

SANTA ROSA COUNTY SCHOOL DISTRICT

ORIOLE BEACH ELEMENTARY SCHOOL -

KITCHEN RENOVATION

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
3243 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

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**

**-PRELIMINARY -
NOT FOR
CONSTRUCTION**

PROJECT NO. : 21065
SHEET TITLE:
COVER SHEET

SHEET NUMBER:
G001

PHASE 3



1 LOCATION MAP

G001 NOT TO SCALE

2 VICINITY MAP

G001 NOT TO SCALE

DO NOT SCALE DRAWINGS

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PROJECT NO. :21065
SHEET TITLE:
INDEX OF DRAWINGS

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G002

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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 BUILDING CODE - MECHANICAL	7th EDITION, 2020	(FBC-M)
FLORIDA BUILDING CODE - ELECTRICAL	7th EDITION, 2020	(FBC-E)
FLORIDA FIRE PREVENTION CODE	7th EDITION, 2020	(FFPC)

BUILDING CLASSIFICATION AND LIMITATIONS

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

	CODE CITATION	01-Floor	
		REQUIRED	PROVIDED
OCCUPANT LOAD	1004.5	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"	N/A
	1009.3.2	48"	
	1011.2	36"	
COMMON PATH OF TRAVEL	1006.2.1	75'	N/A
EXIT ACCESS TRAVEL	1017.2.1	200'	31'
NOTES: NO CONSIDERATIONS FOR MEANS OF EGRESS HAVE BEEN MADE DUE TO NO CHANGES MADE TO OCCUPANY LOAD OR TRAVEL DISTANCES			

OCCUPANT LOAD

PER TABLE 1004.5

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

FIRE RESISTANCE

BUILDING ELEMENT (TABLE 601)		RATING REQUIRED
PRIMARY STRUCTURAL FRAME		0
BEARING WALLS		0
EXTERIOR		0
INTERIOR		0
NONBEARING WALLS AND PARTITIONS EXTERIOR (TABLE 705.5)	X < 5'	1 ¹
	5' ≤ X < 10'	1 ¹
	10' ≤ X < 30'	0
30' ≥ X		0
NONBEARING WALLS AND PARTITIONS		
	INTERIOR (TABLE 601)	0
	CORRIDOR (TABLE 1020.1)	0 ²
FLOOR CONSTRUCTION AND SECONDARY STRUCTURAL MEMBERS		0
ROOF CONSTRUCTION AND SECONDARY STRUCTURAL MEMBERS		0

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

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PROJECT NO. : 21065
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CODE ANALYSIS

SHEET NUMBER:
G004
PHASE 3

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LEGEND

- 2 HR RATED CONSTRUCTION
- 1 HR RATED CONSTRUCTION
- TRAVEL PATH
- COMMON PATH
- EXIT SIGN
- FEC FIRE EXTINGUISHER CABINET; SEE DETAILS
- FE FIRE EXTINGUISHER
- KNOX BOX; CONTRACTOR TO COORDINATE WITH FIRE MARSHAL FOR EQUIPMENT AND LOCATION
- TOTAL TRAVEL DISTANCE TO EXIT COMMON PATH OF TRAVEL

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GENERAL NOTES

- SEE SHEET G003 FOR CODE ANALYSIS
- SEE ENGINEERING DRAWINGS FOR OTHER FIRE PROTECTION FEATURES

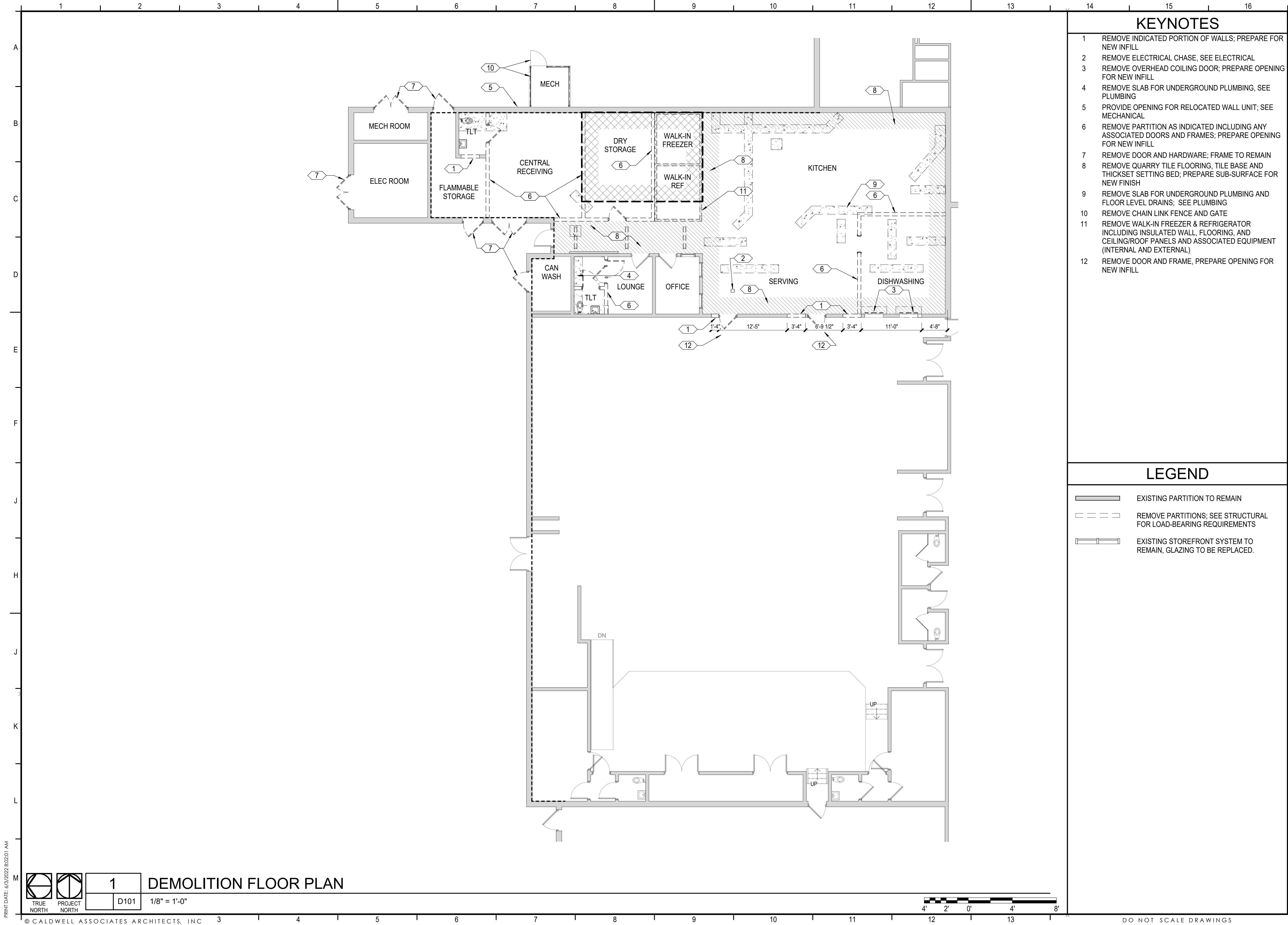
PROJECT NO. : 21065
SHEET TITLE:

LIFE SAFETY PLAN & CODE ANALYSIS

SHEET NUMBER:

G101

PHASE 3



KEYNOTES

- 1 REMOVE INDICATED PORTION OF WALLS; PREPARE FOR NEW INFILL
- 2 REMOVE ELECTRICAL CHASE, SEE ELECTRICAL
- 3 REMOVE OVERHEAD COILING DOOR; PREPARE OPENING FOR NEW INFILL
- 4 REMOVE SLAB FOR UNDERGROUND PLUMBING, SEE PLUMBING
- 5 PROVIDE OPENING FOR RELOCATED WALL UNIT; SEE MECHANICAL
- 6 REMOVE PARTITION AS INDICATED INCLUDING ANY ASSOCIATED DOORS AND FRAMES; PREPARE OPENING FOR NEW INFILL
- 7 REMOVE DOOR AND HARDWARE; FRAME TO REMAIN
- 8 REMOVE QUARRY TILE FLOORING, TILE BASE AND THICKSET SETTING BED; PREPARE SUB-SURFACE FOR NEW FINISH
- 9 REMOVE SLAB FOR UNDERGROUND PLUMBING AND FLOOR LEVEL DRAINS; SEE PLUMBING
- 10 REMOVE CHAIN LINK FENCE AND GATE
- 11 REMOVE WALK-IN FREEZER & REFRIGERATOR INCLUDING INSULATED WALL, FLOORING, AND CEILING/ROOF PANELS AND ASSOCIATED EQUIPMENT (INTERNAL AND EXTERNAL)
- 12 REMOVE DOOR AND FRAME, PREPARE OPENING FOR NEW INFILL

LEGEND

- EXISTING PARTITION TO REMAIN
- REMOVE PARTITIONS; SEE STRUCTURAL FOR LOAD-BEARING REQUIREMENTS
- EXISTING STOREFRONT SYSTEM TO REMAIN, GLAZING TO BE REPLACED.

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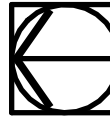
PROJECT NO. : 21065
SHEET TITLE:
DEMOLITION FLOOR PLAN

SHEET NUMBER:

D101

PHASE 3

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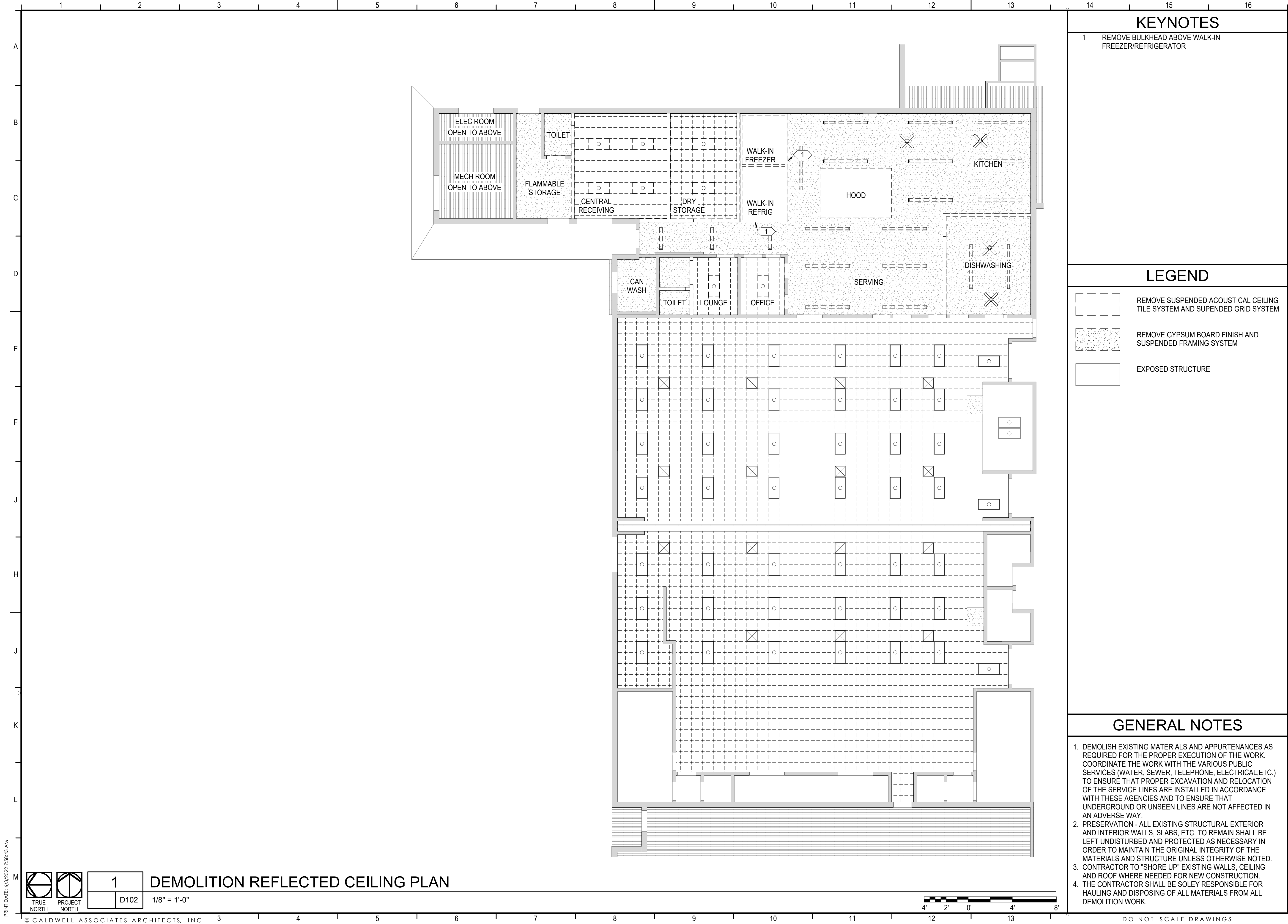
D101

DEMOLITION FLOOR PLAN

1/8" = 1'-0"

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KEYNOTES

1 REMOVE BULKHEAD ABOVE WALK-IN FREEZER/REFRIGERATOR

LEGEND

- REMOVE SUSPENDED ACOUSTICAL CEILING TILE SYSTEM AND SUPENDED GRID SYSTEM
- REMOVE GYPSUM BOARD FINISH AND SUSPENDED FRAMING SYSTEM
- EXPOSED STRUCTURE

GENERAL NOTES

- DEMOLISH EXISTING MATERIALS AND APPURTENANCES AS REQUIRED FOR THE PROPER EXECUTION OF THE WORK. COORDINATE THE WORK WITH THE VARIOUS PUBLIC SERVICES (WATER, SEWER, TELEPHONE, ELECTRICAL, ETC.) TO ENSURE THAT PROPER EXCAVATION AND RELOCATION OF THE SERVICE LINES ARE INSTALLED IN ACCORDANCE WITH THESE AGENCIES AND TO ENSURE THAT UNDERGROUND OR UNSEEN LINES ARE NOT AFFECTED IN AN ADVERSE WAY.
- PRESERVATION - ALL EXISTING STRUCTURAL EXTERIOR AND INTERIOR WALLS, SLABS, ETC. TO REMAIN SHALL BE LEFT UNDISTURBED AND PROTECTED AS NECESSARY IN ORDER TO MAINTAIN THE ORIGINAL INTEGRITY OF THE MATERIALS AND STRUCTURE UNLESS OTHERWISE NOTED.
- CONTRACTOR TO "SHORE UP" EXISTING WALLS, CEILING AND ROOF WHERE NEEDED FOR NEW CONSTRUCTION.
- THE CONTRACTOR SHALL BE SOLEY RESPONSIBLE FOR HAULING AND DISPOSING OF ALL MATERIALS FROM ALL DEMOLITION WORK.

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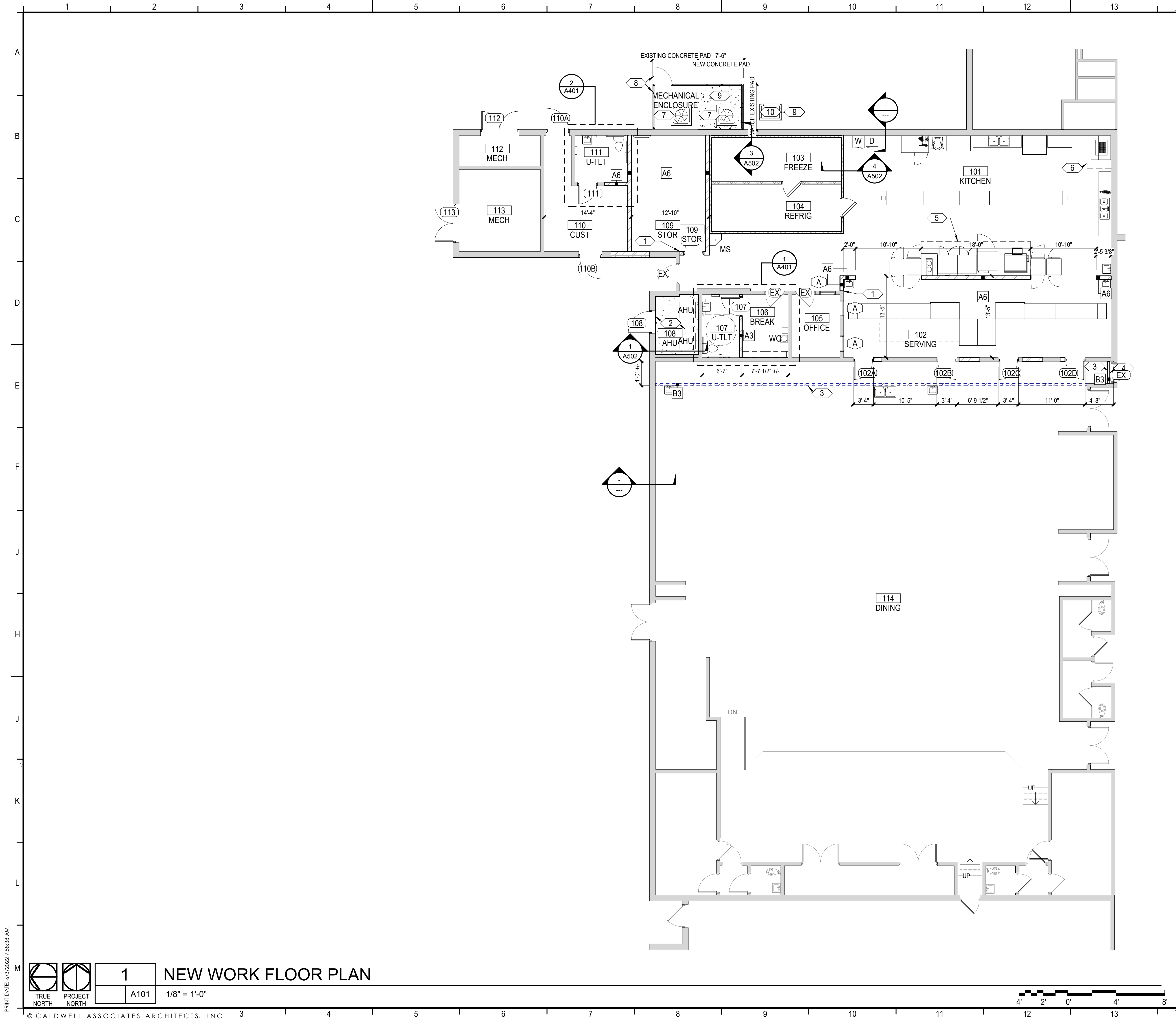
PROJECT NO. : 21065
SHEET TITLE:

DEMOLITION REFLECTED
CEILING PLAN

SHEET NUMBER:

D102

PHASE 3



KEYNOTES

- 1 ALIGN NEW FINISH SURFACE WITH EXISTING FINISHED WALL
- 2 INFILL SETTING BED SLAB DEPRESSION TO BUILDING FINISH FLOOR ELEVATION
- 3 PATCH AND REPAIR ANY DAMAGED FLOOR FINISH UPON REMOVAL OF TEMPORARY PARTITION AT COMPLETION OF CONSTRUCTION
- 4 CONSTRUCT TEMPORARY PARTITION IN THIS LOCATION TO PREVENT ACCESS FROM ADJACENT DOOR TO THIS SPACE DURING CONSTRUCTION
- 5 HOOD ABOVE
- 6 DISHWASHER HOOD ABOVE
- 7 HPU, SEE MECHANICAL
- 8 6'-0" CHAIN LINK FENCE AND GATE AT MECHANICAL ENCLOSURE
- 9 NEW CONCRETE PAD @ MECHANICAL UNIT
- 10 NEW CONDENSING UNIT FOR WALK-IN COOLER AND FREEZER, SEE MECHANICAL DRAWINGS

LEGEND

- EXISTING CONSTRUCTION
- NEW METAL STUD FRAMING; SEE WALL TYPES OR DETAILS FOR MORE INFORMATION
- W WASHER
- D DRYER
- MS MOP SINK, SEE PLUMBING DRAWINGS
- WC WATER COOLER

GENERAL NOTES

- 1. REFER TO WALL TYPE SHEET FOR MORE INFORMATION
- 2. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO COMMENCING WORK.
- 3. COORDINATE WITH MECHANICAL, PLUMBING, ELECTRICAL, TELECOM AND SECURITY PRIOR TO COMMENCING ANY WORK.
- 4. SEE LIFE SAFETY PLAN FOR LOCATION OF FIRE EXTINGUISHERS
- 5. ALL FURNITURE N.I.C. UNLESS NOTED OTHERWISE.
- 6. ALL EQUIPMENT TO BE OWNER FURNISHED AND CONTRACTOR INSTALLED.

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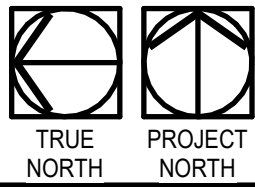
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SHEET TITLE:
NEW WORK FLOOR PLAN

SHEET NUMBER:

A101

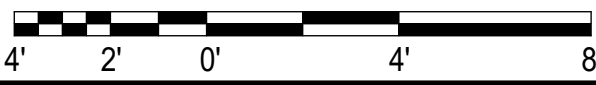
PHASE 3



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A101

NEW WORK FLOOR PLAN

1/8" = 1'-0"





PROJECT
NORTH

NEW WORK REFLECTED CEILING PLAN

$$1/8'' = 1'-0''$$


1 NEW OVERHEAD BULKHEAD ABOVE NEW WALK-IN
FREEZER/REFRIGERATOR. GYPSUM BOARD ON
GALVANIZED METAL FRAMING, EXTEND DOWN TO TOP
OF NEW UNITS.

2'x2' SUSPENDED VINYL FACED ACOUSTICAL
CEILING TILE IN ALUMINUM GRID SYSTEM,
SEE FINISH SCHEDULE

EXPOSED STRUCTURE ABOVE, REFER TO
FINISH SCHEDULE



1. CONTRACTOR SHALL FIELD VERIFY EXACT BUILT CONDITIONS PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL COORDINATE WITH ALL TRADES PRIOR TO INSTALLING ANY CEILING MOUNTED DEVICE.
3. COORDINATE WITH MECHANICAL, ELECTRICAL, FIRE ALARM AND PLUMBING DRAWINGS PRIOR TO INSTALLING ANY DEVICE ON THE CEILING OR WALLS.
4. PROVIDE MOISTURE RESISTANT CEILING TILE IN RESTROOM AND JANITOR'S CLOSET, U.N.O. REFER TO FINISH SCHEDULE

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NEW WORK REFLECTED CEILING PLAN

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PHASE 3

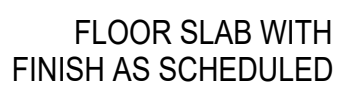
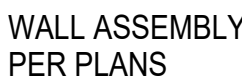
- 5/8" GYPSUM BOARD BOTH SIDES
- GALVANIZED METAL STUDS; SEE SIZES BELOW
- EXTEND PARTITION TO 6" ABOVE CEILING

USE MOISTURE RESISTANT GYPSUM
WALL BOARD IN WET LOCATIONS; SEE
FINISH SCHEDULE
TOP DETAIL 2/A501
BOTTOM DETAIL 3/A501



- 5/8" GYPSUM BOARD ONE SIDE
- GALVANIZED METAL STUDS; SEE SIZES BELOW
- EXTEND PARTITION TO UNDERSIDE OF DECK

USE MOISTURE RESISTANT GYPSUM
WALL BOARD IN WET LOCATIONS; SEE
FINISH SCHEDULE
HEAD DETAIL 2/A501
BOTTOM DETAIL 3/A501



1. ALL INTERIOR PARTITIONS SHALL FOLLOW FBC SECTION 1607.14 (SHALL RESIST HORIZONTAL LOAD OF 5 PSF)
2. PROVIDE RESILIENT SEALANT AT ALL SOUND WALL ASSEMBLIES.
3. PROVIDE WATER RESISTANT GYPSUM WALLBOARD INSIDE FACES OF JANITOR CLOSETS, TOILET AND RESTROOMS.
4. PROVIDE TILE BACKERBOARD WHERE TILE INSTALLED ON WALLS (IF REQUIRED).
5. ALL INTERIOR PARTITIONS SHALL FOLLOW FBC SECTION 1607.14 (SHALL RESIST HORIZONTAL LOAD OF 5 PSF)

1. PENETRATIONS FOR CABLES, CONDUITS, PIPES AND MECHANICAL DUCTS SHALL BE PROTECTED BY A SYSTEM OF MATERIAL THAT IS CAPABLE OF LIMITING THE TRANSFER OF SMOKE.

1. WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING.
2. LOCATE IN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACES;
3. LOCATE WITHIN 15 FT OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FT MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION; AND
4. INCLUDE LETTERING NOT LESS THAN 3 INCHES IN HEIGHT WITH A MIN. 3/8" STROKE IN CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING, "FIRE AND/OR SMOKE BARRIER-PROTECT ALL OPENINGS" OR OTHER WORDING.

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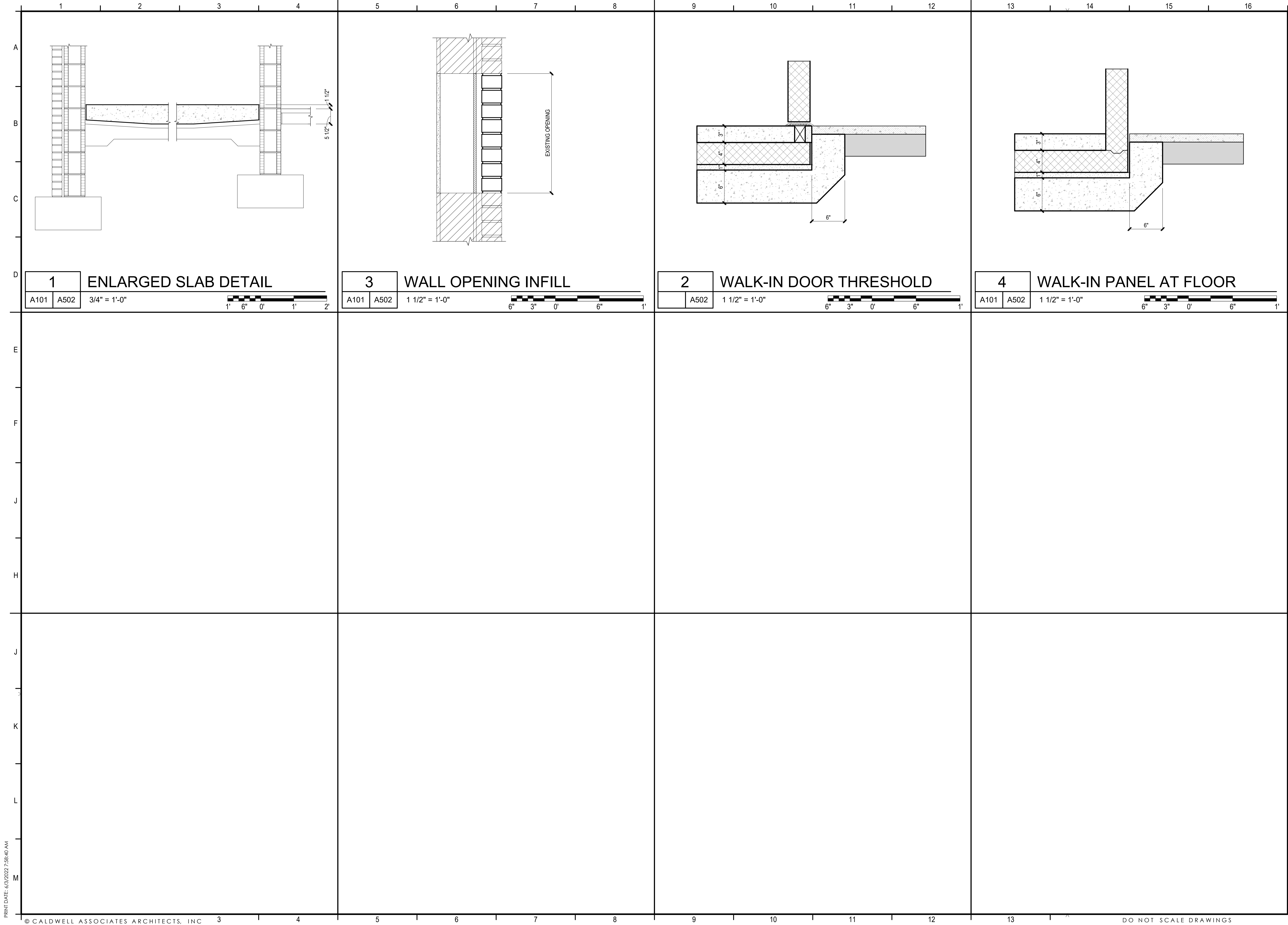
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PROJECT NO. : 21065
SHEET TITLE:
WALL TYPES

SHEET NUMBER:

A501

PHASE 3



PROJECT ISSUES:	
PHASE 1:	01 MAR 2022
PHASE 2:	30 MAR 2022
PHASE 3:	7 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**

**-PRELIMINARY -
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CONSTRUCTION**

PROJECT NO. : 21065
SHEET TITLE:
ENLARGED DETAILS

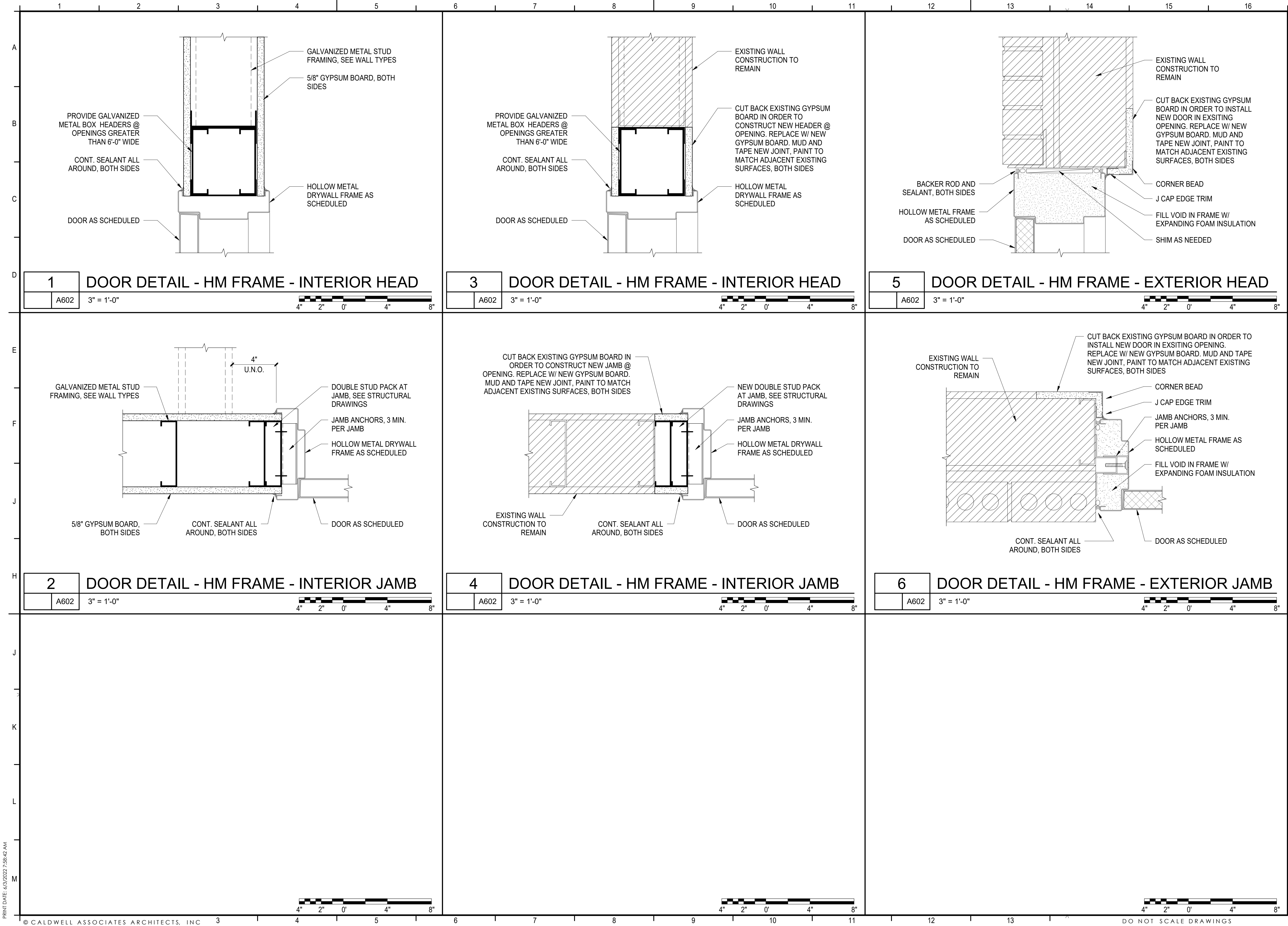
SHEET NUMBER:

A502

PHASE 3

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PHASE 3



PROJECT ISSUES:

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ORIOLE BEACH
ELEMENTARY - KITCHEN
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1260 ORIOLE BEACH RD,
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PROJECT NO. : 21065
SHEET TITLE:
DOOR DETAILS

SHEET NUMBER:

A602

PHASE 3

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FINISH SCHEDULE

ROOM No.	ROOM NAME	FLOOR		BASE		WALLS								CEILING		REMARKS
		MAT'L	FINISH	MAT'L	FINISH	NORTH		EAST		SOUTH		WEST		MAT'L	FINISH	
						MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH			
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

FLOORS		CEILING	
RF RF-1	RESINOUS FLOORING MANUF: COLLECT: COLOR: SIZE:	APC APC-1	ACOUSTICAL PANEL CEILING MANUF: PRODUCT: COLOR: EDGE: SIZE: GRID:
RFT RFT-1	RESILIENT FLOOR TILE MANUF: COLLECT: COLOR: SIZE:	APC-1	MANUF: PRODUCT: COLOR: EDGE: SIZE: GRID:
BASE		DOORS & WINDOWS:	
ICB ICB-1	INTEGRAL COVE BASE MANUF: COLOR: SIZE:	P P-3	PAINT MANUF: PRODUCT: COLOR: SHEEN:
RB RB-1	RUBBER WALL BASE MANUF: COLOR: SIZE:	P-4	MANUF: PRODUCT: COLOR: SHEEN:
WALLS		P-5	MANUF: PRODUCT: COLOR: SHEEN:
P P-1	PAINT MANUF: PRODUCT: COLOR: SHEEN:	ST ST-1	STAIN: STAINED TO MATCH NATIONAL OFFICE FURNITURE SAMPLE "AUTUMN ON CHERRY"
P-2	MANUF: PRODUCT: COLOR: SHEEN:	WALK-IN REFRIGERATOR & FREEZER	
WT WT-1	WALL TILE MANUF: LINE: COLOR: SIZE:	AL AL-1	ALUMINUM COLOR: MANUFACTURER'S STANDARD WHITE

ABBREVIATIONS

FLOORS

CPT
LVT
PCT
SC
SDT
WM

CARPET COMPOSITION TILE
LUXURY VINYL TILE
PORCELAIN CERAMIC TILE
STAINED CONCRETE
STATIC DISSIPATIVE TILE
WALK-OFF MAT

BASE

RB
PCTB
WDB
CTB

RUBBER BASE
PORCELAIN TILE BASE
WOOD BASE
CERAMIC TILE BASE

WALLS

GL
GB
CTW
PCTW
PL
PT
WC
WDW

GLASS
GYPSUM BOARD
CERAMIC WALL TILE
PORCELAIN WALL TILE
PLASTIC LAMINATE
PAINT
WALL COVERING
WOOD WALL PANEL

CEILING

ACT
EXP
GB

ACOUSTICAL CEILING TILE
EXPOSED STRUCTURE; PAINTED
GYPSUM BOARD

MISCELLANEOUS

GRT
PL
TBD

GROUT
PLASTIC LAMINATE
TO BE DETERMINED

REMARKS

1. NO FINISH WORK IN THIS SPACE.

GENERAL NOTES

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

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Alabama License No: 3017

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PHASE 1: 01 MAR 2022
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ORIOLE BEACH
ELEMENTARY - KITCHEN
RENOVATION

SANTA ROSA COUNTY DISTRICT SCHOOLS

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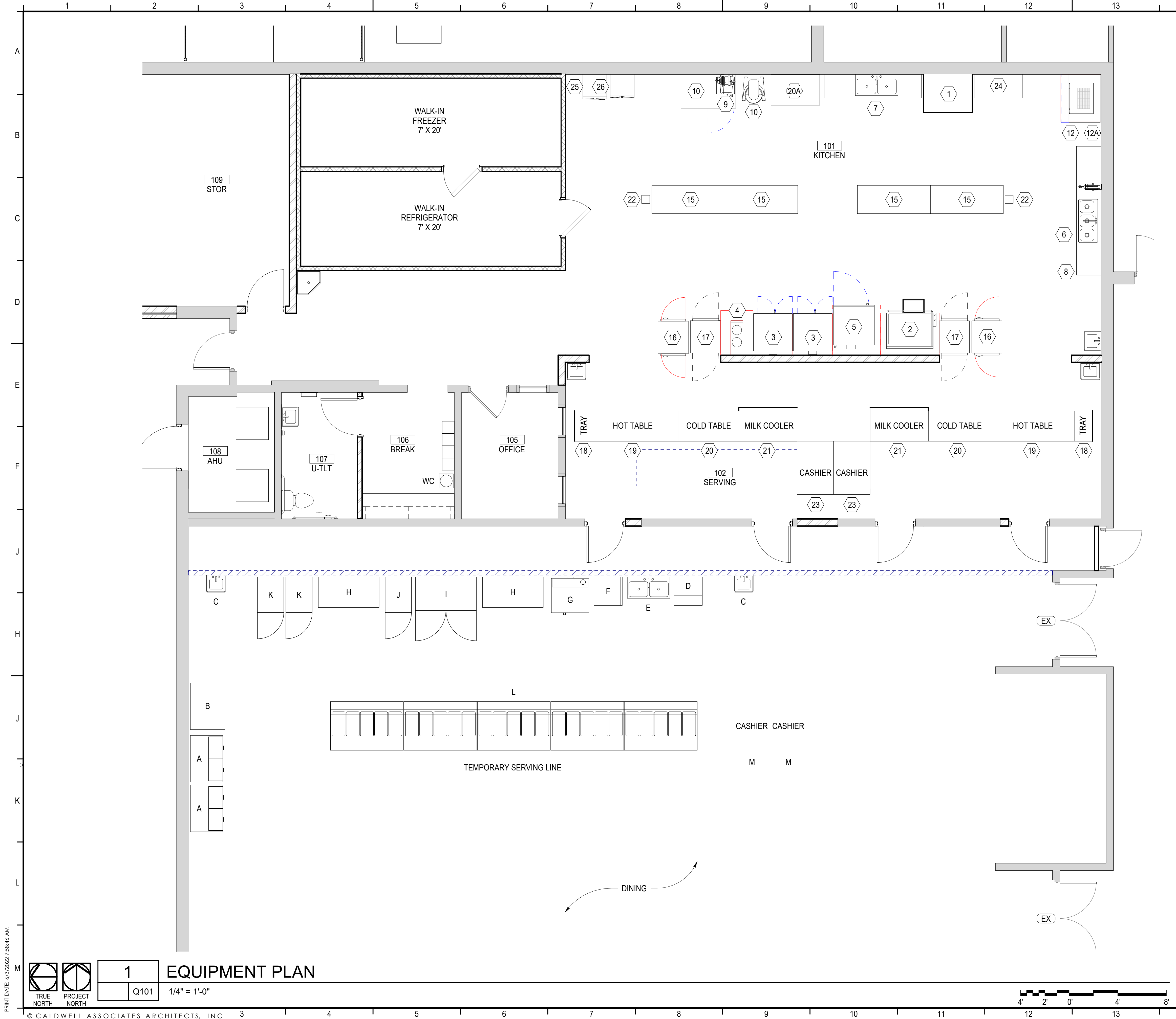
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PROJECT NO. : 21065
SHEET TITLE:
ROOM FINISH SCHEDULE

SHEET NUMBER:
1601
PHASE 3

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KEYNOTES

KITCHEN EQUIPMENT SCHEDULE		
MARK	COUNT	DESCRIPTION
1	1	DISHWASHER
2	1	ELECTRIC TILT SKILLET
3	2	ELECTRIC CONVECTION OVEN
4	1	12" RANGE - 2 FRENCH PLATE
5	1	SINGLE ELECTRIC CONVECTION OVEN
6	1	HOSE REEL
7	1	VEGETABLE SINK - DOUBLE BASIN
8	1	SCULLERY SINK
9	1	MEDIUM DUTY FOOD SLICER
10	1	BLAST CHILLER, UNDERCOUNTER
11	1	30 QUART MIXER
12	1	ICE MAKER, CUBE STYLE
12A	1	ICE BIN
15	4	STAINLESS STEEL WORK TABLE
16	2	PASS-THRU HOT FOOD HOLDING CABINET
17	2	PASS-THRU REFRIGERATOR
18	2	TRAY STAND
19	2	HOT TABLE
20	2	COLD TABLE
20A	1	COLD TABLE
21	2	MILK COOLER
22	2	ELECTRICAL CHASE
23	2	CASHIER STAND
24	1	DISH RACK

GENERAL NOTES

- COORDINATE WITH ROOM FINISH SCHEDULE AND FINISH INDEX FOR FINISHES OF ALL SURFACES NOT OUTLINED ON THESE DRAWINGS.
- MANUFACTURER & MODEL NUMBERS ARE A BASIS OF DESIGN ONLY. NOT INTENDED TO LIMIT THE CONTRACTOR IN PRODUCT SELECTION.
- PROVIDE PRESSURE TREATED WOOD BLOCKING IN STUD WALL CAVITIES WHERE REQUIRED TO SUPPORT WALL MOUNTED COMPONENTS, INCLUDING, BUT NOT LIMITED TO, UPPER CABINET AND COUNTER SUPPORT BRACKETS.
- SEE FINISH SCHEDULE FOR ALL INTERIOR FINISHES.
- OWNER/VENDOR PROVIDED ACCESSORIES SHALL BE COORDINATED WITH ALL TRADES PRIOR TO INSTALLATION.
- REFER TO ACCESSORIES SCHEDULE FOR ADDITIONAL INFORMATION AND MOUNTING HEIGHTS.
- APPLY SEALANT AROUND ALL FIXTURES & ACCESSORIES THAT ARE AGAINST THE WALL.
- TOILET PARTITIONS BY GLOBAL OR AMPCO

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PROJECT:

ORIOLE BEACH
ELEMENTARY - KITCHEN
RENOVATION



1260 ORIOLE BEACH RD,
GULF BREEZE, FLORIDA

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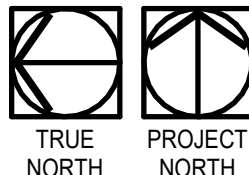
PROJECT NO. : 21065
SHEET TITLE:
KITCHEN EQUIPMENT PLAN

SHEET NUMBER:

Q101

PHASE 3

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Q101

EQUIPMENT PLAN

1/4" = 1'-0"

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PLUMBING FIXTURE AND EQUIPMENT SCHEDULE

MARK	FIXTURE	BASIS OF DESIGN		CONNECTIONS			DESCRIPTION
		MANUFACTURER	MODEL/MODEL#	SAN (IN)	DCW (IN)	DHW (IN)	
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 1-1/2" 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 1-1/2" 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.
P-3	JANITOR SINK	T&S	B-0892	3	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 TEMPERATURE 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 WITH 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.
CO	FLOOR CLEANOUT	ZURN	ZN1400				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				WALL CLEANOUT WITH ROUND WALL ACCESS COVER AND POLISHED STAINLESS STEEL COVER.
HB	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 EACH HYDRANT. 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.

NOTES:

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

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

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

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

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.

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

7. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL.

8. ADDITIONAL NOTE FOR ALL SERVRY AND KITCHEN FLOOR DRAIN AND FLOOR SINK - SET THE TOP 1/4" BELOW FINISH FLOOR AND PROVIDE SWEEP WITH 12" RADIUS. COORDINATE WITH ARCHITECTURAL.

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GAS RISER AND EQUIPMENT GAS CONNECTION DETAIL

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WATER HAMMER ARRESTOR DETAIL

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PIPE SUPPORT DETAIL

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DETAIL 3 NOTES:

1. 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

5. MECHANICAL CONTRACTOR TO INSTALL AN ADDITIONAL REGULATOR, AS NEEDED. REGULATOR WILL HAVE A LISTED LIMITING DEVICE OR TO BE VENTED TO THE OUTDOOR.

6. REFER TO SHEET P302 FOR DEMAND LOAD CRITERIA AND PIPE SIZING.

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PROJECT:

ORIOLE BEACH ELEMENTARY - KITCHEN RENOVATION

SANTA ROSA COUNTY DISTRICT SCHOOLS

1260 ORIOLE BEACH RD, GULF BREEZE, FLORIDA

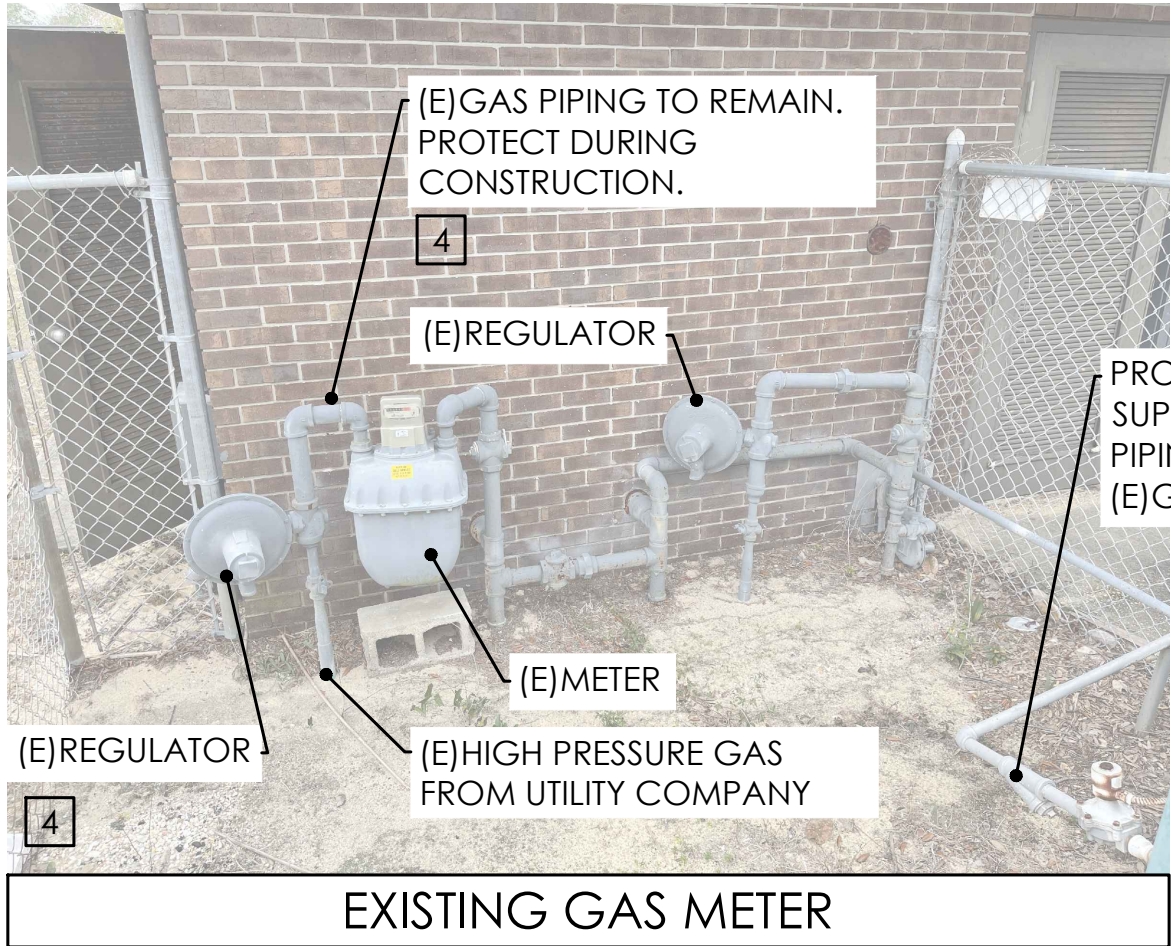
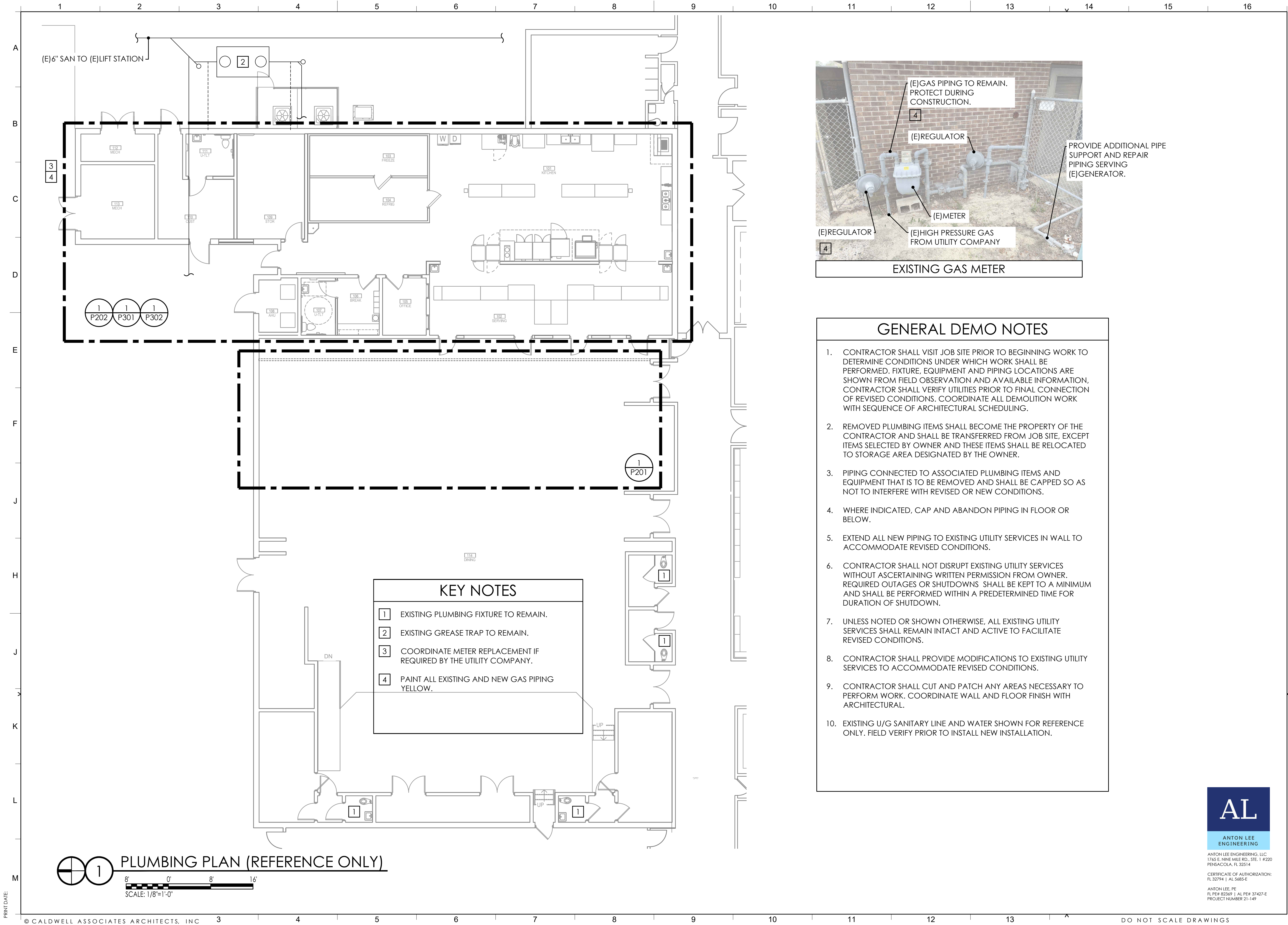
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PROJECT NO. : 21065
SHEET TITLE:
PLUMBING SCHEDULE AND DETAILS

SHEET NUMBER:
P002

PHASE 3



GENERAL DEMO NOTES

- CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BEGINNING WORK TO DETERMINE CONDITIONS UNDER WHICH WORK SHALL BE PERFORMED. FIXTURE, EQUIPMENT AND PIPING LOCATIONS ARE SHOWN FROM FIELD OBSERVATION AND AVAILABLE INFORMATION, CONTRACTOR SHALL VERIFY UTILITIES PRIOR TO FINAL CONNECTION OF REVISED CONDITIONS. COORDINATE ALL DEMOLITION WORK WITH SEQUENCE OF ARCHITECTURAL SCHEDULING.
- REMOVED PLUMBING ITEMS 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 OWNER.
- PIPING CONNECTED TO ASSOCIATED PLUMBING ITEMS AND EQUIPMENT THAT IS TO BE REMOVED AND SHALL BE CAPPED SO AS NOT TO INTERFERE WITH REVISED OR NEW CONDITIONS.
- WHERE INDICATED, CAP AND ABANDON PIPING IN FLOOR OR BELOW.
- EXTEND ALL NEW PIPING TO EXISTING UTILITY SERVICES IN WALL TO ACCOMMODATE REVISED CONDITIONS.
- CONTRACTOR SHALL NOT DISRUPT EXISTING UTILITY SERVICES WITHOUT ASCERTAINING WRITTEN PERMISSION FROM OWNER. REQUIRED OUTAGES OR SHUTDOWNS SHALL BE KEPT TO A MINIMUM AND SHALL BE PERFORMED WITHIN A PREDETERMINED TIME FOR DURATION OF SHUTDOWN.
- UNLESS NOTED OR SHOWN OTHERWISE, ALL EXISTING UTILITY SERVICES SHALL REMAIN INTACT AND ACTIVE TO FACILITATE REVISED CONDITIONS.
- CONTRACTOR SHALL PROVIDE MODIFICATIONS TO EXISTING UTILITY SERVICES TO ACCOMMODATE REVISED CONDITIONS.
- CONTRACTOR SHALL CUT AND PATCH ANY AREAS NECESSARY TO PERFORM WORK. COORDINATE WALL AND FLOOR FINISH WITH ARCHITECTURAL.
- EXISTING U/G SANITARY LINE AND WATER SHOWN FOR REFERENCE ONLY. FIELD VERIFY PRIOR TO INSTALL NEW INSTALLATION.

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ENGINEER'S SEAL

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PROJECT NO. : 21065
SHEET TITLE:

PLUMBING
OVERALL PLAN

SHEET NUMBER:

P101

PHASE 3

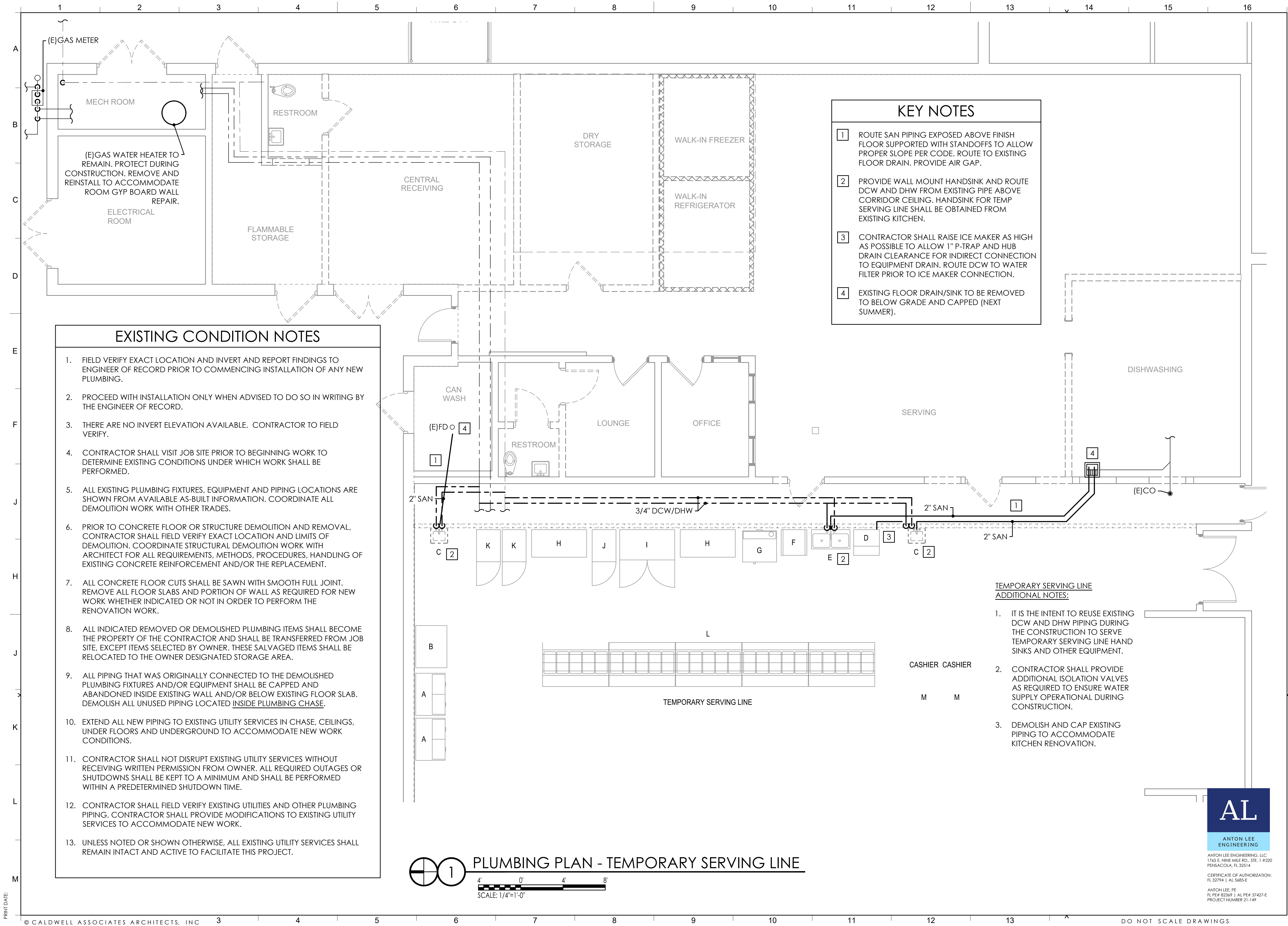
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ANTON LEE
ENGINEERING

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



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ENGINEER'S SEAL

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PROJECT NO. : 21065
SHEET TITLE:

PLUMBING PLAN
TEMPORARY SERVING LINE

SHEET NUMBER:

P201

PHASE 3

AL

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ENGINEERING

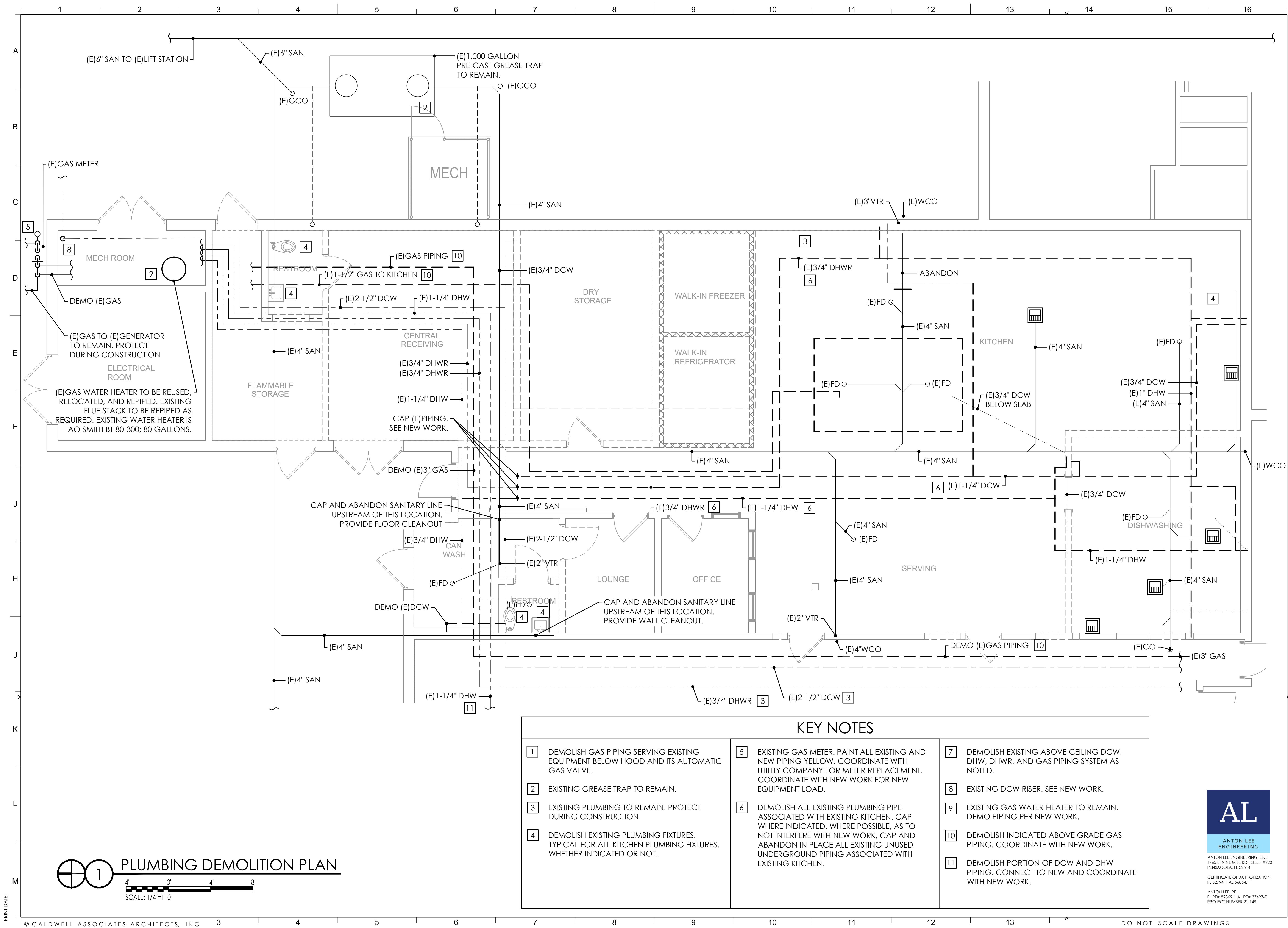
ANTON LEE ENGINEERING, LLC
1765 E. NINE MILE RD., STE. 1 #220
PENSACOLA, FL 32514

CERTIFICATE OF AUTHORIZATION:
FL 32794 | AL 5685-E

ANTON LEE, PE
FL PE# 82269 | AL PE# 37427-E
PROJECT NUMBER 21-149

PLUMBING PLAN - TEMPORARY SERVING LINE





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-
NOT FOR
CONSTRUCTION**

PROJECT NO. : 21065
SHEET TITLE:

PLUMBING
DEMOLITION PLAN

SHEET NUMBER:

P202

PHASE 3

KEY NOTES

1	DEMOLISH GAS PIPING SERVING EXISTING EQUIPMENT BELOW HOOD AND ITS AUTOMATIC GAS VALVE.	5	EXISTING GAS METER. PAINT ALL EXISTING AND NEW PIPING YELLOW. COORDINATE WITH UTILITY COMPANY FOR METER REPLACEMENT. COORDINATE WITH NEW WORK FOR NEW EQUIPMENT LOAD.	7	DEMOLISH EXISTING ABOVE CEILING DCW, DHW, DHWR, AND GAS PIPING SYSTEM AS NOTED.
2	EXISTING GREASE TRAP TO REMAIN.	6	DEMOLISH ALL EXISTING PLUMBING PIPE ASSOCIATED WITH EXISTING KITCHEN. CAP WHERE INDICATED. WHERE POSSIBLE, AS TO NOT INTERFERE WITH NEW WORK, CAP AND ABANDON IN PLACE ALL EXISTING UNUSED UNDERGROUND PIPING ASSOCIATED WITH EXISTING KITCHEN.	8	EXISTING DCW RISER. SEE NEW WORK.
3	EXISTING PLUMBING TO REMAIN. PROTECT DURING CONSTRUCTION.			9	EXISTING GAS WATER HEATER TO REMAIN. DEMO PIPING PER NEW WORK.
4	DEMOLISH EXISTING PLUMBING FIXTURES. TYPICAL FOR ALL KITCHEN PLUMBING FIXTURES. WHETHER INDICATED OR NOT.			10	DEMOLISH INDICATED ABOVE GRADE GAS PIPING. COORDINATE WITH NEW WORK.
				11	DEMOLISH PORTION OF DCW AND DHW PIPING. CONNECT TO NEW AND COORDINATE WITH NEW WORK.

AL

ANTON LEE ENGINEERING

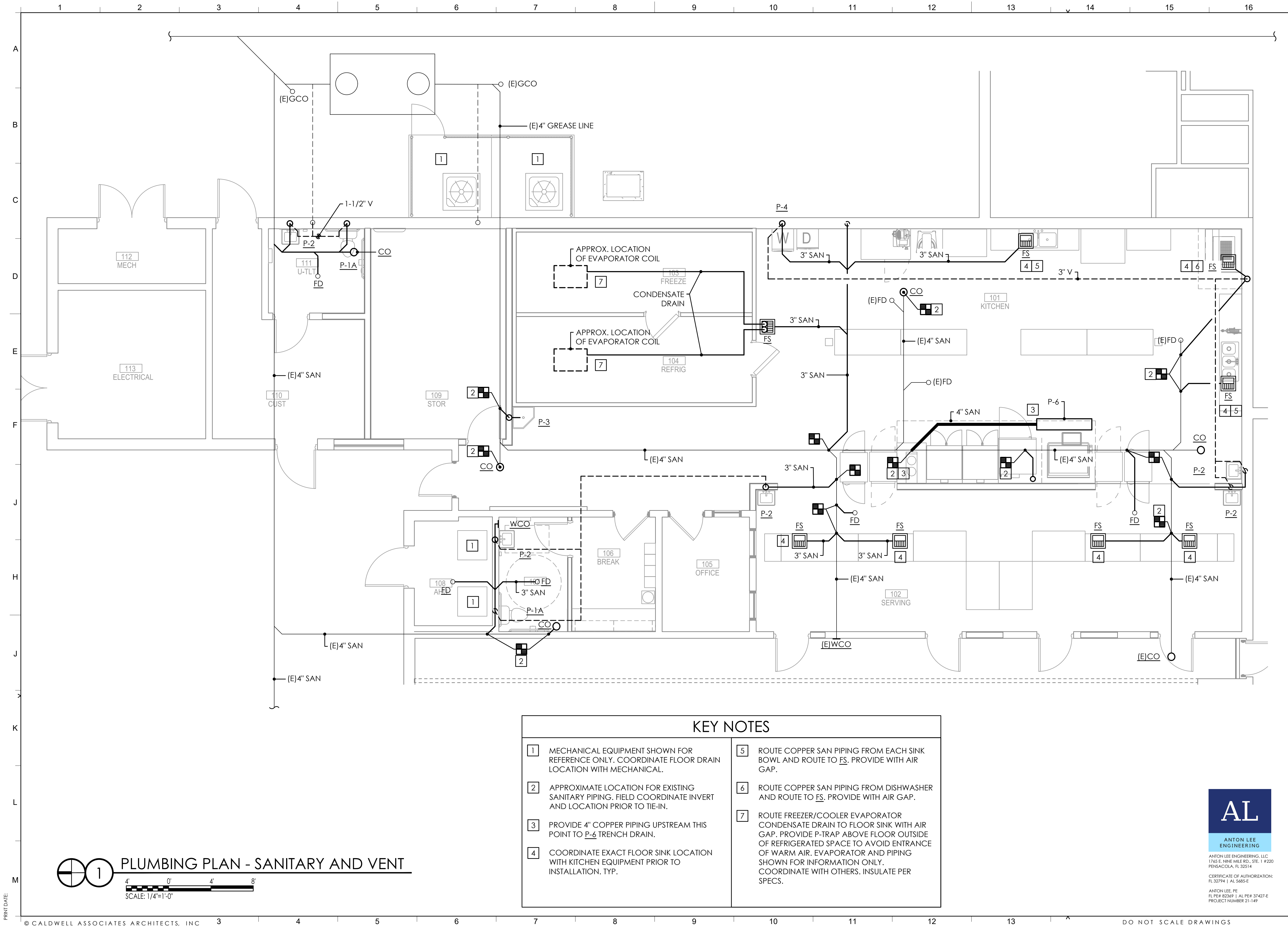
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PROJECT NUMBER 21-149

1 PLUMBING DEMOLITION PLAN





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PHASE 3:	07 JUNE 2022

PROJECT TEAM:	
ARCHITECTURAL	Caldwell Associates
STRUCTURAL	McCarthy Engineering
MECHANICAL	Anton Lee Engineering
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PROJECT:
**ORIOLE BEACH
ELEMENTARY - KITCHEN
RENOVATION**



1260 ORIOLE BEACH RD,
GULF BREEZE, FLORIDA

ENGINEER'S SEAL

**-PRELIMINARY-
NOT FOR
CONSTRUCTION**

PROJECT NO. : 21065
SHEET TITLE:

PLUMBING PLAN

SHEET NUMBER:

P301

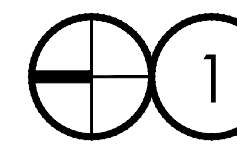
PHASE 3

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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

KEY NOTES	
1	MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. COORDINATE FLOOR DRAIN LOCATION WITH MECHANICAL.
2	APPROXIMATE LOCATION FOR EXISTING SANITARY PIPING. FIELD COORDINATE INVERT AND LOCATION PRIOR TO TIE-IN.
3	PROVIDE 4" COPPER PIPING UPSTREAM THIS POINT TO P-6 TRENCH DRAIN.
4	COORDINATE EXACT FLOOR SINK LOCATION WITH KITCHEN EQUIPMENT PRIOR TO INSTALLATION. TYP.
5	ROUTE COPPER SAN PIPING FROM EACH SINK BOWL AND ROUTE TO FS. PROVIDE WITH AIR GAP.
6	ROUTE COPPER SAN PIPING FROM DISHWASHER AND ROUTE TO FS. PROVIDE WITH AIR GAP.
7	ROUTE FREEZER/COOLER EVAPORATOR CONDENSATE DRAIN TO FLOOR SINK WITH AIR GAP. PROVIDE P-TRAP ABOVE FLOOR OUTSIDE OF REFRIGERATED SPACE TO AVOID ENTRANCE OF WARM AIR. EVAPORATOR AND PIPING SHOWN FOR INFORMATION ONLY. COORDINATE WITH OTHERS. INSULATE PER SPECS.

1

PLUMBING PLAN - SANITARY AND VENT



SCALE: 1/4"=1'-0"

PRINT DATE:

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
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PROJECT:
DORIOLE BEACH
ELEMENTARY - KITCHEN
RENOVATION



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

ENGINEER'S SEAL

**-PRELIMINARY-
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CONSTRUCTION**

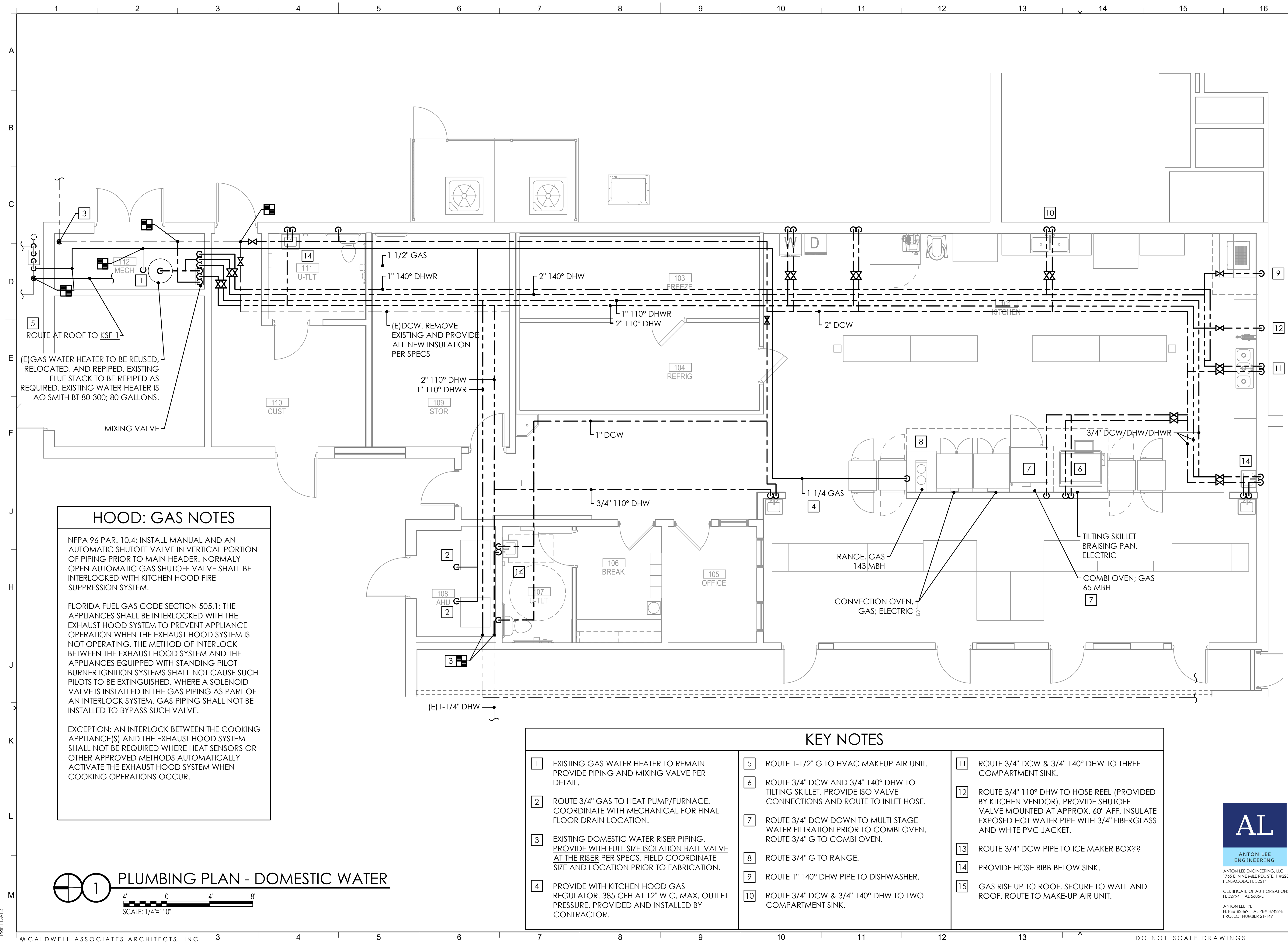
PROJECT NO. : 21065
SHEET TITLE:

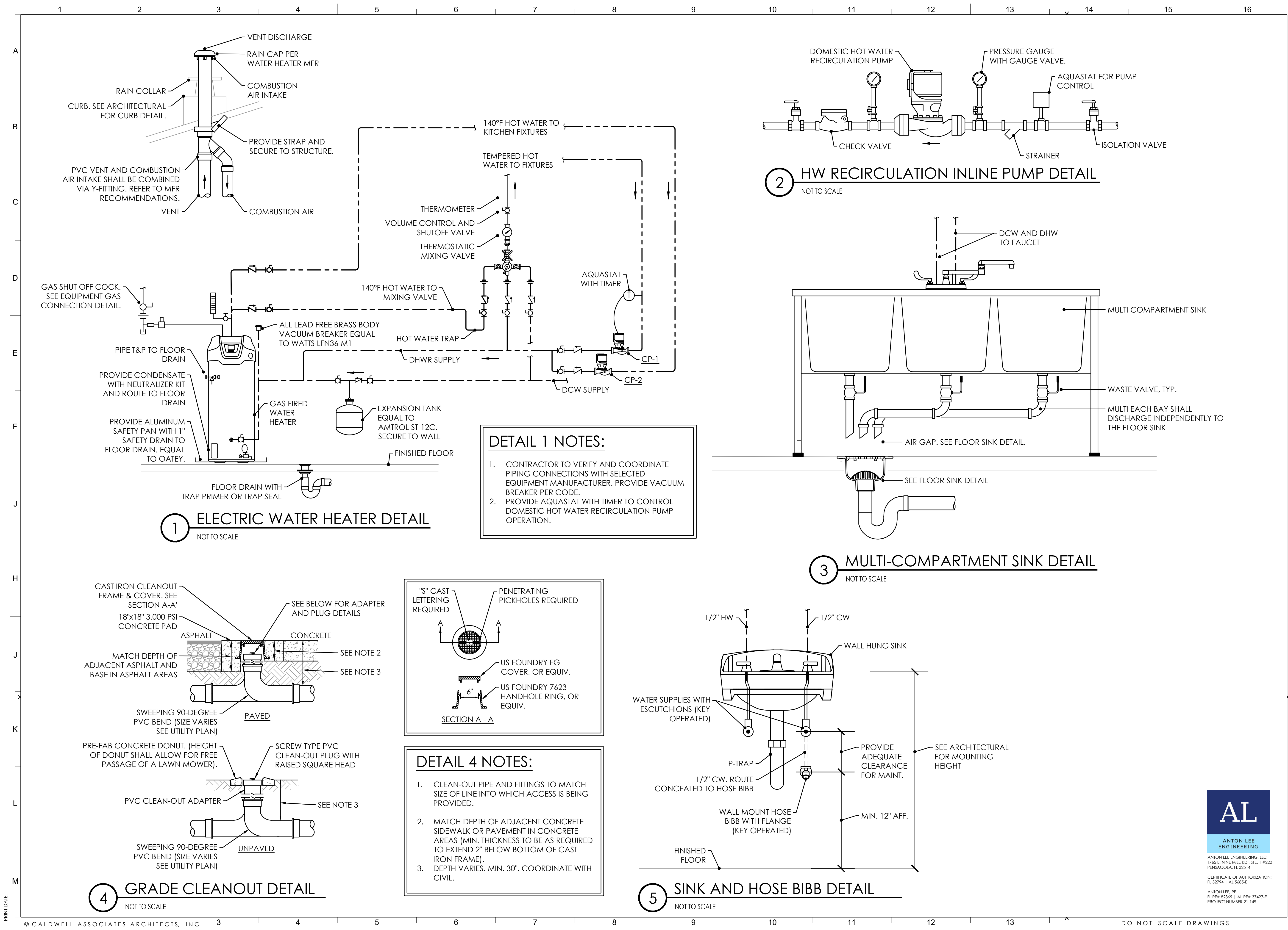
PLUMBING PLAN

SHEET NUMBER:

P302

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
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**

**SANTA ROSA
DISTRICT
SCHOOLS**

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

ENGINEER'S SEAL

**-PRELIMINARY-
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CONSTRUCTION**

PROJECT NO. : 21065
SHEET TITLE:
PLUMBING DETAILS

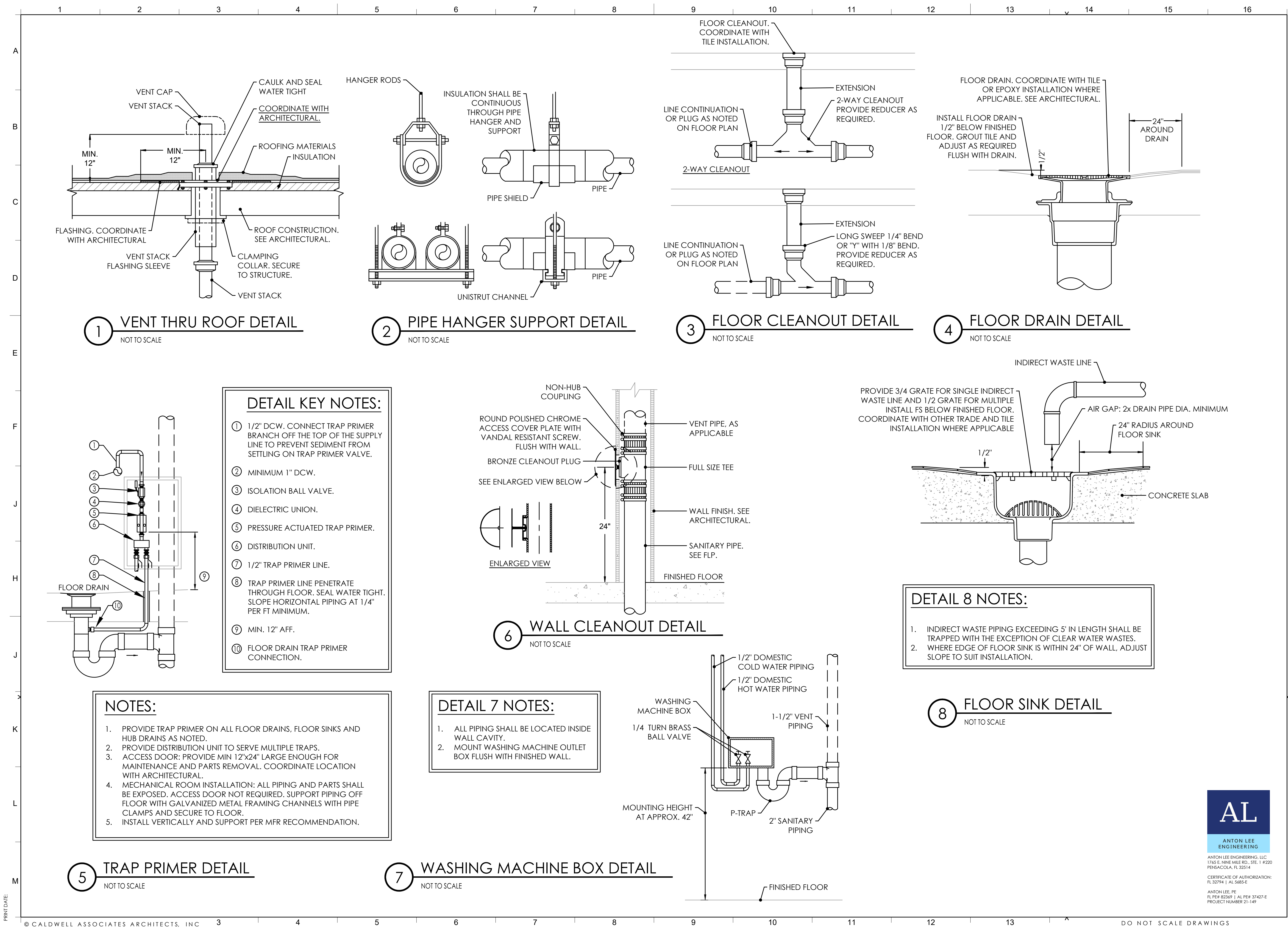
SHEET NUMBER:
P501

PHASE 3

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ENGINEERING

ANTON LEE ENGINEERING, LLC
1765 E. NINE MILE RD., STE. 1 #220
PENSACOLA, FL 32514
CERTIFICATE OF AUTHORIZATION:
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PROJECT NUMBER 21-149

PRINT DATE:



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PHASE 3:	07 JUNE 2022

PROJECT TEAM:
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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- NOT FOR CONSTRUCTION

PROJECT NO. : 21065
SHEET TITLE:
PLUMBING DETAILS

SHEET NUMBER:
P502
PHASE 3

AL
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

PRINT DATE:

116 N TARRAGONA STREET, PENSACOLA, FL 32501
(850) 432 9500 | CALDWELL-ASSOC.COM
Florida License No: AA26000721
Florida Interior Design License No: IB26000943

3263 COTTAGE HILL RD, MOBILE, AL 36606
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PROJECT ISSUES:

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PHASE 2: 30 MAR 2022

PHASE 3: 07 JUNE 2022

PROJECT TEAM:

ARCHITECTURAL

Caldwell Associates

STRUCTURAL

McCarthy Engineering
MECHANICAL

MECHANICAL
Anton Lee P.

ANTHONY LEE B.
ELECTRICAL

ELECTRICAL
HG Engineer

The Engineer

PROJECT

DRIOLE BEACH ELEMENTARY - KITCHEN RENOVATION



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

ENGINEER'S SEAL

**-PRELIMINARY-
NOT FOR
CONSTRUCTION**

PROJECT NO. : 21065
SHEET TITLE:

MECHANICAL LEGEND AND ABBREVIATIONS

SHEET NUMBER

M001

PHASE 3

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	GENERAL DEMOLITION NOTES					GENERAL DUCTWORK NOTES										
B	<div>1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARILY AND PERMANENT WEATHERPROOFING OF THE INSTALLATION. THE CONTRACTOR SHALL BE FULLY LIABLE FOR ANY WATER DAMAGE OR OTHER DAMAGE FROM THE ELEMENTS CAUSED TO THE OWNER'S PROPERTY AS A RESULT OF THE CONTRACTOR'S FAILURE TO PROVIDE THE NECESSARY WEATHERPROOFING DURING THE COURSE OF WORK UNDER THIS CONTRACT.</div> <div>2. DRAWINGS SHOWING EXISTING EQUIPMENT, FLUE STACKS, PIPING, DUCTWORK, ELECTRICAL, AND FUEL GAS PIPING CONNECTIONS ARE DIAGRAMMATIC AND ARE INTENDED ONLY TO DEPICT THE GENERAL ARRANGEMENT, APPROXIMATE SIZE, AND OVERALL PROXIMITY OF THE EXISTING SYSTEM ELEMENTS. EACH CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE OF WORK TO VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING THE CONSTRUCTION.</div> <div>3. THE CONTRACTOR SHALL ADDITIONALLY BE RESPONSIBLE FOR MAKING ACCURATE FIELD MEASUREMENTS OF ALL EXISTING CONDITIONS RELATING TO THE DESIGN AND 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 CONTRACTOR.</div> <div>4. UNLESS NOTED OTHERWISE, ANY AND ALL DAMAGE TO THE EXISTING BUILDING SITE, EXTERIOR BUILDING FINISHES, BUILDING STRUCTURE, BUILDING SYSTEMS (MECHANICAL, ELECTRICAL, ETC.), INTERIOR BUILDING FINISHES, OR BUILDING FURNISHINGS CAUSED BY THE CONTRACTOR DURING THE COURSE OF WORK UNDER THIS CONTRACT SHALL BE REPLACED AND/OR REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. REPLACEMENT AND/OR REPAIR OF DAMAGED ITEMS SHALL BE MADE TO THE 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 COMMENCEMENT OF THIS WORK.</div> <div>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.</div> <div>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.</div> <div>7. PROVIDE TEMPORARY DEHUMIDIFICATION AS REQUIRED TO SATISFY SPACE RELATIVE HUMIDITY LEVEL OF 62% WHEN BUILDING HVAC IS NOT OPERABLE DURING SHUTDOWN.</div> <div>8. SEE NEW WORK FOR EXTENT OF NEW EQUIPMENT AND PIPING. CARE SHALL BE TAKEN NOT TO DAMAGE ANY EXISTING EQUIPMENT IN THE SPACE.</div> <div>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.</div> <div>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.</div> <div>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.</div>					<div>1. ALL NEW SUPPLY, RETURN, OUTSIDE AND EXHAUST AIR DUCTWORK SHALL BE LOW PRESSURE SINGLE WALL METAL RECTANGULAR, SMACNA STATIC PRESSURE CLASS 2" W.G., SEAL CLASS A. PROVIDE 2" WRAP INSULATION AT ABOVE CEILING AS REQUIRED PER SPECIFICATIONS. PROVIDE 2" RIGID INSULATION FOR DUCTWORK SYSTEM AT MECHANICAL ROOMS.</div> <div>2. ALL DUCTWORK CONSTRUCTION, DUCT HANGERS, AND SUPPORTS SHALL COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE" FOR METAL THICKNESS', REINFORCING TYPES AND INTERVALS, TIE-ROD APPLICATIONS, AND JOINT TYPES AND INTERVALS. SUPPORT HORIZONTAL DUCTS WITHIN 24" OF EACH ELBOW AND WITHIN 48" OF EACH BRANCH. SEE DUCT HANGER DETAILS.</div> <div>3. VERIFY COLLAR SIZES ON ALL EQUIPMENT INLETS AND OUTLETS. TRANSITION DUCTWORK AS NECESSARY. EXTERNALLY INSULATE ALL TRANSITIONS AT EQUIPMENT CONNECTIONS.</div> <div>4. PROVIDE FLEXIBLE CONNECTIONS, AND VIBRATION ISOLATORS FOR INTERNALLY ISOLATED UNITS. PROVIDE FLEXIBLE DUCT CONNECTORS AT ALL HVAC EQUIPMENT CONNECTIONS COMPLYING WITH UL-181, NFPA 90A, AND NFPA 90B.</div> <div>5. THREADED DUCT TEST PORTS (VENTLOK 699 FOR UNINSULATED, VENTLOK 699-2 FOR EXTERIOR INSULATED DUCT) SHALL BE INSTALLED WITHIN 6 INCHES OF ALL DUCT AND EQUIPMENT MOUNTED DDC AIRFLOW SENSORS, TEMPERATURE SENSORS, RH SENSORS, DEWPOINT SENSORS, PRESSURE SENSING PORTS, AND ALL LOCATIONS WHERE THE TEST, ADJUST, BALANCE CONTRACTOR MAKES A TEMPERATURE, PRESSURE, OR AIRFLOW MEASUREMENT.</div> <div>6. PROVIDE HINGED AND RUBBER-GASKETED ACCESS DOORS (MINIMUM 16"x16") ADJACENT TO ALL AUTOMATIC CONTROL DAMPERS, CO2 SENSORS, AIRFLOW MEASUREMENT STATIONS, 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 ALL DUCT MOUNTED HEATING COILS.</div> <div>7. REFER TO SPECIFICATIONS FOR KITCHEN HOOD EXHAUST DUCTWORK, DISHWASHER HOOD EXHAUST DUCTWORK, AND OTHER DETAILS REQUIREMENTS.</div>										
C						<div>BASIS OF DESIGN & OTHER ACCEPTABLE MFR NOTES</div> <div>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.</div> <div>2. REFER TO SPEC SECTION 23050 FOR FIELD MEASUREMENTS AND SUBMITTALS: COORDINATION/SHOP DRAWINGS REQUIREMENTS.</div> <div>3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL UPSIZING AND PIPING MODIFICATION FROM THE BASIS OF DESIGN EQUIPMENT TO OTHER ACCEPTABLE EQUIPMENT WITHOUT ADDITIONAL COST TO THE OWNER. <u>ALL REQUIRED UPSIZING COST SHALL BE INCLUDED UNDER BASE BID.</u></div> <div>4. MAINTAIN MINIMUM CLEAR ACCESS FOR UNIT MAINTENANCE PER MANUFACTURER'S RECOMMENDATION.</div>					<div>ANTON LEE ENGINEERING</div> <div>ANTON LEE ENGINEERING, LLC. 1765 E. NINE MILE RD., STE. 1 #220 PENSACOLA, FL 32514</div> <div>CERTIFICATE OF AUTHORIZATION: FL 32794 AL 5685-E</div> <div>ANTON LEE, PE FL PE# 92369 AL PE# 37427-E PROJECT NUMBER 21-149</div>					
D																
E																
F																
J																
H																
J																
K																
L	PROJECT BUILDING CODE REQUIREMENTS															
M	<div>WORK SHALL COMPLY WITH THE FOLLOWING AGENCIES:</div> <div><ul style="list-style-type: none">2020 FLORIDA BUILDING CODE2020 FLORIDA MECHANICAL CODE2020 FLORIDA ENERGY CONSERVATION CODE2020 FLORIDA PLUMBING CODE2020 FLORIDA FUEL GAS CODE2020 FLORIDA FIRE PREVENTION CODE2014 STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (SREF)AMERICAN SOCIETY OF HEATING AND REFRIGERATION ENGINEERS (ASHRAE)AMERICAN SOCIETY OF PLUMBING ENGINEERS (ASPE)NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)NFPA 70 NATIONAL ELECTRICAL CODENFPA 101 LIFE SAFETY CODE</div>															

PRINT DATE:

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12

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14

DO NOT SCALE DRAWINGS

PRINT DATE: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

DESIGN CONDITIONS				
SUMMER WINTER	OUTSIDE		INSIDE - OCCUPIED MODE	
	DB (DEG. F)	WB (DEG. F)	DB (DEG. F)	RH
	94	78	74	50%
	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

SPLIT SYSTEM DX UNIT EQUIPMENT SCHEDULE																															
INDOOR UNIT																				OUTDOOR UNIT											
MARK	FAN DATA				COOLING COIL DATA							HEATING COIL DATA				NATURAL GAS HEAT					ELECTRICAL DATA				MARK	COMP QTY	FAN QTY	ELECTRICAL DATA			
	SA AIRFLOW (CFM)	OA AIRFLOW (CFM)	EXT. S. P. (IN. W.C.)	POWER (HP)	TOTAL CAP. (MBH)	SENSIBLE CAP. (MBH)	LATENT CAP. (MBH)	EAT (DB) (DEG. F)	EAT (WB) (DEG. F)	LAT (DB) (DEG. F)	LAT (WB) (DEG. F)	ARI SEER	TOTAL CAP. (MBH)	EAT (DB) (DEG. F)	LAT (DB) (DEG. F)	ARI HSPF	INPUT HEAT (MBH)	GAS (CFH)	MIN. AFUE (%)	# OF STAGE											
	MCA	VOLTS	PHASE	Hz	MCA	VOLTS	PHASE	Hz																							
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

- NOTES:
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. OUTDOOR UNIT COIL SHALL BE PROVIDED WITH SEACOAST CORROSION PROTECTION COATING.
 12. BASIS OF DESIGN IS TRANE. INDOOR UNIT: 4TXC+\$9V2C. OUTDOOR UNIT: 4TWR5060H1
OTHER ACCEPTABLE MFR IS YORK AND DAIKIN.

SPLIT SYSTEM DX - 100% OUTSIDE AIR UNIT EQUIPMENT SCHEDULE																									
INDOOR UNIT																		OUTDOOR UNIT							
MARK	FAN DATA			COOLING COIL DATA								ELECT. STRIP HEAT			ELECTRICAL DATA				MARK	COMP QTY	FAN QTY	ELECTRICAL DATA			
	OA AIRFLOW (CFM)	EXT. S. P. (IN. W.C.)	POWER (HP)	TOTAL CAP. (MBH)	SENS. CAP. (MBH)	LATENT CAP. (MBH)	EAT (DB) (DEG. F)	EAT (WB) (DEG. F)	LAT (DB) (DEG. F)	LAT (WB) (DEG. F)	PROVIDED (KW)	MINIMUM CAPACITY (KW)	# OF STAGE												
	MCA	VOLTS	PHASE	Hz	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	

- NOTES:
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).

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PROJECT:
ORIOLE BEACH
ELEMENTARY - KITCHEN
RENOVATION



1260 ORIOLE BEACH RD,
GULF BREEZE, FLORIDA

ENGINEER'S SEAL

-PRELIMINARY-
NOT FOR
CONSTRUCTION

PROJECT NO. : 21065
SHEET TITLE:

MECHANICAL SCHEDULES

SHEET NUMBER:

M003

PHASE 3

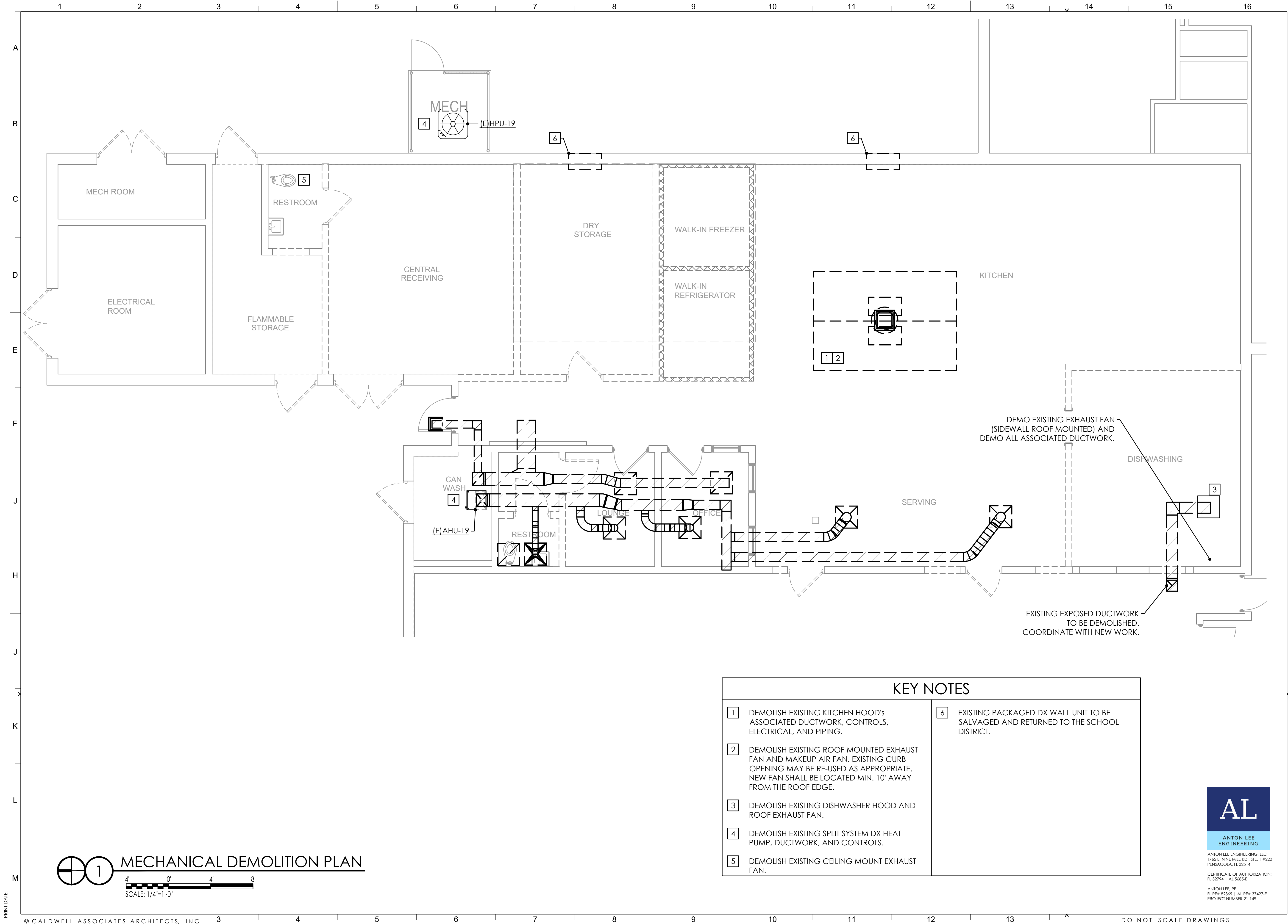
AL

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 01-149



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-
NOT FOR
CONSTRUCTION**

PROJECT NO. : 21065
SHEET TITLE:

MECHANICAL
DEMOLITION PLAN

SHEET NUMBER:

M201

PHASE 3

KEY NOTES

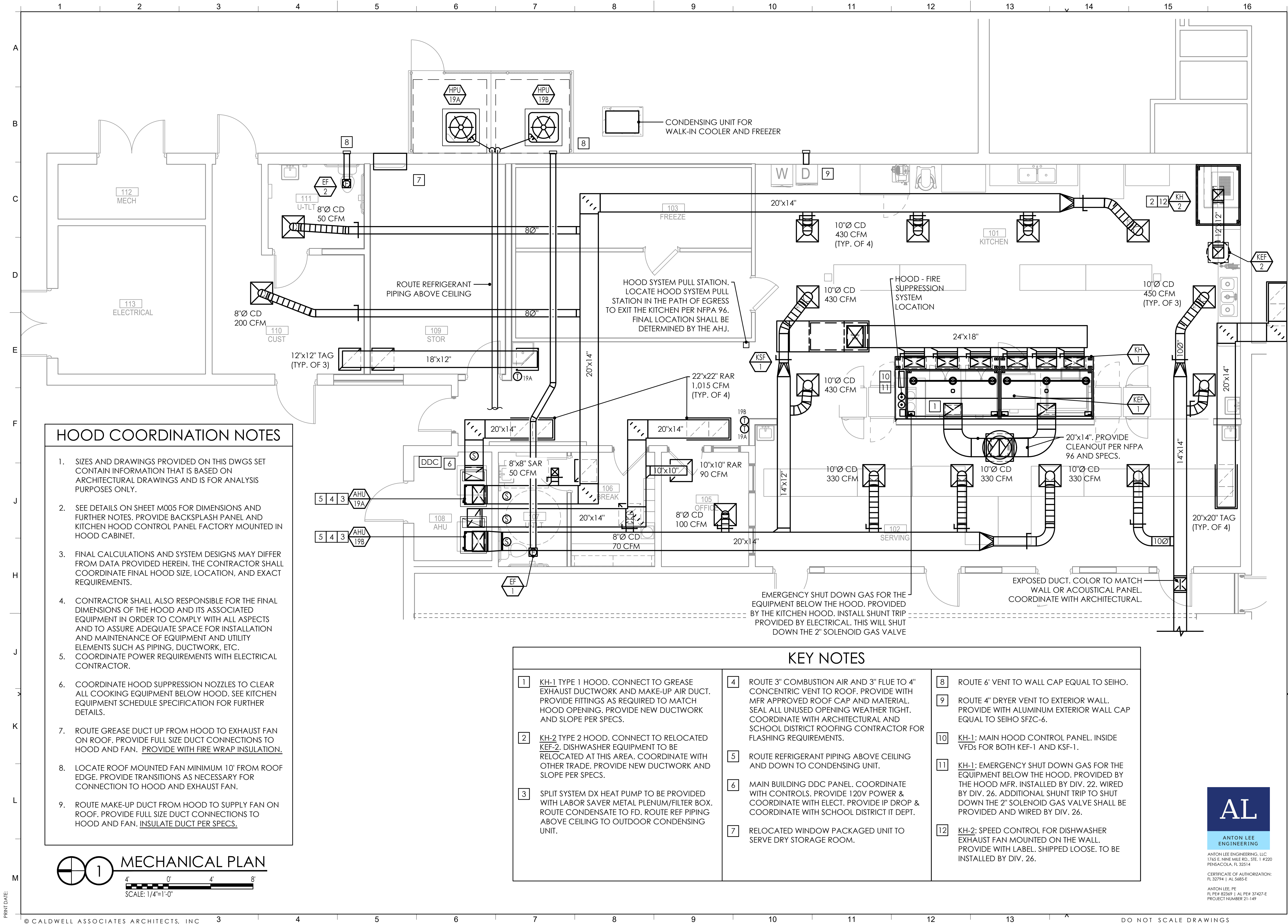
- | | |
|---|---|
| <p>1 DEMOLISH EXISTING KITCHEN HOOD'S ASSOCIATED DUCTWORK, CONTROLS, ELECTRICAL, AND PIPING.</p> <p>2 DEMOLISH EXISTING ROOF MOUNTED EXHAUST FAN AND MAKEUP AIR FAN. EXISTING CURB OPENING MAY BE RE-USED AS APPROPRIATE. NEW FAN SHALL BE LOCATED MIN. 10' AWAY FROM THE ROOF EDGE.</p> <p>3 DEMOLISH EXISTING DISHWASHER HOOD AND ROOF EXHAUST FAN.</p> <p>4 DEMOLISH EXISTING SPLIT SYSTEM DX HEAT PUMP, DUCTWORK, AND CONTROLS.</p> <p>5 DEMOLISH EXISTING CEILING MOUNT EXHAUST FAN.</p> | <p>6 EXISTING PACKAGED DX WALL UNIT TO BE SALVAGED AND RETURNED TO THE SCHOOL DISTRICT.</p> |
|---|---|

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ENGINEERING

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PROJECT NUMBER 21-149

MECHANICAL DEMOLITION PLAN

4' 0' 4' 8'
SCALE: 1/4"=1'-0"



HOOD COORDINATION NOTES

- SIZES AND DRAWINGS PROVIDED ON THIS DWGS SET CONTAIN INFORMATION THAT IS BASED ON ARCHITECTURAL DRAWINGS AND IS FOR ANALYSIS PURPOSES ONLY.
- SEE DETAILS ON SHEET M005 FOR DIMENSIONS AND FURTHER NOTES. PROVIDE BACKSPASH PANEL AND KITCHEN HOOD CONTROL PANEL FACTORY MOUNTED IN HOOD CABINET.
- FINAL CALCULATIONS AND SYSTEM DESIGNS MAY DIFFER FROM DATA PROVIDED HEREIN. THE CONTRACTOR SHALL COORDINATE FINAL HOOD SIZE, LOCATION, AND EXACT REQUIREMENTS.
- CONTRACTOR SHALL ALSO RESPONSIBLE FOR THE FINAL DIMENSIONS OF THE HOOD AND ITS ASSOCIATED EQUIPMENT IN ORDER TO COMPLY WITH ALL ASPECTS AND TO ASSURE ADEQUATE SPACE FOR INSTALLATION AND MAINTENANCE OF EQUIPMENT AND UTILITY ELEMENTS SUCH AS PIPING, DUCTWORK, ETC. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
- COORDINATE HOOD SUPPRESSION NOZZLES TO CLEAR ALL COOKING EQUIPMENT BELOW HOOD. SEE KITCHEN EQUIPMENT SCHEDULE SPECIFICATION FOR FURTHER DETAILS.
- ROUTE GREASE DUCT UP FROM HOOD TO EXHAUST FAN ON ROOF. PROVIDE FULL SIZE DUCT CONNECTIONS TO HOOD AND FAN. PROVIDE WITH FIRE WRAP INSULATION.
- LOCATE ROOF MOUNTED FAN MINIMUM 10' FROM ROOF EDGE. PROVIDE TRANSITIONS AS NECESSARY FOR CONNECTION TO HOOD AND EXHAUST FAN.
- ROUTE MAKE-UP DUCT FROM HOOD TO SUPPLY FAN ON ROOF. PROVIDE FULL SIZE DUCT CONNECTIONS TO HOOD AND FAN. INSULATE DUCT PER SPECS.

1 KH-1 TYPE 1 HOOD. CONNECT TO GREASE EXHAUST DUCTWORK AND MAKE-UP AIR DUCT. PROVIDE FITTINGS AS REQUIRED TO MATCH HOOD OPENING. PROVIDE NEW DUCTWORK AND SLOPE PER SPECS.	4 ROUTE 3" COMBUSTION AIR AND 3" FLUE TO 4" CONCENTRIC VENT TO ROOF. PROVIDE WITH MFR APPROVED ROOF CAP AND MATERIAL. SEAL ALL UNUSED OPENING WEATHER TIGHT. COORDINATE WITH ARCHITECTURAL AND SCHOOL DISTRICT ROOFING CONTRACTOR FOR FLASHING REQUIREMENTS.	8 ROUTE 6" VENT TO WALL CAP EQUAL TO SEIHO.
2 KH-2 TYPE 2 HOOD. CONNECT TO RELOCATED KEF-2. DISHWASHER EQUIPMENT TO BE RELOCATED AT THIS AREA. COORDINATE WITH OTHER TRADE. PROVIDE NEW DUCTWORK AND SLOPE PER SPECS.	5 ROUTE REFRIGERANT PIPING ABOVE CEILING AND DOWN TO CONDENSING UNIT.	9 ROUTE 4" DRYER VENT TO EXTERIOR WALL. PROVIDE WITH ALUMINUM EXTERIOR WALL CAP EQUAL TO SEIHO SFZC-6.
3 SPLIT SYSTEM DX HEAT PUMP TO BE PROVIDED WITH LABOR SAVER METAL PLENUM/FILTER BOX. ROUTE CONDENSATE TO FD. ROUTE REF PIPING ABOVE CEILING TO OUTDOOR CONDENSING UNIT.	6 MAIN BUILDING DDC PANEL. COORDINATE WITH CONTROLS. PROVIDE 120V POWER & COORDINATE WITH ELECT. PROVIDE IP DROP & COORDINATE WITH SCHOOL DISTRICT IT DEPT.	10 KH-1: MAIN HOOD CONTROL PANEL. INSIDE VFDs FOR BOTH KEF-1 AND KSF-1.
	7 RELOCATED WINDOW PACKAGED UNIT TO SERVE DRY STORAGE ROOM.	11 KH-1: EMERGENCY SHUT DOWN GAS FOR THE EQUIPMENT BELOW THE HOOD. PROVIDED BY THE HOOD MFR. INSTALLED BY DIV. 22. WIRED BY DIV. 26. ADDITIONAL SHUNT TRIP TO SHUT DOWN THE 2" SOLENOID GAS VALVE SHALL BE PROVIDED AND WIRED BY DIV. 26.
		12 KH-2: SPEED CONTROL FOR DISHWASHER EXHAUST FAN MOUNTED ON THE WALL. PROVIDE WITH LABEL. SHIPPED LOOSE. TO BE INSTALLED BY DIV. 26.

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PROJECT:

ORIOLE BEACH
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RENOVATION

SANTA ROSA COUNTY DISTRICT SCHOOLS

1260 ORIOLE BEACH RD,
GULF BREEZE, FLORIDA

ENGINEER'S SEAL

**-PRELIMINARY-
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PROJECT NO. : 21065
SHEET TITLE:

MECHANICAL PLAN

SHEET NUMBER:

M301

PHASE 3

AL

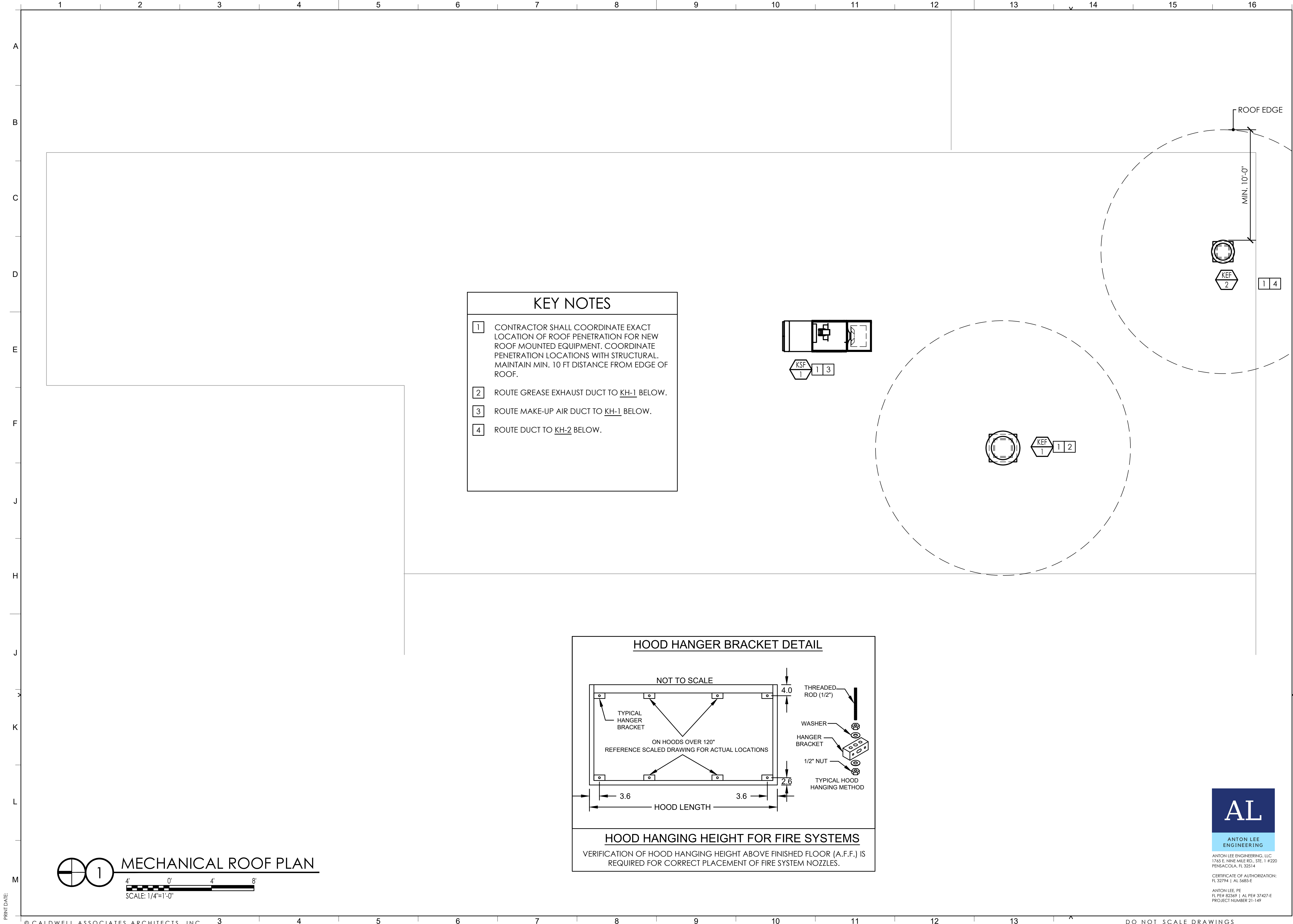
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ENGINEERING

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

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PRINT DATE:



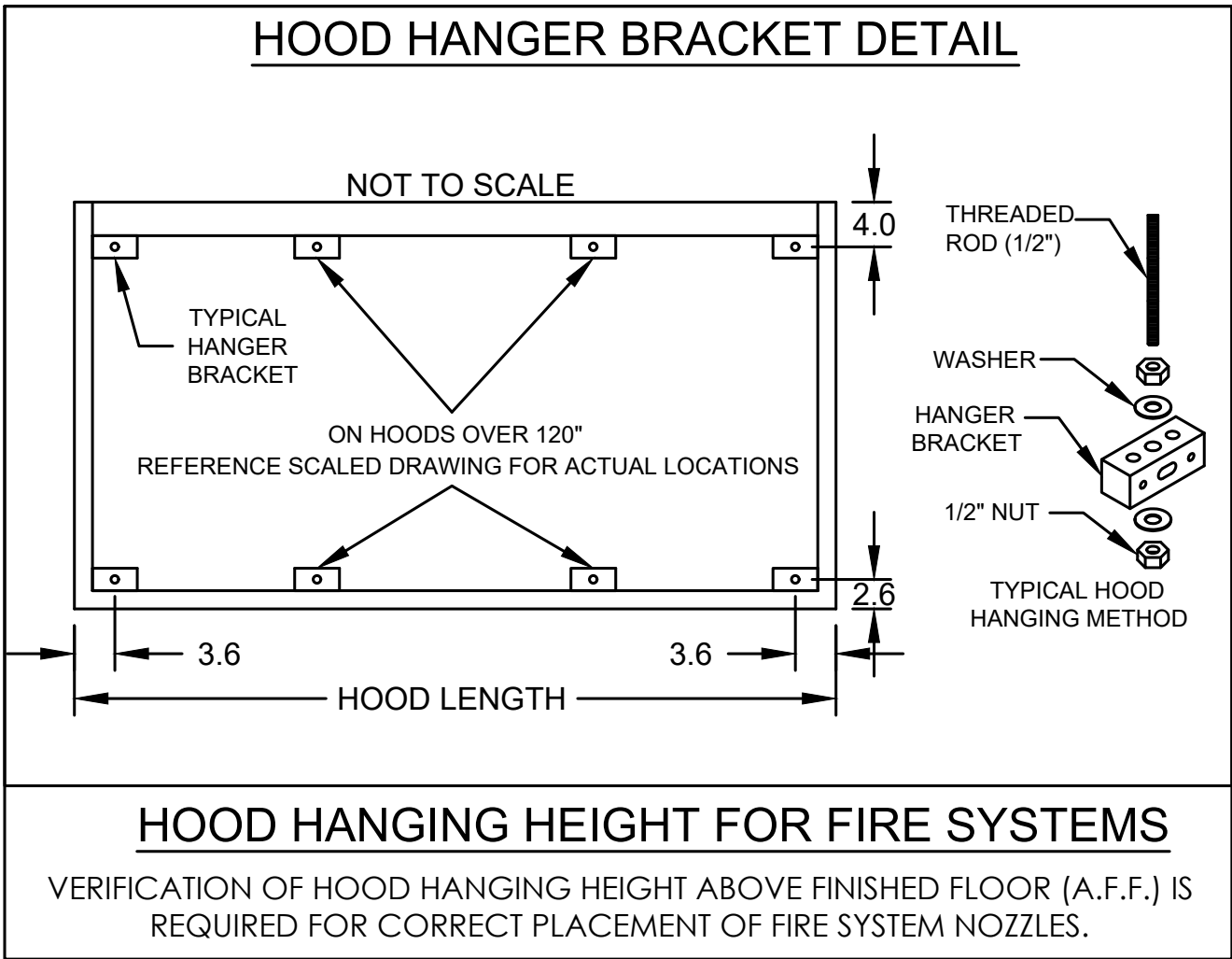
- KEY NOTES
- 1

CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ROOF PENETRATION FOR NEW ROOF MOUNTED EQUIPMENT. COORDINATE PENETRATION LOCATIONS WITH STRUCTURAL. MAINTAIN MIN. 10 FT DISTANCE FROM EDGE OF ROOF.
- 2

ROUTE GREASE EXHAUST DUCT TO KH-1 BELOW.
- 3

ROUTE MAKE-UP AIR DUCT TO KH-1 BELOW.
- 4

ROUTE DUCT TO KH-2 BELOW.



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ELEMENTARY - KITCHEN
RENOVATION



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ENGINEER'S SEAL

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CONSTRUCTION

PROJECT NO. : 21065
SHEET TITLE:

MECHANICAL ROOF PLAN

SHEET NUMBER:

M302

PHASE 3

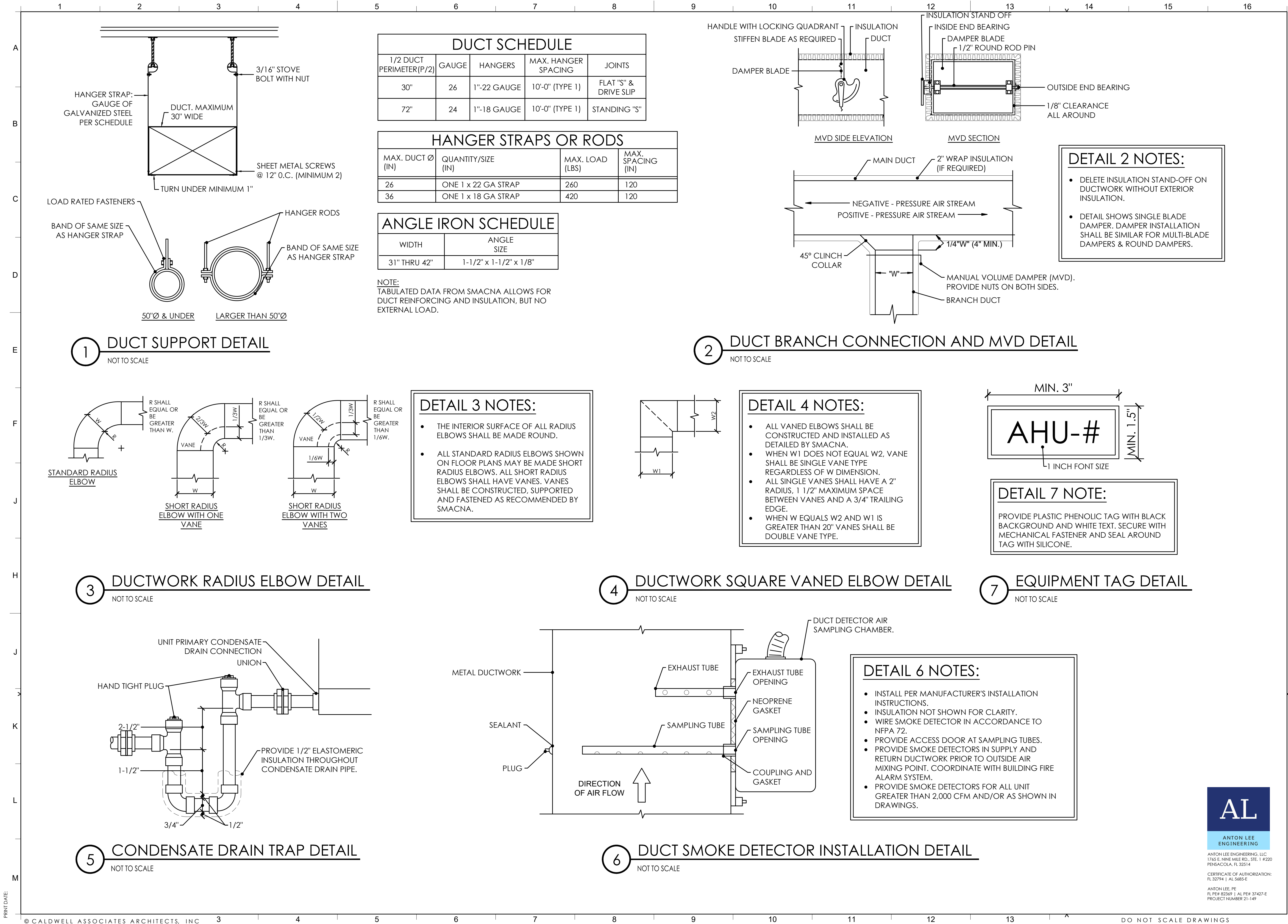
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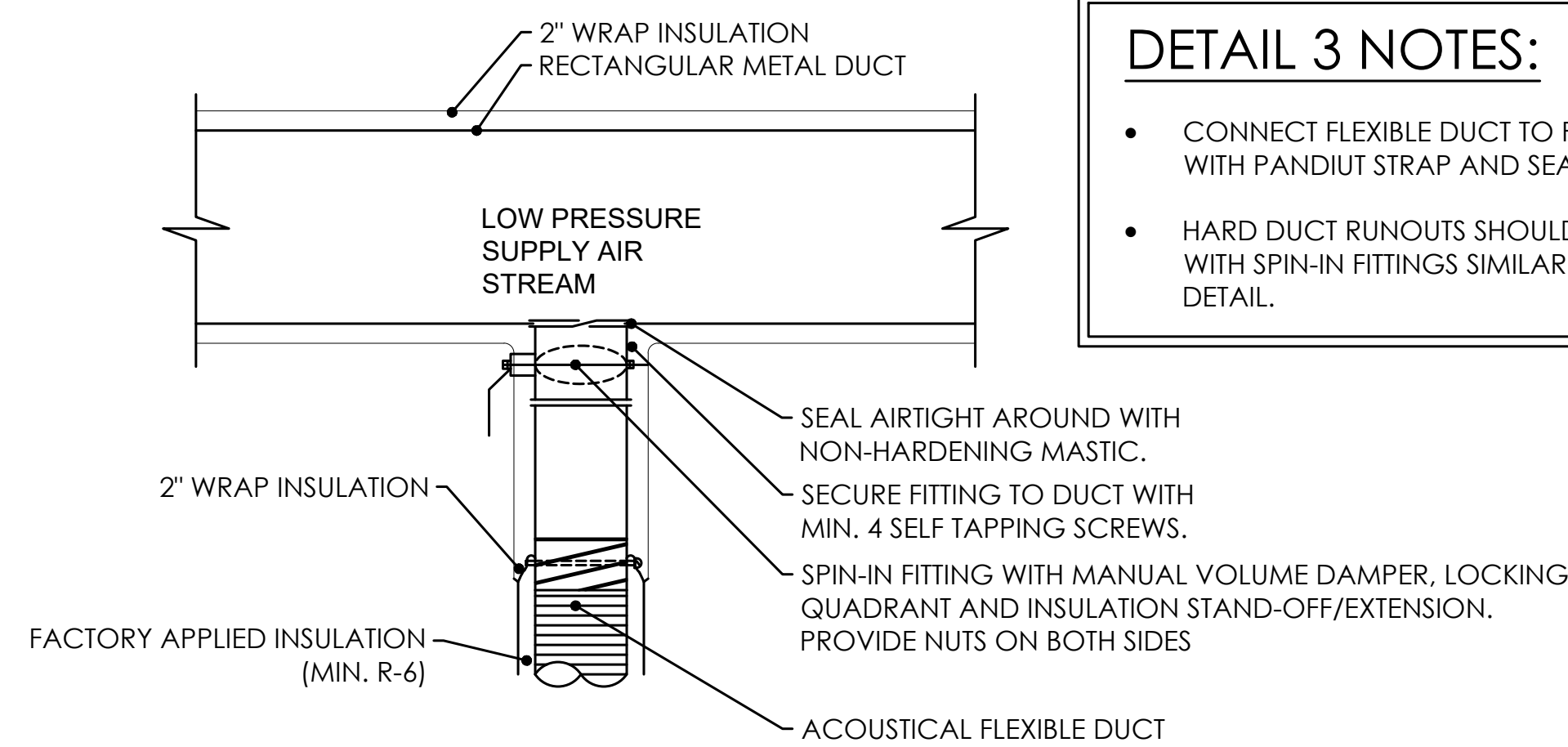
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ENGINEERING

ANTON LEE ENGINEERING, LLC
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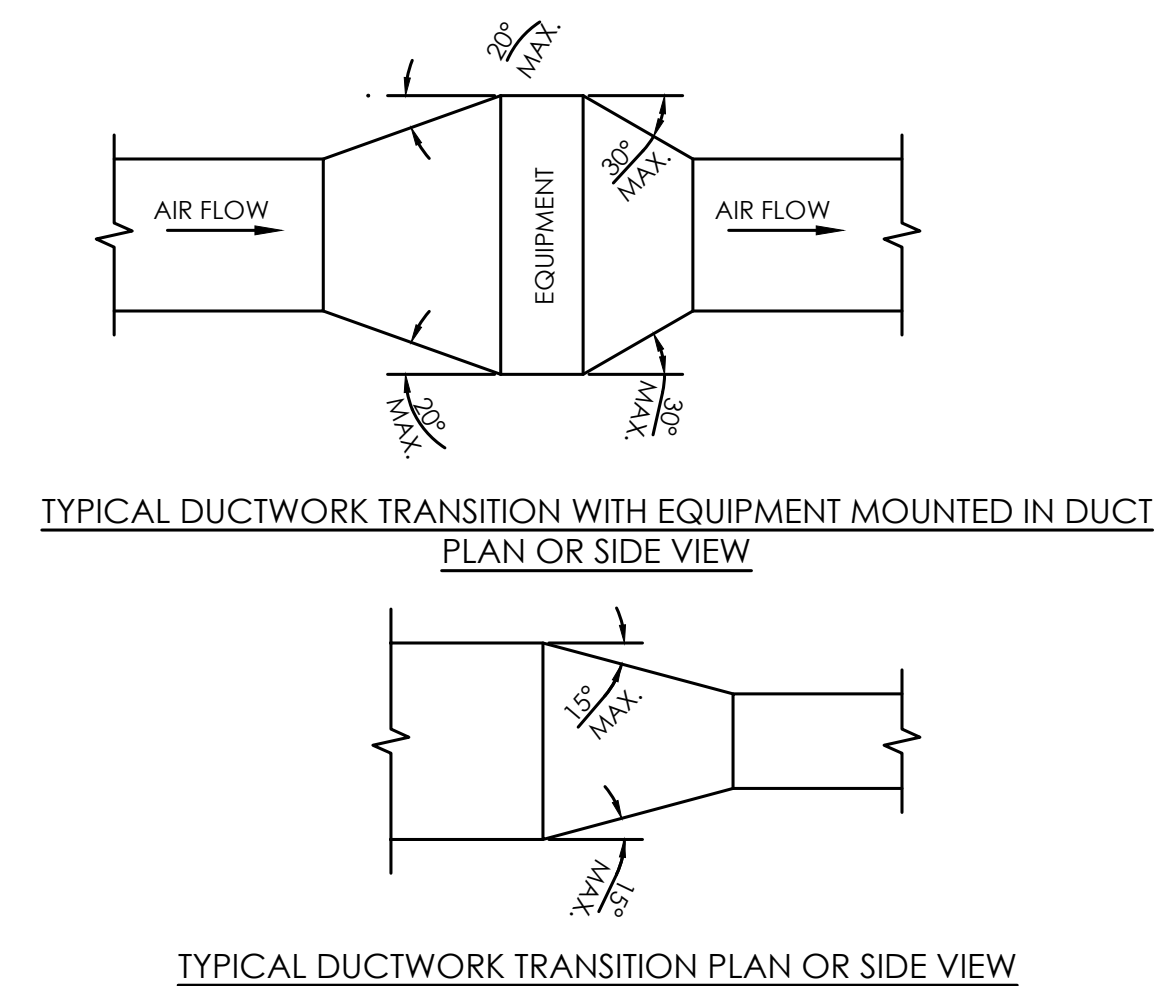
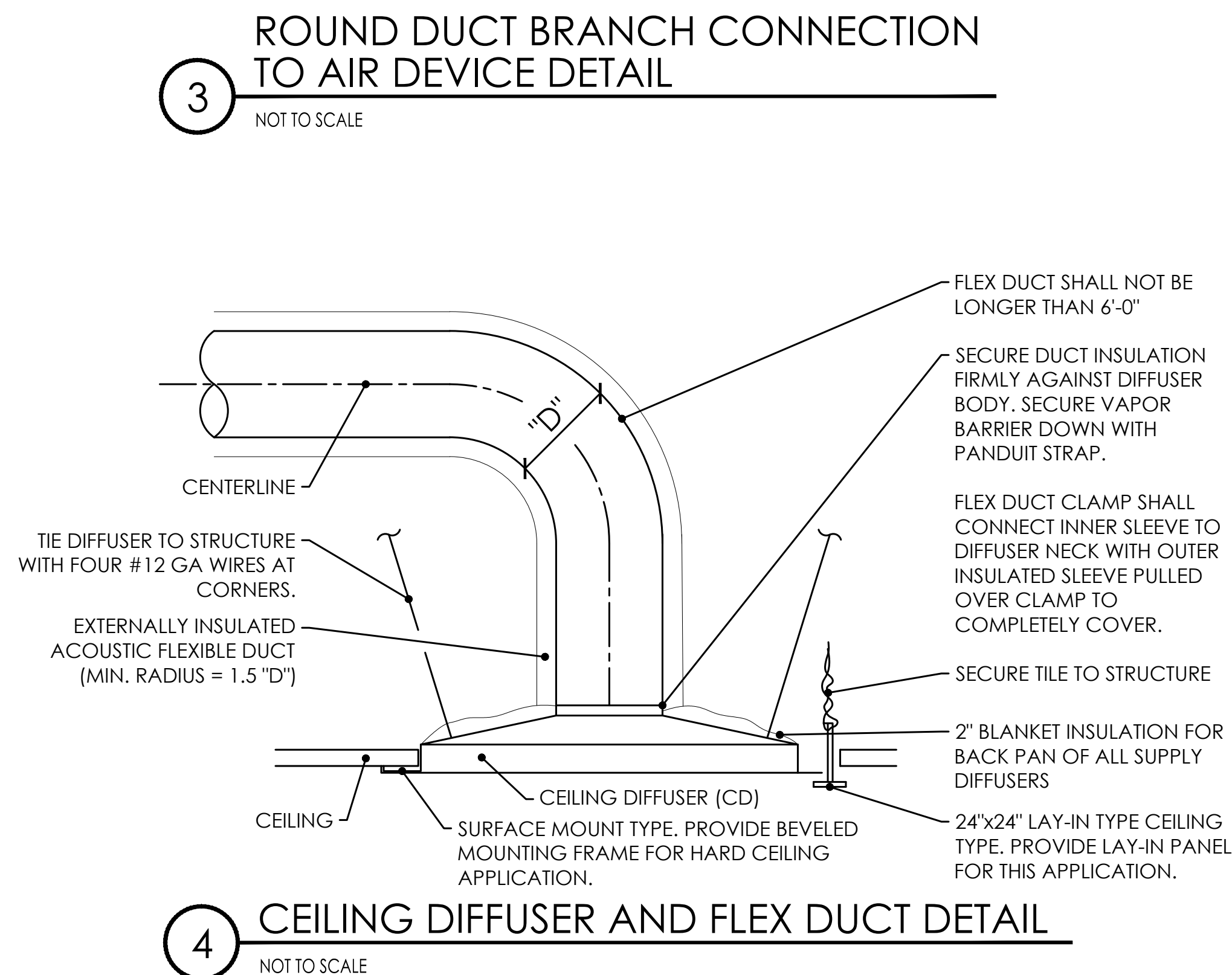




VENTILATOR SIZE	MAXIMUM ROOF OPENING	MAXIMUM WEIGHT FAN/VENTILATOR	NUMBER OF FASTENERS PER SIDE	TOTAL NUMBER OF FASTENERS
8Ø - 12Ø	14.5" x 14.5"	60 LBS	3	12
15Ø - 16Ø	18.5" x 18.5"	85 LBS	3	12
18Ø -20Ø	20.5" x 20.5"	140 LBS	5	20
24Ø	26.5" x 26.5"	160 LBS	5	20
30Ø	32.5" x 32.5"	325 LBS	5	20

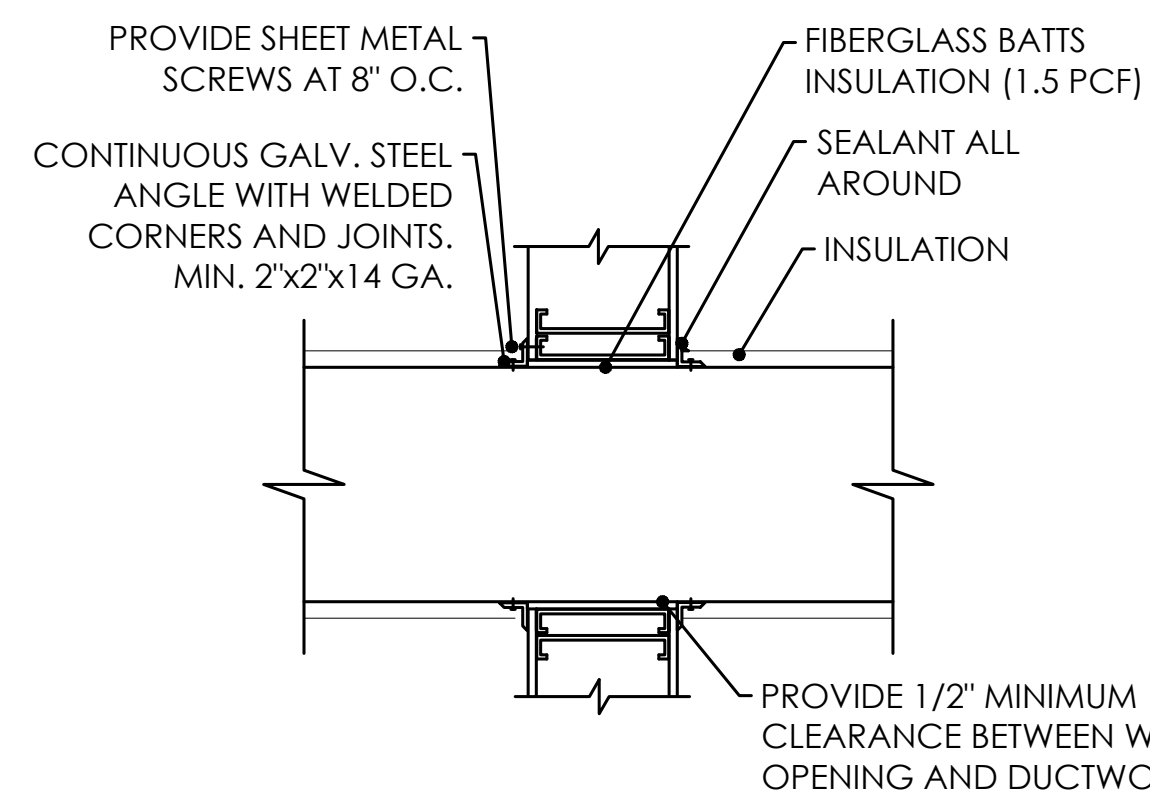
1. ROOF CURBS SHALL BE FURNISHED BY DIVISION 23 AND INSTALLED BY ROOFING CONTRACTOR. FIELD COORDINATE ROOF CURB LOCATIONS WITH STRUCTURAL CONTRACTOR/ARCHITECT FOR STRUCTURAL SUPPORT FRAMING FOR THE CURB AND ROOF-MOUNTED EQUIPMENT.
2. SECURE ALL ROOF MOUNTED FANS, VENTS, AND THEIR ROOF CURBS DIRECTLY 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.

1 ROOF MOUNT EXHAUST FAN DETAIL



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

TYPICAL DUCTWORK TRANSITION WITH EQUIPMENT MOUNTED IN DUCT DETAIL



2 DUCTWORK WALL PENETRATION DETAIL

- CONNECT FLEXIBLE DUCT TO FITTING WITH PANDIUT STRAP AND SEAL.
- HARD DUCT RUNOUTS SHOULD START WITH SPIN-IN FITTINGS SIMILAR TO THIS DETAIL.

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

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McCarthy Engineering

MECHANICAL
Anton Lee Engineering

ELECTRICAL
HG Engineers

PROJECT:

ORIOLE BEACH ELEMENTARY - KITCHEN RENOVATION



260 ORIOLE BEACH RD,
GULF BREEZE, FLORIDA

ENGINEER'S SEAL

**-PRELIMINARY-
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CONSTRUCTION**

PROJECT NO. : 21065
SHEET TITLE:

MECHANICAL DETAILS

SHEET NUMBER:

M502

PHASE 3

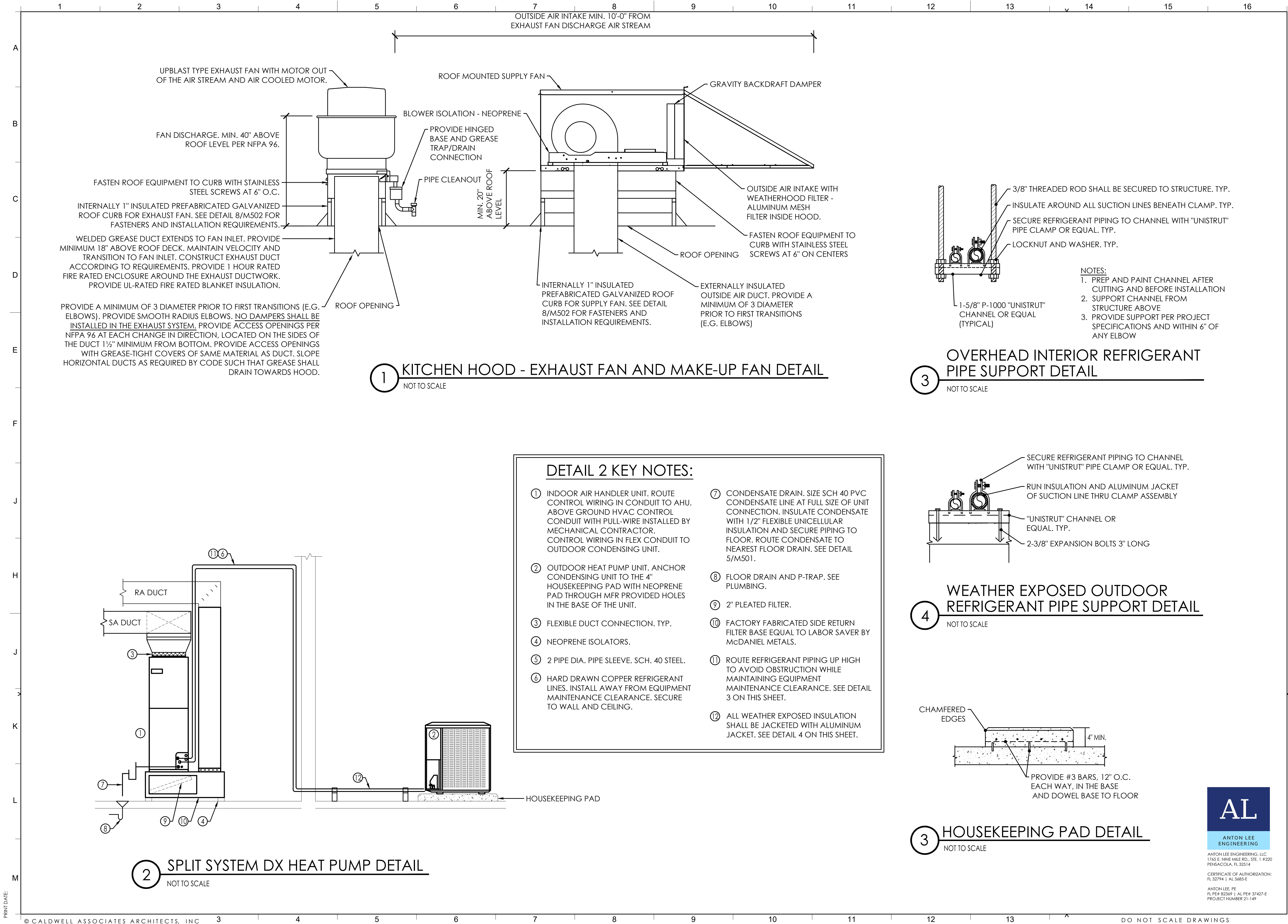
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ELEMENTARY - KITCHEN
RENOVATION



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PROJECT NO. : 21065
SHEET TITLE:

MECHANICAL DETAILS

SHEET NUMBER:

M503

PHASE 3

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GENERAL DDC SYSTEM NOTES

1. THE CONTRACTOR SHALL PROVIDE A NEW DDC SYSTEM TO PERFORM THE INDICATED SEQUENCES, ALL OTHER FUNCTIONS REQUIRED BY THE CONTRACT DOCUMENTS, AND ALL OTHER FUNCTIONS REQUIRED FOR A COMPLETE AND FUNCTIONAL SYSTEM.

2. COORDINATE WITH THE SCHOOL DISTRICT IT DEPARTMENT REPRESENTATIVE FOR IP DROP LOCATION AT THE MECHANICAL ROOM.

3. COORDINATE WITH THE SCHOOL DISTRICT REPRESENTATIVE FOR OCCUPIED AND UNOCCUPIED SCHEDULE OF OPERATIONS.

4. DDC WORK SHALL BE PERFORMED BY CONTROLS CONTRACTOR SELECTED BY THE SCHOOL DISTRICT. ALL WORK TO BE UNDER THIS CONTRACT. SEE SPECIFICATIONS. DDC SYSTEM CONTACT INFORMATION WILL BE PROVIDED VIA ADDENDUM AND ALLOWANCE:

5. ALL DDC WORK SHALL BE COORDINATED BY THE CONTRACTOR AND SHALL INCLUDE, BUT NOT BE LIMITED TO, DETERMINING AND PROVIDING ALL REQUIREMENTS FOR THE INSTALLATION OF DDC EQUIPMENT, SENSORS, ETC, SCHEDULING AND INFORMING THE DDC CONTRACTOR AS TO WHEN REQUIRED CONSTRUCTION ACTIVITIES ARE TO BE PERFORMED IN ORDER TO PROVIDE A COMPLETE AND FUNCTIONAL HVAC SYSTEM WITHIN THE PROJECT TIME PERIOD, REPAIRING OR REPLACING ALL DEFECTS IN THE HVAC SYSTEMS WHERE POINTED OUT BY THE DDC CONTRACTOR, AND REPLACING DEFECTIVE EQUIPMENT AND CALIBRATION OF EQUIPMENT AS NECESSARY WHERE POINTED OUT BY THE DDC CONTRACTOR.

6. THE CONTRACTOR SHALL INSTALL ALL SPECIFIED PORTS AND OTHER WORK REQUIRED FOR A COMPLETE AND FUNCTIONAL DDC SYSTEM.

7. ALL SEQUENCES ARE SUBJECT TO SAFETIES. DDC CONTRACTOR SHALL PROVIDE ALL NECESSARY AND CUSTOMARY SAFETIES.

8. ALL WIRING SHALL BE IN CONDUIT. ALL CONDUIT SHALL BE INSTALLED BY CONTROLS CONTRACTOR IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS AND REQUIREMENTS FOR 120 VAC CIRCUITS. PLENUM RATED CABLING IS ACCEPTABLE.

9. CONDUIT SHALL BE RUN PERPENDICULAR AND PARALLEL TO BUILDING LINES IN A FIRST CLASS WORKMANSHIP LIKE MANNER.

10. THE CONTROLS CONTRACTOR SHALL PROVIDE ALL POWER REQUIREMENTS AND CONTROL VOLTAGE TRANSFORMERS AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. COORDINATE WITH ELECTRICAL CONTRACTOR FOR TRANSFORMER LOCATIONS AND REQUIREMENTS.

11. 120 VOLT SINGLE PHASE POWER CONNECTION JUNCTION BOXES HAVE BE PROVIDED FOR USE TO POWER DDC SYSTEM COMPONENTS. THESE JUNCTION BOXES ARE SHOWN ON THE ELECTRICAL POWER PLAN DRAWINGS. THE DDC CONTROLS CONTRACTOR IS RESPONSIBLE FOR ALL POWER WIRING AND COMPONENTS DOWNSTREAM OF THESE JUNCTION BOXES AND VERIFYING THE QUANTITY AND LOCATION OF THE JUNCTION BOXES IS ADEQUATE. ADDITIONAL POWER CONNECTIONS ARE THE RESPONSIBILITY OF THE DDC CONTROLS CONTRACTOR TO COORDINATE PRIOR TO BID.

12. MOTORIZED DAMPERS AND ACTUATORS SHALL BE PROVIDED BY CONTROLS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.

12.1. OUTSIDE AIR MOTORIZED DAMPER SHALL BE EQUAL TO TAMCO 1500-MR SERIES: MOISTURE RESISTANCE OPTION.

12.2. RETURN AIR MOTORIZED DAMPER SHALL BE EQUAL TO TAMCO 1500 SERIES: BASE OPTION.

13. PROVIDE AND INSTALL DUCT MOUNTED AIRFLOW MEASURING STATION. AIRFLOW MEASURING STATION EQUAL TO ACCUTROL VORTEK VTD SERIES. PROVIDE WITH REMOTE DISPLAY AND TO BE MOUNTED AT APPROX. 48" AFF.

14. PROVIDE DDC CONNECTION TO KITCHEN HOOD (KH-1) CONTROL PANEL.

15. PROVIDE CONTROLS SYSTEM AND SENSORS FOR RENOVATION AND OTHER MISCELLANEOUS CONTROLS WORK PER MECHANICAL PLAN. THIS INCLUDE BUT NOT LIMITED TO CONTROL ACTUATORS, TEMPERATURE SENSORS, THERMOSTATS, AND ETC. CONTROLS CONTRACTOR SHALL VISIT THE JOB SITE TO FINALIZE EXACT NUMBER OF EQUIPMENT NEEDED PRIOR TO CONSTRUCTION. NOTIFY A/E AND SCHOOL DISTRICT FOR ANY DISCREPANCIES.

16. PROVIDE OUTSIDE AIR TEMPERATURE/HUMIDITY SENSOR WITH SUNSHIELD, MOUNTED ON EXTERIOR WALL BELOW CANOPY OR OVERHANG. SEE FLOOR PLAN.

17. PROVIDE MOTORIZED DAMPER ACTUATORS. DAMPERS SHALL BE PROVIDED BY CONTROLS CONTRACTOR (NO FACTORY MOUNTED ACTUATORS) AND INSTALLED BY MECHANICAL CONTRACTOR - SEE CONTROLS LAYOUT. ACTUATORS SHALL BE PROVIDED AND INSTALLED BY DDC CONTRACTOR.

18. PROVIDE INTERFACE TO KITCHEN HOOD CONTROL PANEL.

19. MECHANICAL CONTRACTOR SHALL COORDINATE WITH DDC CONTRACTOR REGARDING DDC FINAL SCOPE OF WORK AND EXCLUSIONS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SUCCESSFUL AND OPERATIONAL DDC SYSTEM.

DDC CONTRACTOR CONTACT INFO:

WILL BE PROVIDED UNDER ADDENDUM 1

CONTROLS LEGEND

AI

ANALOG INPUT

AO

ANALOG OUTPUT

DI

DIGITAL INPUT

DO

DIGITAL OUTPUT

T

SPACE TEMPERATURE SENSOR OR THERMOSTAT

H

SPACE HUMIDITY SENSOR

T

DUCT MOUNT TEMPERATURE SENSOR

H

DUCT MOUNT HUMIDITY SENSOR

M

DUCT MOUNT MOTORIZED DAMPER AND ACTUATOR

FM

DUCT MOUNTED AIR FLOW MEASURING STATION

FZ

FREEZESTAT

T

LINEAR AVERAGING TEMPERATURE SENSOR

DP

DIFFERENTIAL PRESSURE TRANSMITTER

MVD

MANUAL VOLUME DAMPER

VFD

VARIABLE FREQUENCY DRIVE

DDC

DDC PANEL

AIRFLOW

FAN

FILTER

SEQUENCE OF OPERATION - SPLIT DX HEAT PUMP

GENERAL:

• APPLICABLE FOR ALL SPLIT SYSTEM HEAT PUMP.

• PROVIDE ALL REQUIRED CONTROLS TO OPERATE THE UNITS AS NOTED BELOW.

• PROVIDE CONDUIT FOR ALL CONTROLS WIRING.

• CONDUIT SHALL COMPLY WITH DIVISION 26 REQUIREMENTS.

• PROVIDE COMPLETE SUBMITTAL FOR ALL EQUIPMENT ALONG WITH CONTROLLERS AND WIRING DIAGRAM.

• PROVIDE AUTOMATIC FAN SHUTDOWN FOR ALL AIR HANDLERS.

• PROVIDE UL APPROVED SMOKE DETECTOR FOR UNIT ABOVE 2,000 CFM (SUPPLY AND RETURN DUCT - UPSTREAM OA CONNECTION).

START/STOP CONTROL:

• PROVIDE DDC THERMOSTAT/HUMIDISTAT FOR SCHEDULED START/STOP AND LOCAL OVERRIDE.

• PROVIDE ALL REQUIRED THE FIRE ALARM RELAY AND ALL SAFETIES FEATURES FROM MFR.

OCCUPIED COOLING MODE:

• THE AHU FAN SHALL START.

• THE STAGES OF DX COOLING AND FAN SHALL BE CYCLED AS REQUIRED TO MAINTAIN SPACE TEMPERATURE WHEN THE SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT.

OCCUPIED HEATING MODE:

• THE AHU FAN SHALL START.

• THE STAGES OF DX HEATING AND FAN SHALL BE CYCLED AS REQUIRED TO MAINTAIN SPACE TEMPERATURE WHEN THE SPACE TEMPERATURE DROPS BELOW THE HEATING SETPOINT.

• WHEN THE DX HEATING CYCLE IS INCAPABLE TO MAINTAIN SPACE TEMPERATURE, THE ELECTRICAL STRIP HEAT (FOR EXISTING AHUs) AND GAS HEAT (FOR NEW AHUs) SHALL BE MODULATED AS REQUIRED TO MAINTAIN HEATING SETPOINT.

OCCUPIED DEFROST MODE:

• THE AHU FAN SHALL START.

• DURING HEATING MODE, IF THE UNIT DEFROST CYCLE ACTIVATES, THE UNIT SHALL RUN THE INDOOR FAN AND MODULATE THE AHU HEATER TO SATISFY THE SPACE HEATING REQUIREMENTS.

UNOCCUPIED MODE:

• THE AHU ONLY RUN AS NEEDED TO SATISFY UNOCCUPIED SPACE TEMPERATURE.

OVERRIDE MODE:

• THE OVERRIDE TIMERS SHALL PLACE THE AHU/HPU SYSTEM IN OCCUPIED MODE FOR 2 HOURS (ADJ.)

SPLIT SYSTEM DX HEAT PUMP
CONTROLS DIAGRAM (NEW EQUIPMENT)

1

NOT TO SCALE

TYPICAL FOR AHU/HPU-19A AND 19B

CONDENSER FAN

COMPRESSOR

GAS HEATING COIL

DX COIL

SUPPLY FAN

FILTER

MVD

RETURN AIR

SUPPLY AIR

DI

DI

AI

T

AI

TH

AI

AL

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

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ENGINEER'S SEAL

-PRELIMINARY-
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PROJECT NO. : 21065
SHEET TITLE:

MECHANICAL CONTROLS

SHEET NUMBER:

M601

PHASE 3

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DO NOT SCALE DRAWINGS

PRINT DATE:

PRINT DATE: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 A B C D E F J H J K L M

- 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, EXTRUDED SILICONE OR COMPRESSIBLE STAINLESS STEEL JAMB 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.
- 4

TEMPERATURE SENSOR, TYP.
- 5

HUMIDITY SENSOR, TYP.
- 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.
- 8

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

OAU FACTORY CONTROLS NOTES

IT IS THE INTENT OF THE ENGINEER FOR THE OAU TO BE PROVIDED WITH FACTORY CONTROLS FOR OUTSIDE AIR UNIT INDEPENDENT OPERATIONS TO MAINTAIN REQUIRED DISCHARGE AIR TEMPERATURE TO SPACE.

THE DDC CONTRACTOR SHALL PROVIDE ALL PROJECT REQUIRED TEMPERATURE AND HUMIDITY SENSORS THAT ARE NOT BEING PROVIDED BY THE OAU MANUFACTURER FOR MAINTENANCE LCD DISPLAY AT DDC WORKSTATION.

REFER TO EQUIPMENT SCHEDULE FOR EXISTING OAU MANUFACTURER.

SEQUENCE OF OPERATION - DEDICATED OUTSIDE AIR UNIT

GENERAL REQUIREMENTS:

- THIS SEQUENCE IS FOR DEDICATED 100% OA UNIT WITH RECIRCULATION MODE (OAU-1 AND OAU-2).
- 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 SETPOINTS.
- 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:
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.
- 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:

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.

ALARMS:

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)

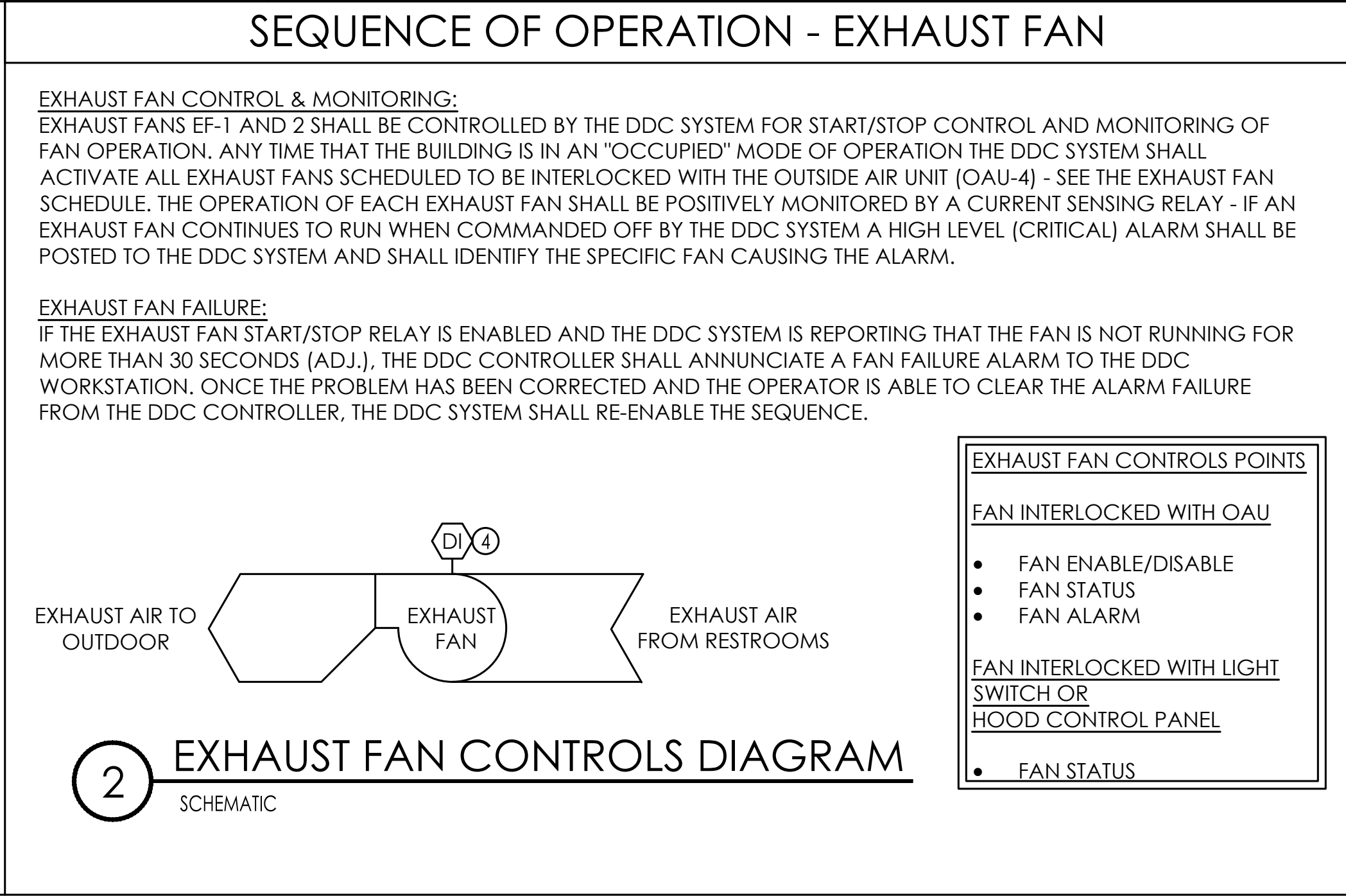
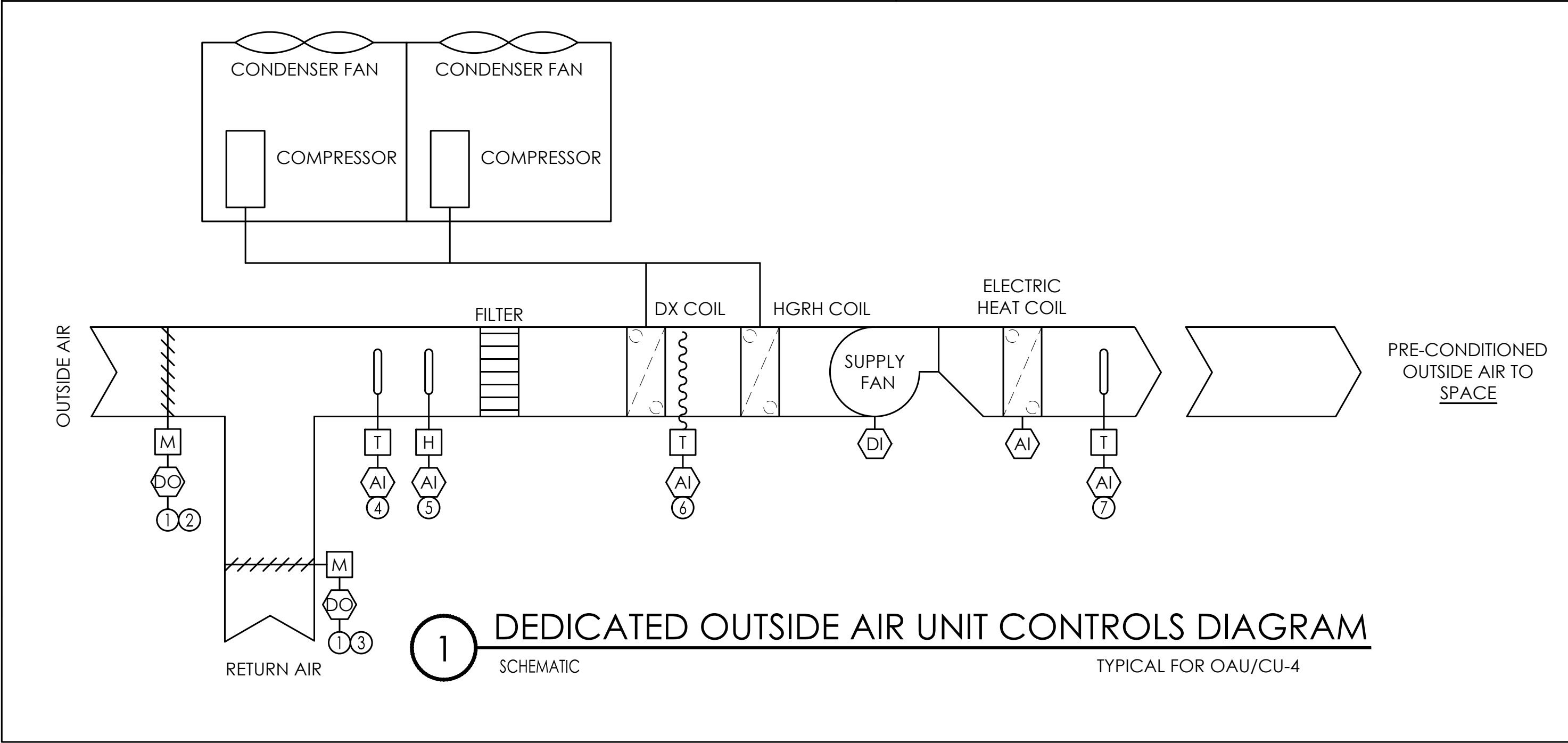
6.

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 MINUTES (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.



[illegible]

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 PERSONNEL 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.

5. 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.

6. 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:

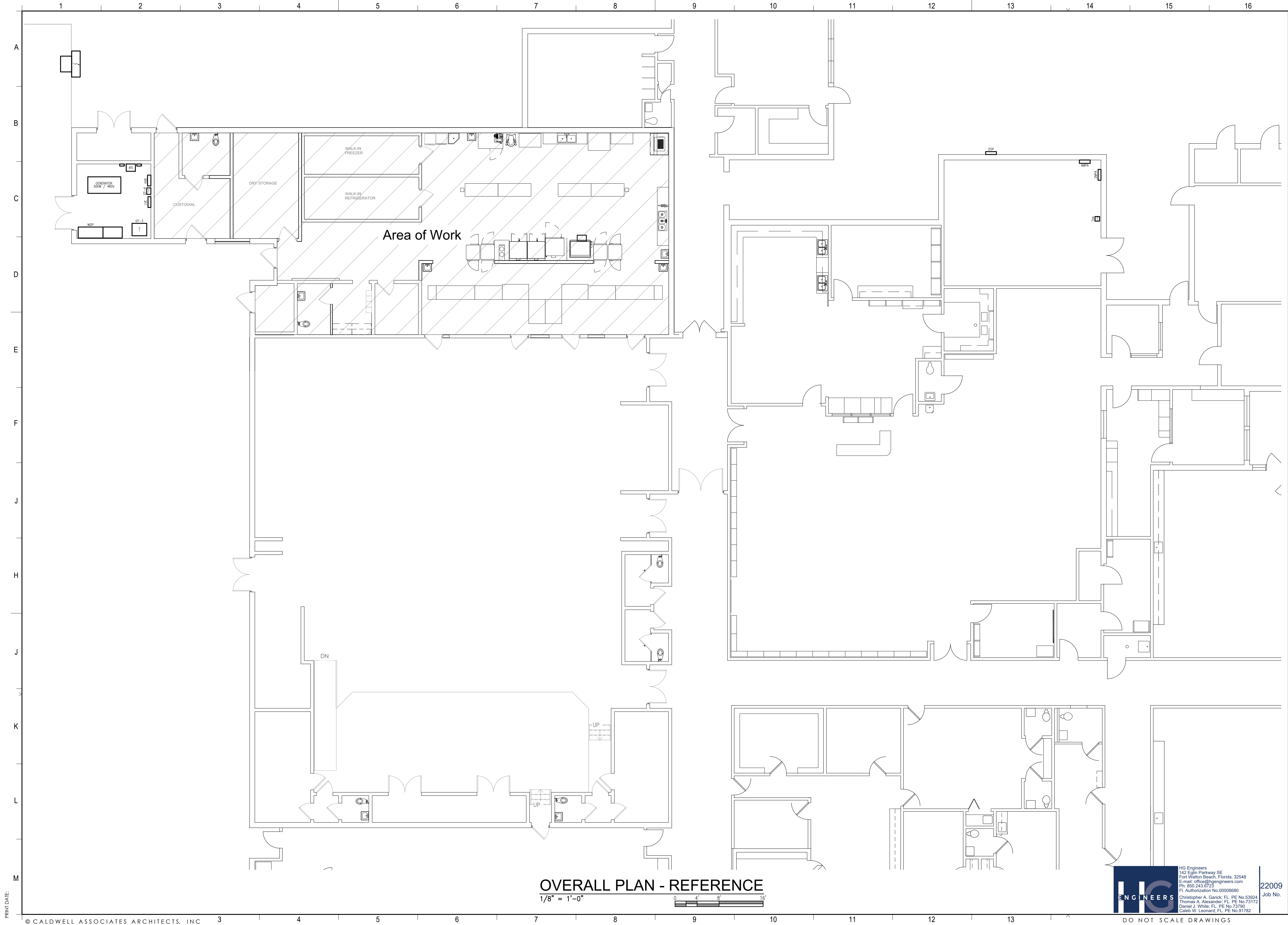
- a. PROVIDE ALL DEMOLITION AS REQUIRED OF EXISTING SYSTEMS REMOVING ALL ITEMS THAT CONFLICT WITH FINISHED DESIGN INTENT AS INDICATED ABOVE.
- b. MODIFY, REPLACE, REPAIR, REVISE ETC., EXISTING SYSTEMS AND/OR EQUIPMENT.
- c. EXTEND EXISTING SYSTEMS AS REQUIRED TO FUNCTION AS SPECIFIED AND IN ACCORDANCE 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. LUMINAIRES 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 CONTRACTOR SHALL BE REQUIRED TO FURNISH AND INSTALL ADDITIONAL MOUNTING HARDWARE AS REQUIRED BY THE MANUFACTURER.
- 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 REROUT, EXTEND, MODIFY, ETC., EXISTING CIRCUITS AS REQUIRED TO MAINTAIN COMPLETE AND OPERATING SYSTEMS.

- C. 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.

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.



Job No.



CALDWELL
ASSOCIATES | ARCHITECTS

116 N TARRAGONA STREET, PENSACOLA, FL 32502
(850) 432 9500 | CALDWELL-ASSOC.COM
Florida License No: AA24000721
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

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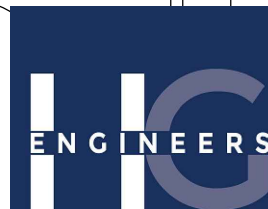
PROJECT NO. :
SHEET TITLE:

OVERALL PLAN -
REFERENCE

SHEET NUMBER:

E101

PHASE 3



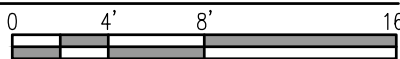
HG Engineers
142 Eglon Parkway SE
Fort Walton Beach, Florida, 32548
E-mail: office@hgengineers.com
Ph: 850 243 6723
Fl. Authorization No. 00006880
Christopher A. Garick, FL PE No. 53924
Thomas A. Alexander, FL PE No. 73172
Daniel J. White, FL PE No. 73790
Caleb W. Leonard, FL PE No. 91782

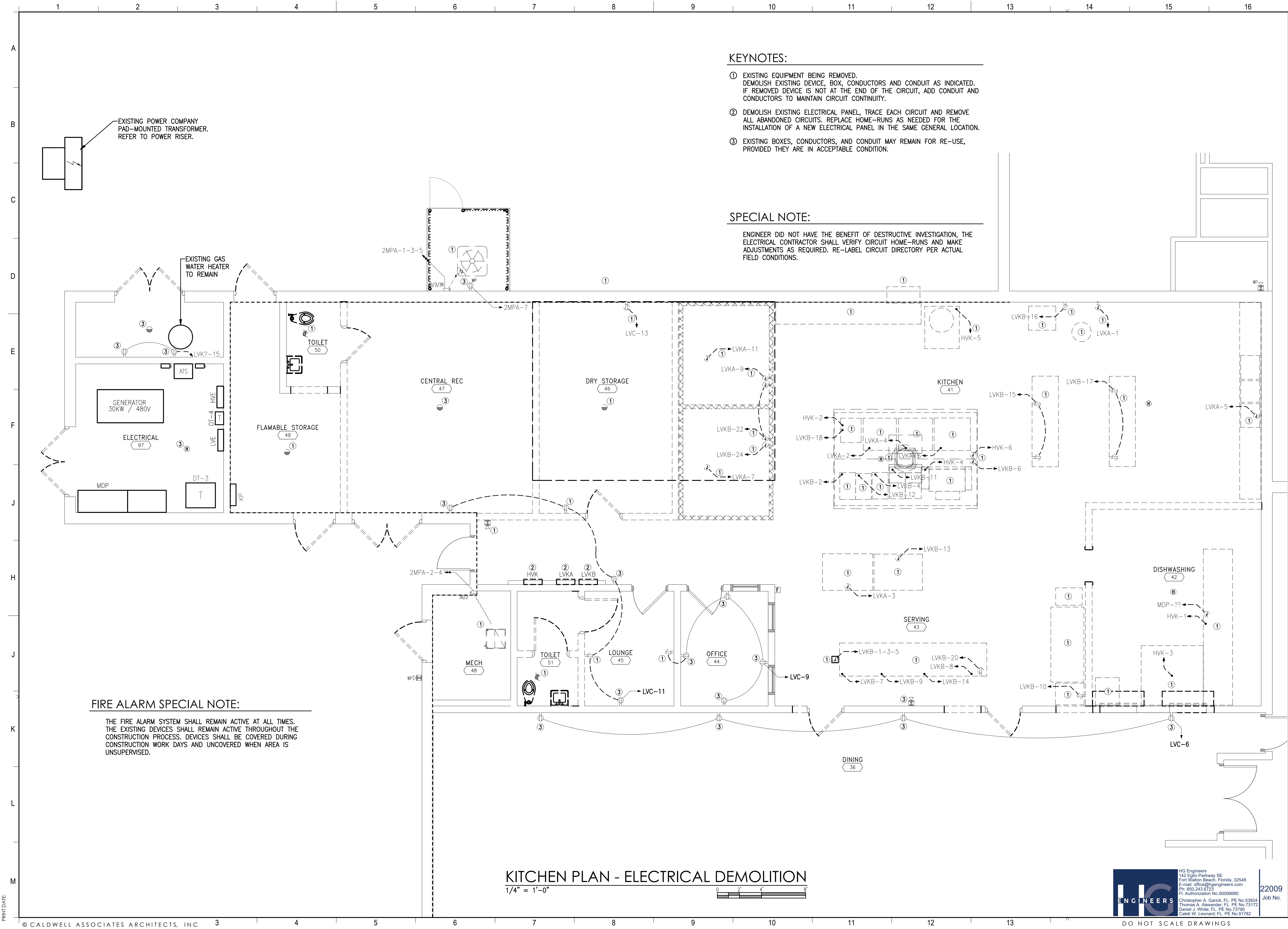
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Job No.

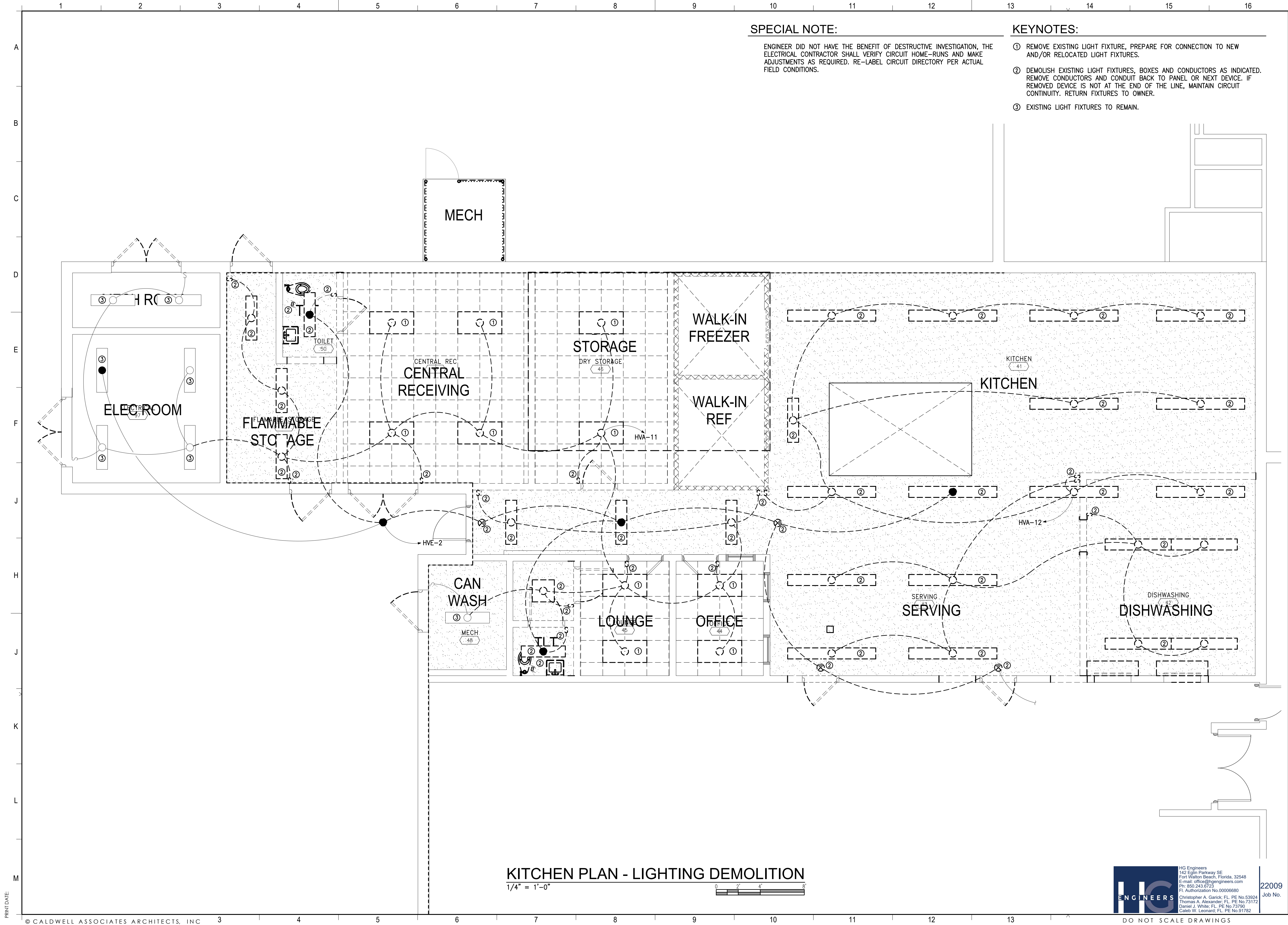
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OVERALL PLAN - REFERENCE

1/8" = 1'-0"







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RENOVATION**



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GULF BREEZE, FLORIDA**

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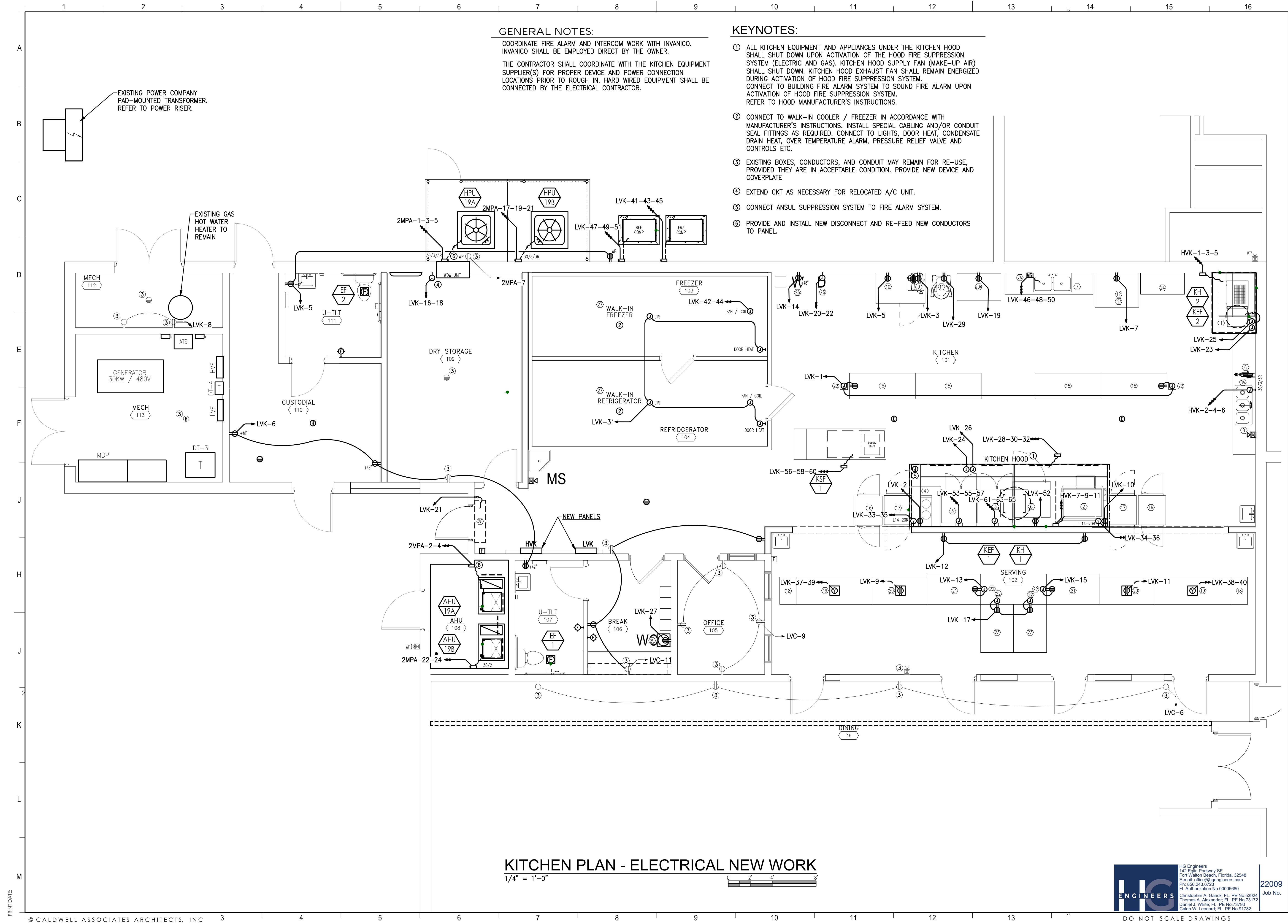
**PROJECT NO. :
SHEET TITLE:**
KITCHEN PLAN -
LIGHTING
DEMOLITION

SHEET NUMBER:
E202
PHASE 3

**HG
ENGINEERS**

HG Engineers
142 Eglon Parkway SE
Fort Walton Beach, Florida, 32548
E-mail: office@hgengineers.com
Ph: 850.243.6723
FL Authorization No. 00006880
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PRINT DATE:

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GENERAL NOTES:

COORDINATE FIRE ALARM AND INTERCOM WORK WITH INVANICO. INVANICO SHALL BE EMPLOYED DIRECT BY THE OWNER.

THE CONTRACTOR SHALL COORDINATE WITH THE KITCHEN EQUIPMENT SUPPLIER(S) FOR PROPER DEVICE AND POWER CONNECTION LOCATIONS PRIOR TO ROUGH IN. HARD WIRED EQUIPMENT SHALL BE CONNECTED BY THE ELECTRICAL CONTRACTOR.

KEYNOTES:

- 1 ALL KITCHEN EQUIPMENT AND APPLIANCES UNDER THE KITCHEN HOOD SHALL SHUT DOWN UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM (ELECTRIC AND GAS). KITCHEN HOOD SUPPLY FAN (MAKE-UP AIR) SHALL SHUT DOWN. KITCHEN HOOD EXHAUST FAN SHALL REMAIN ENERGIZED DURING ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM. CONNECT TO BUILDING FIRE ALARM SYSTEM TO SOUND FIRE ALARM UPON ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM. REFER TO HOOD MANUFACTURER'S INSTRUCTIONS.
- 2 CONNECT TO WALK-IN COOLER / FREEZER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. INSTALL SPECIAL CABLING AND/OR CONDUIT SEAL FITTINGS AS REQUIRED. CONNECT TO LIGHTS, DOOR HEAT, CONDENSATE DRAIN HEAT, OVER TEMPERATURE ALARM, PRESSURE RELIEF VALVE AND CONTROLS ETC.
- 3 EXISTING BOXES, CONDUCTORS, AND CONDUIT MAY REMAIN FOR RE-USE, PROVIDED THEY ARE IN ACCEPTABLE CONDITION. PROVIDE NEW DEVICE AND COVERPLATE
- 4 EXTEND CKT AS NECESSARY FOR RELOCATED A/C UNIT.
- 5 CONNECT ANSUL SUPPRESSION SYSTEM TO FIRE ALARM SYSTEM.
- 6 PROVIDE AND INSTALL NEW DISCONNECT AND RE-FEED NEW CONDUCTORS TO PANEL.

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ENGINEER'S SEAL

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PROJECT NO. :
SHEET TITLE:

KITCHEN PLAN -
ELECTRICAL NEW
WORK

SHEET NUMBER:

E301

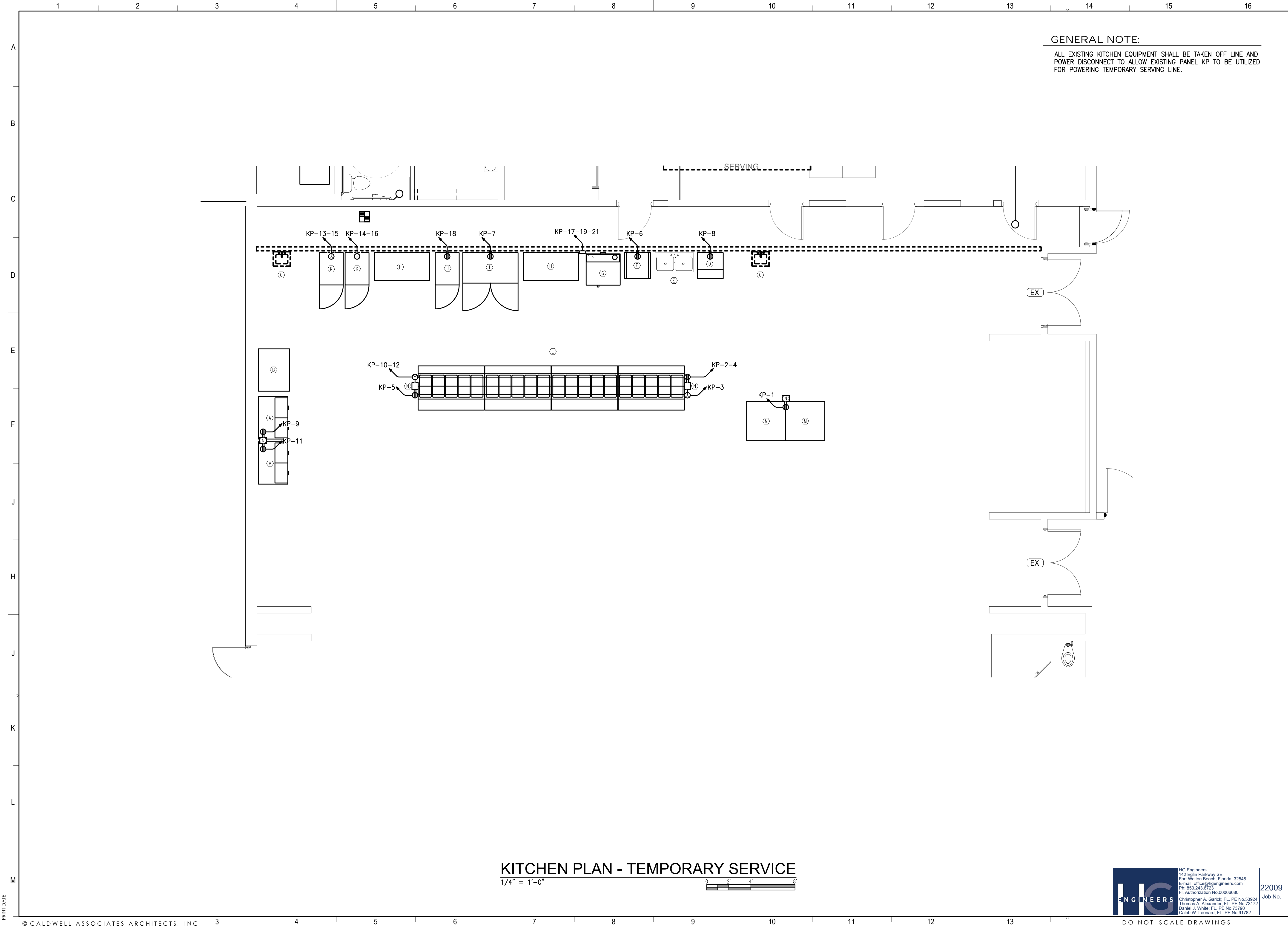
PHASE 3



HG Engineers
142 Eglon Parkway SE
Fort Walton Beach, Florida, 32548
E-mail: office@hgengineers.com
Ph: 850.243.6723
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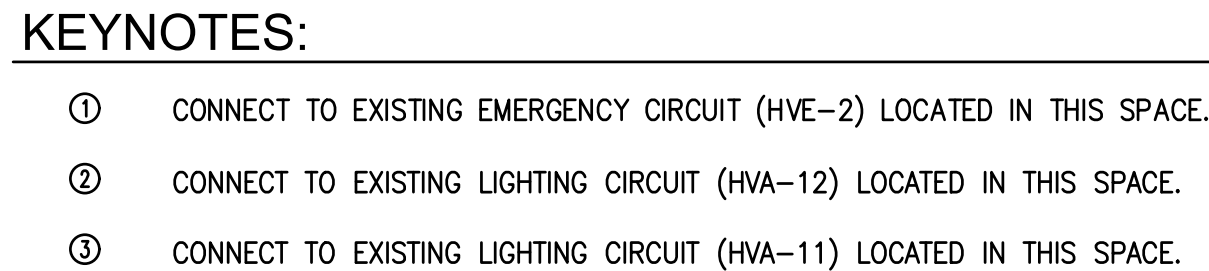
ENGINEER'S SEAL

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PROJECT NO. :
SHEET TITLE:
**KITCHEN PLAN -
TEMPORARY
SERVICE**

SHEET NUMBER:
E302
PHASE 3

Lighting Space and Zones		Sequence of Operations				Low Voltage Switch <small>(Button Labels to be designated by owner during installation)</small>						
Space Type	Room Number	CONTROL SCENARIOS				CONNECT TO NETWORKED ROOM CONTROLLER OR LIGHTING CONTROL PANEL						Remarks
		Manual On	Manual Off	Occupancy Sensor On	Vacancy Sensor Off	SL1 (1-Button)	SL2 (2-Button)	SL3 (3-Button)	SL4 (4-Button)	SL5 (5-Button)	SL6 (6-Button)	
Kitchen	41	X	X				X					
Servicing	43	X	X	X			X					
Office	44	X	X		X		X					
Lounge	45	X	X		X		X					
Dry Storage	47	X	X		X		X					
Custodial	49	X	X		X		X					
Toilet	50	X	X		X		X					
Toilet	51	X	X		X		X					
Hallway	--	X	X	X			X					



HG ENGINEERS
HG Engineers
142 Eglin Parkway SE
Fort Walton Beach, Florida, 32548
E-mail: office@hgengineers.com
Ph: 850.243.6723
Fl. Authorization No. 00006680
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Thomas A. Alexander; FL PE No. 100000000
Daniel J. White; FL PE No. 737390
Caleb W. Leonard; FL PE No. 917

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116 N TARRAGONA STREET, PENSACOLA, FL 32502
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PHASE 2:	30 MAR 2022
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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**

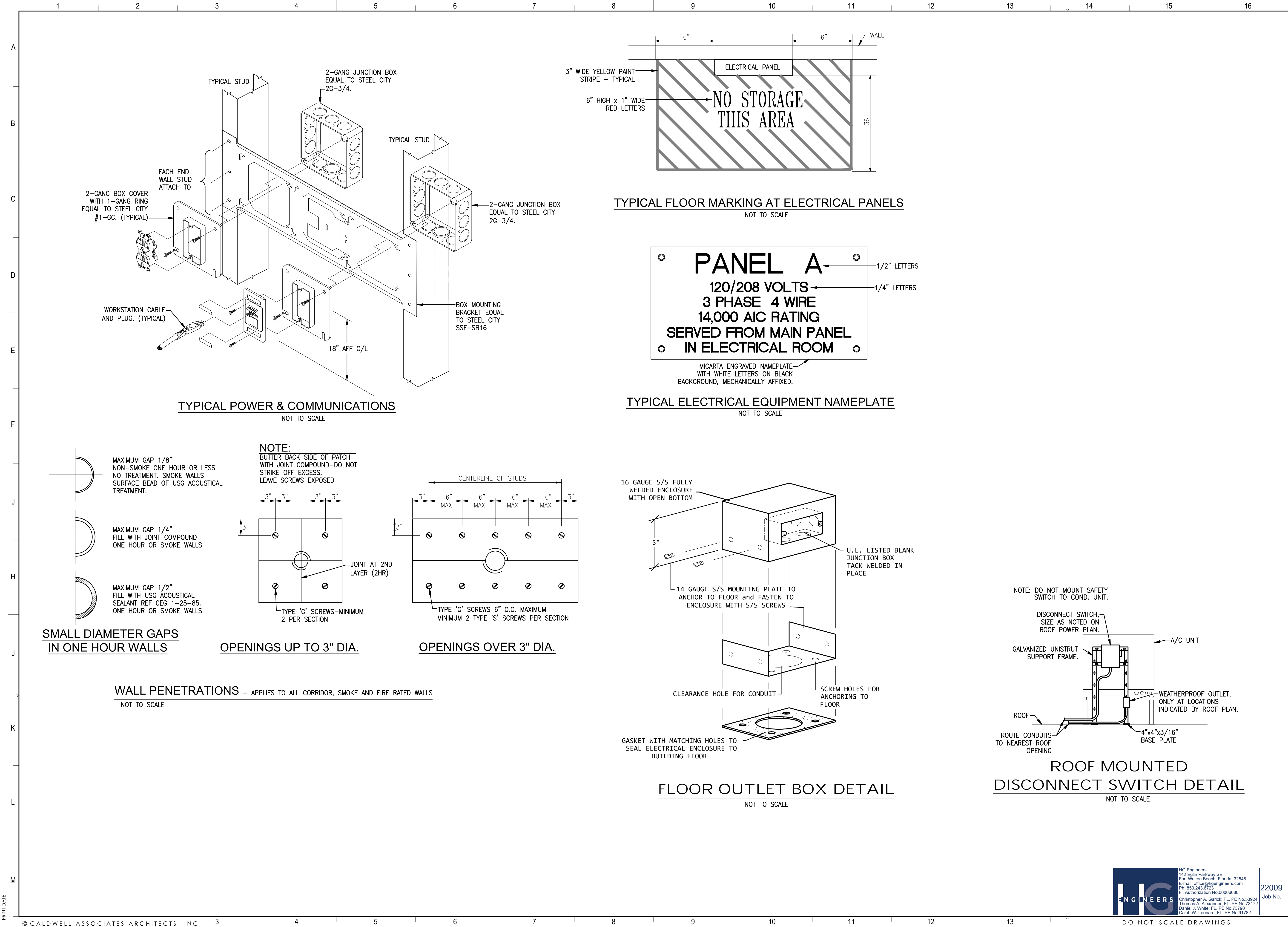
ENGINEER'S SEAL

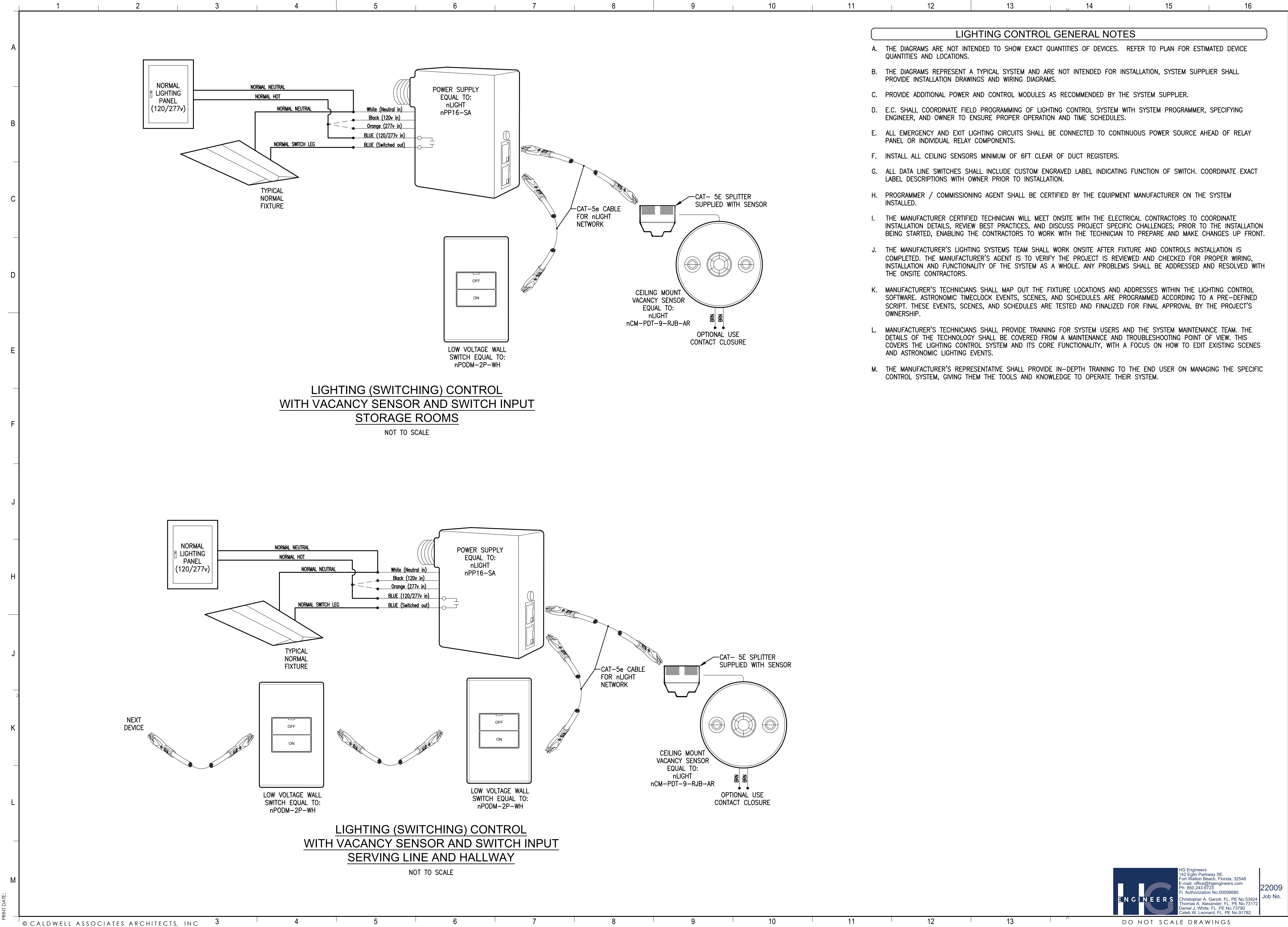
**-PRELIMINARY-
NOT FOR
CONSTRUCTION**

PROJECT NO. :
SHEET TITLE:
KITCHEN PLAN -
LIGHTING NEW
WORK

SHEET NUMBER:
E401

PHASE 3





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

**-PRELIMINARY-
NOT FOR
CONSTRUCTION**

PROJECT NO. :
SHEET TITLE:

LIGHTING
CONTROL DETAILS

SHEET NUMBER:

E502

PHASE 3



HG Engineers
142 Eglin Parkway SE
Fort Walton Beach, Florida, 32548
E-mail: office@hgengineers.com
Ph: 850 243 6723
FL Authorization No. 00006880
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

22009
Job No.

NEW POWER PANEL

[illegible]

PROJECT ISSUES:

PHASE 1:	01 MAR 2022
PHASE 2:	30 MAR 2022
PHASE 3:	03 JUNE 2022

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



SANTA ROSA
COUNTY
DISTRICT
SCHOOLS

**-PRELIMINARY-
NOT FOR
CONSTRUCTION**

ELECTRICAL PANEL SCHEDULES

E701

PHASE 3

A



B

BC

E

F

H

J

L

M

22

(VERIFY ALL EQUIPMENT CIRCUIT REQUIREMENTS WITH MANUFACTURERS SHOP DRAWINGS PRIOR TO ROUGH-IN)

9 | 10 |

(VERIFY ALL EQUIPMENT CIRCUIT REQUIREMENTS WITH MANUFACTURERS SHOP DRAWINGS PRIOR TO ROUGH-IN)

11 | 12

PROJECT ISSUES:

PHASE 2: 30 MAR 2022

PROJECT TEAM:

Caldwell Associates

McCarthy Engineering

Anton Lee Engineering
ELECTRICIAN

AG Engineers

PROJECT:

DRIOLE BEACH

ELEMENTARY

RENOVATION

100



ENGINEER'S SEAL

11

**-PRELIMINARY-
NOT FOR
CONSTRUCTION**

PROJECT NO. :

SHEET TITLE:

EQUIPMENT

SCHEDULES

SHEET NUMBER:

E702

PHASE 3



22009
Job No.