM METHOD FOR OPTIMUM STRENGTH AND WITH A PERFORMANCE ENHANCING LIP (PEL) TO IMPROVE CAPTURE EFFICIENCY BY TURNING AIR BACK INTO THE HOOD. AN INTEGRAL 3 INCH AIR SPACE IS PROVIDED TO MEET NFPA® 96 CLEARANCE REQUIREMENTS AGAINST LIMITED COMBUSTIBLE WALLS. INTEGRAL 3 INCH AIR SPACE MAY BE OMITTED FOR NON-COMBUSTIBLE CONSTRUCTION. ALL SEAMS, JOINTS AND PENETRATIONS OF THE HOOD ENCLOSURE SHALL BE WELDED AND/OR LIQUID TIGHT. LIGHTER MATERIAL GAUGES, ALTERNATE MATERIAL TYPES AND FINISHES ARE NOT ACCEPTABLE. ALL UNEXPOSED INTERIOR SURFACES SHALL BE CONSTRUCTED OF A MINIMUM 18 GAUGE CORROSION RESISTANT STEEL INCLUDING, BUT NOT LIMITED TO DUCTS, PLENUM, AND BRACKETS.

THE HOOD(S) SHALL INCLUDE A FILTER HOUSING CONSTRUCTED OF THE SAME MATERIAL AS THE HOOD. THE HIGH VELOCITY STAINLESS STEEL CARTRIDGE FILTERS SHALL BE U.L. 1046 CLASSIFIED AND NSF CERTIFIED AS MANUFACTURED BY ACCUREX IN SUFFICIENT NUMBER AND SIZE TO ENSURE OPTIMUM PERFORMANCE. THE FILTER HOUSING SHALL TERMINATE IN A PITCHED, FULL LENGTH GREASE TROUGH WHICH SHALL DRAIN INTO A REMOVABLE GREASE CONTAINER. THESE FILTERS SHALL HAVE A GREASE REMOVAL EFFICIENCY OF 42% AT 8 MICRONS (21% FROM 3-10 MICRONS) AND STATIC PRESSURE DROP OF 0.7-0.8 INWC.

VAPOR PROOF, U.L. LISTED LED LIGHT FIXTURES SHALL BE PRE-WIRED TO A JUNCTION BOX LOCATED AT THE TOP OF THE HOOD FOR FIELD CONNECTION. WIRING SHALL CONFORM TO THE REQUIREMENTS OF THE NFPA $^{\rm B}$  70.

THE CANOPY HOOD(S) SHALL BE BUILT IN ACCORDANCE WITH THE NFPA® 96, IMC, UMC, AND BEAR THE NSF SEAL OF APPROVAL. THE HOOD MANUFACTURER SHALL PROVIDE, ON REQUEST, THE NECESSARY DATA THAT CONFIRMS COMPLIANCE WITH THE CODE AUTHORITIES LISTED ABOVE.

BASIS OF DESIGN IS ACCUREX.

## KITCHEN HOOD (KH-1) CONTROLS

#### SYSTEM OPERATION:

THE VARI-FLOW SEQUENCE OF OPERATION SHALL UTILIZE RESISTIVE TYPE TEMPERATURE SENSORS THAT ARE MOUNTED IN THE CAPTURE TANK OF THE HOOD TO MONITOR EXHAUST AIR TEMPERATURES.

5 6 7 8

FLUCTUATION OF EXHAUST TEMPERATURE CAUSED BY COOKING LOAD SHALL BE SENSED BY THE TEMPERATURE SENSOR AND CONVEYED TO THE CONTROLLER.

THE CONTROLLER SHALL FULLY MODULATE THE SPEED OF THE FANS VIA THE VFD OR ANALOG SIGNAL, FROM MAXIMUM SPEED DOWN TO A MINIMUM SPEED TO BE DETERMINED BY BUILDING TEST AND BALANCE.

THE SYSTEM SHALL BE CAPABLE OF SERVING AS AN IMC COMPLIANT AUTO START-UP CONTROL TO AUTOMATICALLY START THE FANS DURING COOKING OPERATIONS.

VFD(S) OR ANALOG SIGNAL(S) SHALL ALLOW MODULATION OF THE FANS BASED ON THE EXHAUST AIR TEMPERATURE SENSED BY THE TEMPERATURE SENSORS. IT MUST HAVE A FULLY MODULATING TURNDOWN OF UP TO 50% OF MAXIMUM SPEED. UPON PRESSING THE FAN 100% BUTTON, EXHAUST FAN SPEEDS SHALL GO TO MAXIMUM SPEED FOR 10 MINUTES (ADJUSTABLE), OR UNTIL THE FAN 100% BUTTON IS PRESSED AGAIN, WHICH SHALL RETURN THE SYSTEM TO FULL TEMPERATURE CONTROL.

VFDS SHALL BE YASKAWA BRAND (OR EQUIVALENT) MOUNTED IN THE UTILITY CABINET. DRIVES PROVIDE THERMAL OVERLOAD PROTECTION TO FANS AND ELIMINATE THE NEED FOR MAGNETIC STARTERS FOR 3 PHASE MOTORS.

TO ENSURE PROPER BUILDING PRESSURIZATION, THE SUPPLY FANS SHALL RESPOND TO CHANGES IN THE EXHAUST FANS SPEEDS. THE SPEED OF THE ASSOCIATED SUPPLY FAN(S) IS DETERMINED BY THE WEIGHTED AVERAGE OF THE EXHAUST FANS.

IN A FIRE CONDITION, THE CONTROL PANEL SHALL BE CAPABLE OF FORCING THE EXHAUST TO MAXIMUM SPEED, SHUTDOWN OF SUPPLY AIR, AND SHUTDOWN OF LIGHTS REGARDLESS OF CURRENT FAN SPEEDS VIA INTEGRATION WITH A FIRE SYSTEM. STANDARD VARI-FLOW CONTROLS ARE ALSO PROVIDED WITH A DIGITAL REMOTE ENABLE, FIRE SYSTEM INTERFACE, AND SHUNT TRIP BREAKER CONTROL.

PROVIDE THE FOLLOWING FEATURES MAY INCLUDE, BUT ARE NOT LIMITED

- BUILDING MANAGEMENT SYSTEM INTERFACE VIA BACNET IP OR MSTP.
   COORDINATE WITH DDC CONTRACTOR.
- SPACE STATIC PRESSURE TRANSDUCER
- AIR PROVING (SUPPLY AIR)
- AUTO TEMPERING BUTTON (SUPPLY AIR HEATING ENABLE/DISABLE)
  GAS RESET
- HIGH TEMPERATURE ALARM

## KITCHEN HOOD (KH-1) FIRE SYSTEM

9 10 11

- PROVIDE FACTORY PRE-PIPED FIRE SUPPRESSION SYSTEM WITH TANK AND FACTORY MOUNTED MANUAL PULL STATION FOR KITCHEN HOOD FIRE SUPPRESSION SYSTEM. FULL INSTALLATION SHALL INCLUDE PRE-PIPED HOOD(S) WITH DETECTION AND FACTORY COORDINATED INSTALL), CHROME SLEEVES FOR FACTORY PROVIDED APPLIANCES DROPS, METAL BLOW-OFF CAPS, GAS VALVE INCLUDED MECHANICAL SHUTOFF VALVE, 2", HOOD SUPPRESSION AGENT WITH TWO-3 GALLON TANK, AND REMOTE PULL STATION STANDARD INSTALLATION AT SINGLE POINT OF EGRESS
- 2. HOOD FIRE PROTECTION SYSTEM SHALL BE DESIGNED IN COMPLIANCE WITH UL 300 REQUIREMENTS.
  - VERIFICATION OF ALL COOKING EQUIPMENT MAKE, MODEL AND LOCATION REQUIRED FOR ALL FIRE PROTECTION SYSTEMS.
  - ALL FIRE SYSTEM PIPING IS LOCATED PER FLOOR PLAN.
  - ANSUL AUTOMAN RELEASE TO BE LOCATED WITHIN 60" OF HOOD.
- 4. THE BASIC HOOD FIRE SYSTEM SHALL INCLUDE THE FOLLOWING:
  GAS SHUT-OFF VALVE, IF REQUIRED, TO BE SUPPLIED BY
- MANUFACTURER (UP TO 2" DIAMETER AS STANDARD).
- COORDINATE WITH PLUMBING FOR FIELD INSTALLATION.
   CONTINUOUS SUPPLY LINE WITH FUSIBLE LINK DETECTION.
- MICRO SWITCH TO BE SUPPLIED BY MANUFACTURER FOR CONNECTION TO, BUT NOT LIMITED TO, BUILDING ALARM SYSTEM(S), EXHAUST AND SUPPLY FANS AND ELECTRICAL POWER SHUT DOWN. COORDINATE WITH ELECTRICAL FOR FIELD WIRING AND CONNECTIONS.
- DPDT SWITCHES PROVIDED BY MANUFACTURER SHALL BE WIRED PER LOCAL CODES AND/OR MANUFACTURER'S REQUIREMENT WHICHEVER IS MORE STRINGENT.
- PROVIDE CONNECTION TO BUILDING ALARM, COOKING EQUIPMENT SHUTDOWN AND FANS' SHUT DOWN.
- 5. BASIS OF DESIGN IS ACCUREX -WITH ANSUL R102 (WET CHEMICAL) FIRE PROTECTION SYSTEM MODEL FSSC

## KITCHEN HOOD (KH-2) NOTES

CONDENSATE HOODS SHALL BE OF THE TYPE II, EXHAUST ONLY CANOPY

THE HOOD SHALL BE CONSTRUCTED OF A MINIMUM OF 18 GAUGE 300 SERIES STAINLESS STEEL. THE HOOD SHALL BE CONSTRUCTED USING THE STANDING SEAM METHOD FOR OPTIMUM STRENGTH. ALL SEAMS, JOINTS AND PENETRATIONS OF THE HOOD ENCLOSURE SHALL BE WELDED AND/OR LIQUID TIGHT. LIGHTER MATERIAL GAUGES, ALTERNATE MATERIAL TYPES AND FINISHES ARE NOT ACCEPTABLE.

THE HOOD SHALL INCLUDE A FULL PERIMETER, WELDED, CONDENSATE COLLECTING GUTTER WITH A 0.5 INCH N.P.T. STAINLESS STEEL DRAIN FITTING.

THE CANOPY HOOD SHALL BE BUILT IN ACCORDANCE WITH THE NFPA $^{(8)}$  96, UMC, AND BEAR THE NSF SEAL OF APPROVAL.

BASIS OF DESIGN IS ACCUREX.

# ARCHITECTURAL Caldwell Associates STRUCTURAL McCarthy Engineering MECHANICAL Anton Lee Engineering ELECTRICAL HG Engineers

**PROJECT TEAM:** 

CALDWELL

ASSOCIATES | ARCHITEC

116 N TARRAGONA STREET, PENSACOLA, FL 32502

(850) 432 9500 | CALDWELL-ASSOC.COM

Florida License No: AA26000721

Florida Interior Design License No: IB26000943

3263 COTTAGE HILL RD, MOBILE, AL 36606

Alabama License No: 3017

01 MAR 2022

30 MAR 2022

07 JUNE 2022

PROJECT ISSUES:

PHASE 1:

PHASE 2:

PHASE 3:

# PROJECT:

ORIOLE BEACH
ELEMENTARY - KITCHEN
RENOVATION



1260 ORIOLE BEACH RD, GULF BREEZE, FLORIDA

ENGINEER'S SEAI

PRELIMINARY.
PRELIMINARY.
PRELIMINARY.
PRELIMINARY.

PROJECT NO.: SHEET TITLE:

MECHANICAL SCHEDULES

SHEET NUMBER:

M004

	GAS FIRED MAKE-UP AIR UNIT EQUIPMENT SCHEDULE															
		FAN DATA					GAS HEA	T								
	AIRFLOW	EXT. S. P.	POWER	TOTAL CAP.	GAS INPUT	GAS DEMAND	EAT (DB)	LAT (DB)	MIN. HEATER	THERMAL EFF.	FAN		ELEC	CTRICAL D	)ATA	
MARK	(CFM)	(IN. W.C.)	(HP)	(MBH)	(MBH	(CFH)	(DEG. F)	(DEG. F)	CONTROLS	(%)	QTY	MCA	МОСР	VOLTS	PHASE	Hz
KSF-1	3,390	0.60	2	161.8	175.9	175.9	26	70	5:1 MOD	92%	1	10	15	208	3	60

#### NOTE

- 1. DIRECT GAS FIRED HORIZONTAL OUTDOOR RATED PACKAGED UNIT WITH ALUMINUM MESH WEATHERHOOD.
- 2. DOUBLE WALL CONSTRUCTION WITH G90 GALVANIZED FINISH, 1 INCH FIBERGLASS WALL INSULATION, AND CORROSION RESISTANT FASTENERS.
- 3. PROVIDE WITH MOTORIZED OUTDOOR AIR DAMPER, ACTUATOR, AND DAMPER END SWITCH
- 4. END INLET AND BOTTOM DISCHARGE
- 5. VARIABLE VOLUME UNIT CONFIGURATION. ETL APPROVED AND FM COMPLIANT
- 6. DIRECT-DRIVE FAN TYPE MIXED FLOW PLENUM. PROVIDE WITH NEOPRENE VIBRATION ISOLATION
- 7. SUPPLY FAN MOTOR WITH ODP ENCLOSURE AND NEMA PREMIUM EFFICIENCY.
- 8. SUPPLY FAN CONTROL: VFD. VFD CONTROL: 0-10 VDC
- 9. PROVIDE WITH ELECTRONIC MODULATION BURNER CONTROL, DIRECT GAS FIRED HEATING.
- 10. PROVIDE WITH MANUFACTURERS FIRE STAT WITH HIGH AND LOW GAS PRESSURE SWITCHES.
- 11. PROVIDE WITH DISCHARGE TEMPERATURE CONTROL, FLAME ROD SENSING, AIRFLOW PROVING CONTACT, AND HEAT INLET AIR SENSOR
- 12. CAST ALUMINUM BURNER MANIFOLD WITH STAINLESS STEEL MIXING PLATES
- 13. PROVIDE WITH BACNET DDC INTERFACE AND COORDINATE WITH BUILDING DDC CONTROLS.
- 14. PROVIDE WITH FACTORY INSTALLED, LOCKABLE, NEMA 3R DISCONNECT
- 15. PROVIDE WITH 1 YEAR UNIT WARRANTY AND 10 YEAR BURNER WARRANTY.
- 16. BASIS OF DESIGN IS ACCUREX.

#### **FAN SCHEDULE** PERFORMANCE DATA ELECTRICAL DATA CONTROLS MAX. MAX. FAN CFM W.C.) TYPE DRIVE INTERLOCK RPM SONES POWER VOLTS PHASE MARK 1,725 KITCHEN HOOD 3,765 1.50 UB BD 19.4 208 KEF-1 KSF-1 DD-VFD | KITCHEN HOOD REFER TO MAKE-UP AIR UNIT SCHEDULE 208 800 1,725 9.0 1/4 HP KEF-2 UB DD DW HOOD 0.50 115 CEF DD LIGHT SWITCH EF-2 CEF DD LIGHT SWITCH 100 0.40 800 1.5 128W 115

## NOTES:

- 1. UB ROOF MOUNTED UPBLAST; KSF KITCHEN SUPPLY FILTERED; SW SIDEWALL; IL INLINE CENTRIFUGAL; DD DIRECT DRIVE
- 2. KEF-1 AND KEF-2: PROVIDE ALUMINUM HOUSING WITH S.S. FASTENERS, HIGH WIND RATED, ROOF CURB.

12

- SIZE FAN PER KITCHEN HOOD REQUIREMENTS.
- PROVIDE UL/CUL 762 LISTED "POWER VENTILATORS FOR REST. EXH. APPLIANCES.
- PROVIDE WITH SWITCH, NEMA-1, TOGGLE, SHIPPED WITH UNIT. JUNCTION BOX MOUNTED & WIRED
- 3. KEF-1: PROVIDE WITH GALVANIZED CURB EXTENSION, HINGED BASE,
- HIGH TEMP CURB SEAL RATED FOR CONT. DUTY AT 2,000 DEG F, GREASE TRAP AND HEAT BAFFLE.
- BEARINGS WITH GREASE FITTINGS, L10 LIFE OF 100,000 HRS (L50 AVG. LIFE 500,000 HRS)
- MOTOR VFD RATED WITH SHAFT GROUNDING PROTECTION
- 4. KEF-2: PROVIDE WITH HINGED CURB BASE AND FACTORY APPLIED FOAM CURB SEAL.
- PROVIDE WITH PSC MOTOR WITH SOLID STATE SPEED CONTROL.
- 5. <u>EF-1 AND EF-2</u>: PROVIDE WITH ALUMINUM HOUSING AND SOLID STATE SPEED CONTROLLER FOR AIR FLOW BALANCING, NEMA-1 SWITCH, TOGGLE ALONG WITH JUNCTION BOX MOUNTED AND WIRED. PROVIDE WITH BACKDRAFT DAMPER.
- 6. KEF-1 AND KEF-2: BASIS OF DESIGN IS ACCUREX.
- 7. <u>EF-1 AND EF-2</u>: BASIS OF DESIGN IS GREENHECK SP-B150.

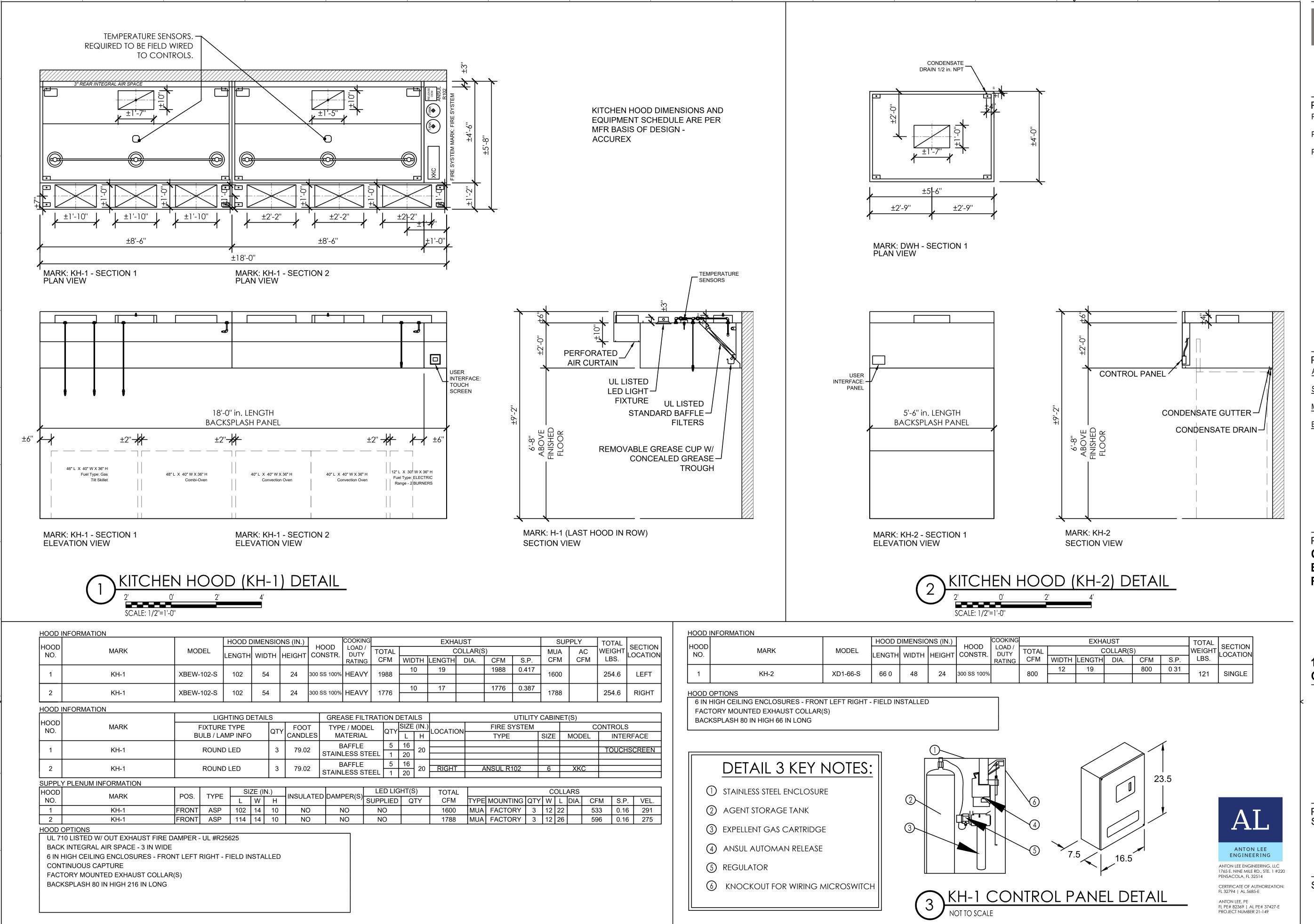
ANTON LEE ENGINEERING

ANTON LEE ENGINEERING, LLC 1765 E. NINE MILE RD., STE. 1 #220 PENSACOLA, FL 32514

CERTIFICATE OF AUTHORIZATION: FL 32794 | AL 5685-E

ANTON LEE, PE FL PE# 82369 | AL PE# 37427-E PROJECT NUMBER 21-149

© CALDWELL ASSOCIATES ARCHITECTS, INC. 3 4 5 DO NOT SCALE DRAWINGS



ASSOCIATES | ARCHITE

116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017

#### PROJECT ISSUES:

PHASE 1: 01 MAR 2022

30 MAR 2022 PHASE 2:

07 JUNE 2022

13

11

11

PHASE 3:

PROJECT TEAM: ARCHITECTURAL

Caldwell Associates **STRUCTURAL** McCarthy Engineering **MECHANICAL** 

Anton Lee Engineering **ELECTRICAL** HG Engineers

PROJECT:

**ORIOLE BEACH ELEMENTARY - KITCHEN RENOVATION** 



1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** 

ENGINEER'S SEAL

PRELIMINARY

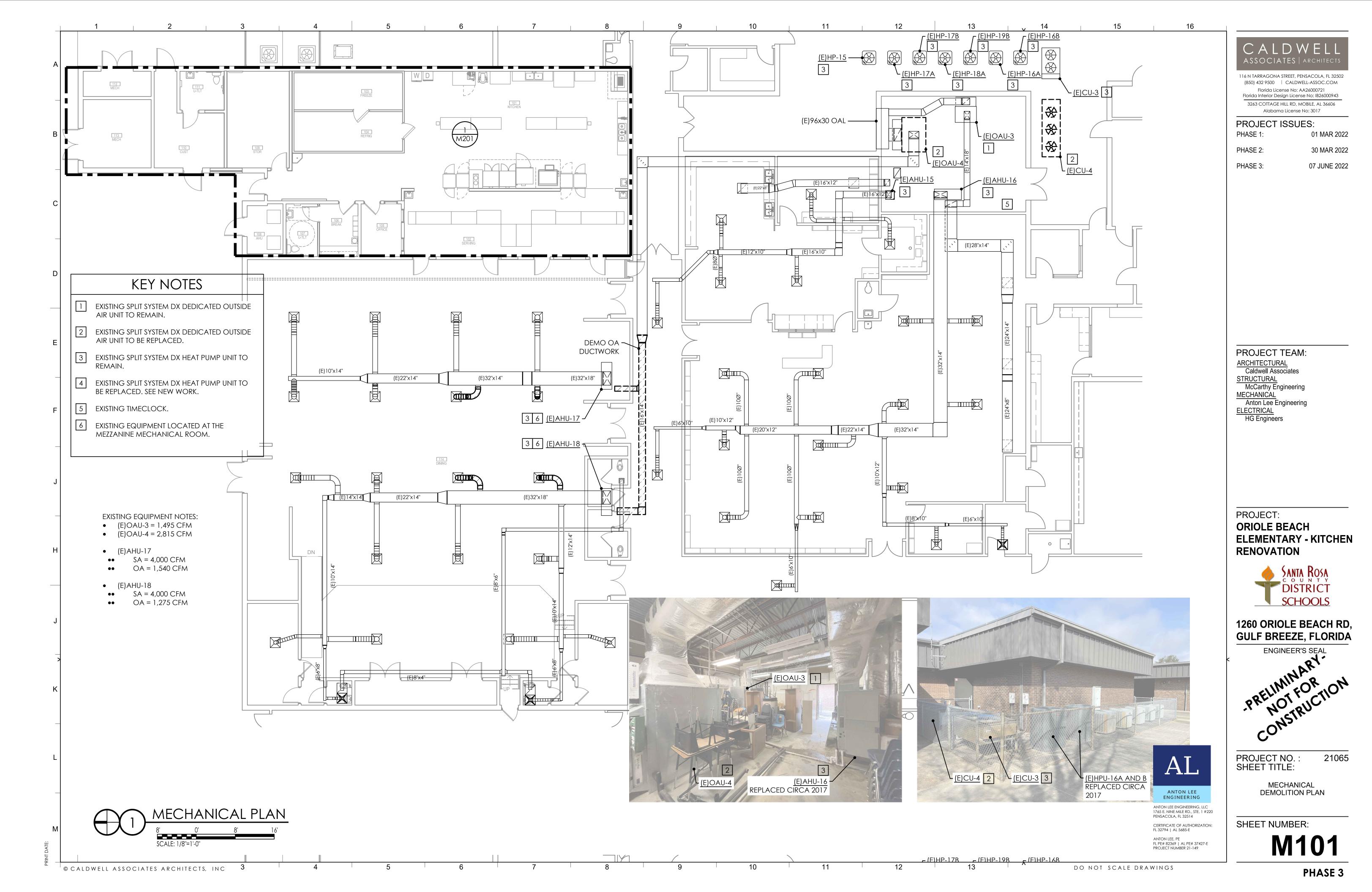
PROJECT NO.: SHEET TITLE:

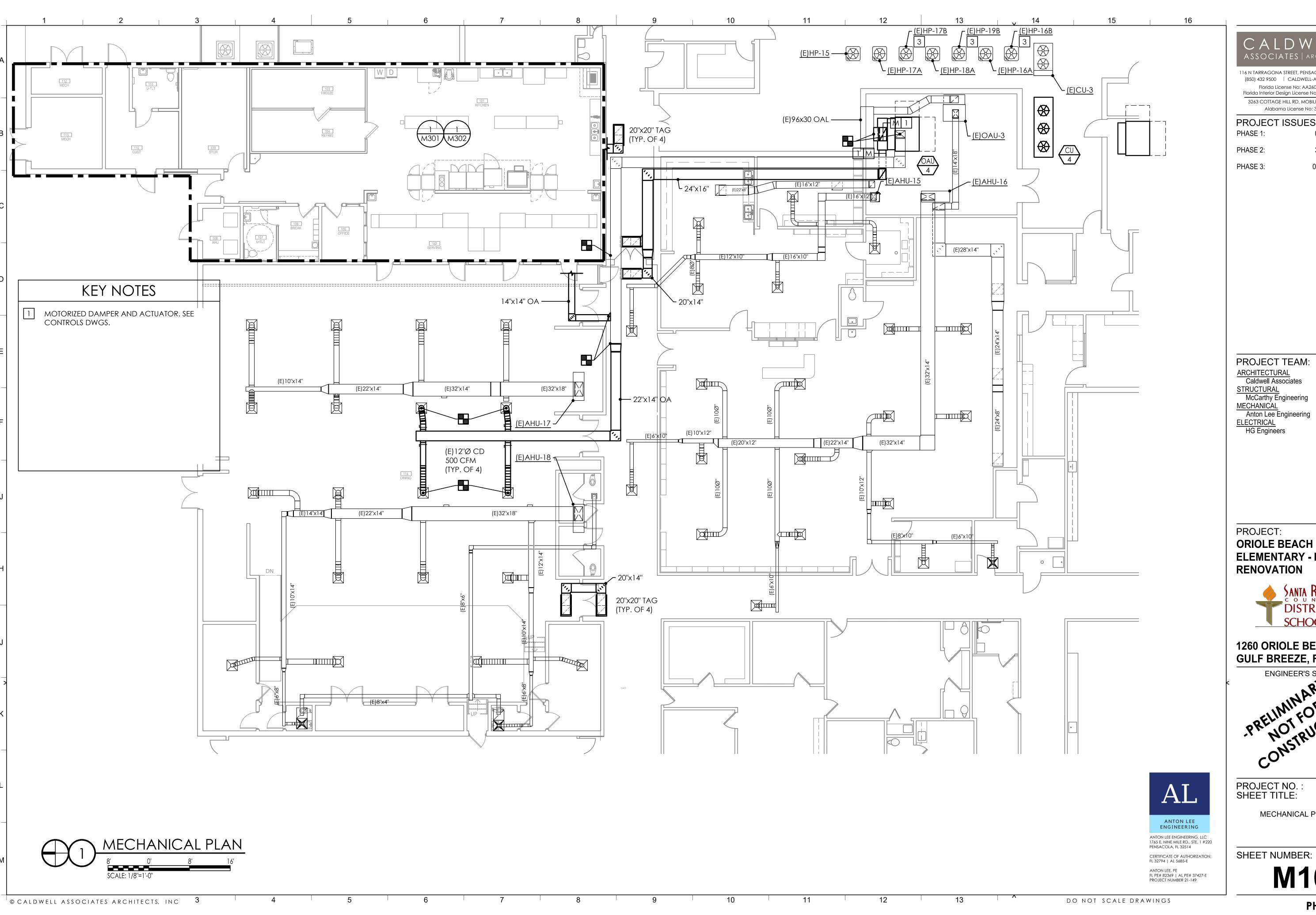
MECHANICAL SCHEDULES

SHEET NUMBER:

DO NOT SCALE DRAWINGS

PHASE 3





ASSOCIATES | ARCHITECT

116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017

#### PROJECT ISSUES:

01 MAR 2022

30 MAR 2022

PHASE 3:

07 JUNE 2022

ARCHITECTURAL Caldwell Associates

STRUCTURAL McCarthy Engineering MECHANICAL Anton Lee Engineering

HG Engineers

PROJECT:

**ORIOLE BEACH ELEMENTARY - KITCHEN RENOVATION** 



1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** 

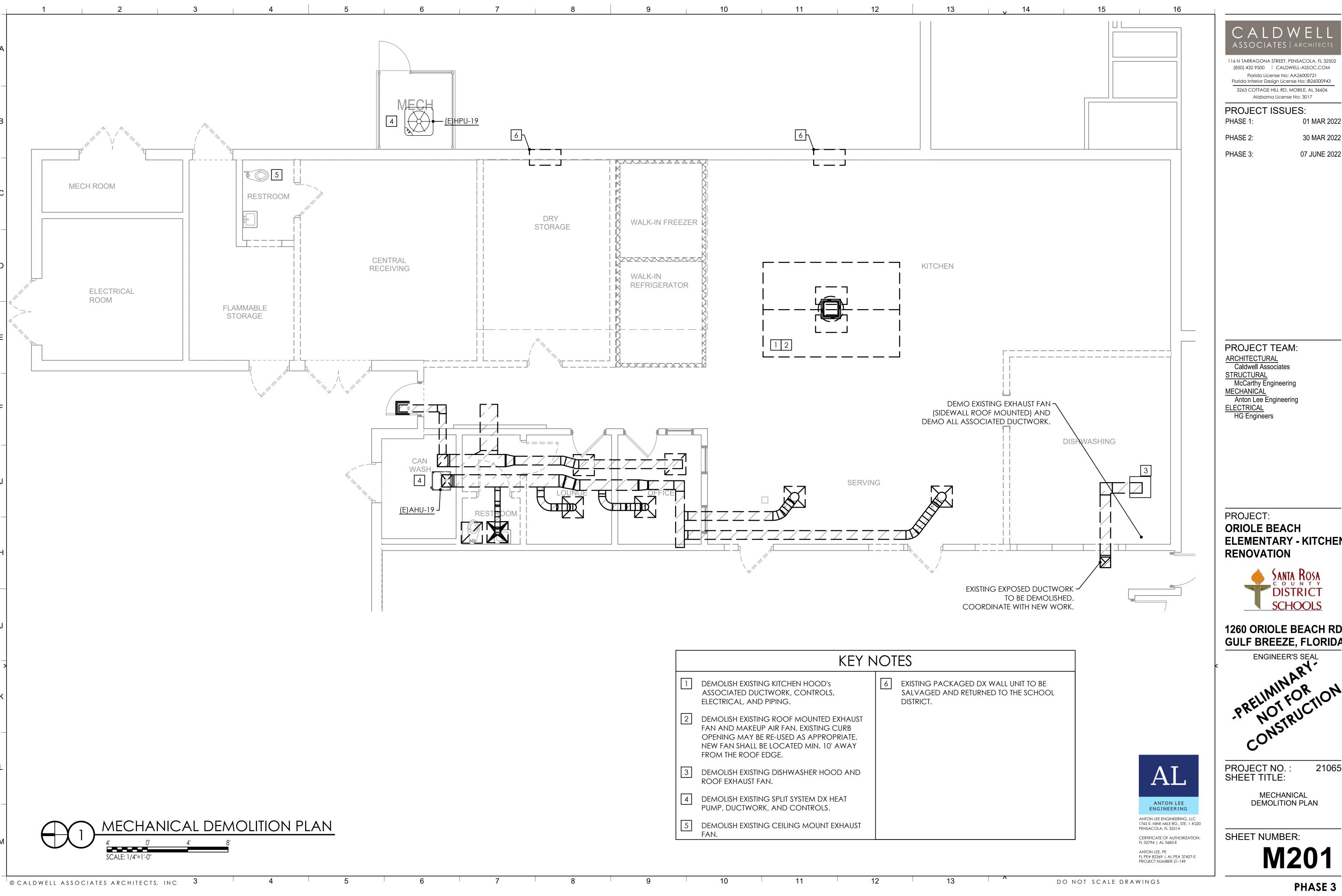
ENGINEER'S SEAL

PROJECT NO. : SHEET TITLE:

MECHANICAL PLAN

M102

PHASE 3



ASSOCIATES | ARCHITEC

(850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606

01 MAR 2022

30 MAR 2022

McCarthy Engineering

Anton Lee Engineering

**ORIOLE BEACH ELEMENTARY - KITCHEN** 

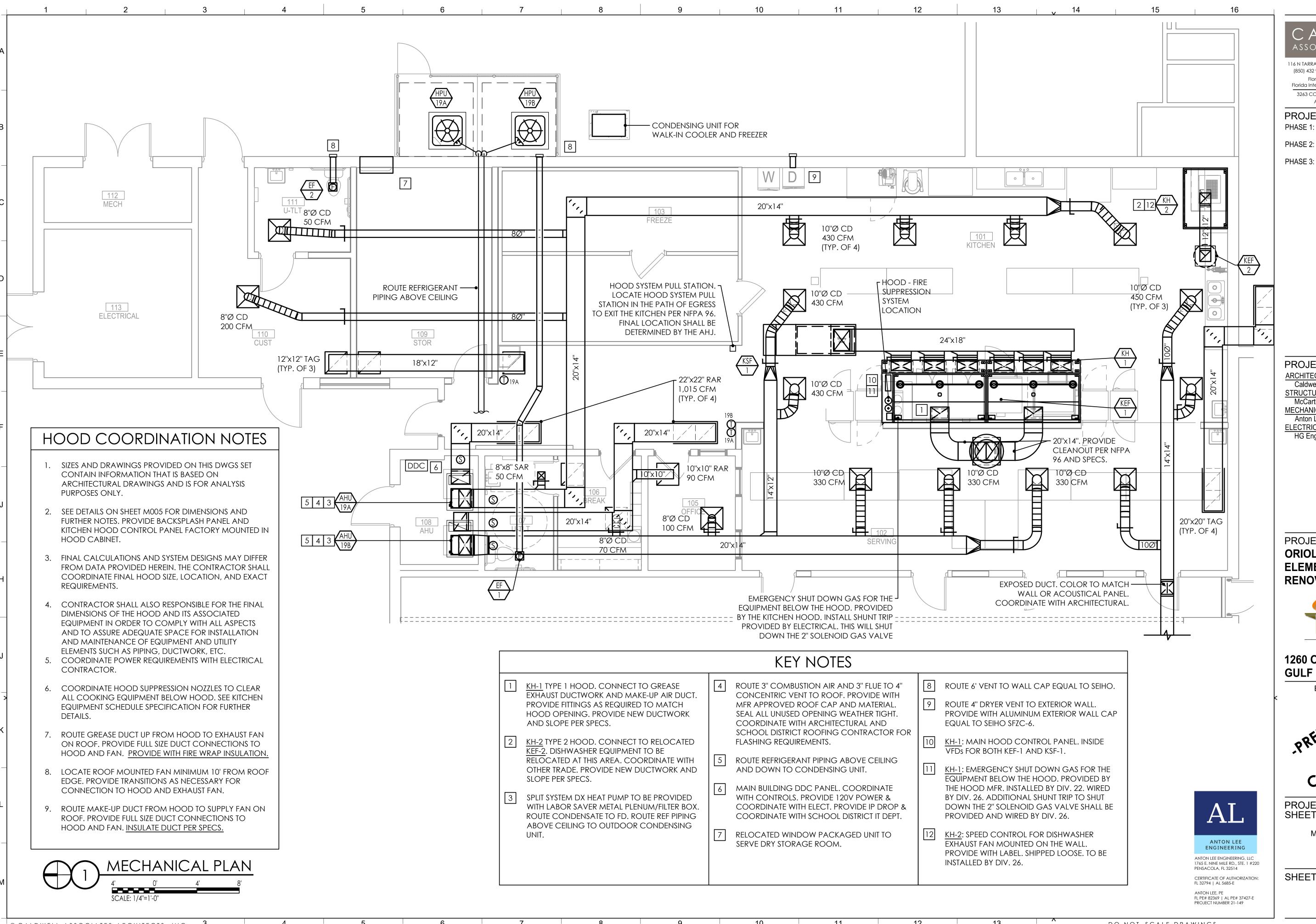


1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** 

ENGINEER'S SEAL

MECHANICAL DEMOLITION PLAN

PHASE 3



ASSOCIATES | ARCHITEC

116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606

Alabama License No: 3017

#### PROJECT ISSUES:

01 MAR 2022

30 MAR 2022

07 JUNE 2022 PHASE 3:

PROJECT TEAM:

ARCHITECTURAL Caldwell Associates STRUCTURAL McCarthy Engineering

**MECHANICAL** Anton Lee Engineering **ELECTRICAL** 

HG Engineers

### PROJECT:

**ORIOLE BEACH ELEMENTARY - KITCHEN RENOVATION** 



## 1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA**

ENGINEER'S SEAL

PRELIMINARY NOTFOR

PROJECT NO. SHEET TITLE:

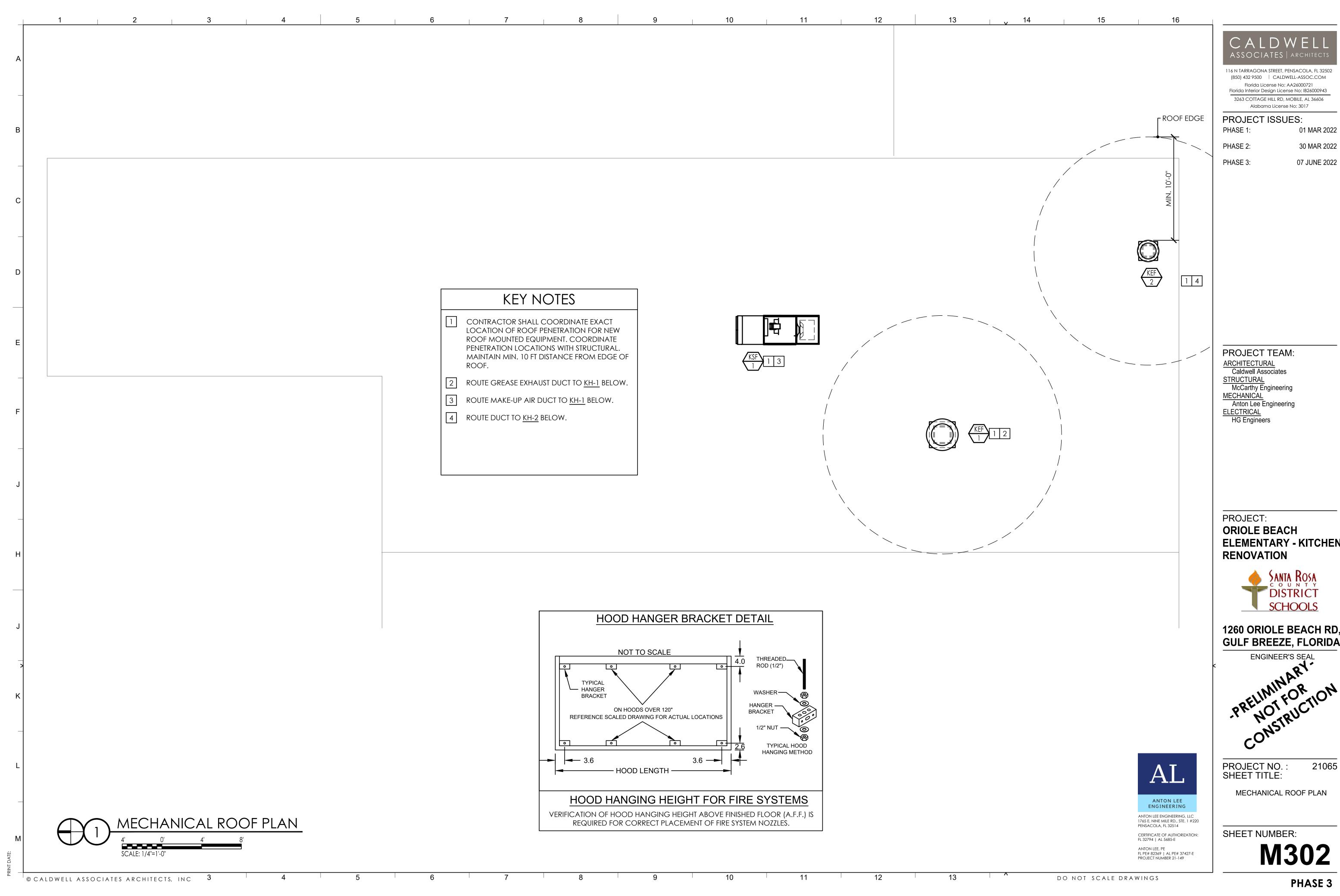
MECHANICAL PLAN

SHEET NUMBER:

DO NOT SCALE DRAWINGS

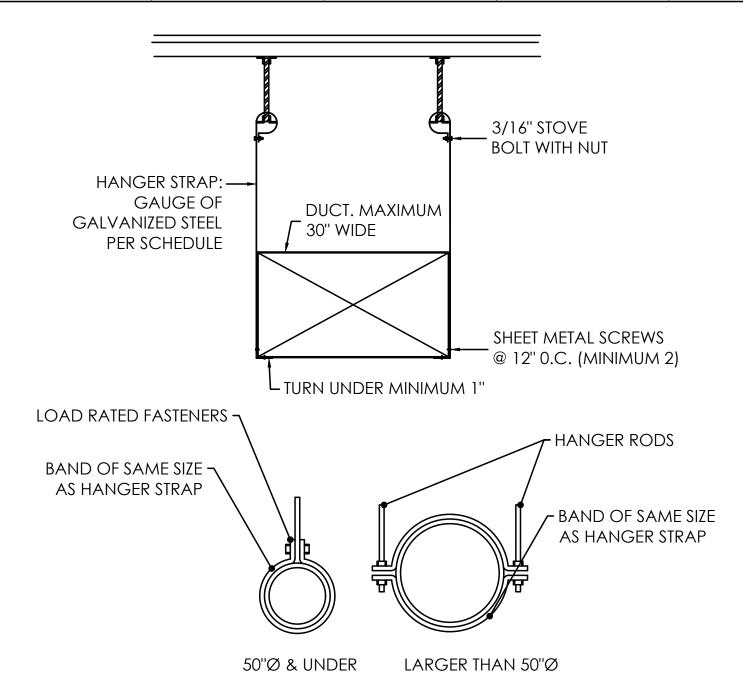
© CALDWELL ASSOCIATES ARCHITECTS, INC. 3

PHASE 3



**ELEMENTARY - KITCHEN** 

1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** 



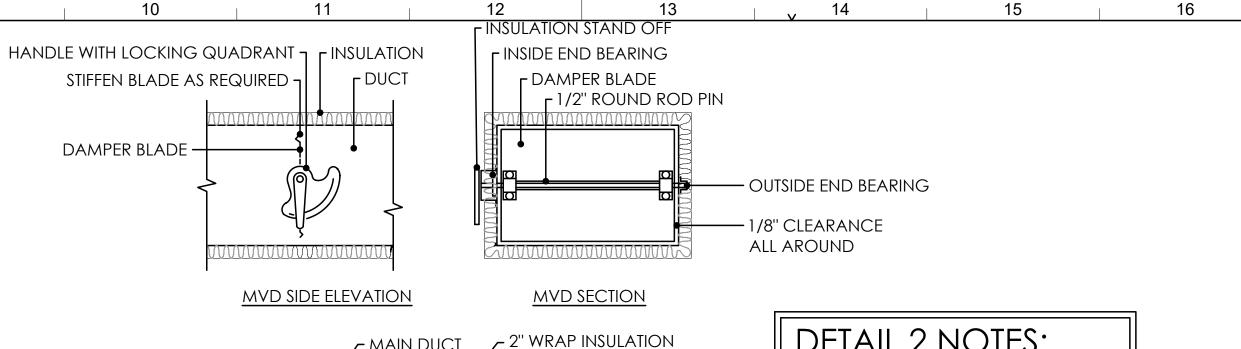
DUCT SUPPORT DETAIL

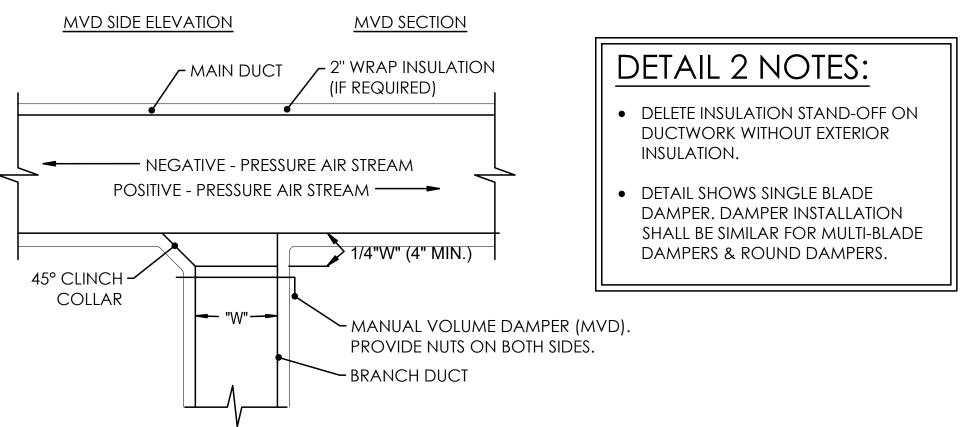
DUCT SCHEDULE								
1/2 DUCT PERIMETER(P/2)	GAUGE	HANGERS	MAX. HANGER SPACING	JOINTS				
30"	26	1"-22 GAUGE	10'-0" (TYPE 1)	FLAT "S" & DRIVE SLIP				
72"	24	1"-18 GAUGE	10'-0" (TYPE 1)	STANDING "S"				

HANGER STRAPS OR RODS								
MAX. DUCT Ø (IN)	QUANTITY/SIZE (IN)	MAX. LOAD (LBS)	MAX. SPACING (IN)					
26	ONE 1 x 22 GA STRAP	260	120					
36	ONE 1 x 18 GA STRAP	420	120					

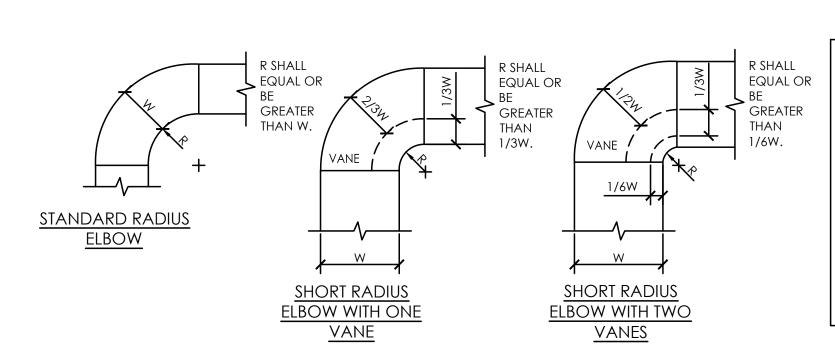
ANGLE IRON SCHEDULE							
WIDTH	ANGLE SIZE						
31" THRU 42"	1-1/2" x 1-1/2" x 1/8"						

TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.



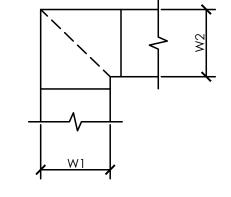


# DUCT BRANCH CONNECTION AND MVD DETAIL



## **DETAIL 3 NOTES:**

- THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
- ALL STANDARD RADIUS ELBOWS SHOWN ON FLOOR PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

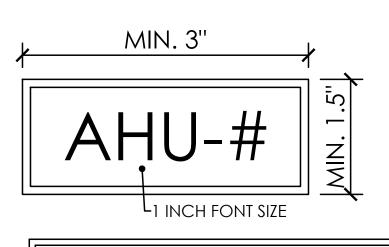


## **DETAIL 4 NOTES:**

- ALL VANED ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
- WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE VANE TYPE REGARDLESS OF W DIMENSION.
- ALL SINGLE VANES SHALL HAVE A 2" RADIUS, 1 1/2" MAXIMUM SPACE BETWEEN VANES AND A 3/4" TRAILING
- WHEN W EQUALS W2 AND W1 IS GREATER THAN 20" VANES SHALL BE DOUBLE VANE TYPE.

DUCT SMOKE DETECTOR INSTALLATION DETAIL

DUCT DETECTOR AIR



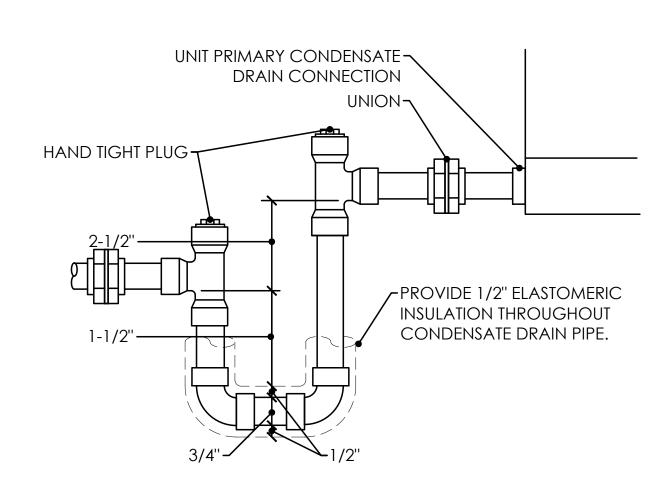
## **DETAIL 7 NOTE:**

PROVIDE PLASTIC PHENOLIC TAG WITH BLACK BACKGROUND AND WHITE TEXT. SECURE WITH MECHANICAL FASTENER AND SEAL AROUND TAG WITH SILICONE.

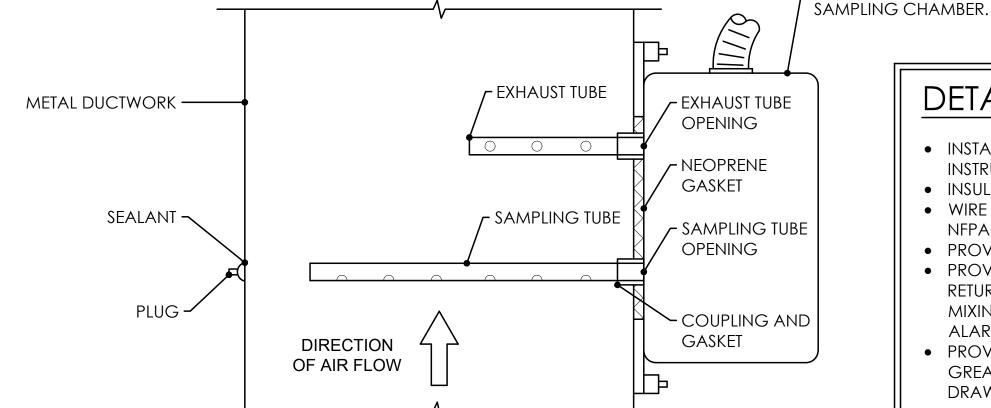






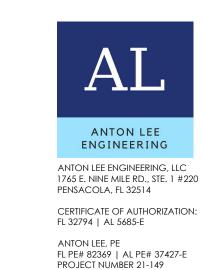


CONDENSATE DRAIN TRAP DETAIL



## **DETAIL 6 NOTES:**

- INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- INSULATION NOT SHOWN FOR CLARITY.
- WIRE SMOKE DETECTOR IN ACCORDANCE TO NFPA 72.
- PROVIDE ACCESS DOOR AT SAMPLING TUBES.
- PROVIDE SMOKE DETECTORS IN SUPPLY AND RETURN DUCTWORK PRIOR TO OUTSIDE AIR MIXING POINT. COORDINATE WITH BUILDING FIRE ALARM SYSTEM.
- PROVIDE SMOKE DETECTORS FOR ALL UNIT GREATER THAN 2,000 CFM AND/OR AS SHOWN IN DRAWINGS.





Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017

#### **PROJECT ISSUES:**

PHASE 1: 01 MAR 2022

30 MAR 2022 PHASE 2:

PHASE 3:

07 JUNE 2022

PROJECT TEAM: ARCHITECTURAL Caldwell Associates **STRUCTURAL** McCarthy Engineering **MECHANICAL** Anton Lee Engineering

ELECTRICAL

HG Engineers

PROJECT: **ORIOLE BEACH ELEMENTARY - KITCHEN** 



1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** 

ENGINEER'S SEAL

21065 PROJECT NO. SHEET TITLE:

MECHANICAL DETAILS

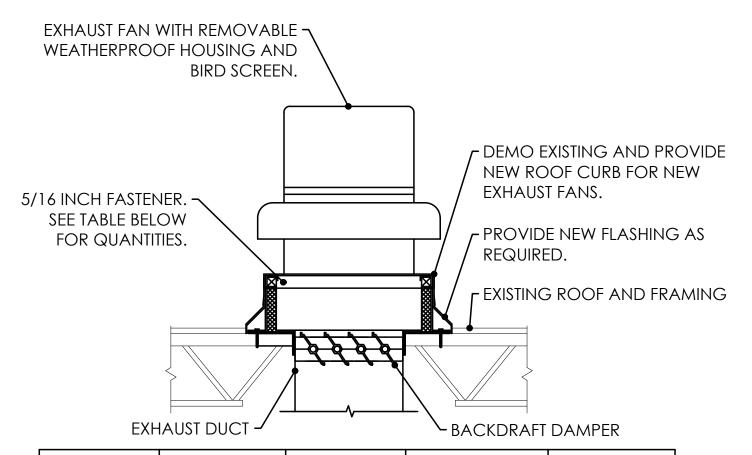
SHEET NUMBER:

M501

© CALDWELL ASSOCIATES ARCHITECTS, INC. 3

DO NOT SCALE DRAWINGS

PHASE 3



VENTILATOR SIZE	MAXIMUM ROOF OPENING	MAXIMUM WEIGHT FAN/VENTILATOR		TOTAL NUMBER OF FASTENERS
8Ø - 12Ø	14.5" x 14.5"	60 LBS	3	12
15Ø - 16Ø	18.5" x 18.5"	85 LBS	3	12
18Ø -20Ø	20.5" x 20.5"	140 LBS	5	20
24Ø	26.5" x 26.5"	160 LBS	5	20
30Ø	32.5" x 32.5"	325 LBS	5	20

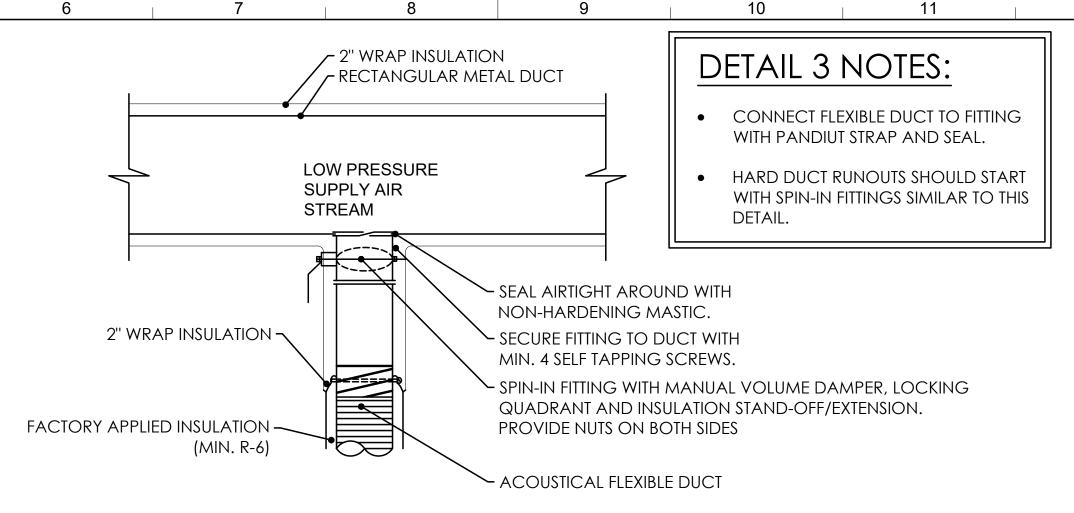
### **DETAIL 1 NOTES:**

- . ROOF CURBS SHALL BE FURNISHED BY DIVISION 23 AND INSTALLED BY ROOFING CONTRACTOR. FIELD COORDINATE ROOF CURB LOCATIONS WITH STRUCTURAL CONTRACTOR/ARCHITECT FOR STRUCTURAL SUPPORT FRAMING FOR THE CURB AND ROOF-MOUNTED EQUIPMENT.
- 2. SECURE ALL ROOF MOUNTED FANS, VENTS, AND THEIR ROOF CURBS DIRECTLY TO THE BUILDING STRUCTURE WITH ADEQUATE ATTACHMENTS AS DETAILED TO RESIST WIND PRESSURE IN ACCORDANCE WITH FLORIDA BUILDING CODE SECTION 301.13. COORDINATE ROOF CURB INSTALLATION WITH ARCHITECT TO ENSURE ALL REQUIREMENTS FOR FLASHING ARE MET.
- 3. FASTENERS ON EACH SIDE OF VENTILATOR ARE TO BE INSTALLED WITH ONE FASTENER 4 INCHES FROM EACH EDGE AND ONE FASTENER CENTERED. THE REMAINING FASTENERS SHALL BE EQUALLY SPACED.

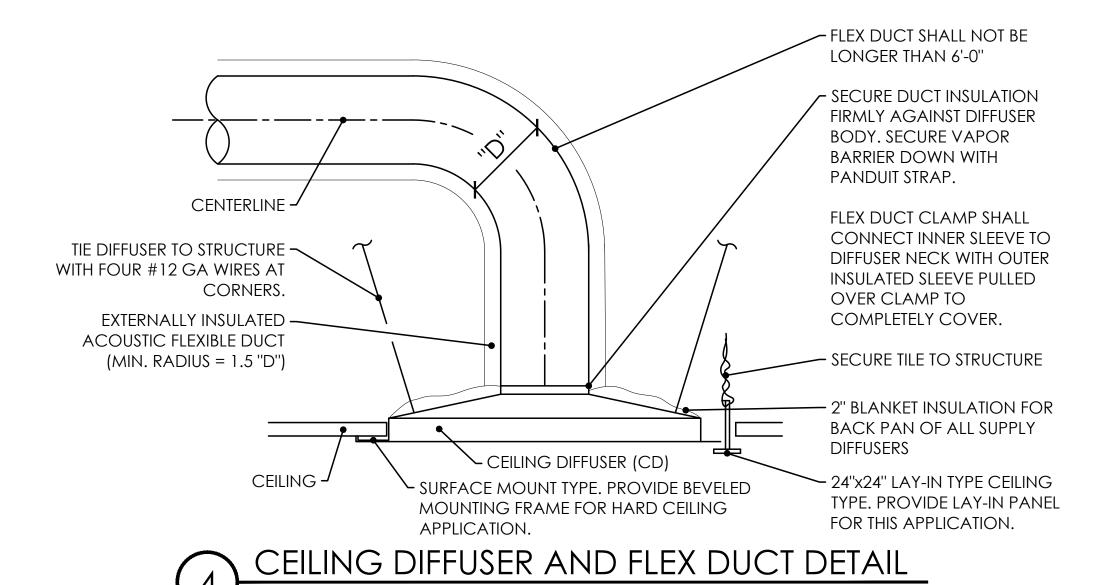


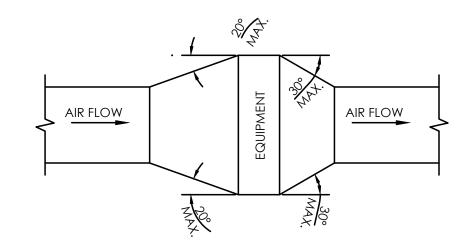
PROVIDE SHEET METAL 7

© CALDWELL ASSOCIATES ARCHITECTS, INC. 3



## ROUND DUCT BRANCH CONNECTION TO AIR DEVICE DETAIL

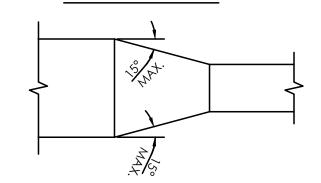




12

TYPICAL DUCTWORK TRANSITION WITH EQUIPMENT MOUNTED IN DUCT PLAN OR SIDE VIEW

14



TYPICAL DUCTWORK TRANSITION PLAN OR SIDE VIEW

## DETAIL 5 NOTE:

UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.





116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017

#### PROJECT ISSUES:

PHASE 1: 01 MAR 2022

PHASE 2: 30 MAR 2022

PHASE 3:

07 JUNE 2022

ARCHITECTURAL Caldwell Associates **STRUCTURAL** McCarthy Engineering **MECHANICAL** 

PROJECT TEAM:

Anton Lee Engineering **ELECTRICAL** HG Engineers

PROJECT: **ORIOLE BEACH** 

**ELEMENTARY - KITCHEN RENOVATION** 



1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA ENGINEER'S SEAL** 

PROJECT NO. : SHEET TITLE:

ANTON LEE

DO NOT SCALE DRAWINGS

MECHANICAL DETAILS

SHEET NUMBER:

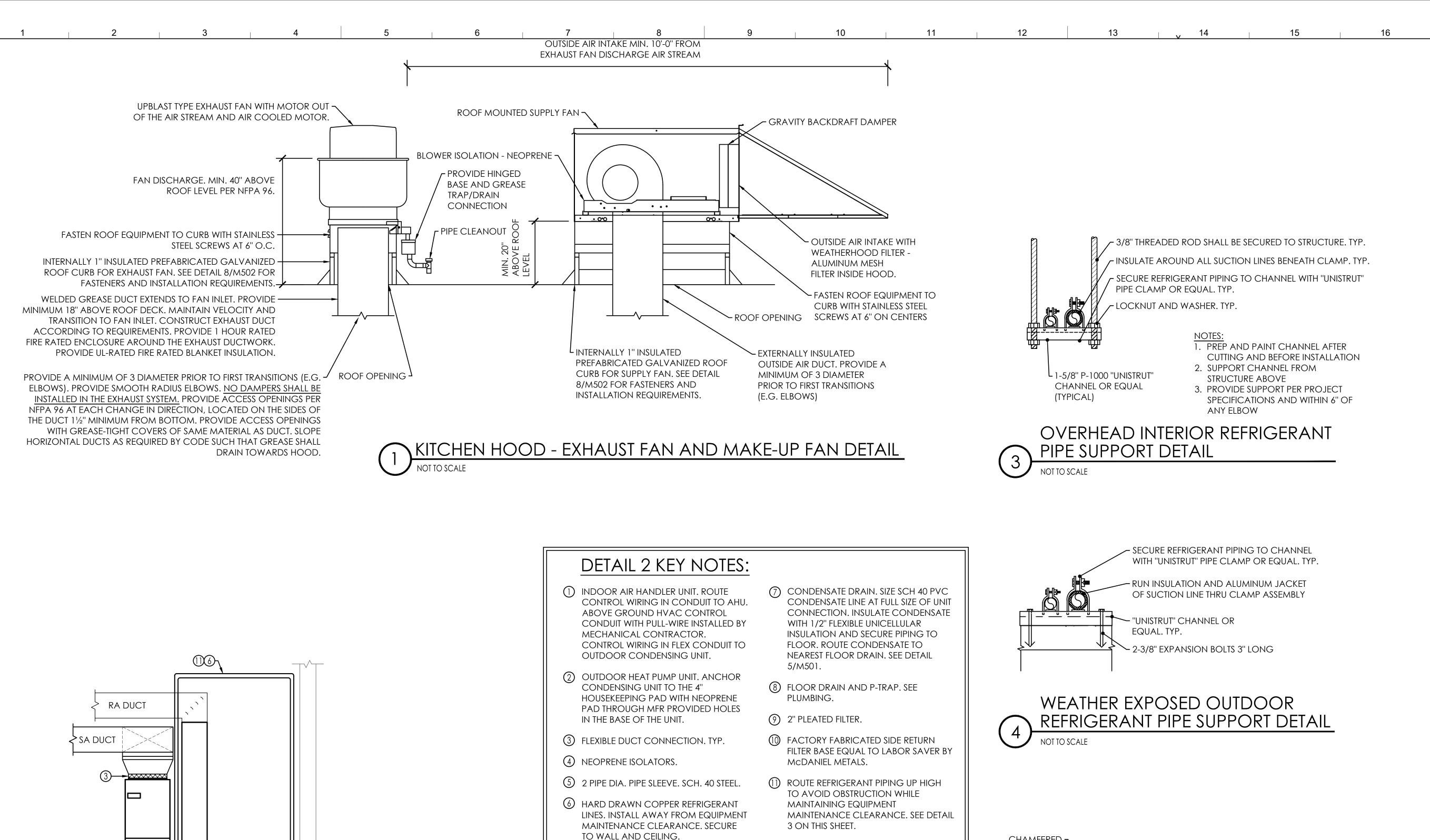
M502

SCREWS AT 8" O.C. INSULATION (1.5 PCF) - SEALANT ALL CONTINUOUS GALV. STEEL -AROUND ANGLE WITH WELDED CORNERS AND JOINTS. - INSULATION MIN. 2"x2"x14 GA. - PROVIDE 1/2" MINIMUM **CLEARANCE BETWEEN WALL** OPENING AND DUCTWORK.

- FIBERGLASS BATTS

DUCTWORK WALL PENETRATION DETAIL

ANTON LEE ENGINEERING, LLC 1765 E. NINE MILE RD., STE. 1 #220 PENSACOLA, FL 32514 CERTIFICATE OF AUTHORIZATION: FL 32794 | AL 5685-E ANTON LEE, PE FL PE# 82369 | AL PE# 37427-E PROJECT NUMBER 21-149



ASSOCIATES | ARCHITE

116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017

#### PROJECT ISSUES:

PHASE 1: 01 MAR 2022

PHASE 2: 30 MAR 2022

PHASE 3: 07 JUNE 2022

PROJECT TEAM: ARCHITECTURAL Caldwell Associates **STRUCTURAL** McCarthy Engineering **MECHANICAL** Anton Lee Engineering **ELECTRICAL** 

HG Engineers

PROJECT:

**ORIOLE BEACH ELEMENTARY - KITCHEN** RENOVATION



1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** ENGINEER'S SEAL

PROJECT NO.: SHEET TITLE:

MECHANICAL DETAILS

SHEET NUMBER: M503

HOUSEKEEPING PAD DETAIL

PROVIDE #3 BARS, 12" O.C. EACH WAY, IN THE BASE

CHAMFERED -

**EDGES** 

(12) ALL WEATHER EXPOSED INSULATION

SHALL BE JACKETED WITH ALUMINUM JACKET. SEE DETAIL 4 ON THIS SHEET.

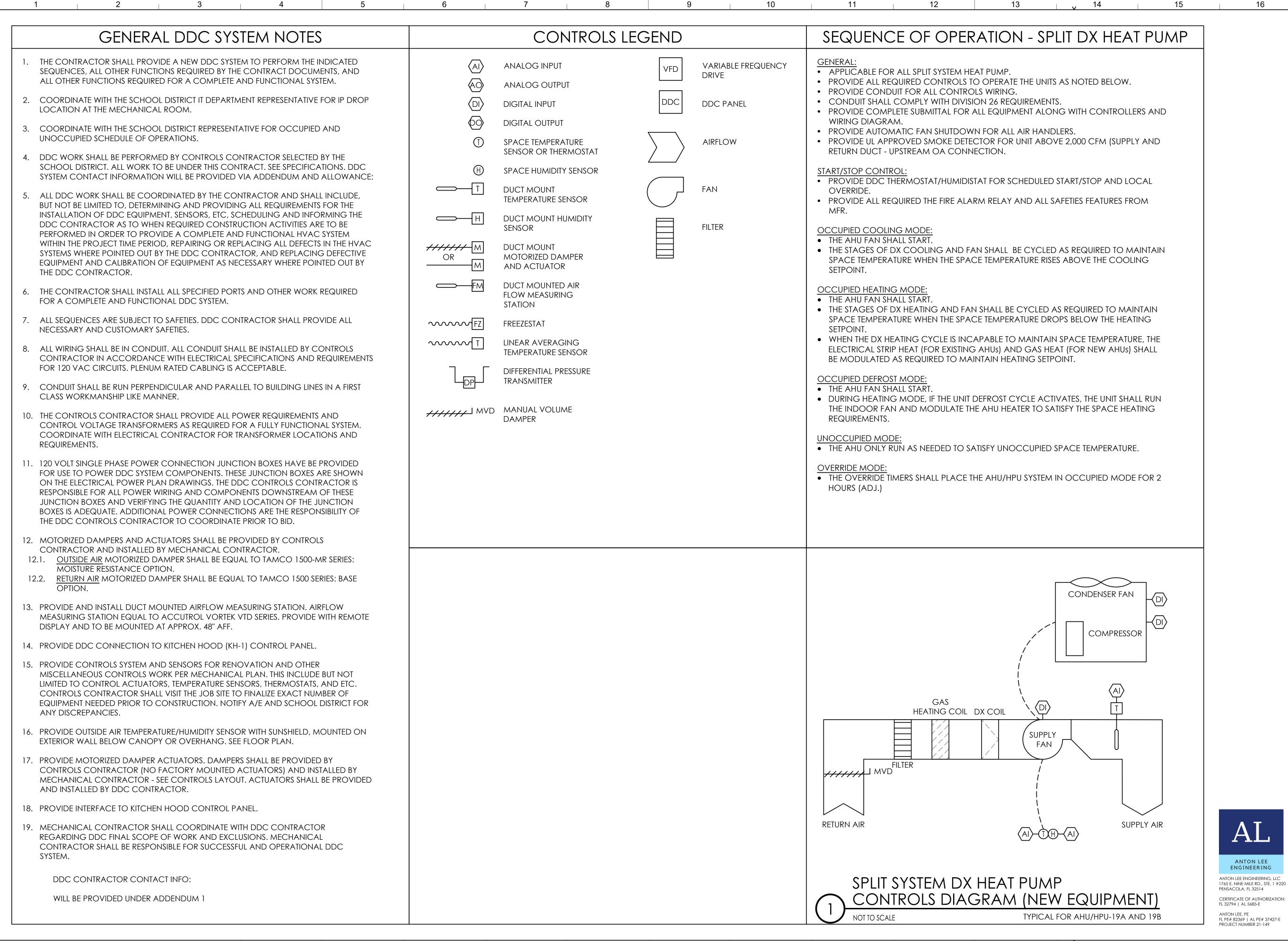
> AND DOWEL BASE TO FLOOR ANTON LEE ANTON LEE ENGINEERING, LLC 1765 E. NINE MILE RD., STE. 1 #220 PENSACOLA, FL 32514 CERTIFICATE OF AUTHORIZATION: FL 32794 | AL 5685-E ANTON LEE, PE FL PE# 82369 | AL PE# 37427-E

© CALDWELL ASSOCIATES ARCHITECTS, INC. 3 DO NOT SCALE DRAWINGS

- HOUSEKEEPING PAD

SPLIT SYSTEM DX HEAT PUMP DETAIL

PHASE 3



ASSOCIATES | ARCHITEC

116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017

#### PROJECT ISSUES:

PHASE 1: 01 MAR 2022

PHASE 2: 30 MAR 2022

PHASE 3:

07 JUNE 2022

PROJECT TEAM: **ARCHITECTURAL** Caldwell Associates **STRUCTURAL** McCarthy Engineering **MECHANICAL** Anton Lee Engineering **ELECTRICAL** 

HG Engineers

PROJECT:

ORIOLE BEACH **ELEMENTARY - KITCHEN** RENOVATION



1260 ORIOLE BEACH RD. **GULF BREEZE, FLORIDA** 

**ENGINEER'S SEAI** 

NOTFOR

PROJECT NO. SHEET TITLE:

MECHANICAL CONTROLS

SHEET NUMBER:

M601

DO NOT SCALE DRAWINGS

PHASE 3

#### DETAIL KEY NOTES

- (1) MOTORIZED DAMPER. 2 POSITION. PROVIDE WITH END SWITCHES TO BE INTERLOCKED WITH APPROPRIATE FAN ENABLE RELAY. PROVIDE WITH LOW LEAK RETURN AND OUTSIDE AIR DAMPERS EQUAL TO TAMCO SERIES 1500. DAMPERS SHALL HAVE EXTRUDED ALUMINUM FRAME AND EXTRUDED ALUMINUM AIRFOIL BLADES, EXTRUDED SILICONE BLADE SEALS,
- 2 MOTORIZED DAMPER SHALL BE OPENED DURING OCCUPIED MODE AND SHALL BE CLOSED DURING UNOCCUPIED MODE. FAIL CLOSED.
- (3) MOTORIZED DAMPER SHALL BE OPENED DURING UNOCCUPIED MODE AND SHALL BE CLOSED DURING OCCUPIED MODE, FAIL OPENED.

EXTRUDED SILICONE OR COMPRESSIBLE STAINLESS STEEL JAMB SEALS.

- (4) TEMPERATURE SENSOR. TYP.
- (5) HUMIDITY SENSOR. TYP.

TO SPACE.

DISPLAY AT DDC WORKSTATION.

- (6) DISCHARGE AIR TEMPERATURE, AVERAGING SENSOR. INSTALLED EVENLY SPACED ACROSS THE FACE OF THE COIL.
- (7) SUPPLY/LEAVING AIR TEMPERATURE SENSOR. COMBINATION DRY BULB AND DEWPOINT TEMPERATURE SENSOR, DUCT MOUNTED.

OAU FACTORY CONTROLS NOTES

OUTSIDE AIR UNIT INDEPENDENT OPERATIONS TO MAINTAIN REQUIRED DISCHARGE AIR TEMPERATURE

IT IS THE INTENT OF THE ENGINEER FOR THE OAU TO BE PROVIDED WITH FACTORY CONTROLS FOR

THE DDC CONTRACTOR SHALL PROVIDE ALL PROJECT REQUIRED TEMPERATURE AND HUMIDITY

REFER TO EQUIPMENT SCHEDULE FOR EXISTING OAU MANUFACTURER.

CONDENSER FAN

RETURN AIR

**COMPRESSOR** 

SENSORS THAT ARE NOT BEING PROVIDED BY THE OAU MANUFACTURER FOR MAINTENANCE LCD

CONDENSER FAN

**FILTER** 

AI (5)

**COMPRESSOR** 

DX COIL

**HGRH COIL** 

**SUPPLY** 

FAN

DEDICATED OUTSIDE AIR UNIT CONTROLS DIAGRAM

(8) EXHAUST FAN. PROVIDE WITH FAN STATUS, ENABLE/DISABLE AND ALARM.

#### SEQUENCE OF OPERATION - DEDICATED OUTSIDE AIR UNIT

- THIS SEQUENCE IS FOR DEDICATED 100% OA UNIT WITH RECIRCULATION MODE (OAU-1 AND)
- PROVIDE MANUFACTURER STAND ALONE CONTROL PANEL WITH BACNET IP INTERFACE CAPABILITY TO START AND STOP THE EQUIPMENT.
- PROVIDE WITH FACTORY CONTROLS. PROVIDE WITH BACNET IP DDC ON/OFF (OCCUPIED/UNOCCUPIED) COMMUNICATIONS OPTION FOR INTERFACE TO DDC SYSTEM. COORDINATE INTERFACE WITH DDC CONTRACTOR PRIOR TO SUBMITTALS. SEE SPECIFICATIONS FOR ADDITIONAL CONTROLS REQUIREMENTS.
- THE DEDICATED DX OUTSIDE AIR UNIT SHALL OPERATE ACCORDING TO THE MANUFACTURER'S STAND-ALONE CONTROLS.
- THE DDC GRAPHIC SHALL INDICATE THE POINTS FROM OUTSIDE AIR UNIT CONTROLS.
- ALL CONTROLS ACTIVATED SYSTEM SHALL BE SUBJECTED TO FIRE ALARM RELAY, SAFETIES AND OVERLOADS IN ORDER TO SATISFY EQUIPMENT MANUFACTURER'S AND CODE REQUIREMENT.

#### OCCUPIED MODE:

THE BUILDING SHALL BE CONSIDERED IN OCCUPIED MODE AS DETERMINED BY THE MASTER DISTRICT SCHEDULE FOR THE SPECIFIC SCHOOL TYPE (HIGH / MIDDLE / ELEMENTARY) AND SPACE TYPE (KITCHEN / CLASSROOM / CAFETERIA / ADMIN) UNLESS OVERRIDEN BY THE LOCAL SCHEDULE FOR THE SPECIFIC LOCATION OF THE SYSTEM (KITCHEN / CLASSROOM / CAFETERIA / ADMIN). THE OAU UNIT SHALL BE ENABLED ONLY WHEN THE ASSOCIATED BUILDING IS IN OCCUPIED MODE AND THE "ENABLE OUTSIDE AIR" PERMISSIVE POINT FOR THE OCCUPANCY TYPE SPECIFIC TO THE SYSTEM IS ENABLED.

SEQUENCE BELOW SHALL BE PROVIDED BY THE BUILDING DDC SYSTEM. PROVIDE KITCHEN AND DINING AREA WITH REMOTE TEMPERATURE AND HUMIDITY SENSORS.

#### WHEN THE OAU UNIT IS ENABLED IN OCCUPIED MODE:

- THE UNIT OUTSIDE AIR MOTORIZED DAMPER SHALL BE OPENED
- THE UNIT RECIRCULATION AIR MOTORIZED DAMPER SHALL BE CLOSED.
- THE OAU SUPPLY FAN SHALL OPERATE CONTINUOUSLY TO MAINTAIN CONSTANT AIRFLOW
- DX COMPRESSOR REFRIGERATION CYCLE AND HOT GAS REHEAT OR ELECTRIC HEATER SHALL MODULATE AS REQUIRED TO MAINTAIN CURRENT DISCHARGE AIR DEWPOINT TEMPERATURE AND DISCHARGE AIR TEMPERATURE SETPOINTS.

#### UNOCCUPIED MODE

ELECTRIC

**HEAT COIL** 

THE OAU UNIT SHALL BE ENABLED IN UNOCCUPIED MODE WHENEVER THE SPACE HUMIDITY IS GREATER THAN THE NIGHT HIGH HUMIDITY LIMIT OF 62% RH (ADJUSTABLE).

#### WHEN THE OAU UNIT IS ENABLED IN UNOCCUPIED MODE:

THE UNIT OUTSIDE AIR MOTORIZED DAMPER SHALL BE CLOSED.

TYPICAL FOR OAU/CU-4

- THE UNIT RECIRCULATION AIR MOTORIZED DAMPER SHALL BE OPENED.
- THE OAU SUPPLY FAN SHALL BE ENERGIZED.
- DX COMPRESSOR REFRIGERATION CYCLE AND HOT GAS REHEAT OR ELECTRIC HEATER SHALL MODULATE AS REQUIRED TO MAINTAIN CURRENT DISCHARGE AIR DEWPOINT TEMPERATURE AND DISCHARGE AIR TEMPERATURE SETPOINTS.

WHILE OPERATING IN UNOCCUPIED MODE THE OAU UNIT SHALL BE DISABLED WHEN THE SPACE HUMIDITY VALUES ARE 7% RH BELOW THE NIGHT HIGH HUMIDITY LIMIT.

#### SUPPLY SET POINT RESET FUNCTION:

THE CONTROLLER SHALL MODULATE THE HEATING AND COOLING TO MAINTAIN DISCHARGE SUPPLY AIR SET POINT PER THE OUTSIDE AIR RESET SEQUENCE.

#### **OUTSIDE AIR RESET:**

11

THE CONTROLLER SHALL MONITOR THE OUTDOOR AIR TEMPERATURE AND ADJUSTS THE DESIRED LEAVING AIR TEMPERATURE (LAT) SET POINT ACCORDINGLY. WHEN THE OUTDOOR AIR IS BELOW 55°F, THE CONTROLLER SHALL CHANGE THE LAT SET POINT TO 70°F. IF THE OUTDOOR AIR IS ABOVE 65°F, THE CONTROLLER SHALL CHANGE THE LAT SET POINT TO 55°F. IF THE OUTDOOR AIR TEMPERATURE IS BETWEEN 55°F AND 65°F, THE LAT SET POINT CHANGES ACCORDING TO THE OUTDOOR AIR RESET FUNCTION. WHEN THE OUTSIDE AIR TEMPERATURE IS BETWEEN 50°F AND 65°F, THE LAT SETPOINT SHALL VARY LINEARLY BETWEEN 70°F AND 55°F.

OUTSIDE AIR RESET SCHEDULE											
LAT SET POINT	OUTSIDE AIR TEMP.										
65°F	50°F OR BELOW										
50°F	65°F OR ABOVE										

#### SUPPLY FAN:

THE SUPPLY FAN SHALL OPERATE AT A CONSTANT SPEED.

#### **ELECTRIC HEAT:**

IF THE HOT GAS REHEAT CANNOT ACHIEVE THE DISCHARGE AIR TEMPERATURE SETPOINT, THEN THE SCR ELECTRIC HEAT SHALL BE MODULATED BY THE UNIT CONTROLLER TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SET POINT.

THE FOLLOWING SOFTWARE ALARMS SHALL BE GENERATED AND DISPLAYED AT THE OPERATOR'S. **WORKSTATION:** 

- 1. HIGH SUPPLY AIR TEMP (5°F GREATER THAN CURRENT SETPOINT, ADJ.)
- 2. LOW SUPPLY AIR TEMP (5°F LESS THAN CURRENT SETPOINT, ADJ.)
- 3. LOW SUPPLY AIR TEMP (BELOW 40°F) FREEZE PROTECTION
- 4. BAD SUPPLY TEMP SENSOR (GREATER THAN 180°F OR LESS THAN -20°F, ADJ.)
- 5. SUPPLY FAN ALARM (COMMAND AND STATUS DO NOT MATCH)
- 6. EXHAUST FAN ALARM (COMMAND AND STATUS DO NOT MATCH)
- 7. HIGH SUPPLY/LEAVING AIR DEWPOINT TEMPERATURE (GREATER THAN 60°F FOR 15 MIN, ADJ.)

WHEN THE DISCHARGE AIR DEWPOINT TEMPERATURE IS GREATER THAN 60°F FOR 15 MIINUTES (ADJ.), THEN THE UNIT SHALL BE DISABLED, OUTSIDE AIR MOTORIZED DAMPER SHALL BE CLOSED, RETURN AIR MOTORIZED DAMPER SHALL BE OPENED, AND AN ALARM SHALL BE POSTED TO THE DDC WORKSTATION AND AN ALARM EMAIL SHALL BE SENT OUT TO OWNER'S REPRESENTATIVE.

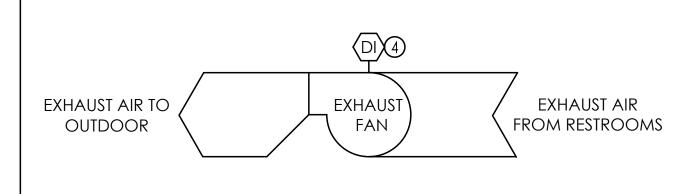
### SEQUENCE OF OPERATION - EXHAUST FAN

#### **EXHAUST FAN CONTROL & MONITORING:**

EXHAUST FANS EF-1 AND 2 SHALL BE CONTROLLED BY THE DDC SYSTEM FOR START/STOP CONTROL AND MONITORING OF FAN OPERATION. ANY TIME THAT THE BUILDING IS IN AN "OCCUPIED" MODE OF OPERATION THE DDC SYSTEM SHALL ACTIVATE ALL EXHAUST FANS SCHEDULED TO BE INTERLOCKED WITH THE OUTSIDE AIR UNIT (OAU-4) - SEE THE EXHAUST FAN SCHEDULE. THE OPERATION OF EACH EXHAUST FAN SHALL BE POSITIVELY MONITORED BY A CURRENT SENSING RELAY - IF AN EXHAUST FAN CONTINUES TO RUN WHEN COMMANDED OFF BY THE DDC SYSTEM A HIGH LEVEL (CRITICAL) ALARM SHALL BE POSTED TO THE DDC SYSTEM AND SHALL IDENTIFY THE SPECIFIC FAN CAUSING THE ALARM.

#### **EXHAUST FAN FAILURE:**

IF THE EXHAUST FAN START/STOP RELAY IS ENABLED AND THE DDC SYSTEM IS REPORTING THAT THE FAN IS NOT RUNNING FOR MORE THAN 30 SECONDS (ADJ.), THE DDC CONTROLLER SHALL ANNUNCIATE A FAN FAILURE ALARM TO THE DDC WORKSTATION. ONCE THE PROBLEM HAS BEEN CORRECTED AND THE OPERATOR IS ABLE TO CLEAR THE ALARM FAILURE FROM THE DDC CONTROLLER, THE DDC SYSTEM SHALL RE-ENABLE THE SEQUENCE.



EXHAUST FAN CONTROLS DIAGRAM

#### EXHAUST FAN CONTROLS POINTS FAN INTERLOCKED WITH OAU

- FAN ENABLE/DISABLE
- FAN STATUS FAN ALARM
- FAN INTERLOCKED WITH LIGHT SWITCH OR
- HOOD CONTROL PANEL

FAN STATUS

ANTON LEE, PE FL PE# 82369 | AL PE# 37427-E

PENSACOLA, FL 32514

ANTON LEE ENGINEERING

ANTON LEE ENGINEERING, LLC 1765 E. NINE MILE RD., STE. 1 #220

CERTIFICATE OF AUTHORIZATION:

ASSOCIATES | ARCHIT 16 N TARRAGONA STREET, PENSACOLA, FL 32502 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017 PROJECT ISSUES:

PHASE 1: 01 MAR 2022

PHASE 2: 30 MAR 2022

PHASE 3: 07 JUNE 2022

**PROJECT TEAM:** ARCHITECTURAL Caldwell Associates STRUCTURAL McCarthy Engineering **MECHANICAL** 

Anton Lee Engineering

HG Engineers

**ELECTRICAL** 

#### PROJECT:

**ORIOLE BEACH ELEMENTARY - KITCHEN** RENOVATION



1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** 

**ENGINEER'S SEAI** 

PROJECT NO. SHEET TITLE:

MECHANICAL CONTROLS

SHEET NUMBER:

M602

DO NOT SCALE DRAWINGS  $^{\circ}$  Caldwell associates architects, inc  $^{3}$ 

PRE-CONDITIONED

OUTSIDE AIR TO

<u>SPACE</u>

- O CEILING FIXTURE
- O- WALL BRACKET FIXTURE

POLE MOUNTED FIXTURE

O 2' X 4' LED FIXTURE; CEILING MOUNTED

- TWIN HEAD EMERGENCY BATTERY UNIT
- EXIT SIGN; CEILING MOUNTED; SHADED SECTION INDICATES LIGHTED FACE OF EXIT SIGN
- EXIT SIGN; BACK MOUNTED; SHADED SECTION INDICATES LIGHTED FACE OF EXIT SIGN
- JUNCTION BOX; MOUNTED ABOVE CEILING
- JUNCTION BOX; MOUNTED FLUSH IN WALL WITH BLANK COVER
- DUPLEX RECEPTACLE; 125V; 20A; 3 POLE GND; MT 18" AFF TO C/L UNLESS NOTED OTHERWISE; NEMA 5-20R; HUBBELL SERIES HBL5352
- DUPLEX RECEPTACLE: 125V: 20A: 3 POLE GND: GFI. MT 18" AFF TO C/L UNLESS NOTED OTHERWISE: NEMA GF5-20R: HUBBELL SERIES HBLGF5352
- © WEATHER PROOF DUPLEX RECEPTACLE; 125V; 20A; 3 POLE GND; GFI, MT 24" AFG TO C/L UNLESS NOTED OTHERWISE; NEMA GF5−20R;
- © CEILING MOUNTED DUPLEX RECEPTACLE; 125V; 20A; 3 POLE GND; MT FLUSH IN CEILING UNLESS NOTED OTHERWISE; NEMA 5-20R; HUBBELL SERIES HBL5352
- QUAD RECEPTACLE: 125V: 20A: 3 POLE GND: MT 18" AFF TO C/L UNLESS NOTED OTHERWISE: NEMA 5-20R: HUBBELL SERIES HBL5352
- TAMPER RESISTANT DUPLEX RECEPTACLE: 125V: 20A: 3 POLE GND: MT 18" AFF TO C/L UNLESS NOTED OTHERWISE: NEMA 5-20R: HUBBELL SERIES HBL SERIES BR20xxTR
- TAMPER RESISTANT QUAD RECEPTACLE; 125V; 20A; 3 POLE GND; MT 18" AFF TO C/L UNLESS NOTED OTHERWISE; NEMA 5-20R; HUBBELL SERIES HBL SERIES BR20xxTR
- TAMPER RESISTANT DUPLEX RECEPTACLE; 125V; 20A; 3 POLE GND; GFI; MT 18" AFF TO C/L UNLESS NOTED OTHERWISE; NEMA GF5-20R; HUBBELL SERIES GFTR20
- QUAD RECEPTACLE; TAMPER RESISTANT; 125V; 20A; 3 POLE GND; GFI; MT 18" AFF TO C/L UNLESS NOTED OTHERWISE; NEMA GF5-20R; HUBBELL SERIES GFTR20
- SPECIAL RECEPTACLE AS NOTED
- s WALL SWITCH; 120/277V; 20A; 1 POLE; A.C. ONLY; MT 48" AFF TO C/L; HUBBELL SERIES HBL1221
- SM WALL SWITCH; 120/277V; 20A; VACANCY SENSOR DUAL TECHNOLOGY MULTI-WAY TYPE; MT 48" AFF TO C/L; REFER TO SPECS; WATTSTOPPER #DW-100-W.
- LOW VOLTAGE WALL SWITCH; CONNECT TO LOCAL NON—NETWORKED POWER PACK OR ROOM CONTROLLER; MT 48" AFF TO C/L; REFER TO SPECS; SEE LIGHTING CONTROL DETAILS. LETTER "X" INDICATES BUTTON COUNT; REFER TO LOW VOLTAGE SWITCH MATRIX FOR SPECIFIC INFORMATION.
- OCCUPANCY SENSOR POWER PACK; MOUNT ABOVE CEILING IN ACCESSIBLE CEILING SPACE
- LOW VOLTAGE OCCUPANCY SENSOR; 360° DUAL-TECHNOLOGY TYPE; CEILING MOUNTED; UNLESS OTHERWISE NOTED; REFER TO LIGHTING CONTROLS DETAILS
- LOW VOLTAGE VACANCY SENSOR; 360° DUAL-TECHNOLOGY TYPE; CEILING MOUNTED; UNLESS OTHERWISE NOTED; REFER TO LIGHTING CONTROLS DETAILS
- MOTOR CONTROL SWITCH; 600V; 30A; 2 POLE; A.C. ONLY; NEAR OR ON EQUIPMENT BEING SERVED; HUBBELL-BRYANT 30102D.
- NEMA 3R MOTOR CONTROL SWITCH; 600V; 30A; 2 POLE; A.C. ONLY; NEAR OR ON EQUIPMENT BEING SERVED; HUBBELL-BRYANT 30322D.
- RACEWAY 'EYS' TYPE SEAL FITTING
- PANEL; 120/208V; MT 72" AFF TO TOP
- MOTOR; FURNISHED BY OTHERS
- EXHAUST FAN; FURNISHED BY OTHERS
- MAGNETIC STARTER; FURNISHED BY OTHERS
- FUSED DISCONNECT SWITCH; AMP SIZE AS NOTED; FUSE SIZE PER EQUIPMENT NAMEPLATE DATA
- RACEWAY INSTALLED CONCEALED IN WALLS AND/OR ABOVE CEILING

~~~ RACEWAY INSTALLED CONCEALED IN FLOOR SLAB AND/OR BELOW GRADE

RACEWAY INSTALLED EXPOSED

- FLEXIBLE CONDUIT CONNECTION
- CONDUIT STUB UP WITH FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT
- TELEPHONE WALL OUTLET WITH MODULAR JACK AND COVERPLATE; MT 18" AFF TO C/L UNLESS NOTED OTHERWISE INSTALL 3/4"C WITH PULLRIBBON UP INTO ACCESSIBLE CEILING SPACE.
- WIRELESS ACCESS POINT BY OWNER: CONTRACTOR PROVIDE CAT6 CABLE IN 3/4" CONDUIT BACK TO COMM RACK.
- FIRE ALARM SYSTEM MANUAL PULL STATION; MT 48" AFF TO C/L
- FIRE ALARM SYSTEM SIGNAL HORN/STROBE; MT 80" AFF TO BOTTOM, '110' INDICATES CANDELA RATING, NO NUMBER INDICATES '75' CANDELA MINIMUM; AUDIO SIGNAL AND STROBE CANDELA SHALL BE SELECTABLE ON BACK OF DEVICE.
- FIRE ALARM SYSTEM EXTERIOR, WEATHERPROOF SIGNAL HORN; MT 90" AFF TO BOTTOM; AUDIO SIGNAL SHALL BE SELECTABLE ON BACK OF DEVICE.
- FIRE ALARM SYSTEM STROBE; MT 80" AFF TO BOTTOM, '110' INDICATES CANDELA RATING, NO NUMBER INDICATES '75' CANDELA MINIMUM; STROBE CANDELA SHALL BE SELECTABLE ON BACK OF DEVICE.
- FIRE ALARM SYSTEM AUTOMATIC HEAT DETECTOR; 135 DEGREE/RATE OF RISE TYPE; CEILING MOUNTED
- © FIRE ALARM SYSTEM CARBON MONOXIDE DETECTOR; CEILING MOUNTED
- FIRE ALARM SYSTEM AUTOMATIC SMOKE DETECTOR; CEILING MOUNTED
- FIRE SPRINKLER SYSTEM FLOW/TAMPER SWITCH

### ELECTRICAL DEMOLITION NOTES

- 1. PLANNED INTERRUPTIONS OF UTILITY SERVICE TO ANY FACILITY OR AREAS WITHIN ANY FACILITY AFFECTED BY THIS CONTRACT, SHALL BE CAREFULLY PLANNED AND COORDINATED WITH THE FACILITY PERONNEL IN ADVANCE OF THE REQUESTED INTERRUPTION. THE CONTRACTOR SHALL NOT INTERRUPT SERVICES UNTIL SPECIFIED APPROVAL HAS BEEN GRANTED. THE REQUEST SHALL INDICATE SERVICES AND AREAS TO BE AFFECTED, DATE AND TIME OF INTERRUPTION AND DURATION OF OUTAGE. REQUEST FOR INTERRUPTION OF SERVICE WILL NOT BE APPROVED UNTIL ALL EQUIPMENT AND MATERIAL REQUIRED FOR THE COMPLETION OF THAT PARTICULAR PHASE OF WORK ARE ON THE JOB SITE.
- 2. ALL DEMOLITION WORK REQUIRED SHALL BE PERFORMED WITH CARE SO AS NOT TO INTERRUPT OTHER EXISTING SERVICES (WATER, GAS, ELECTRICAL, SEWER, SPRINKLERS, ETC.). IF ACCIDENTAL UTILITY INTERRUPTION, DAMAGE, ETC., RESULTS FROM WORK PERFORMED BY THE CONTRACTOR, THE AFFECTED UTILITY OR SERVICE SHALL BE RETURNED TO ITS ORIGINAL CONDITION WITHOUT DELAY. BY AND AT THE EXPENSE OF THE CONTRACTOR, USING SKILLED WORKMEN OF THE TRADE INVOLVED.
- 3. REMOVE ALL OUTLETS, PULL BOXES, JUNCTION BOXES, ETC., AS REQUIRED TO COMPLETELY REMOVE THE ELECTRICAL ITEMS SHOWN FOR DEMOLITION UNLESS NOTED TO REMAIN. DISCONNECT AND REMOVE ALL ELECTRICAL PROVISIONS TO EQUIPMENT BEING REMOVED.
- 4. REMOVE ALL WIRING, CONDUIT, RACEWAYS, OUTLET BOXES, SUPPORTING APPARATUS ETC., AS REQUIRED.
- S. SYMBOLS SHOWN ARE TYPICAL AND LOCATIONS ARE APPROXIMATE AND ARE NOT INTENDED TO LIMIT THE AMOUNT OF DEMOLITION. COORDINATE WITH EXISTING CONDITIONS AND THESE NOTES AND REMOVE ALL APPLICABLE SYSTEMS AND COMPONENTS CONFLICTING WITH FINISHED DESIGN INTENT.
- EXISTING BRANCH WIRING SHOWN IS DIAGRAMMATICAL ONLY AND IS BASED UPON EXISTING AS-BUILT DRAWINGS AND SURVEYS. COORDINATE WITH ACTUAL EXISTING CONDITIONS FOR NUMBER OF CONDUCTORS PER CONDUIT AND EXACT LOCATIONS OF CONDUIT RUNS AND EQUIPMENT.
- 7. ALL FEEDERS, SYSTEMS, CONTROL WIRING, MISCELLANEOUS AUXILIARY SYSTEMS, ETC., PASSING THROUGH THE AREA OF WORK SHALL BE MAINTAINED AT ALL TIMES, REMAIN IN SERVICE, CONTINUOUS AND UNINTERRUPTED. ANY DAMAGE, DISRUPTION OR DISCONNECTION SHALL BE IMMEDIATELY REPAIRED, REPLACED AND/OR REROUTED AS REQUIRED TO MAINTAIN CONTINUITY OF SYSTEMS. ANY EXISTING SERVICE OR OPERATING SYSTEM WHICH MUST BE INTERRUPTED SHALL BE SUPPLIED WITH A TEMPORARY SERVICE FOR CONTINUATION OF THE NORMAL OPERATIONS OF THE FACILITY.
- 8. ANY EQUIPMENT THAT REQUIRES REMOVAL FROM EXISTING LOCATION FOR RE-USE OR TO BE RETURNED TO OWNER SHALL BE INSPECTED AND TESTED TO CONFIRM EQUIPMENT OPERATES AS INTENDED. OWNER SHALL BE NOTIFIED OF ANY EQUIPMENT THAT DOES NOT OPERATE AS INTENDED BEFORE REMOVAL.
- 9. CONCEALED CONDUIT THAT CANNOT BE REMOVED DUE TO INACCESSIBILITY MAY BE ABANDONED. CONDUCTORS SHALL BE REMOVED AND CONDUIT CUT FLUSH WITH SURFACE. INSTALL PLUG 6" INTO CONDUIT AND FILL REMAINING CONDUIT WITH CONCRETE, GROUT, OR OTHER PERMANENT FILLER FLUSH WITH SURFACE.
- 10. OUTLET BOXES THAT CANNOT BE REMOVED DUE TO FLUSH MOUNTING IN PARTITIONS SHALL BE FILLED WITH GROUT, PATCHED AND FINISHED FLUSH TO MATCH EXISTING WALL CONDITIONS.
- 11. IN GENERAL, THE WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
- a. PROVIDE ALL DEMOLITION AS REQUIRED OF EXISTING SYSTEMS REMOVING ALL ITEMS THAT CONFLICT WITH FINISHED DESIGN INTENT AS INDICATED ABOVE.

CONTRACTOR SHALL BE REQUIRED TO FURNISH AND INSTALL ADDITIONAL MOUNTING HARDWARE AS REQUIRED BY THE MANUFACTURER.

- b. MODIFY, REPLACE, REPAIR, REVISE ETC., EXISTING SYSTEMS AND/OR EQUIPMENT.
- c. EXTEND EXISTING SYSTEMS AS REQUIRED TO FUNCTION AS SPECIFIED AND IN ACCORDANCE WITH SYSTEM REQUIREMENTS.
- d. NEW SYSTEM COMPONENTS SHALL MATCH EXISTING SYSTEMS PROVISIONS AND BE COMPLETELY COMPATIBLE AND IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS, WHEN
- REQUIRED, APPROVAL FROM A SYSTEM MANUFACTURER SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO INSTALLING ANY NEW EQUIPMENT OR DEVICES TO AN EXISTING SYSTEM.

  e. ALL EQUIPMENT, DEVICES, OUTLETS, COMPONENTS, ETC., TO BE REUSED SHALL BE CLEANED, REPAIRED AND PLACED IN OPERATING CONDITION. LUMINARIES NOTED TO BE REUSED SHALL
- BE CLEANED, REPAIRED, PROVIDED WITH NEW LAMPS AND PLACED IN OPERATING CONDITION.

  f. EXISTING OUTLET BOXES MAY BE USED AS NOTED IF OF THE PROPER CONFIGURATION AND SIZE REQUIRED. MODIFICATIONS SHALL BE MADE WHEN REQUIRED SUCH AS PROVIDING
- EXTENSION RINGS, LOCKNUTS, BUSHINGS, ETC.

  g. EXISTING PANELBOARDS SHALL BE UTILIZED TO THE EXTENT SHOWN ON THE DRAWINGS AND MODIFIED AS REQUIRED TO FACILITATE THE NEW REQUIREMENTS AS INDICATED HEREIN OR SHOWN ON THE DRAWINGS. NEW CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER, FRAME SIZE, SHORT CIRCUIT RATING AND TYPE AS EXISTING. WHERE APPLICABLE, THE
- h. WHEN EXISTING DEVICES, SWITCHES, EQUIPMENT ETC., ARE NOTED TO BE REMOVED AND THE CIRCUIT(S) SERVING SUCH ITEMS SERVES OTHER ITEMS OR DEVICES WHICH ARE TO BE MAINTAINED, THE CONTRACTOR SHALL REROUTE, EXTEND, MODIFY, ETC., EXISTING CIRCUITS AS REQUIRED TO MAINTAIN COMPLETE AND OPERATING SYSTEMS.

#### ELECTRICAL GENERAL NOTES

- A. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT SIZE AND LOCATION OF EQUIPMENT WHICH IS FURNISHED BY OTHERS AND CONNECTED BY ELECTRICAL.
- B. RECEPTACLES, SWITCHES AND COVERPLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
- C. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGHING-IN WALL FOR SWITCHES.
- D. LOCATION OF LIGHTING FIXTURES, DISCONNECT SWITCHES, ETC. FOR MECHANICAL EQUIPMENT/ROOM SHALL BE COORDINATED WITH FINAL MECHANICAL EQUIPMENT LOCATION TO PROVIDE NATIONAL ELECTRIC CODE REQUIRED ACCESS SPACE.
- E. TERMINAL CONNECTION TO ALL MOTORS SHALL BE WITH FLEXIBLE CONDUIT CONNECTION.
- F. ALL EXIT AND EMERGENCY FIXTURES SHALL BE CONNECTED TO LIGHT CIRCUIT AHEAD OF LOCAL SWITCH.
- G. ALL PANELBOARDS, BACKBOARDS, TERMINAL CABINETS, ETC SHALL HAVE CUSTOM ENGRAVED MICARTA NAMEPLATE MECHANICALLY AFFIXED IDENTIFYING SYSTEM.
- H. PROVIDE GREEN GROUND CONDUCTOR IN ALL CIRCUITS SIZE PER N.E.C.
- I. ALL EXPOSED CONDUITS, BOXES, STRAPS AND HANGERS IN THE CONTRACT AREA WHETHER NEW OR EXISTING THAT ARE PART OF THE ELECTRICAL SYSTEM SHALL BE PAINTED TO MATCH ADJACENT FINISH.
- J. PROVIDE CONCRETE MARKER AT END OF ALL CONDUITS STUBBED OUT OF BUILDING FOR FUTURE USE. MARKER SHALL BE 6" DIA X 18" HIGH WITH 2" ABOVE FINISHED GRADE. INSCRIBE IN TOP OF MARKER "E" FOR ELECTRICAL."T" FOR TELEPHONE."V" FOR TV CABLE."F" FOR FIRE ALARM. AND "IC" FOR INTERCOM.
- K. GENERAL CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY WORK, AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. FAILURE TO DO SO INDICATES THAT THE CONTRACTOR ACCEPTS THE CONDITIONS AS THEY EXIST, AND SHALL PERFORM THE WORK REQUIRED AS SHOWN AND SPECIFIED.
- L. THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND REVIEW THE MECHANICAL AND SPECIAL EQUIPMENT SUBMITTALS PRIOR TO SUBMITTING THE ELECTRICAL SUBMITTALS. ANY ELECTRICAL EQUIPMENT, CONDUIT, AND WIRE SIZE CHANGES RESULTING FROM THIS REVIEW SHALL ALSO BE SUBMITTED FOR APPROVAL.
- M. FIRE ALARM LOW VOLTAGE SOURCE AND BATTERY STANDBY SHALL ENERGIZE ALL ITEMS IN FIRE ALARM SYSTEM THAT REQUIRE POWER.
- N. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FAULT CURRENT CALCULATIONS FOR THE SERVICE EQUIPMENT AND SHALL MARK THE EQUIPMENT WITH THE AVAILABLE FAULT CURRENT AND DATE OF THE CALCULATION PER NEC 110.24. REFER TO TYPICAL SERVICE EQUIPMENT FAULT CURRENT LABEL DETAIL.
- O. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ARC FAULT LABELS PER NFPA 70E ARTICLE 110.16 FOR NEW EQUIPMENT. THE OWNER SHALL PROVIDE AVAILABLE CALCULATION DATA FOR THE EXISTING EQUIPMENT IN THE ELECTRICAL SYSTEM. REFER TO TYPICAL ARC FLASH HAZARD LABEL DETAIL.
- P. PROVIDE NEUTRAL AT ALL LINE VOLTAGE SWITCH LOCATIONS PER N.E.C. 404.2(C)
- Q. PROVIDE 'LSI' TRIP UNITS FOR ALL BREAKERS GREATER THAN OR EQUAL TO 200A.
- R. PROVIDE BUSHINGS ON ALL CONDUIT.

#### SPECIAL DEMOLITION NOTE

THE LOCATIONS OF ALL ELECTRICAL EQUIPMENT INDICATED (FIXTURES & DEVICES) MAY VARY FROM DRAWING. EXISTING CONDITIONS AND DEMOLITION WORK WAS DETERMINED BY SITE OBSERVATION AND REVIEW OF EXISTING DOCUMENTS WITHOUT THE BENEFIT OF DESTRUCTIVE INVESTIGATION. VERIFY ACTUAL LOCATIONS, TYPES, AND QUANTITIES OF EQUIPMENT AND APPLY DEMOLITION NOTES AS APPROPRIATE FOR THE EQUIPMENT AND ROOM OR AREA.





116 N TARRAGONA STREET, PENSACOLA, FL 32502
(850) 432 9500 | CALDWELL-ASSOC.COM

Florida Interior Design License No: IB26000943

3263 COTTAGE HILL RD, MOBILE, AL 36606

Alabama License No: 3017

#### PROJECT ISSUES:

PHASE 1: 01 MAR 2022

PHASE 2: 30 MAR 2022

PHASE 3: 03 JUNE 2022

PROJECT TEAM:

ARCHITECTURAL
Caldwell Associates
STRUCTURAL
McCarthy Engineering
MECHANICAL
Anton Lee Engineering
ELECTRICAL
HG Engineers

PROJECT:

ORIOLE BEACH ELEMENTARY - KITCHEN RENOVATION



1260 ORIOLE BEACH RD,
GULF BREEZE, FLORIDA
ENGINEER'S SEAL

ENGINEER 3 SEA

PRELIMINARY.
PRELI

PROJECT NO. : SHEET TITLE:

ELECTRICAL LEGEND AND NOTES

SHEET NUMBER:

E00'

PHASE 3

© CALDWELL ASSOCIATES ARCHITECTS, INC. 3 4 5 DO NOT SCALE DRA

**ABBREVIATIONS** 

C. - CONDUIT

C/L - CENTERLINE

LTG - LIGHTING

LTS - LIGHTS REC - RECEPTACLE

EF - EXHAUST FAN

WH - WATER HEATER

WP - WEATHERPROOF

A/C - AIR CONDITIONER

IHP - INDOOR HEAT PUMP

OHP - OUTDOOR HEAT PUMP

COND - CONDENSING UNIT

NL - NIGHT LIGHT

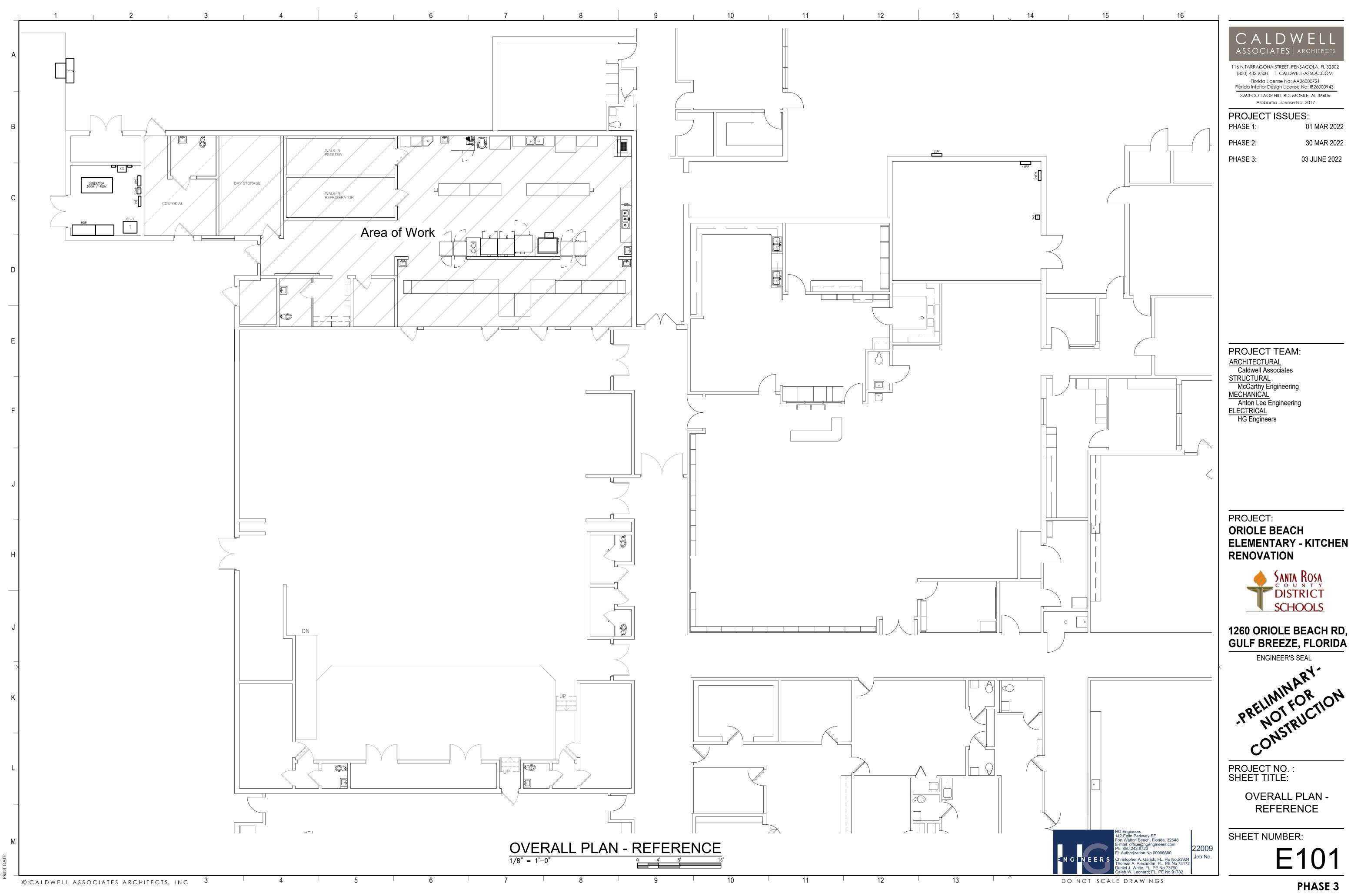
GND - GROUND CONDUCTOR

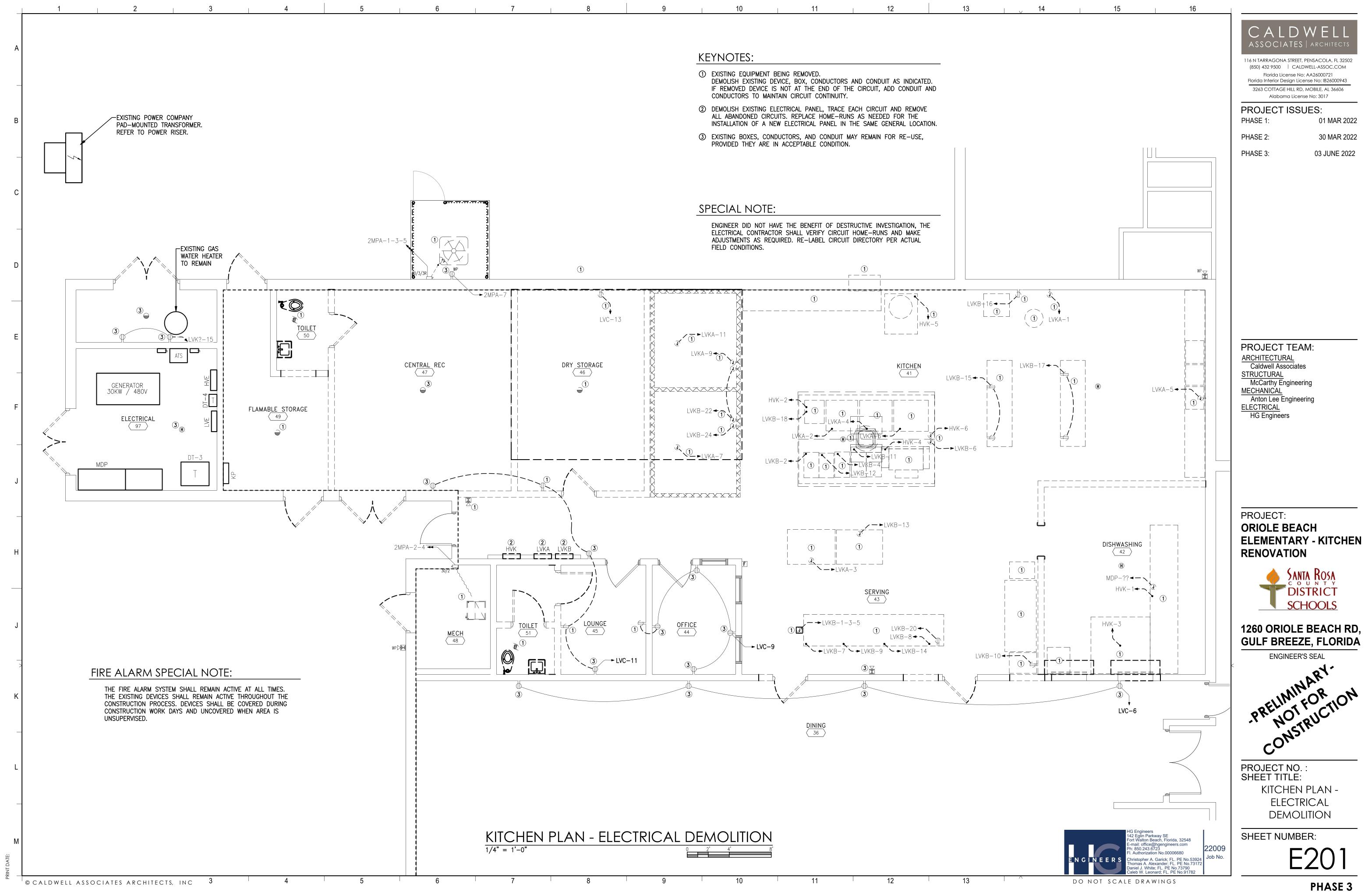
AFF - ABOVE FINISHED FLOOR

EC - ELECTRICAL CONTRACTOR

GFI - GROUND FAULT PROTECTION

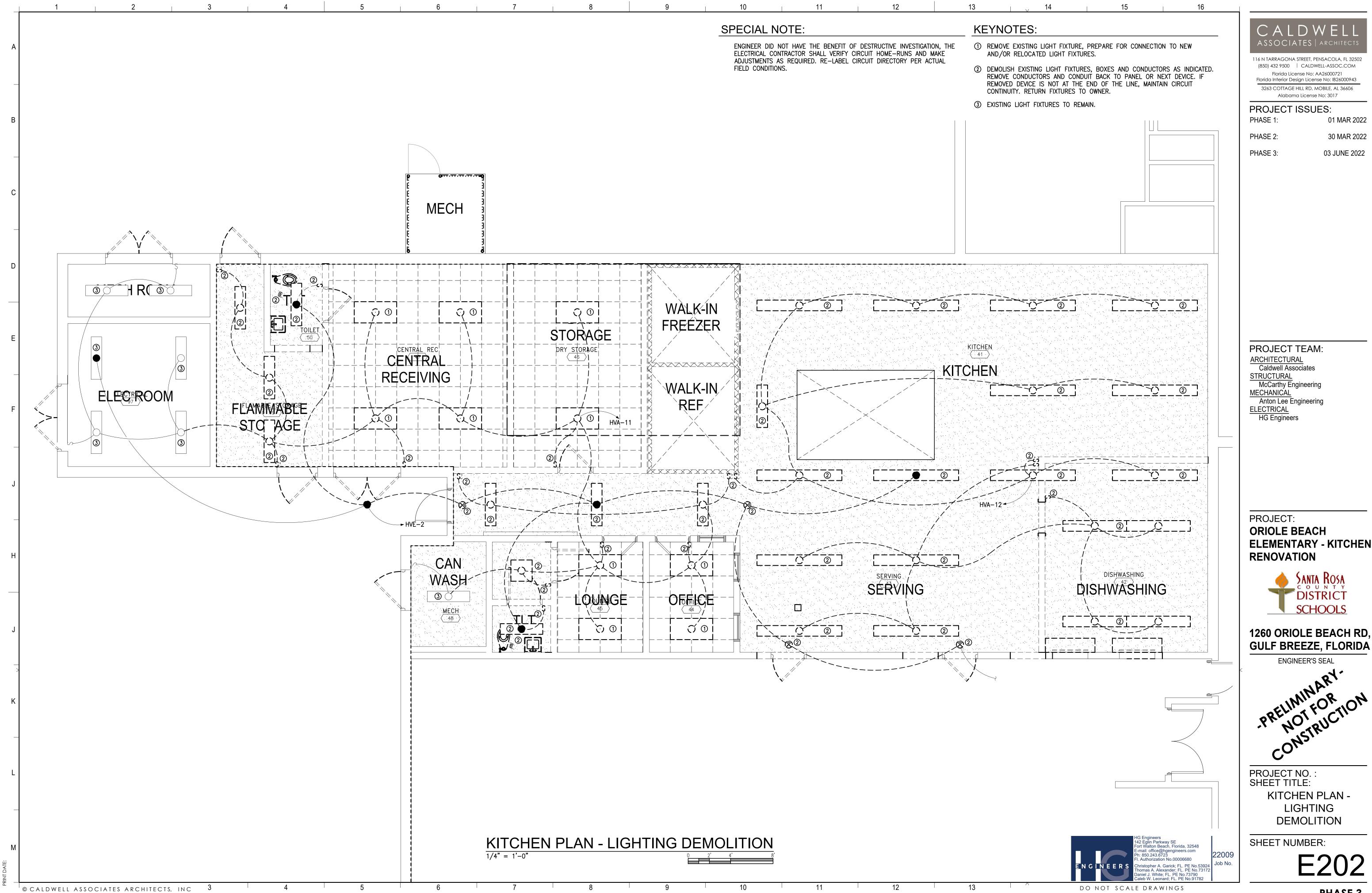
UNO - UNLESS NOTED OTHERWISE





**ELEMENTARY - KITCHEN** 

**GULF BREEZE, FLORIDA** 

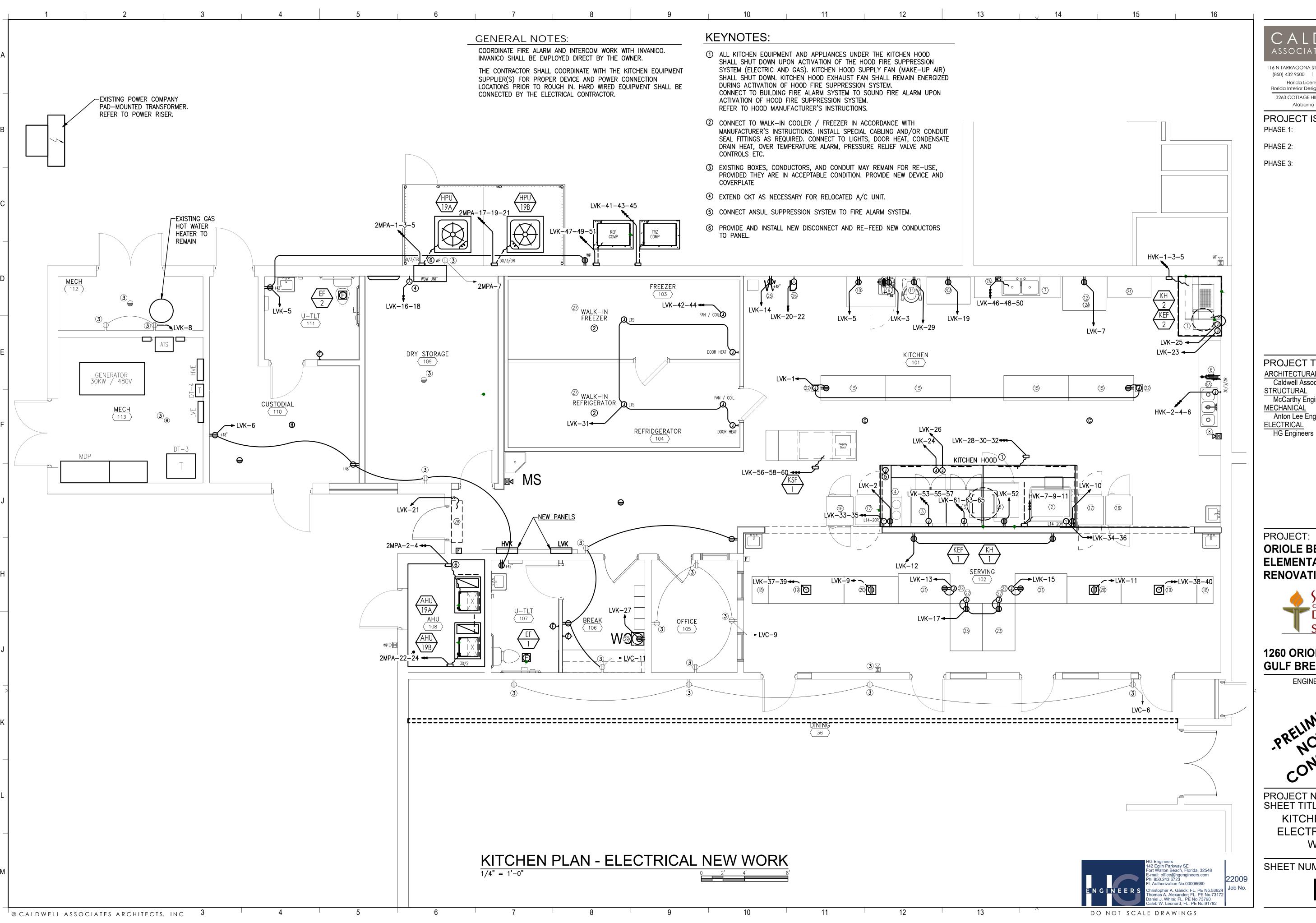


116 N TARRAGONA STREET, PENSACOLA, FL 32502

30 MAR 2022

**ELEMENTARY - KITCHEN** 

E202



CALDWEL ASSOCIATES | ARCHITEC

> 116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM

Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017

PROJECT ISSUES:

01 MAR 2022

30 MAR 2022

03 JUNE 2022

PHASE 3:

PROJECT TEAM: **ARCHITECTURAL** Caldwell Associates **STRUCTURAL** McCarthy Engineering **MECHANICAL** Anton Lee Engineering ELECTRICAL

PROJECT:

ORIOLE BEACH **ELEMENTARY - KITCHEN RENOVATION** 



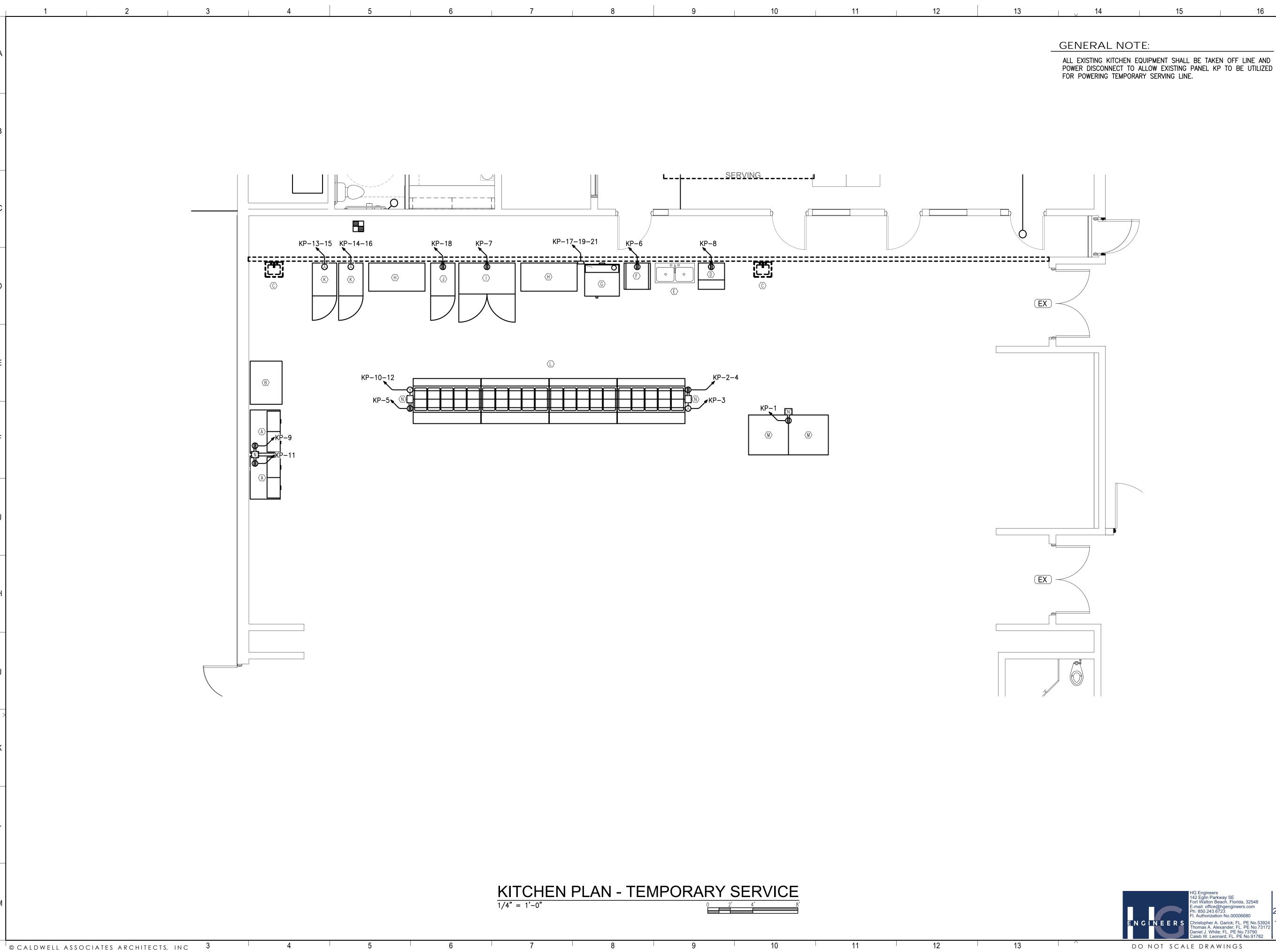
1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** 

**ENGINEER'S SEAL** 

PROJECT NO. : SHEET TITLE:

KITCHEN PLAN -**ELECTRICAL NEW** WORK

SHEET NUMBER:





116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM

> Florida License No: AA26000721 Florida Interior Design License No: IB26000943 3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017

#### PROJECT ISSUES:

PHASE 1: 01 MAR 2022

03 JUNE 2022

30 MAR 2022 PHASE 2:

PHASE 3:

PROJECT TEAM: <u>ARCHITECTURAL</u> Caldwell Associates STRUCTURAL McCarthy Engineering <u>MECHANICAL</u> Anton Lee Engineering ELECTRICAL HG Engineers

#### PROJECT:

**ORIOLE BEACH ELEMENTARY - KITCHEN RENOVATION** 



1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** 

ENGINEER'S SEAL

PROJECT NO. : SHEET TITLE:

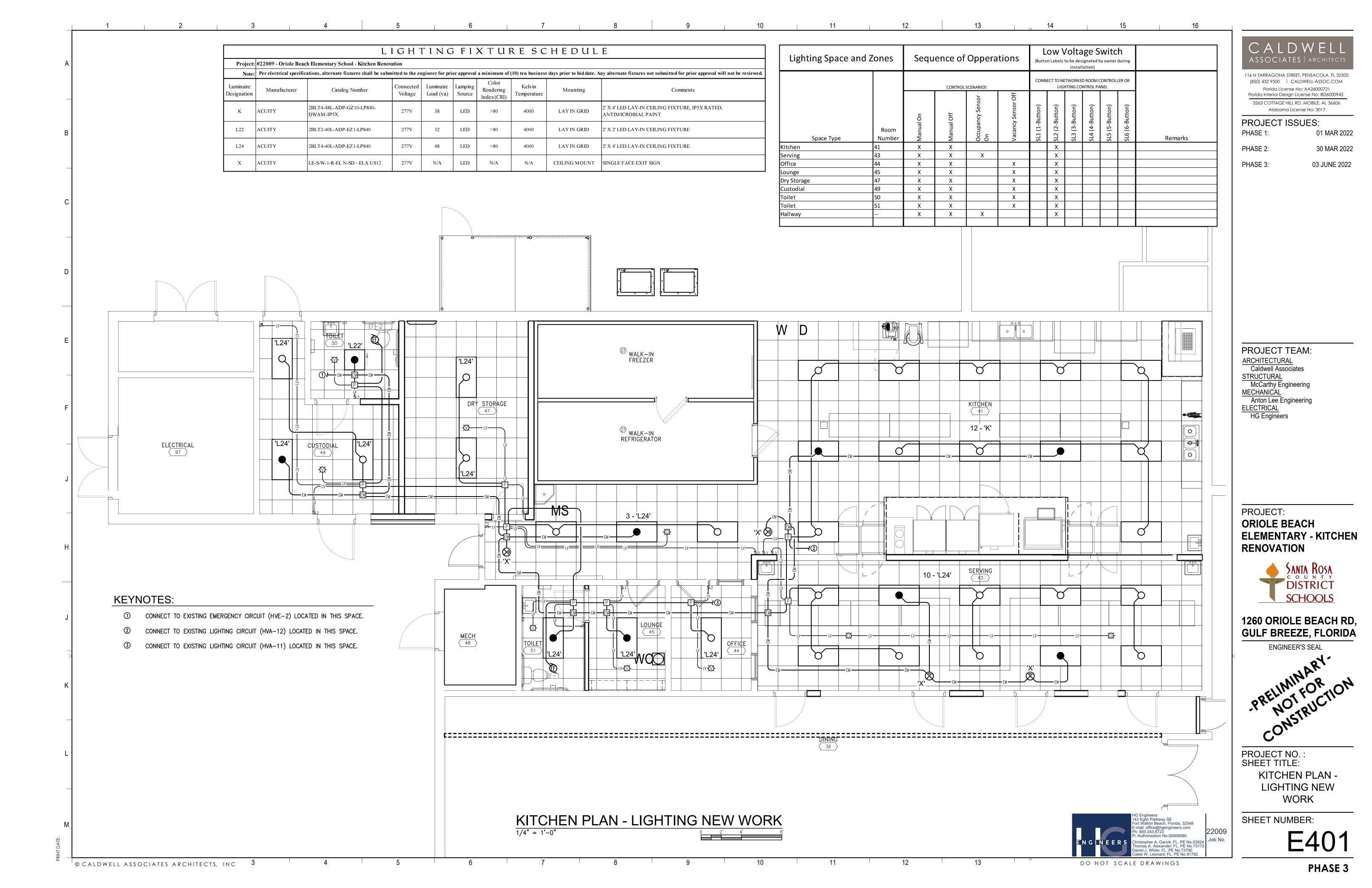
22009

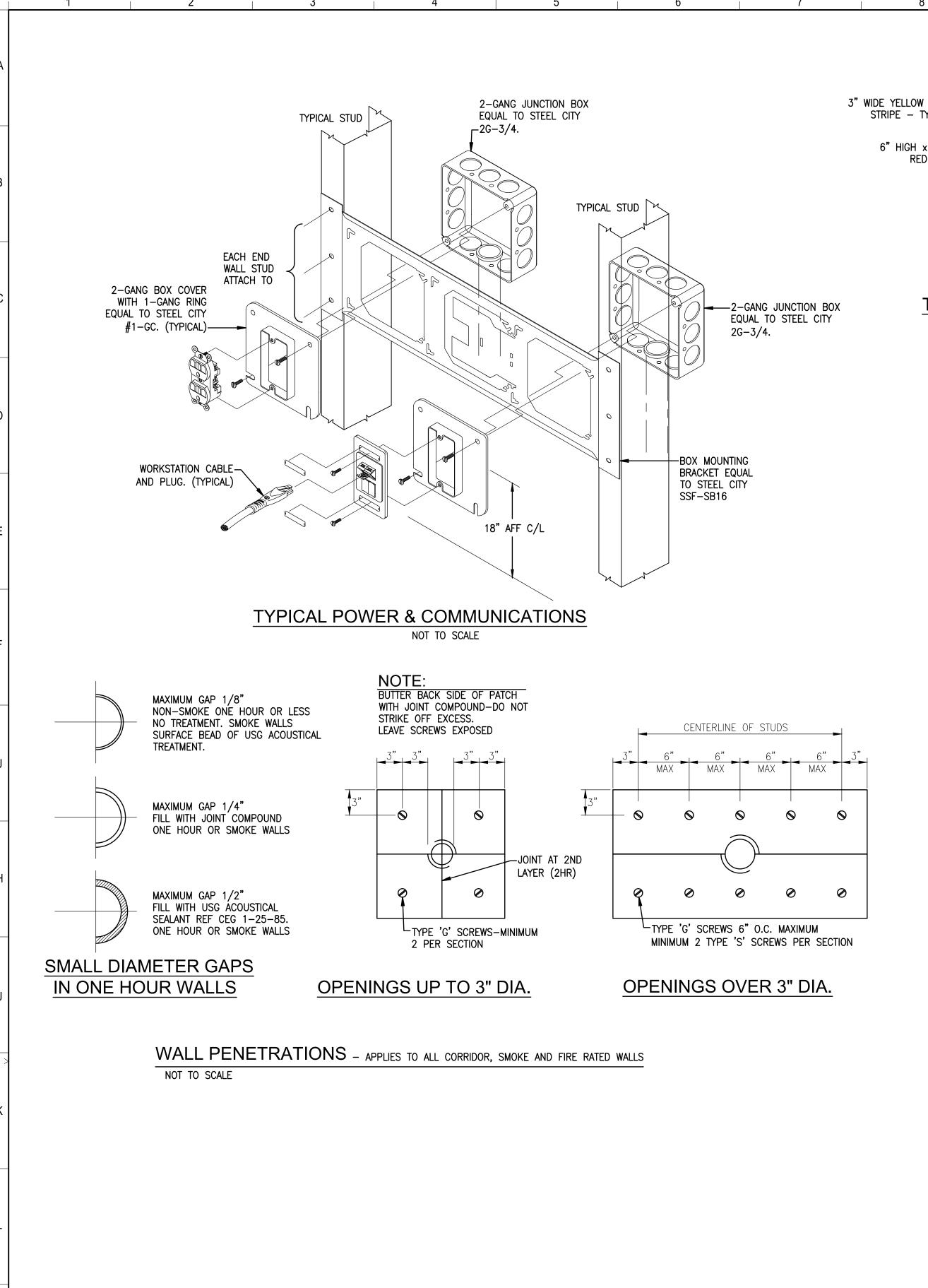
KITCHEN PLAN -**TEMPORARY** SERVICE

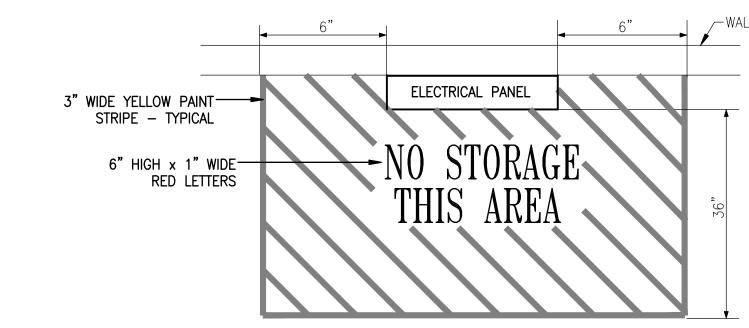
SHEET NUMBER:

E302

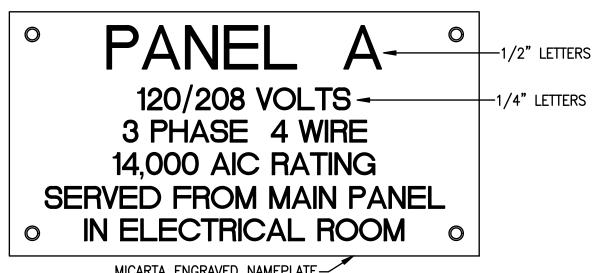
DO NOT SCALE DRAWINGS





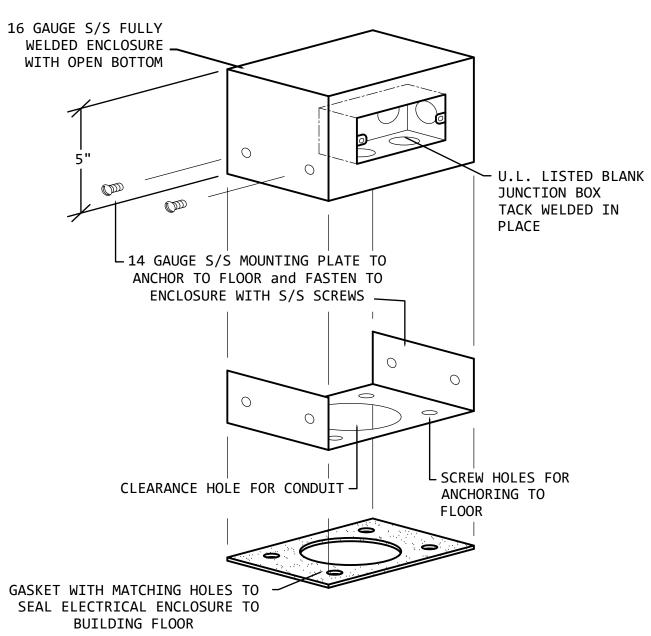


## TYPICAL FLOOR MARKING AT ELECTRICAL PANELS NOT TO SCALE

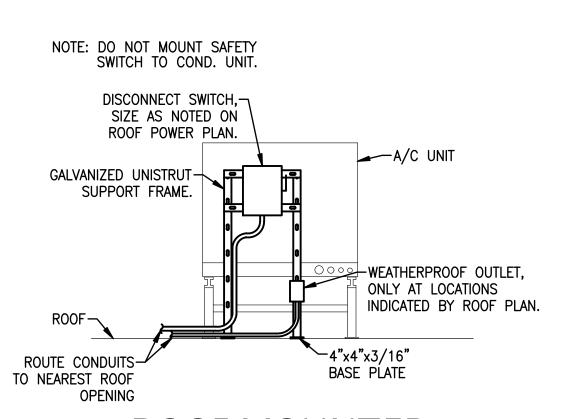


MICARTA ENGRAVED NAMEPLATE — WITH WHITE LETTERS ON BLACK BACKGROUND, MECHANICALLY AFFIXED.

## TYPICAL ELECTRICAL EQUIPMENT NAMEPLATE NOT TO SCALE



## FLOOR OUTLET BOX DETAIL NOT TO SCALE



15

ROOF MOUNTED

DISCONNECT SWITCH DETAIL

NOT TO SCALE



(850) 432 9500 | CALDWELL-ASSOC.COM
Florida License No: AA26000721
Florida Interior Design License No: IB26000943
3263 COTTAGE HILL RD, MOBILE, AL 36606

### PROJECT ISSUES:

PHASE 1: 01 MAR 2022

Alabama License No: 3017

PHASE 2: 30 MAR 2022

PHASE 3: 03 JUNE 2022

PROJECT TEAM:

ARCHITECTURAL
Caldwell Associates
STRUCTURAL
McCarthy Engineering
MECHANICAL
Anton Lee Engineering
ELECTRICAL
HG Engineers

### PROJECT:

ORIOLE BEACH
ELEMENTARY - KITCHEN
RENOVATION



#### 1260 ORIOLE BEACH RD, GULF BREEZE, FLORIDA

ENGINEER'S SEAL

PRELIMINARY.
PRELIMINARY.
PRELIMINARY.
PRELIMINARY.

PROJECT NO. : SHEET TITLE:

> ELECTRICAL DETAILS

SHEET NUMBER:

E501

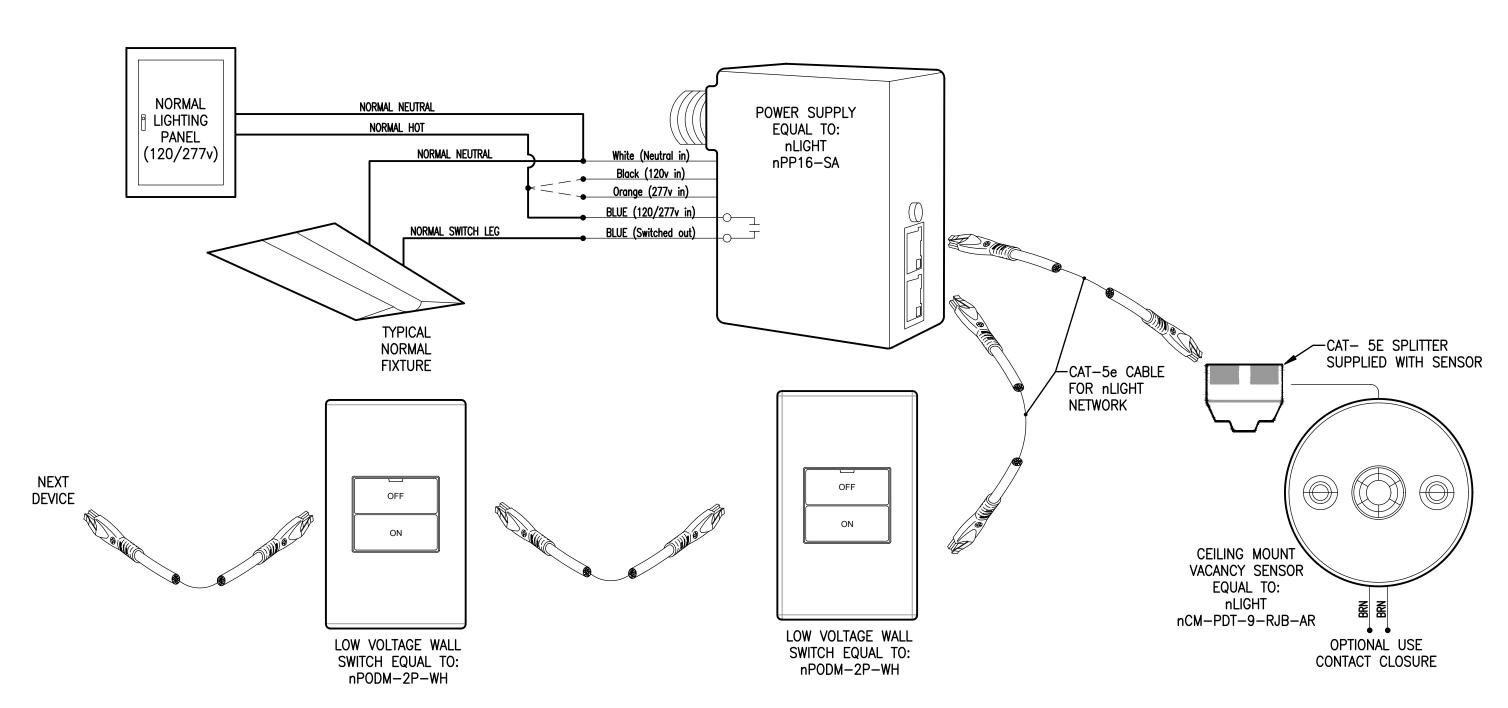
E-mail: office@Ingengineers.com
Ph: 850.243.6723
Fl. Authorization No.00006680

Christopher A. Garick; FL. PE No.53924
Thomas A. Alexander; FL. PE No.73172
Daniel J. White; FL. PE No.73790
Caleb W. Leonard; FL. PE No.91782

NORMAL NORMAL NEUTRAL POWER SUPPLY LIGHTING NORMAL HOT EQUAL TO: PANEL nLIGHT NORMAL NEUTRAL (120/277v)White (Neutral in) nPP16-SA Black (120v in) Orange (277v in) BLUE (120/277v in) NORMAL SWITCH LEG BLUE (Switched out) **TYPICAL** -CAT- 5E SPLITTER NORMAL SUPPLIED WITH SENSOR FIXTURE -CAT-5e CABLE FOR nLIGHT NETWORK CEILING MOUNT VACANCY SENSOR EQUAL TO: nLIGHT nCM-PDT-9-RJB-AR OPTIONAL USE CONTACT CLOSURE LOW VOLTAGE WALL SWITCH EQUAL TO: nPODM-2P-WH

# LIGHTING (SWITCHING) CONTROL WITH VACANCY SENSOR AND SWITCH INPUT STORAGE ROOMS

NOT TO SCALE



# LIGHTING (SWITCHING) CONTROL WITH VACANCY SENSOR AND SWITCH INPUT SERVING LINE AND HALLWAY

NOT TO SCALE

#### LIGHTING CONTROL GENERAL NOTES

- A. THE DIAGRAMS ARE NOT INTENDED TO SHOW EXACT QUANTITIES OF DEVICES. REFER TO PLAN FOR ESTIMATED DEVICE QUANTITIES AND LOCATIONS.
- B. THE DIAGRAMS REPRESENT A TYPICAL SYSTEM AND ARE NOT INTENDED FOR INSTALLATION, SYSTEM SUPPLIER SHALL PROVIDE INSTALLATION DRAWINGS AND WIRING DIAGRAMS.
- C. PROVIDE ADDITIONAL POWER AND CONTROL MODULES AS RECOMMENDED BY THE SYSTEM SUPPLIER.
- D. E.C. SHALL COORDINATE FIELD PROGRAMMING OF LIGHTING CONTROL SYSTEM WITH SYSTEM PROGRAMMER, SPECIFYING ENGINEER, AND OWNER TO ENSURE PROPER OPERATION AND TIME SCHEDULES.
- E. ALL EMERGENCY AND EXIT LIGHTING CIRCUITS SHALL BE CONNECTED TO CONTINUOUS POWER SOURCE AHEAD OF RELAY PANEL OR INDIVIDUAL RELAY COMPONENTS.
- F. INSTALL ALL CEILING SENSORS MINIMUM OF 6FT CLEAR OF DUCT REGISTERS.

OWNERSHIP.

- G. ALL DATA LINE SWITCHES SHALL INCLUDE CUSTOM ENGRAVED LABEL INDICATING FUNCTION OF SWITCH. COORDINATE EXACT LABEL DESCRIPTIONS WITH OWNER PRIOR TO INSTALLATION.
- H. PROGRAMMER / COMMISSIONING AGENT SHALL BE CERTIFIED BY THE EQUIPMENT MANUFACTURER ON THE SYSTEM INSTALLED.
- I. THE MANUFACTURER CERTIFIED TECHNICIAN WILL MEET ONSITE WITH THE ELECTRICAL CONTRACTORS TO COORDINATE INSTALLATION DETAILS, REVIEW BEST PRACTICES, AND DISCUSS PROJECT SPECIFIC CHALLENGES; PRIOR TO THE INSTALLATION BEING STARTED, ENABLING THE CONTRACTORS TO WORK WITH THE TECHNICIAN TO PREPARE AND MAKE CHANGES UP FRONT.

J. THE MANUFACTURER'S LIGHTING SYSTEMS TEAM SHALL WORK ONSITE AFTER FIXTURE AND CONTROLS INSTALLATION IS

INSTALLATION AND FUNCTIONALITY OF THE SYSTEM AS A WHOLE. ANY PROBLEMS SHALL BE ADDRESSED AND RESOLVED WITH THE ONSITE CONTRACTORS.

K. MANUFACTURER'S TECHNICIANS SHALL MAP OUT THE FIXTURE LOCATIONS AND ADDRESSES WITHIN THE LIGHTING CONTROL SOFTWARE. ASTRONOMIC TIMECLOCK EVENTS, SCENES, AND SCHEDULES ARE PROGRAMMED ACCORDING TO A PRE—DEFINED

COMPLETED. THE MANUFACTURER'S AGENT IS TO VERIFY THE PROJECT IS REVIEWED AND CHECKED FOR PROPER WIRING,

L. MANUFACTURER'S TECHNICIANS SHALL PROVIDE TRAINING FOR SYSTEM USERS AND THE SYSTEM MAINTENANCE TEAM. THE DETAILS OF THE TECHNOLOGY SHALL BE COVERED FROM A MAINTENANCE AND TROUBLESHOOTING POINT OF VIEW. THIS COVERS THE LIGHTING CONTROL SYSTEM AND ITS CORE FUNCTIONALITY, WITH A FOCUS ON HOW TO EDIT EXISTING SCENES AND ASTRONOMIC LIGHTING EVENTS.

SCRIPT. THESE EVENTS, SCENES, AND SCHEDULES ARE TESTED AND FINALIZED FOR FINAL APPROVAL BY THE PROJECT'S

M. THE MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE IN-DEPTH TRAINING TO THE END USER ON MANAGING THE SPECIFIC CONTROL SYSTEM, GIVING THEM THE TOOLS AND KNOWLEDGE TO OPERATE THEIR SYSTEM.

CALDWELL
ASSOCIATES | ARCHITECTS

116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943

## PROJECT ISSUES:

3263 COTTAGE HILL RD, MOBILE, AL 36606

PHASE 1: 01 MAR 2022

PHASE 2: 30 MAR 2022

PHASE 3: 03 JUNE 2022

PROJECT TEAM:

ARCHITECTURAL
Caldwell Associates
STRUCTURAL
McCarthy Engineering
MECHANICAL

Anton Lee Engineering
ELECTRICAL
HG Engineers

#### PROJECT:

# ORIOLE BEACH ELEMENTARY - KITCHEN RENOVATION



#### 1260 ORIOLE BEACH RD, GULF BREEZE, FLORIDA

ENGINEER'S SEAL

PRELIMINARY.
PRELI

PROJECT NO. : SHEET TITLE:

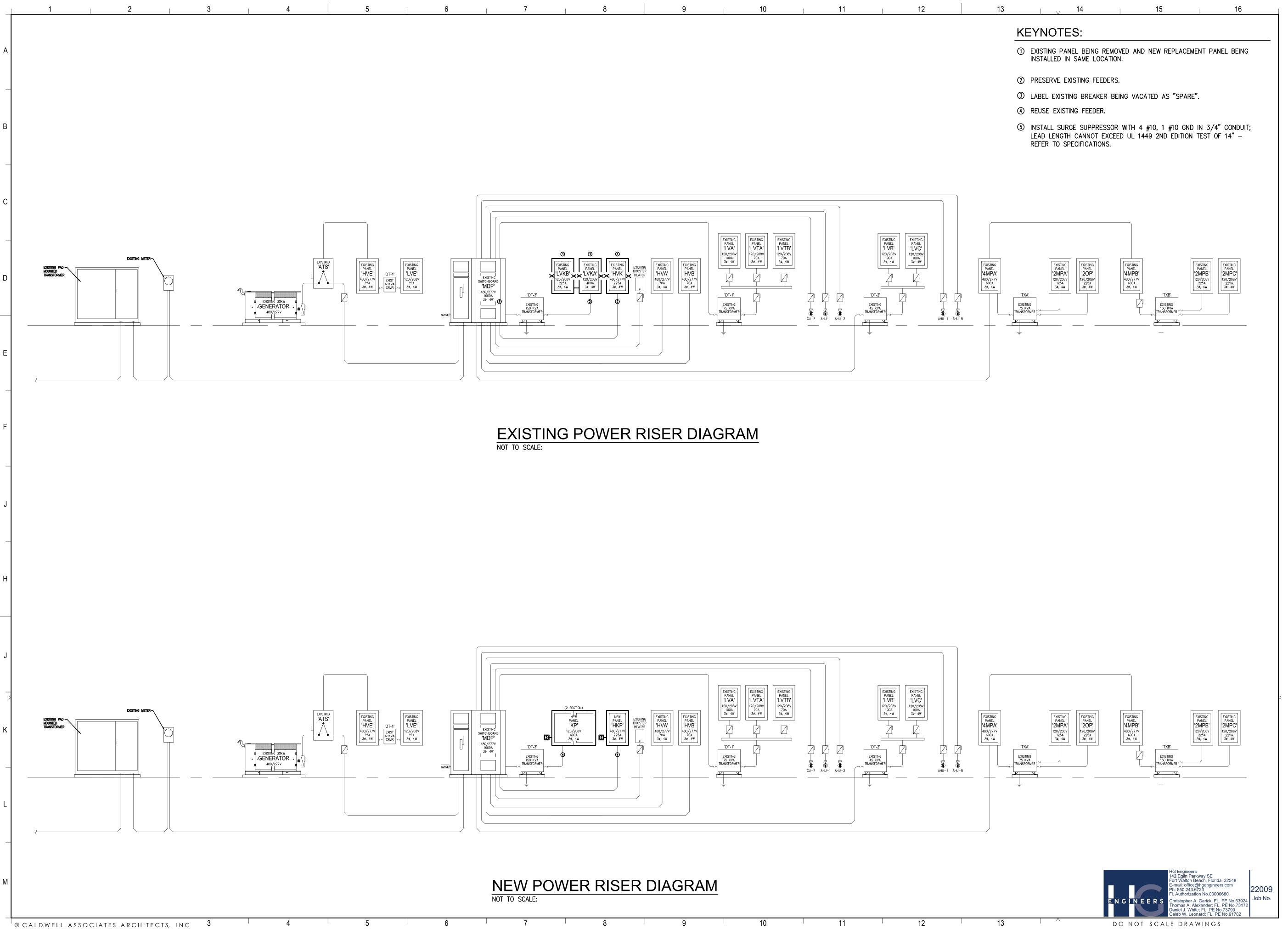
LIGHTING CONTROL DETAILS

SHEET NUMBER:

E502

HG Engineers
142 Eglin Parkway SE
Fort Walton Beach, Florida, 32548
E-mail: office@hgengineers.com
Ph: 850.243.6723
Fl. Authorization No.00006680

Christopher A. Garick; FL. PE No.53924
Thomas A. Alexander; FL. PE No.73172
Daniel J. White; FL. PE No.73790
Caleb W. Leonard; FL. PE No.91782



CALDWELL
ASSOCIATES | ARCHITECTS

ASSOCIATES | ARCHITECTS

116 N TARRAGONA STREET, PENSACOLA, FL 32502
(850) 432 9500 | CALDWELL-ASSOC.COM

Florida License No: AA26000721
Florida Interior Design License No: IB26000943

3263 COTTAGE HILL RD, MOBILE, AL 36606
Alabama License No: 3017

PROJECT ISSUES:

PHASE 1: 01 MAR 2022

PHASE 2: 30 MAR 2022

03 JUNE 2022

PHASE 3:

PROJECT TEAM:

ARCHITECTURAL

Caldwell Associates

STRUCTURAL

McCarthy Engineering

MECHANICAL

Anton Lee Engineering

ELECTRICAL

HG Engineers

PROJECT:

ORIOLE BEACH
ELEMENTARY - KITCHEN
RENOVATION



1260 ORIOLE BEACH RD, GULF BREEZE, FLORIDA

ENGINEER'S SEAL

PRELIMINARY.

PRELIMINARY.

PRELIMINARY.

PRELIMINARY.

PRELIMINARY.

PRELIMINARY.

PRELIMINARY.

PROJECT NO. : SHEET TITLE:

> POWER RISER DIAGRAM

SHEET NUMBER:

E601

PHASE 3

NEW POWER PANEL

ENGINEERS

LVK

 SYSTEM
 208/120V
 3Φ
 4W

 RATING
 400A
 M.C.B.
 65,000 AIC MINIMUM

 ENCLOSURE
 NEMA 1
 SURFACE MOUNT

 OPTIONS
 BOLT ON BREAKERS; 2 EQUAL SECTIONS

| CKT | SERVING                          | CKT  | BKR  | CONN  | ECTED  | CKT  | BKR  | SERVING                            | CKT |
|-----|----------------------------------|------|------|-------|--------|------|------|------------------------------------|-----|
| #   | SERVING                          | TRIP | POLE | LOAI  | ) (VA) | POLE | TRIP | SERVING                            | #   |
| 1   | REC - KITCHEN                    | 20   | 1    | 720   | 996    | 1    | 20   | REC - PASS-THRU REFRIGERATOR _ #17 | 2   |
| 3   | REC - FOOD SLICER _ #9           | 20   | 1    | 240   | 360    | 1    | 20   | REC - TOILET & EXTERIOR            | 4   |
| 5   | REC - CHILLER BLAST #10          | 20   | 1    | 1920  | 720    | 1    | 20   | REC - TOILET & CUSTODIAL           | 6   |
| 7   | REC - ICE MAKER _ #12            | 20   | 1    | 1320  | 500    | 1    | 20   | REC - MECH RM                      | 8   |
| 9   | REC - COLD FOOD TABLE _ #20      | 20   | 1    | 1500  | 996    | 1    | 20   | REC - PASS-THRU REFRIGERATOR _ #17 | 10  |
| 11  | REC - COLD FOOD TABLE _ #20      | 20   | 1    | 1500  | 360    | 1    | 20   | REC - SERVING ROOM                 | 12  |
| 13  | REC - MILK COOLER _ #21          | 20   | 1    | 912   | 1200   | 1    | 20   | REC - WASHER                       | 14  |
| 15  | REC - MILK COOLER _ #21          | 20   | 1    | 912   | 3500   | 2    | 30   | REC - THRU-WALL A/C UNIT **        | 16  |
| 17  | REC - CASHIER TERMINAL_#23       | 20   | 1    | 800   |        | -    |      |                                    | 18  |
| 19  | REC - COLD FOOD TABLE _ #20A     | 20   | 1    | 1008  | 5000   | 2    | 30   | REC - DRYER                        | 20  |
| 21  | AIR CURTAIN _ #28                | 20   | 1    | 612   |        | -    |      |                                    | 22  |
| 23  | DISHWASHER HOOD LTS & CONTROL    | 20   | 1    | 500   | 1200   | 1    | 20   | KITCHEN HOOD LTS & CONTROL         | 24  |
| 25  | KITCHEN EXHAUST FAN KEF-2        | 15   | 1    | 696   | 500    | 1    | 20   | KITCHEN HOOD ANSUL SYSTEM          | 26  |
| 27  | REC - WATER COOLER #29           | 20   | 1    | 1008  | 2702   | 3    | 15   | KITCHEN EXHAUST FAN KEF-1          | 28  |
| 29  | REC - 30QT MIXER #11             | 15   | 1    | 1920  |        | _    |      |                                    | 30  |
| 31  | LTS - WALK-IN FREEZER / REF #27  | 20   | 1    | 1000  |        | i=-  |      |                                    | 32  |
| 33  | REC - PASS-THRU HEAT CABINET #16 | 20   | 2    | 1622  | 1622   | 2    | 20   | REC - PASS-THRU HEAT CABINET #16   | 34  |
| 35  |                                  |      | :-   | :     |        | -    |      |                                    | 36  |
| 37  | REC - HOT FOOD TABLE #19         | 20   | 2    | 2530  | 2530   | 2    | 20   | REC - HOT FOOD TABLE #19           | 38  |
| 39  |                                  |      | -    |       |        | =    |      |                                    | 40  |
| 41  | WALK-IN FREEZER COMPRESSOR #27   | 40   | 3    | 7344  | 2764   | 2    | 20   | FREEZER EVAP COIL #27              | 42  |
| 43  |                                  |      |      |       |        | -    |      |                                    | 44  |
| 45  |                                  |      | :-   |       | 2378   | 3    | 15   | DISPOSER #7A                       | 46  |
| 47  | WALK-IN REFRIG COMPRESSOR #27    | 15   | 3    | 4284  |        | -    |      |                                    | 48  |
| 49  |                                  |      | -    |       |        | -    |      |                                    | 50  |
| 51  |                                  |      | -    |       | 1440   | 1    | 20   | REC - COMBI OVEN STEAMER - GAS #5  | 52  |
| 53  | CONVECTION OVEN #3               | 40   | 3    | 11000 |        | 1    |      | SHUNT TRIP *                       | 54  |
| 55  |                                  |      | :-   |       | 2378   | 3    | 15   | KITCHEN SUPPLY FAN _ KSF-1         | 56  |
| 57  |                                  |      | 1-   |       |        | -    |      |                                    | 58  |
| 59  | SHUNT TRIP *                     |      | 1    |       |        | -    |      |                                    | 60  |
| 61  | CONVECTION OVEN #3               | 40   | 3    | 11000 |        | 1    |      | SHUNT TRIP *                       | 62  |
| 63  |                                  |      | -    |       |        | _    |      | SPARE                              | 64  |
| 65  |                                  |      | :-   |       |        | -    |      | SPARE                              | 66  |
| 67  | SHUNT TRIP *                     |      | 1    |       |        | -    |      | SPARE                              | 68  |
|     | SPARE                            |      | -    |       |        | -    |      | SPARE                              | 70  |
|     | SPARE                            |      | -    |       |        | -    |      | SPARE                              | 72  |
|     | SPARE                            |      |      |       |        | _    |      | SPARE                              | 74  |
|     | SPARE                            |      | :-   |       |        | =    |      | SPARE                              | 76  |
| 77  | SPARE                            |      | -    |       |        |      |      | SPARE                              | 78  |
| 79  | SPACE ONLY                       |      | -    |       |        | 3    | 30   | SURGE PROTECTIVE DEVICE            | 80  |
| 81  | SPACE ONLY                       |      | -    |       |        | -    |      |                                    | 82  |
| 83  | SPACE ONLY                       |      | -    |       |        |      |      |                                    | 84  |
| 00  | 22.202 01.21                     |      |      |       |        |      |      |                                    | 0-1 |

NOTES:

\* INSTALL SHUNT TRIP BREAKER.

\*\* CORDINATE CIRCUIT REQUIREMENTS WITH EXISTING RELOCATED A/C PACKAGE UNIT.

TOTAL CONNECTED LOAD =

NEW POWER PANEL

HVK

SYSTEM 480/277V 3Φ 4W

RATING 225A M.L.O. 22,000 AIC MINIMUM

ENCLOSURE NEMA 1 SURFACE MOUNT

85494 VA / 360 = 237.5 A

|                |                                                                    | Oi        | HONS | BOLT O | N BREA | KERS; |      |                                    |    |
|----------------|--------------------------------------------------------------------|-----------|------|--------|--------|-------|------|------------------------------------|----|
| CKT            | SERVING                                                            | CKT       | BKR  | CONN   | ECTED  | CKT   | BKR  | SERVING                            | CK |
| #              | SERVING                                                            | TRIP POLE |      | LOAD   | (VA)   | POLE  | TRIP | SERVING                            |    |
| 1              | DISHWASHER_#1                                                      | 60        | 3    | 33838  | 9000   | 3     | 15   | SINK HEATER_#8A                    | 2  |
| 3              | 4                                                                  |           | =    |        |        | -     |      |                                    | 4  |
| 5              |                                                                    |           | -    |        |        | _     |      |                                    | 6  |
| 7              | BRAISING PAN_#2                                                    | 45        | 3    | 16627  |        | -     |      | SPARE                              | 8  |
| 9              |                                                                    |           | -1   |        |        | -     |      | SPARE                              | 10 |
| 11             |                                                                    |           |      |        |        | -     |      | SPARE                              | 12 |
| 13             | SHUNT TRIP *                                                       |           | 1    |        |        | -     |      | SPARE                              | 14 |
| 15             | SPARE                                                              |           | -    |        |        | -     |      | SPARE                              | 16 |
| 17             | SPARE                                                              |           | -    |        |        | -     |      | SPARE                              | 18 |
| 19             | SPARE                                                              |           |      |        |        | -     |      | SPARE                              | 20 |
| 21             | SPARE                                                              |           | -4   |        |        | -     |      | SPARE                              | 22 |
| 23             | SPARE                                                              |           | _    |        |        | _     |      | SPARE                              | 24 |
| 25             | SPACE ONLY                                                         |           | -    |        |        | -     |      | SPACE ONLY                         | 26 |
| 27             | SPACE ONLY                                                         |           | -    |        |        | -     |      | SPACE ONLY                         | 28 |
| 29             | SPACE ONLY                                                         |           | -    |        |        | -     |      | SPACE ONLY                         | 30 |
| 31             | SPACE ONLY                                                         |           |      |        |        | -     |      | SPACE ONLY                         | 32 |
| 33             | SPACE ONLY                                                         |           | -1   |        |        | -     |      | SPACE ONLY                         | 34 |
| 35             | SPACE ONLY                                                         |           | -    |        |        | -     |      | SPACE ONLY                         | 36 |
| 37             | SPACE ONLY                                                         |           | -    |        |        | 3     | 30   | SURGE PROTECTIVE DEVICE            | 38 |
| 39             | SPACE ONLY                                                         |           | -    |        |        | _     |      |                                    | 40 |
| 41             | SPACE ONLY                                                         |           |      |        |        | -     |      |                                    | 42 |
| 35<br>37<br>39 | SPACE ONLY SPACE ONLY SPACE ONLY SPACE ONLY TOTAL CONNECTED LOAD = | <br><br>  | -    |        |        | 3     | 30   | SPACE ONLY SURGE PROTECTIVE DEVICE |    |

NEW POWER PANEL

9 10 11

13

14

15

| CKT | SERVING          | CKT            | BKR | CONN | ECTED | CKT  | BKR     | SERVING          |   |  |  |
|-----|------------------|----------------|-----|------|-------|------|---------|------------------|---|--|--|
| #   | SERVING          | TRIP POLE LOAD |     | (VA) | POLE  | TRIP | SERVING |                  |   |  |  |
| 1   | HP-19A           | 35             | 3   | 7565 | 1415  | 2    | 15      | AHU-19A          | 1 |  |  |
| 3   |                  |                | -   | 1    |       | ī    | 1       | AHU-19A          | 4 |  |  |
| 5   |                  | -              | -   | Į    | Ī     | 2    |         | AHU-15           |   |  |  |
| 7   | EXTERIOR RECEPT. |                | 1   |      |       | -    |         | AHU-15           |   |  |  |
| 9   | RADIO BOOSTER    |                | 1   |      |       | 1    |         | EXTERIOR RECEPT. | ] |  |  |
| 11  | UNKOWN           |                | 1   |      |       | 1    |         | RECEPT. RM 033   | 1 |  |  |
| 13  | UNKOWN           |                | 1   |      |       | 1    | -       | EF-11, EF-12     |   |  |  |
| 15  | UNKNOWN          |                | 1   |      |       | 1    |         | HVAC CONTROL     | 1 |  |  |
| 17  | HP-19B           | 35             | 3   | 7565 |       | 2    |         | COM RM A/L       | 1 |  |  |
| 19  |                  |                |     |      |       | -    |         | ***              | 2 |  |  |
| 21  |                  |                | ne. |      | 1415  | 2    | 15      | AHU-19B          |   |  |  |
| 23  | SPACE ONLY       |                | -   |      |       | -    |         |                  | 2 |  |  |
| 25  | SPACE ONLY       |                | -   |      |       | -    |         | SPACE ONLY       | 2 |  |  |
| 27  | SPACE ONLY       |                | -   |      |       | -    |         | SPACE ONLY       | 2 |  |  |
| 29  | SPACE ONLY       |                | -   |      |       | -    |         | SPACE ONLY       | 3 |  |  |

17960 VA / 360 = 49.9 A

TOTAL CONNECTED LOAD =

\* INSTALL SHUNT TRIP BREAKER.

CALDWELL ASSOCIATES | ARCHITECTS

116 N TARRAGONA STREET, PENSACOLA, FL 32502
(850) 432 9500 | CALDWELL-ASSOC.COM
Florida License No: AA26000721
Florida Interior Design License No: IB26000943

3263 COTTAGE HILL RD, MOBILE, AL 36606

PROJECT ISSUES:

PHASE 1: 01 MAR 2022

PHASE 2: 30 MAR 2022

Alabama License No: 3017

PHASE 3: 03 JUNE 2022

PROJECT TEAM:

ARCHITECTURAL

Caldwell Associates
STRUCTURAL

MECHANICAL
Anton Lee Engineering
ELECTRICAL
HG Engineers

McCarthy Engineering

PROJECT:

ORIOLE BEACH
ELEMENTARY - KITCHEN
RENOVATION



1260 ORIOLE BEACH RD, GULF BREEZE, FLORIDA

ENGINEER'S SEAL

PRELIMINARY.

PRELIMINARY.

CONSTRUCTION

CONSTRUCTION

PROJECT NO. : SHEET TITLE:

> ELECTRICAL PANEL SCHEDULES

SHEET NUMBER:

22009

E701

HG Engineers
142 Eglin Parkway SE
Fort Walton Beach, Florida, 3254
E-mail: office@hgengineers.com
Ph: 850.243.6723
Fl. Authorization No.00006680
Christopher A. Garick; FL. PE No.
Thomas A. Alexander; FL. PE No.
Daniel J. White; FL. PE No.7379
Caleb W. Leonard; FL. PE No.91

DO NOT SCALE DRAWINGS

NEW POWER PANEL SYSTEM 208/120V  $3\Phi$  4WRATING 400A M.L.O. 22,000 AIC MINIMUM **ENCLOSURE** NEMA 1 SURFACE MOUNT

|           |                                  | OH   | TIONS | BOLT O | N BREA | KERS; 2 | EQUAI | L SECTIONS                         | <u> </u> |
|-----------|----------------------------------|------|-------|--------|--------|---------|-------|------------------------------------|----------|
| CKT       | CEDVING                          | CKT  | BKR   | CONN   | ECTED  | CKT     | BKR   | CEDVIDIC                           | CK       |
| #         | SERVING                          | TRIP | POLE  | LOAI   | ) (VA) | POLE    | TRIP  | SERVING                            |          |
| 1         | REC - CASHIER TERMINAL_M         | 20   | 1     | 800    | 2530   | 2       | 20    | REC - HOT FOOD TABLE _ L           | 2        |
| 3         | REC - COLD FOOD TABLE _ L        | 20   | 1     | 1104   |        | -       |       |                                    | 4        |
| 5         | REC - COLD FOOD TABLE _ L        | 20   | 1     | 1104   | 1440   | 1       | 20*   | REC - COMBI OVEN STEAMER - GAS _ F | 6        |
| 7         | REFRIGERATOR_I                   | 15   | 1     | 1334   | 1320   | 1       | 20    | REC - ICE MAKER _ D                | 8        |
| 9         | REC - MILK COOLER _ A            | 20   | 1     | 1320   | 2530   | 2       | 20    | REC - HOT FOOD TABLE _ L           | 10       |
| 11        | REC - MILK COOLER _ A            | 20   | 1     | 1320   |        | -       |       |                                    | 12       |
| 13        | REC - PASS-THRU HEAT CABINET _ K | 20   | 2     | 3224   | 3224   | 2       | 20    | REC - PASS-THRU HEAT CABINET _ K   | 14       |
| <b>15</b> |                                  |      | -     |        |        | -       |       |                                    | 10       |
| 17        | CONVECTION OVEN_G                | 35   | 3     | 11000  | 996    | 1       | 20    | REC - PASS-THRU REFRIGERATOR _ J   | 18       |
| 19        |                                  |      | -     |        |        |         |       |                                    | 20       |
| 21        |                                  |      | -     |        |        |         |       |                                    | 22       |
| 23        |                                  |      |       |        |        |         |       |                                    | 24       |
| 25        |                                  |      |       |        |        |         |       |                                    | 20       |
| 27        |                                  |      |       |        |        |         |       |                                    | 28       |
| 29        |                                  |      |       |        |        |         |       |                                    | 30       |
| 31        |                                  |      |       |        |        |         |       |                                    | 32       |
| 33        |                                  |      |       |        |        |         |       |                                    | 3        |
| 35        |                                  |      |       |        |        |         |       |                                    | 3        |
| 37        |                                  |      |       |        |        |         |       |                                    | 38       |
| 39        |                                  |      |       |        |        |         |       |                                    | 40       |
| 41        |                                  |      |       |        |        |         |       |                                    | 42       |
| 43        |                                  |      |       |        |        |         |       |                                    | 4        |
| 45        |                                  |      |       |        |        |         |       |                                    | 4        |
| 47        |                                  |      |       |        |        |         |       |                                    | 48       |
| 49        |                                  |      |       |        |        |         |       |                                    | 50       |
| 51        |                                  |      |       |        |        |         |       |                                    | 52       |
| 53        |                                  |      |       |        |        |         |       |                                    | 5-       |
| 55        |                                  |      |       |        |        |         |       |                                    | 5        |
| 57        |                                  |      |       |        |        |         |       |                                    | 5        |
| 59        |                                  |      |       |        |        |         |       |                                    | 6        |
| 61        |                                  |      |       |        |        |         |       |                                    | 6        |
| 63        |                                  |      |       |        |        |         |       |                                    | 6        |
| 65        |                                  |      |       |        |        |         |       |                                    | 6        |
| 67        |                                  |      |       |        |        |         |       |                                    | 6        |
| 69        |                                  |      |       |        |        |         |       |                                    | 7        |
| 71        |                                  |      |       |        |        |         |       |                                    | 7:       |
| 73        |                                  |      |       |        |        |         |       |                                    | 74       |
| 75        |                                  |      |       |        |        |         |       |                                    | 7        |
| 77        |                                  |      |       |        |        |         |       |                                    | 7        |
| 79        | SPACE ONLY                       |      | -     |        |        | 3       | 30    | SURGE PROTECTIVE DEVICE            | 8        |
| 81        | SPACE ONLY                       |      | -     |        |        | -       |       |                                    | 8:       |
| 83        | SPACE ONLY                       |      | -     |        |        | -       |       |                                    | 8        |

|                          | TEMPORARY SERVING LINE EQUIPMENT COORDINATION SCHEDULE  (VERIFY ALL EQUIPMENT CIRCUIT REQUIREMENTS WITH MANUFACTURERS SHOP DRAWINGS PRIOR TO ROUGH-IN) |     |         |       |             |        |       |        |          |        |        |           |           |         |                      |                        |                     |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|-------|-------------|--------|-------|--------|----------|--------|--------|-----------|-----------|---------|----------------------|------------------------|---------------------|
|                          |                                                                                                                                                        |     | (VERIFY | ALL E | QUIPMENT C  | IRCUIT | REQU  | IREMEN | NT S W I | TH MAN | UFACTU | RERS SHOP | DRAWINGS  | SPRIOR  | Γ <b>O RO</b> UGH-IN | ()                     |                     |
| z                        |                                                                                                                                                        |     |         |       | Ą           | ]      | PROTE | CTION  |          | C      |        |           | NDUIT SIZ | Œ       | _                    | _                      |                     |
| INT                      |                                                                                                                                                        |     |         |       | D V.        |        |       | SPEC   | IFIED    | l      | (      | CONDUCTO  | ) RS      | _       | F<br>EC              | NG<br>AFF              |                     |
| EQUIPMENT<br>DESIGNAITON | DESCRIPTION                                                                                                                                            | QTY | VOLT    | Φ     | CONNECTED Y | MCA    | MOCP  | TRIP   | POLE     | SETS   | QTY.   | SIZE      | GND       | CONDUIT | MEANS OF<br>DISCONNE | MOUNTING<br>HEIGHT AFI | REMARKS             |
| A                        | MILK COOLER                                                                                                                                            | 2   | 120 V   | 1     | 1320 VA     |        |       | 20     | 1        | 1      | 2      | #12       | #12       | 3/4"    | REC                  | 18"                    | HOMERUN VIA ITEM 22 |
| В                        | 3' X 4' PREP TABLE                                                                                                                                     | 1   |         |       |             |        |       |        |          |        |        |           |           |         |                      |                        |                     |
| С                        | HAND SINK                                                                                                                                              | 2   |         |       |             |        |       |        |          |        |        |           |           |         |                      |                        |                     |
| D                        | ICE MAKER                                                                                                                                              | 1   | 120 V   | 1     | 1320 VA     |        |       | 20     | 1        | 1      | 2      | #12       | #12       | 3/4"    | REC                  | 18"                    | EXISTING            |
| Е                        | 2 COMPARTMENT SINK                                                                                                                                     | 1   |         |       |             |        |       |        |          |        |        |           |           |         |                      |                        |                     |
| F                        | COMBI OVEN STEAMER - GAS                                                                                                                               | 1   | 120 V   | 1     | 1440 VA     | 15     | 20    | 20     | 1        | 1      | 2      | #12       | #12       | 3/4"    | REC                  |                        |                     |
| G                        | CONVECTION OVEN - ELECTRIC                                                                                                                             | 2   | 208 V   | 3     | 11000 VA    | 30.5   | 35    | 35     | 3        | 1      | 2      | #8        | #10       | 3/4"    | 60/3/1               | 48"                    |                     |
| Н                        | PREP TABLE                                                                                                                                             | 2   |         |       |             |        |       |        |          |        |        |           |           |         |                      |                        |                     |
| I                        | REFRIGERA TOR                                                                                                                                          | 1   | 120 V   | 1     | 1344 VA     | 15     | 15    | 15     | 1        | 1      | 2      | #12       | #12       | 3/4"    | REC                  | 18"                    |                     |
| J                        | PASS-THRU REFRIGERATOR                                                                                                                                 | 1   | 120 V   | 1     | 996 VA      | 10.4   | 20    | 20     | 1        | 1      | 2      | #12       | #12       | 3/4"    | REC                  | 48"                    |                     |
| K                        | PASS-THRU HEATED CABINET                                                                                                                               | 1   | 208 V   | 1     | 3224 VA     | 20     | 20    | 20     | 2        | 1      | 3      | #12       | #12       | 3/4"    | L14-20R              | 48"                    |                     |
| L                        | HOT FOOD TABLES                                                                                                                                        | 2   | 208 V   | 1     | 2530 VA     |        |       | 20     | 2        | 1      | 3      | #12       | #12       | 3/4"    | 6-20R                | 18"                    | HOMERUN VIA ITEM 22 |
| L                        | COLD FOOD TABLE                                                                                                                                        | 2   | 120 V   | 1     | 1104 VA     |        |       | 20     | 1        | 1      | 2      | #12       | #12       | 3/4"    | REC                  | 18"                    | HOMERUN VIA ITEM 22 |
| M                        | CASHIER STAND (TWO)                                                                                                                                    | 2   | 120 V   | 1     | 200 VA      |        |       | 20     | 1        | 1      | 2      | #12       | #12       | 3/4"    | 5-20R                | TABLE HT.              |                     |
| N                        | ELECTRICAL CHASE                                                                                                                                       |     |         |       |             |        |       |        |          |        |        |           |           |         |                      |                        |                     |

|                          | NEW KITCHEN EQUIPMENT COORDINATION SCHEDULE |                                                         |         |       |             |          |      |       |        |        |        |           |         |           |                        |                        |                               |
|--------------------------|---------------------------------------------|---------------------------------------------------------|---------|-------|-------------|----------|------|-------|--------|--------|--------|-----------|---------|-----------|------------------------|------------------------|-------------------------------|
|                          |                                             |                                                         | (VERIFY | ALL E | QUIPMENT C  | CIRCUIT  | REQU | IREME | NTS WI | ΓΗ MAN | UFACTU | RERS SHOP | DRAWING | S PRIOR 7 | ΓO ROUGH-IN            | )                      |                               |
| Z                        |                                             | PROTECTION CONDUCTOR / CONDUCTORS  SPECIFIED CONDUCTORS |         |       |             |          |      |       |        |        |        |           |         |           |                        |                        |                               |
|                          |                                             |                                                         |         |       | ED V        |          |      | SPEC  | IFIED  |        | (      | CONDUCTO  | RS      | -         | F<br>ECJ               | AFF                    |                               |
| PMI<br>SNA               |                                             |                                                         |         |       | SCT.        |          |      |       |        |        |        |           |         | 110       | IS O                   |                        |                               |
| EQUIPMENT<br>DESIGNAITON |                                             |                                                         |         |       | CONNECTED ' | <b>Y</b> | MOCP | _     | POLE   | LS     | Y.     | H         |         | CONDUIT   | MEANS OF<br>DISCONNECT | MOUNTING<br>HEIGHT AFF |                               |
| EC                       | DESCRIPTION                                 | QTY                                                     | VOLT    | Φ     | CO          | MCA      | MC   | TRIP  | PO     | SETS   | QTY.   | SIZE      | GND     | ပိ        | M                      | M H                    | REMARKS                       |
| 1                        | DISHWASHER                                  | 1                                                       | 480 V   | 3     | 33822 VA    |          |      | 60    | 3      | 1      | 4      | #6        | #10     | 1"        | СВ                     |                        | EXISTING                      |
| 2                        | MODULAR TILTING BRAISING PAN                | 1                                                       | 480 V   | 3     | 16627 VA    |          |      | 45    | 3      | 1      | 4      | #8        | #10     | 3/4"      | СВ                     |                        |                               |
| 3                        | CONVECTION OVEN - ELECTRIC                  | 2                                                       | 208 V   | 3     | 11000 VA    |          |      | 40    | 3      | 1      | 4      | #8        | #10     | 3/4"      | СВ                     |                        | 2 POWER SUPPLYS               |
| 4                        | GAS RANGE                                   |                                                         |         |       |             |          |      |       |        |        |        |           |         |           |                        |                        |                               |
| 5                        | COMBI OVEN STEAMER - GAS                    | 1                                                       | 120 V   | 1     | 1440 VA     | 12       |      | 20    | 1      | 1      | 2      | #12       | #12     | 3/4"      | REC                    | 48"                    |                               |
| 6                        | HOSE REEL                                   |                                                         |         |       |             |          |      |       |        |        |        |           |         |           |                        |                        |                               |
| 7                        | VEGETA BLE SINK                             |                                                         |         |       |             |          |      |       |        |        |        |           |         |           |                        |                        |                               |
| 7A                       | DISPOSER                                    | 1                                                       | 208 V   | 3     | 2376 VA     |          |      | 15    | 3      | 1      | 4      | #12       | #12     | 3/4"      | СВ                     |                        | POWER VIA DISPOSER CONTROLS   |
| 8                        | SCULLERY SINK                               |                                                         |         |       |             |          |      |       |        |        |        |           |         |           |                        |                        |                               |
| 8A                       | SINK HEATER                                 | 1                                                       | 480 V   | 3     | 9000 VA     |          |      | 15    | 3      | 1      | 4      | #12       | #12     | 3/4"      | СВ                     |                        |                               |
| 9                        | FOOD SLICER                                 | 1                                                       | 120 V   | 1     | 240 VA      |          |      | 20    | 1      | 1      | 2      | #12       | #12     | 3/4"      | REC                    | 48"                    |                               |
| 10                       | CHILLER-BLAST                               | 1                                                       | 120 V   | 1     | 1920 VA     |          |      | 20    | 1      | 1      | 2      | #12       | #12     | 3/4"      | REC                    | 18"                    |                               |
| 11                       | MIXER-FLOOR                                 | 1                                                       | 208 V   | 1     | 2496 VA     |          |      | 15    | 2      | 1      | 3      | #12       | #12     | 3/4"      | 6-20R                  | 18"                    |                               |
| 12                       | ICE MAKER                                   | 1                                                       | 120 V   | 1     | 1320 VA     |          |      | 20    | 1      | 1      | 2      | #12       | #12     | 3/4"      | REC                    | 18"                    | EXISTING                      |
| 15                       | WORK TABLE                                  |                                                         |         |       |             |          |      |       |        |        |        |           |         |           |                        |                        |                               |
| 16                       | PASS-THRU HEATED CABINET                    | 2                                                       | 208 V   | 1     | 1622 VA     |          |      | 20    | 2      | 1      | 3      | #12       | #12     | 3/4"      | L14-20R                | 48"                    |                               |
| 17                       | PASS-THRU REFRIGERATOR                      | 2                                                       | 120 V   | 1     | 864 VA      |          |      | 20    | 1      | 1      | 2      | #12       | #12     | 3/4"      | REC                    | 48"                    |                               |
| 18                       | TRAYSTAND                                   |                                                         |         |       |             |          |      |       |        |        |        |           |         |           |                        |                        |                               |
| 19                       | HOT FOOD TABLE                              | 2                                                       | 208 V   | 1     | 2530 VA     |          |      | 20    | 2      | 1      | 3      | #12       | #12     | 3/4"      | 6-15R                  | TABLE HT.              | HOMERUN VIA ITEM 22           |
| 20                       | COLD FOOD TABLES                            | 2                                                       | 120 V   | 1     | 1104 VA     |          |      | 20    | 1      | 1      | 2      | #12       | #12     | 3/4"      | REC                    | TABLE HT.              | HOMERUN VIA ITEM 22           |
| 21                       | MILK COOLER                                 | 2                                                       | 120 V   | 1     | 912 VA      |          |      | 20    | 1      | 1      | 2      | #12       | #12     | 3/4"      | REC                    | 18"                    | HOMERUN VIA ITEM 22           |
| 22                       | ELECTRICAL CHASE                            |                                                         |         |       |             |          |      |       |        |        |        |           |         |           |                        |                        |                               |
| 23                       | CASHIER STAND (TWO)                         | 2                                                       | 120 V   | 1     | 200 VA      |          |      | 20    | 1      | 1      | 2      | #12       | #12     | 3/4"      | REC                    | 18"                    | HOMERUN VIA ITEM 22           |
| 24                       | DISH RACK                                   |                                                         |         |       |             |          |      |       |        |        |        |           |         |           |                        |                        |                               |
| 25                       | WASHER                                      | 1                                                       | 120 V   | 1     | 1200 VA     | 10       | 20   | 20    | 1      | 1      | 2      | #12       | #12     | 3/4"      | REC                    |                        |                               |
| 26                       | DRYER                                       | 1                                                       | 208 V   | 1     | 5000 VA     |          |      | 30    | 2      | 1      | 3      | #12       | #12     | 3/4"      |                        |                        |                               |
|                          |                                             |                                                         | 120 V   | 1     | 1000 VA     | 10.4     | 20   | 20    | 1      | 1      | 2      | #12       | #12     | 3/4"      | 1P. TOGG               | 48"                    | LIGHTS/EVAP COIL/DOOR HEAT    |
| 27                       | WALV IN COOLED/EDEEZED                      | 1                                                       | 208 V   | 1     | 2746 VA     | 16.5     | 20   | 20    | 2      | 1      | 3      | #12       | #12     | 3/4"      | 2P. TOGG               | EQUPT. HT.             | EVAP COIL                     |
| 27                       | WALK IN COOLER/FREEZER                      | 1                                                       | 208 V   | 3     | 4284 VA     | 15       | 15   | 15    | 3      | 1      | 4      | #12       | #12     | 3/4"      | 30/3/3R                | 30" AFG                | REMOTE COMPRESSOR 1           |
|                          |                                             |                                                         | 208 V   | 3     | 7344 VA     | 25.5     | 40   | 40    | 3      | 1      | 4      | #8        | #10     | 3/4"      | 60/3/3R                | 30" AFG                | REMOTE COMPRESSOR 2           |
| 28                       | AIR CURTAIN                                 | 1                                                       | 120 V   | 1     | 612 VA      | 6.4      | 20   | 20    | 1      | 1      | 2      | #12       | #12     | 3/4"      | 1P. TOGG               | ABV. DOOR              | EXISTING                      |
| 29                       | BOTTLED WATER COOLER                        | 2                                                       | 120 V   | 1     | 1008 VA     | 10.5     | 20   | 20    | 1      | 1      | 2      | #12       | #12     | 3/4"      | REC                    | 18"                    | OWNER FURNISHED; GC INSTALLED |

33246 VA / 360 = 92.4 A

|                          |                                                                                       |      |      | M     | EC     | H       | AN                  | <b>JIC</b>          | A        | _ EQ                     | <u>u</u> | PN    | ΛE     | NT      | S       | CH      | EDL        | ILE      |         |          |                            |
|--------------------------|---------------------------------------------------------------------------------------|------|------|-------|--------|---------|---------------------|---------------------|----------|--------------------------|----------|-------|--------|---------|---------|---------|------------|----------|---------|----------|----------------------------|
|                          |                                                                                       |      |      | (VERI | FY ALL | EQUIP   | MENT                | CIRCUI              | IT REQ   | UIREMENTS                | WITH     | MANUI | FACTUE | RERS SH | IOP DRA | WINGS P | RIOR TO RO | OUGH-IN) |         |          |                            |
|                          | ELECTRICAL LOAD PROTECTION CONDUCTOR / CONDUCTORS  MO TOR(S) FLA SPECIFIED CONDUCTORS |      |      |       |        |         |                     |                     |          |                          |          |       |        |         |         |         |            |          |         |          |                            |
| EQUIPMENT<br>DESIGNAITON | DESCRIPTION                                                                           | CFM  | VOLT | Φ     | QTY    | LARGEST | SUM OF<br>REMAINING | ELECTRIC<br>HEAT KW | OTHER VA | TOTAL<br>CONNECTED<br>VA | МСА      | MOCP  | TRIP   | POLE    | SETS    | QTY.    | SIZE       | GND      | CONDUIT | DISC.    | REMARKS                    |
|                          |                                                                                       |      |      |       |        |         |                     |                     |          |                          |          |       |        |         |         |         |            |          |         |          |                            |
| AHU-19A                  | AIR HANDLING UNIT                                                                     | 1645 | 208  | 1     | 1      | 6.8     |                     | 10.8                |          | 12214                    | 9        | 15    | 15     | 2       | 1       | 3       | #8         | #10      | 3/4"    | 30/2/1   | INCREASED FOR VOLTAGE DROP |
| AHU-19B                  | AIR HANDLING UNIT                                                                     | 1645 | 208  | 1     | 1      | 6.8     |                     | 10.8                |          | 12214                    | 9        | 15    | 15     | 2       | 1       | 3       | #8         | #10      | 3/4"    | 30/2/1   | INCREASED FOR VOLTAGE DROP |
| HPU-19A                  | HEAT PUMP UNIT                                                                        |      | 208  | 3     | 1      | 15.9    |                     |                     |          | 5728                     | 21       | 35    | 35     | 3       | 1       | 4       | #4         | #8       | 1-1/4"  | 60/3/3R  | INCREASED FOR VOLTAGE DROP |
| HPU-19B                  | HEAT PUMP UNIT                                                                        |      | 208  | 3     | 1      | 15.9    |                     |                     |          | 5728                     | 21       | 35    | 35     | 3       | 1       | 4       | #4         | #8       | 1-1/4"  | 60/3/3R  | INCREASED FOR VOLTAGE DROP |
| KSF-1                    | KITCHEN SUPPLY FAN                                                                    | 3011 | 208  | 3     | 1      | 6.6     |                     | +                   |          | 2378                     | 8.9      | 15    | 15     | 3       | 1       | 4       | #12        | #12      | 3/4"    | 30/3/1   |                            |
| KEF-1                    | KITCHEN EXHAUST FAN                                                                   | 3764 | 208  | 3     | 1      | 7.5     |                     |                     |          | 2702                     | 9.38     | 15    | 15     | 3       | 1       | 4       | #12        | #12      | 3/4"    | 30/3/1   |                            |
| KEF-2                    | KITCHEN EXHAUST FAN                                                                   | 800  | 120  | 1     | 1      | 5.8     |                     |                     |          | 696                      | 7.25     | 15    | 15     | 1       | 1       | 3       | #12        | #12      | 3/4"    | 1P. TOGG |                            |
| EF-1                     | EXHAUST FAN                                                                           |      | 120  |       |        | 0.5     |                     |                     |          | 60                       | 0.6      | 15    | 15     | 1       | 1       | 2       | #12        | #12      | 3/4"    | 1P. TOGG | INTERLOCK WITH LIGHTS      |
| EF-2                     | EXHAUST FAN                                                                           |      | 120  |       |        | 0.5     |                     |                     |          | 60                       | 0.6      | 15    | 15     | 1       | 1       | 2       | #12        | #12      | 3/4"    |          | INTERLOCK WITH LIGHTS      |



ASSOCIATES | ARCHITEC

15

116 N TARRAGONA STREET, PENSACOLA, FL 32502 (850) 432 9500 | CALDWELL-ASSOC.COM Florida License No: AA26000721 Florida Interior Design License No: IB26000943

3263 COTTAGE HILL RD, MOBILE, AL 36606 Alabama License No: 3017

PROJECT ISSUES:

PHASE 1: 01 MAR 2022

PHASE 2: 30 MAR 2022

03 JUNE 2022

PHASE 3:

PROJECT TEAM: ARCHITECTURAL Caldwell Associates STRUCTURAL McCarthy Engineering MECHANICAL Anton Lee Engineering ELECTRICAL HG Engineers

PROJECT:

**ORIOLE BEACH ELEMENTARY - KITCHEN RENOVATION** 



1260 ORIOLE BEACH RD, **GULF BREEZE, FLORIDA** 

ENGINEER'S SEAL

PROJECT NO. : SHEET TITLE:

**EQUIPMENT** SCHEDULES

SHEET NUMBER:

© CALDWELL ASSOCIATES ARCHITECTS, INC

\* INSTALL SHUNT TRIP BREAKER.

TOTAL CONNECTED LOAD =

\*\* USE NEW PANEL KP FOR TEMPORARY SERVICE LINE

BOTTLED WATER COOLER

DO NOT SCALE DRAWINGS