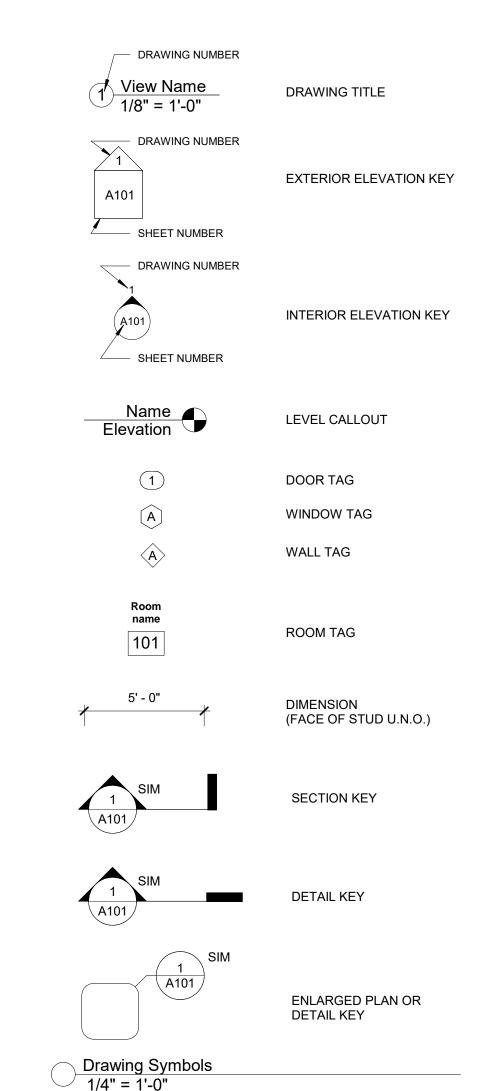
# Cindy's Kitchen

#### ABBREVIATIONS

1R1S	(1) ROD + (1) SHELF	NCSBC	NORTH CAROLINA STATE BUILDING CODE
ACI	ÀMERICAN CONCRETE INSTITUTE	N.I.C.	NOT IN CONTRACT
ACT	ACOUSTICAL CEILING TILE	NO.	NUMBER
AFF	ABOVE FINISH FLOOR	NOM.	NOMINAL
AFG	ABOVE FINISH GRADE	O.C.	ON CENTER
AHU	AIR HANDLING UNIT	O.D.	OVERFLOW DRAIN/OUTSIDE DIAMETER
ALUM.	ALUMINUM	O.H.	OPPOSITE HAND
AM	ANTE MERIDEN	OPNG.	OPENING
ARCH.	ARCHITECTURAL	O/S	OUTSIDE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	OTB	OPEN TO BELOW
BFE	BASE FLOOD ELEVATION	PC	PLUMBING CONTRACTOR
B.O.	BOTTOM OF	PH	PHASE
CJ	CONTROL JOINT	PJ	PANEL JOINT
CAB.	CABINET	PL	POINT LOAD
CLG	CEILING	P-LAM	PLASTIC LAMINATE
CMU	CONCRETE MASONRY UNIT	PME	PLUMBING, MECHANICAL, & ELECTRICAL
CO	CLEANOUT	PP	PUSH PAD
CONC.	CONCRETE	PSF	POUNDS PER SQUARE FOOT
CONT.	CONTINUOUS	PSI	POUNDS PER SQUARE INCH
CPET	COMMON PATH OF EXIT TRAVEL	PSL	PARALLEL STRAND LUMBER
CW	COLD WATER	P.T.	PRESSURE TREATED
DBL	DOUBLE	PNTD	PAINTED
DR.	DOOR	P.W. / PWD	PLYWOOD
DWG.	DRAWING	RC	REINFORCED CONCRETE
DWV	DRAIN/ WASTE/ VENT	RCP	REFLECTED CEILING PLAN
DS	DOWNSPOUT	RD	ROOF DRAIN
DTL.	DETAIL	REINF	REINFORCED OR REINFORCING
EC	ELECTRICAL CONTRACTOR	REQ'D	REQUIRED
EJ.	EXPANSION JOINT	RL	ROOF LEADER
ELECT.	ELECTRICAL	RUB	RUBBER
ELEV.	ELEVATION	SAN	SANITARY
ETC.		SF	
EIU.	ETCETERA		SQUARE FOOT OR SQUARE FEET
E.T.R.	EXISTING TO REMAIN	SIM	SIMILAR
EWC	ELECTRIC WATER COOLER	SP	SOUTHERN PINE
EXIST.	EXISTING	SPF	SPRUCE/ PINE/ FIR
EXT.	EXTERIOR	SS	STAINLESS STEEL
FBGLS.	FIBERGLASS	STOR	STOREFRONT
		STL.	
FCP	FIBER CEMENT PANEL		STEEL
FD	FLOOR DRAIN	TD	TRAVEL DISTANCE
FF	FINISH FLOOR	TME	TO MATCH EXISTING
FEC	FIRE EXTINGUISHER CABINET	T.O.	TOP OF
FJ	FALSE JOINT	T.O.P.	TOP OF PLATE
FLR.	FLOOR	TRD.	TREAD
GC	GENERAL CONTRACTOR	TYP.	TYPICAL
GA.	GAUGE	U.N.O.	UNLESS NOTED OTHERWISE
GALV.	GALVANIZED	V	VOLT/ VOLTAGE
GEN	GENERAL	VCT	VINYL COMPOSITE TILE
GS	GANG STUD	VERT.	VERTICAL
GWB	GYPSUM WALL BOARD	VIF	VERIFY IN FIELD
H/C	HANDICAPPED	W/	WITH
HDWR	HARDWARE	WGL	WIRE GLASS
HM	HOLLOW METAL	WD	WOOD
HORIZ.	HORIZONTAL		
	LIEAT BURAB		





Drawing Index									
Sheet Number	Sheet Name								
E302	Unnamed								
P01	Unnamed								
A001	Cover Sheet								
A002	Appendix B								
A003	Life Safety Plans								
A101	Foundation Plan								
A102	First Floor Plan								
A104	Roof Plan								
A105	Reflected Ceiling Plans								
A106	Equipment Plan								
A201	Elevations								
A301	Building Sections								
A302									
A302 A401	Building Sections Interior Elevations								
A401 A402	Kitchen Flevations								
A403	Kitchen Elevations Wall Sections								
A501									
A502	Wall Sections								
P101	Plumbing Supply First Floor Plan								
P102	Plumbing Waste First Floor Plan								
P103	Plumbing Second Floor Plan								
P201	Plumbing Riser								
P301	Plumbing Schedule								
P302	Plumbing Details								
P303	Plumbing Details & Notes								
M101	Mecahnical First Floor Plan								
M102	Mechanical Second Floor Plan								
M103	Mechanical Roof Plan								
M201	Mecahnical Details, Schedules, & Notes								
M202	Mechanical Details								
M301	Mechanical Hood								
M302	Mechanical Hood								
M303	Mechanical Hood								
M304	Mechanical Hood								
E101	Electrical Lighting First Floor Plan								
E102	Electrical Power First Floor Plan								
E103	Electrical Lighting & Power Second Floor								
E104	Electrical Power RoofPlan								
E201	Electrical Panel Schedules & Notes								
E301	Electrical Light Fixture Schedule & Notes								



cahoon+kasten

Project: Cindy's Kitchen
Project No: 21091

cation: Caratoke Hwy.
Coinjock, NC
c: Cover Sheet

te: **August 25, 2023** 

1/4" = 1'-0"

The designer shall not be responsible for any error, omission, defect or deficiency in the contract documents ("error") prepared by the designer or its consultants which in any way impacts the schedule of the project, results in a lack of coordination among the contract documents, delays the completion of the project or which in any other way causes any damage or loss to the owner, contractor, subcontractors, or other entity involved in the project, unless: (i) designer is promptly notified of such error, in any event within 14 days of the date such error was discovered or could reasonably have been discovered; and (ii) designer is given opportunity at the time of discovery to address such error, and, if appropriate, take such steps as are necessary to correct and resolve it. Failure to comply

with the provisions of this paragraph shall constitute a

waiver of any claim for damages, or a right to offset

against designer by owner, contractor or others and

otherwise due designer for services provided on the

shall in no event cause or allow a reduction in the fees

T220

Revisions:

| No. | Description | Date |

Designed: Designer
Drawn: Author
Reviewed: Checker

#### GENERAL CONSTRUCTION NOTES

INSUL.

MAX.

MEJ

MFR.

MIN.

MECH.

**HEAT PUMP** 

INSULATION

**ICEMAKER** 

INTERIOR

KILOWATT LOCATIONS

MAXIMUM

MECHANICAL

MINIMUM

METAL

MANUFACTURER

METAL THRESHOLD

LAMINATED STRAND LUMBER

MASONRY EXPANSION JOINT

MARBLE THRESHOLD
MECHANICAL CONTRACTOR
MASONRY CONTROL JOINT

- 1. THESE DRAWINGS CONTAIN THE MINIMUM INFORMATION NECESSARY FOR ANY REPUTABLE CONTRACTOR TO UNDERTAKE CONSTRUCTION. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE COMPLETION OF THE PROJECT. HE SHALL COMPLETE THE WORK IN THE BEST AND MOST WORKMANLIKE MANNER, AND DO EVERYTHING PROPERLY INCIDENTAL THERETO, AS SHOWN ON THE PLANS, REQUIRED BY ALL APPLICABLE CODES, AS RECOMMENDED BY PRODUCT MANUFACTURERS, AND IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- ALL WORK SHALL BE IN COMPLIANCE WITH THE CURRENT NORTH CAROLINA BUILDING CODE
   THE CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE BEGINNING WORK. DIMENSIONS FOR NEW CONSTRUCTION SHOULD BE HELD TO THE MAXIMUM EXTENT POSSIBLE.
   PREMISES OF THE ENTIRE JOB SITE WILL BE MAINTAINED IN A NEAT AND ORDERLY CONDITION DURING THE ENTIRE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL CONFORM TO ALL
- REQUIREMENTS OF OSHA.

  5. PRIOR TO THE FINAL PAYMENT THE CONTRACTOR SHALL GIVE TO THE OWNER A LABELED BINDER CONTAINING A LIST OF ALL SUPPLIERS AND SUBCONTRACTORS WITH ADDRESSES AND PHONE NUMBERS, GUARANTEES, AND OPERATION AND MAINTENANCE MANUALS OF ALL EQUIPMENT. THE CONTRACTOR SHALL WARRANT THE WORK FOR A PERIOD OF ONE YEAR.
- 6. IF A PORTION OF THE WORK HAS BEEN COVERED WHICH THE ARCHITECT HAS NOT SPECIFICALLY REQUESTED TO OBSERVE PRIOR TO ITS BEING COVERED, THE ARCHITECT MAY REQUEST TO SEE SUCH WORK AND IT SHALL BE UNCOVERED BY THE CONTRACTOR. IF SUCH WORK IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, COSTS OF UNCOVERING AND REPLACEMENT SHALL, BY APPROPRIATE CHANGE ORDER, BE CHARGED TO THE ARCHITECT. IF SUCH WORK IS NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PAY SUCH COSTS UNLESS THE CONDITION WAS CAUSED BY THE OWNER OR A SEPARATE CONTRACTOR IN WHICH EVENT THE OWNER SHALL BE RESPONSIBLE FOR PAYMENT OF SUCH COSTS. THE CONTRACTOR SHALL PROMPTLY CORRECT THE WORK REJECTED BY THE ARCHITECT OR FAILING TO CONFORM TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- 7. ALL CONCRETE SHALL BE 3000 PSI MINIMUM, AND ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE ACI AND ASTM.
- ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE ACI AND ASTM.

  8. LIGHT GAUGE STEEL FRAMING SHALL BE IN ACCORDANCE WITH THE LIGHT-GAUGE STEEL FRAMING CONSTRUCTION MANUAL AND AS PER ASTM A446, A570, OR A611.
- 9. REINFORCING BARS FOR CONCRETE WORK SHALL BE GRADE 60, DEFORMED AS PER ASTM A615.

  10. WELDED WIRE FABRIC SHALL BE AS PER ASTM A185 OF SIZES AND TYPE AS SHOWN ON DRAWINGS.

  11. METAL TIE DOWN STRAPS, ANCHORS AND CLIPS SHALL BE AS PER "SIMPSON STRONGTIE" OR
- 12. WOOD FRAMING AND BLOCKING SHALL BE #2 SPF OF THE SIZES INDICATED AND SHALL HAVE A MIN. Fb VALUE OF 1200 PSI.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ROOFING IN ACCORDANCE WITH NRCA REQUIREMENTS AND THE ROOFING PRODUCT MANUFACTURER'S RECOMMENDATIONS INCLUDING WATERPROOFING OF ALL PENETRATIONS AND SUPPORTS FOR MECHANICAL EQUIPMENT, AND AS SHOWN ON DRAWINGS.
  14. THE CONTRACTOR SHALL DETERMINE BEFORE BEGINNING WORK WHETHER AN ELEVATION
- CERTIFICATE WILL BE REQUIRED AND SHALL OBTAIN THE CERTIFICATE AT THE EARLIEST OPPORTUNITY. ONE COPY MUST BE PROVIDED FOR THE OWNER.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSULATION. INSULATION SHALL BE INSTALLED IN FULL CONTACT WITH SHEATHING AND GWB OF WALL CAVITY. FLOOR AND CEILING INSULATION SHALL BE IN FULL CONTACT WITH GWB. INSULATION SHALL BE INSTALLED TO MANUFACTURER'S SPECIFICATIONS, WITH NO SUBSTANTIAL GAPS, VOIDS, COMPRESSION OR WIND INTRUSION.
- INTRUSION.

  16. SOIL SHALL BE FREE OF ORGANIC MATERIAL AND CONSOLIDATED TO BE CAPABLE OF 1,500 PSF
- 17. CAULK ALL GAPS IN FRAMING AND SHEATHING AT FRAMING ROUGH-IN. CAULK GAPS IN GWB NOT SEALED BY TAPE AND JOINT COMPOUND. AIR TIGHTNESS SHALL BE LESS THAT OR EQUAL TO .30 CFM50 PER SQUARE FOOT OF CONDITIONED ENVELOPE AREA.

#### 2018 APPENDIX B

Name of Project: Cindy's Kitchen

Owner/Authorized Agent: Cyntha Spain

Caratoke Hwy.

Coinjock, NC

Address:

#### BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) (Reproduce the following data on the building plans sheet 1 or 2

Phone #: Owned By:		City/County		Private			State
Code Enforcement Ju	risdiction: C	City	\_X	County	y Currituck		State
CONTACT: Mark DESIGNER	Kasten, AIA FIRM	<u> </u>	NAME	LIC#	TELEPHONE #	E-M	ΔΠ
Architectural	Cahoon + Kasten		Mark Kasten	7220			bxarchitects.com
Civil	Michael W. Robins	on I	Mike Robinson	18994	252.255.8026	mrobinso	on@obxengineering.com
Electrical Fire Alarm							
Plumbing							
Mechanical							
Sprinkler-Standpipe Structural							
Retaining Walls >5'	ı						
Other							
2018 NC BUILDING	G CODE:	X New I		Additio	_	Time !	Interior Completion
	*Contact th				Construction*	scedur.	es and requirements.
2018 NC EXISTING		_	-	_	Alteration Le		Historic Property
			Repa		Alteration Le		Change of Use
CONSTRUCTED:	(date)			oter 14 NT OCC	Alteration Le		
RENOVATED:	(date)		PROPOS	SED OC	CUPANCY(S) (C		
RISK CATEGORY	,	Curr	ent:	Prop	oosed:		
BASIC BUILDING I Construction Type	DATA   I-A	Пп	I-A	III-A	☐ IV		□ V-A
(check all that apply)	☐ I-B	_	I-B	] III-B	1		x V-B
-	No Partial		NFPA 13	NFPA		PA 13E	)
Standpines: X Primary Fire Distric	] No Class [ et: x No [	☐ I		] Wet <b>Hazard</b>		Пу	es
Special Inspections I	_ =	= —	es If special:	inspectio	ons are required, c	ontact	the local inspection
			jurisdictio	n for ad	ditional procedure	s and 1	requirements.
EL OOD			ilding Area Tal		NEW (CO ET	.	CLID TOTAL
FLOOR 4th Floor		EXI	STING (SQ FT)		NEW (SQ FT)	)	SUB-TOTAL
3rd Floor							
2nd Floor Mezzanine							
1st Floor					4600 SF	=	4600 SF
Basement					4000 00	-	4000.05
Total					4600 SF		4600 SF
Separa  Actual	H-1 Do  I-1 [ I-3 [ I-3 [ I-3 I I I I I I I I I I I I I I I I I I	etonate H I-2 I-4 R-2 R oderate g Garage  tions): Le Sections): X Yes S See below for the sum of the for each use sl	Separation:	Hr. or each sto floor area of Occupated of O		3 Re	
1 Restaurant		4600 SF	60	000 SF			6000 SF
D	ilding Area	4600 SE	Mari	imum Al	lowable Duildie	Area	12000 SE
l Frontage area increa	uses from Section 5	06.3 are comp	uted thus:		·	L	
<sup>1</sup> Frontage area increa a. Perimeter which b. Total Building c. Ratio (F/P) = d. W = Minimum e. Percent of fron <sup>2</sup> Unlimited area apple <sup>3</sup> Maximum Building <sup>4</sup> The maximum area <sup>5</sup> Frontage increase is	Perimeter  [F/I]  width of public watage increase If = icable under condit Area = total number of open parking gas based on the unspiral street in the condition of th	ay or open spans  ay or open spans  by ay =  100 [ F/P - 0. ions of Sections of Sect	uted thus: ace having 20 fe (P)  (W)  25] x W/30 = n 507. the building x I mply with Table value in Table 5	o (maxin 406.5.4.506.2.	(%) num 3 stories)(506	(F	12000 SF  The state of the stat
Building Height in Building Height in S		1)3	40' 1		25 2		
1. Provide code referenc 2. The maximum height 3. Then maximum height	e if the "Shown on Plar of air traffic control to	ns" quantity is no wers must compl	t based on Table 50 y with Table 412.3	.1.			
			WALL OPENIN		CULATIONS		
WALL	FIRE SEI DISTAN	PARATION ICE FROM LINES (FEET	DEGREE OF PROTE	OPENI CTION			ACTUAL SHOWN ON PLANS (%)

		]	FIRE P	ROTECTION	REQUIREN	MENTS		
BUILDING	ELEMENT	FIRE	F	RATING	DETAIL#	DESIGN#	SHEET#	SHEET#
		SEPARATION	REQ'D	PROVIDED	AND	FOR	FOR	FOR
		DISTANCE		(W/ *	SHEET#	RATED	RATED	RATED
		(FEET)		REDUCTION)		ASSEMBLY	PENETRATION	JOINTS
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_			"					
girders, & tru		_						
Bearing wall	S							
Exterior								
North			1	1	3/A102			
East			1	1	3/A102			
West			1	1	3/A102			
South			1	1	3/A102			
Interior			0					
Nonbearing v	walls and							
partitions								
Exterior w	rolls							
	4115		4	4	0/4400			
North			1	1	3/A102			
East			1	1	3/A102			
West			1	1	3/A102			
South		<u> </u>	1	1	3/A102			
Interior wa	alls and partitions		0					
Floor constru	ıction	•						
ncluding sup	porting		0					
peams and jo	-							
Floor Ceiling			0					
	porting Floors		0					
	action, including		0					
	eams and joists		-					
Roof Ceiling	-		0					
-	porting Roof		0					
Shafts Enclo								
Shafts Enclo	sures - Other							
Corridor Sep	aration							
Occupancy/	Fire Barrier Separ	ration						
Party/Fire W	all Separation							
Smoke Barri	er Separation							
Smoke Partit								
Tenant/Dwel								
Sleeping Uni	-							
	se Separation							
	on number permit	tting raduation						
	ction Systems:	X X		X Yes X Yes Yes Yes Yes	Partial _			
arbon Mor	noxide Detection	on: X	No	Yes				
	100×××=		ne.					
IFE SAFE	TTY PLAN RE	EQUIREMEN'	ľS					
ife Safety l	Plan Sheet #:							
ne salety i	ian sheet ii.							
Fire a	nd/or smoke ra	ated wall location	ons (Ch	apter 7)				
Assur	ned and real pr	roperty line loca	ations (i	f not on the sit	e plan)			
_	-	ng area with res				y lines (705.8)		
	_	_	_			(Table 1004.1.2	)	
Осен	pant loads for e		,	1		· · · · · · · · · · · · · · · · · · ·	-	
	-	stances (1017)						
Come		vel distances (1	006 2 1	& 1006 3 201	))			
	end lengths (1	*	υυυ.∠.1	x 1000.3.2(1	"			
_	•	/						
_		r each exit door						0.5.5
_				ty each exit do	or can accom	modate based on	egress width (10	05.3)
_	•	d for each exit						
		_	_	e fire rated floo	or/ceiling and/	or roof structure	is provided	
C	irposes of occu	ipancy separati	on					
for pu	ion of doors w	rith panic hardw	are (10	10.1.10)				
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5' ACCESS | 132" ACCESS | 8' ACCESS | PROVIDED

MALE FEMALE UNISEX /TUBS REGULAR ACCESSIBLE

AISLE AISLE

**AISLE** 

WATERCLOSETS | URINALS | LAVATORIES | SHOWERS | DRINKING FOUNTAINS |

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

SPECIAL APPROVALS

 REQ'D
 1
 1
 0
 0
 1
 1
 0
 0

**Special approval:** (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHA, etc., describe below)

TOTAL

MALE FEMALE UNISEX

SPACE NEW 1 1 0 0 1 1 0

ENERGY REQUIREMENTS:  The following data shall be considered.	idered minimum a	nd any special attri	ibute required to meet the energy code shall also be	MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT				
provided. Each Designer shall fu	rnish the required	portions of the pro	oject information for the plan data sheet. If performance	Thermal Zone				
			vs annual energy cost for the proposed design.	winter dry bulb:				
Existing building envelope com	plies with code:	[ (If checked the	ne remainder of this section is not applicable.)	summer dry bulb:				
<b>Exempt Building:</b>		Provide code	or statutory reference:	Interior design conditions				
Climate Zone: X 3A	4A	5A		winter dry bulb:  summer dry bulb:				
Method of Compliance:				relative humidity:				
Energy Code	Performan	ce 5	Prescriptive	iciative numidity.				
ASHRAE 90.1	Performan		Prescriptive	Building heating load:				
Other		ce (specify source)	— ·	Building cooling load:				
THERMAL ENVELOPE (Pres	<del></del>	,		winter dry bulb: summer dry bulb: relative humidity:  Building heating load:  Building cooling load:  Mechanical Spacing Conditioning System Unitary description of unit:				
•	•	,		Unitary				
Roof/ceiling Assembly (eac	h assembly)			description of unit:				
Description of assembly:				heating efficiency:				
U-Value of total assembly	:			cooling efficiency:				
R-Value of insulation:		R38		size category of unit:				
Skylights in each assembly	y:			Boiler				
U-Value of skylights:				Size category. If oversized, state reason.:				
total s.f. of skylights in each	ch assembly:			Chiller				
Exterior Walls (each assem	bly)			Size category. If oversized, state reason.:				
Description of assembly:				Tiet cominment officiencies.				
U-Value of total assembly	:			List equipment efficiencies:				
R-Value of insulation:		R19		ELECTRICAL SUMMARY				
Openings (windows or do	ors with glazing)			ELECTRICAL SYSTEM AND EQUIPMENT				
U-Value of assembly:								
Solar heat gain coefficient	cient:			Method of Compliance:				
Projection factor:				Energy Code: Prescriptive Performance				
Door R-Values:				ASHRAE 90.1: Prescriptive Performance				
Walls below grade (each as	sembly)			Lighting Schedule (each fixture type)				
Description of assembly:	• /			lamp type required in fixture				
U-Value of total assembly	:			number of lamps in fixture				
R-Value of insulation:				number of lamps in fixture ballast type used in the fixture number of ballasts in fixture total wattage per fixture  total interior wattage specified vs. allowed (whole)				
		11.		number of ballasts in fixture				
Floors over unconditioned	space (each assen	nbly)		total wattage per fixture				
Description of assembly:				total interior wattage specified vs. anowed (whole				
U-Value of total assembly	:			total exterior wattage specified vs. allowed				
R-Value of insulation:				Additional Efficiency Package Options				
Floors slab on grade				(When using the 2018 NCECC; not required * .AE 90.1)				
Description of assembly:				C406.2 More Efficient HVAC F				
U-Value of total assembly	:			C406.3 Reduced Lighting Pr				
R-Value of insulation:				C406.4 Enhanced Digital Controls				
Horizontal/vertical require	ement:			C406.5 On-Site Renewable Lorgy				
Slab heated:				C406.6 Dedicated Outdoor Air System				
				C406.7 Reduced Energy Use in Service Water Heating				
		STRUCTURAL D	DESIGN					
DESIGN LOADS								
Importance Factors:	Wind $(I_W)$	_1						
	Snow $(I_s)$	1						

MECHANICAL SUMMARY

ENERGY SUMMARY

**ENERGY REQUIREMENTS:** 

> Roof Mezzanine

Floor

\_\_\_\_\_ 20\_\_ psf

N/A psf 100/50 psf

\_\_\_\_10\_\_psf

\_.076\_\_\_\_%g S<sub>1</sub>

Inverted Pendulum

\_\_\_1500\_ psf

 $\square$  A  $\square$  B  $\square$  C  $\square$  D  $\square$  E

X Presumptive

Dual w/Intermediate R/C or Special Steel

X Yes No

Wind X

X Equivalent Lateral Force

Dual w/Special Moment Frame

Historical Data

Dynamic

Basic Wind Speed \_\_\_\_135\_ mph (ASCE-7)

Exposure Category \_\_\_\_\_C

Simplified

Seismic  $(I_E)$ 

Data Source: Field Test

Building Frame

Moment Frame

X Bearing wall

Architectural, Mechanical, Components anchored?

LATERAL DESIGN CONTROL: Earthquake

Field Test (provide copy of test report)

**Ground Snow Load:** 

SEISMIC DESIGN CATEGORY:

**Analysis Procedure:** 

**SOIL BEARING CAPACITIES:** 

Presumptive Bearing capacity

Pile size, type, and capacity

Provide the following Seismic Design Parameters:

Occupancy Category (Table 1604.5)

Basic structural system (check one)

**Spectral Response Acceleration** 

Site Classification (ASCE-7)

Live Loads:

CONTRA			
	Pre		viet NG, II
OUTE	CONTI	• NORT	NG, II H CAROL

118 West Woodhill Drive

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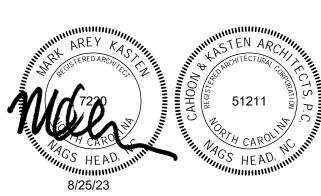
Coinjock, NC Appendix B August 25, 2023 Scale:

Location: Caratoke Hwy.

Project No: **21091** 

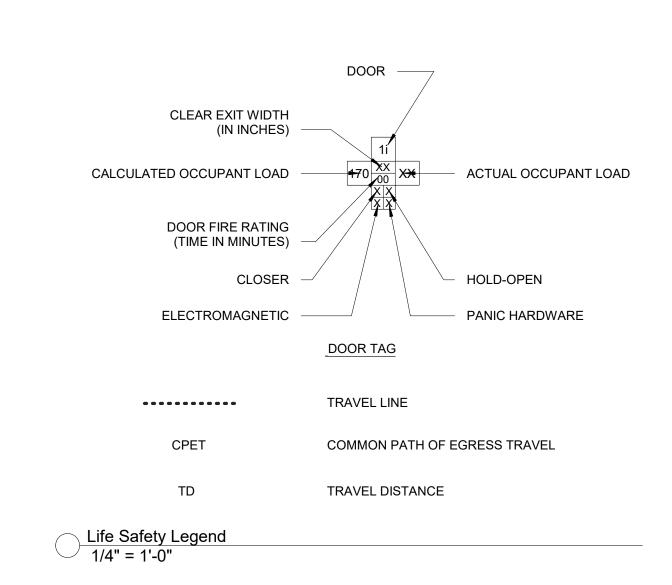
Cindy's Kitchen

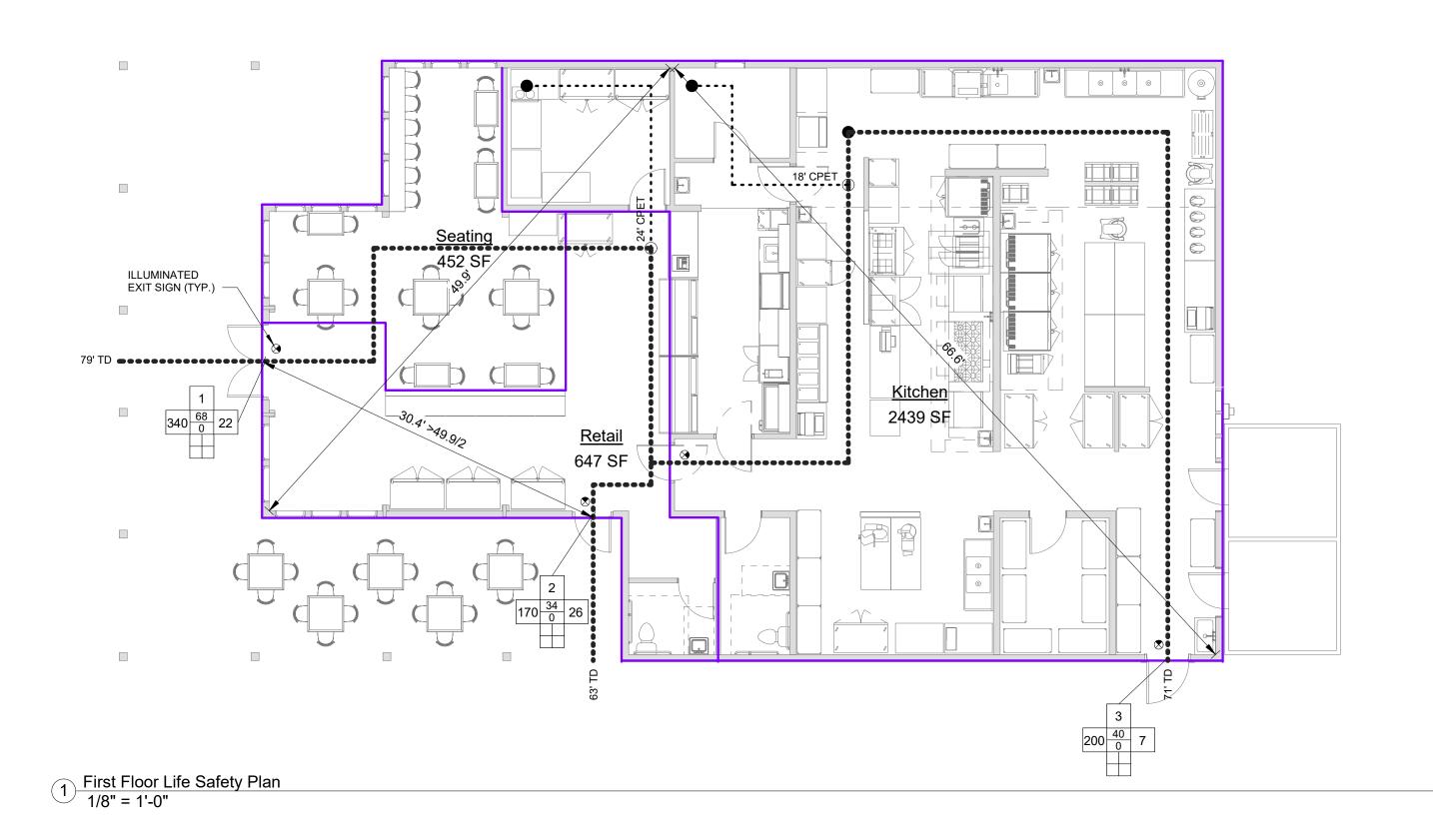
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	25/23	William HEAD HEAD			
Revision	ıs:				
No.	Description		Date		

Reviewed: Checke





Occupant Schedule Occupancy Area Per S.F. Type | Occupant | Occupants Area Name Occupancy 452 SF Assembly Unconcentrated (tables and chairs) Net Mercantile 60 SF Kitchen 2439 SF 200 SF Kitchens, Commercial 13

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Project: Cindy's Kitchen

Project No: **21091** 

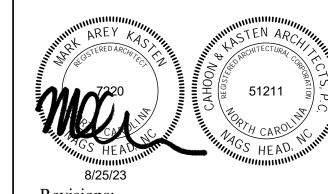
Location: Caratoke Hwy.

Coinjock, NC Life Safety Plans

August 25, 2023

As indicated

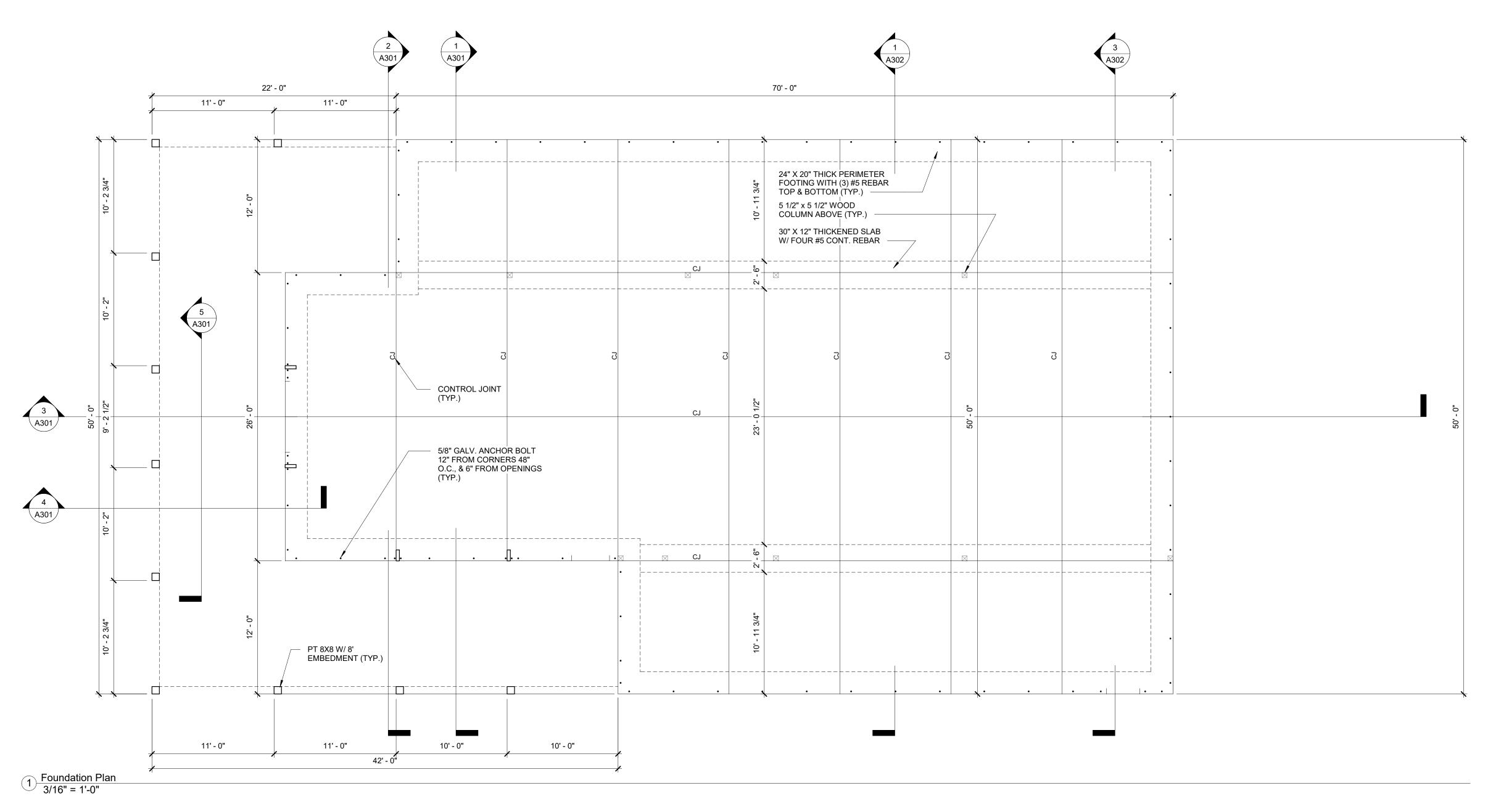
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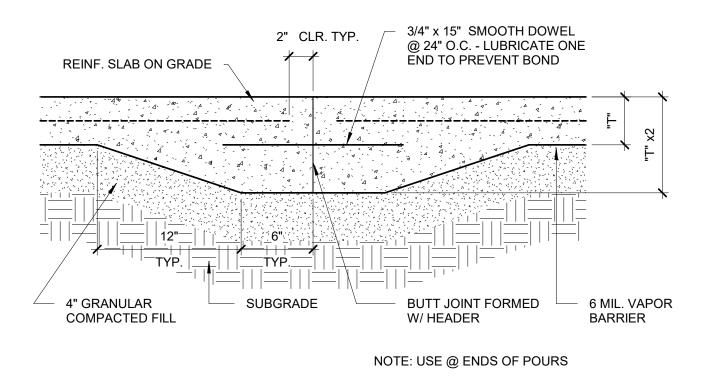


**Revisions:** 

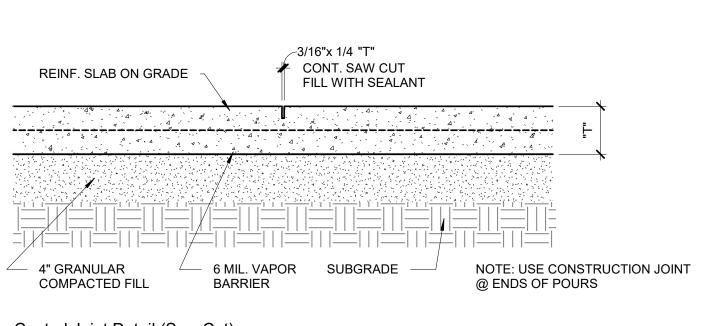
Description Date

Reviewed: Checker





4 Construction Joint Detail (End Pour)
1 1/2" = 1'-0"



5 Control Joint Detail (Saw Cut)
1 1/2" = 1'-0"

CONCRETE LAP REBAR SPLICE SCHEDULE									
BAR	LAP LEN	NGTH (in.)							
SIZE	fc = 3000 psi	f'c = 4000 psi							
#4	29	25							
#5	36	31							
#6	43	37							
#7	63	54							
#8	72	61							
#9	80	69							
#10	89	76							

3 Concrete Rebar Lap Splice Schedule
1 1/2" = 1'-0"

CONCRETE MATERIALS SCHEDULE										
LOCATION	MIN. COMPRESSIVE STRENGTH (AT 28 DAYS)	COMMENTS								
FOUNDATIONS	4000 PSI	-								
FLOOR SLAB, WALLS, EQUIPMENT PADS	4000 PSI	-								
CONCRETE FOR MASONRY CORES, BOND BEAMS	ASTM C476 GROUT	-								
SIDEWALKS, BOLLARD FILL, MISC. CONCRETE	3000 PSI	-								

2 Concrete Materials Schedule
1 1/2" = 1'-0"



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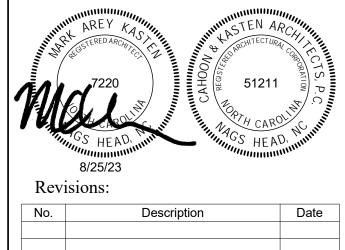
Location: Caratoke Hwy. Coinjock, NC

Foundation Plan

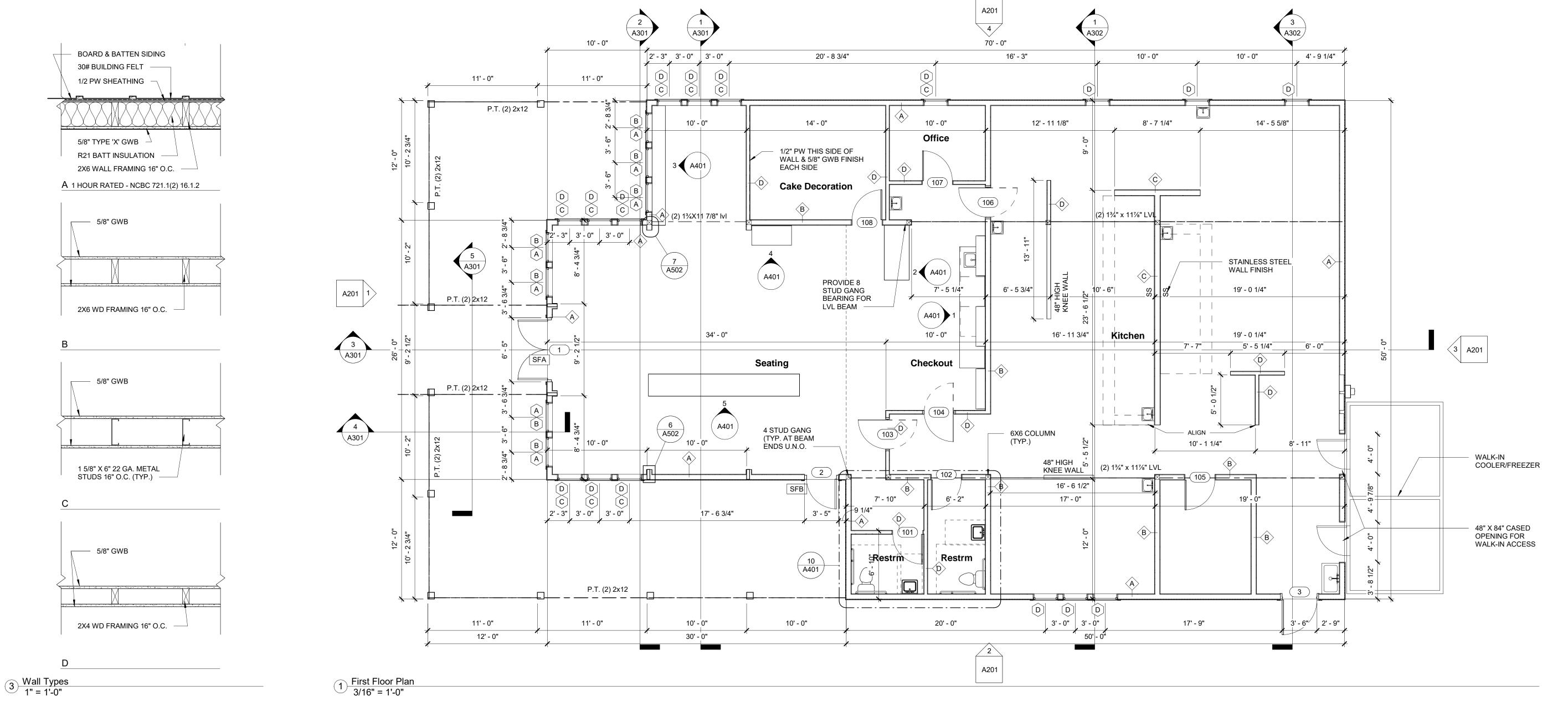
ate: **August 25, 2023** 

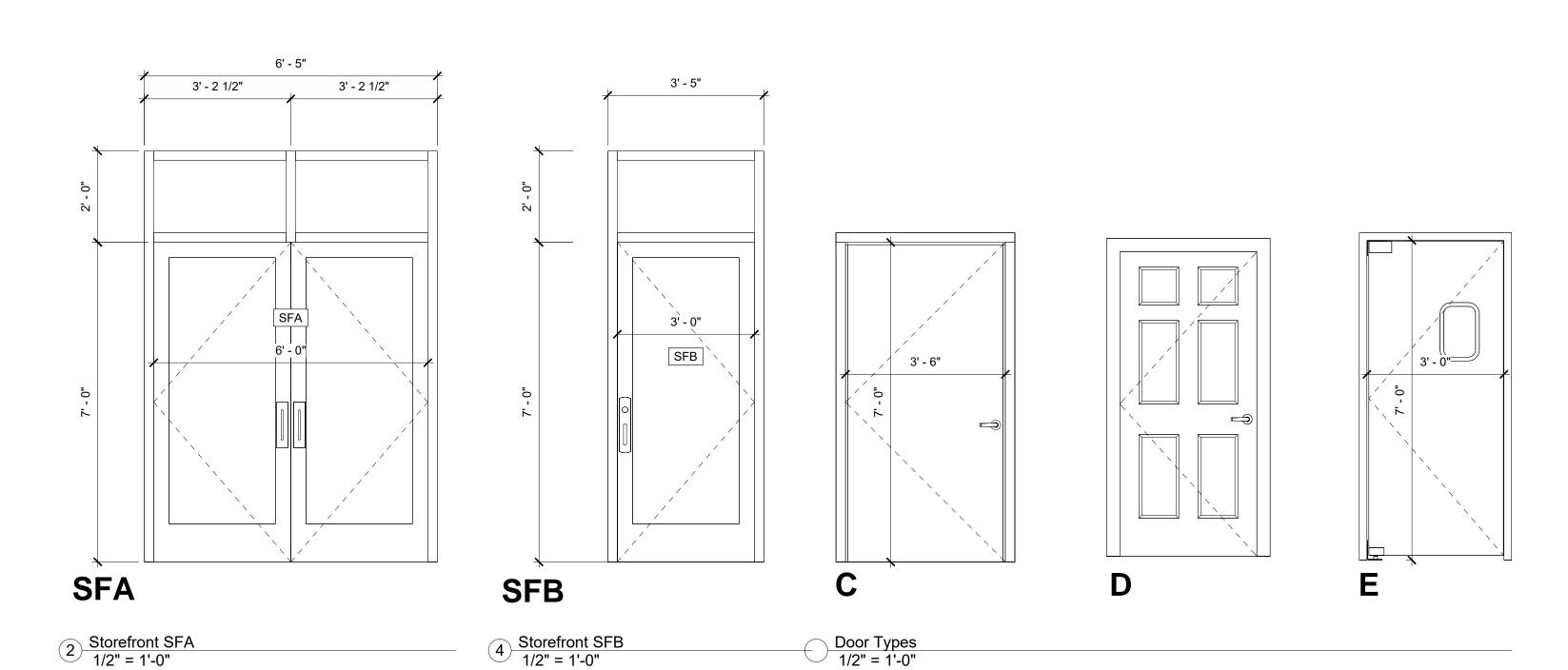
le: **As indicated** 

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No. Description Date





	Door Schedule Comm											
Door					Door					Frame		
Number	Туре	Function	Description	Width	Height	Thickness	Door Material	Finish	Туре	Material	Finish	Comments
1	SFA	Exterior	Double Swing Storefront	6' - 0"	7' - 0"	0' - 1 3/4"	Alum/Glass	Anodized	Storefront	Alum	Anodized	
2	SFB	Interior	Single Swing Storfront	3' - 0"	7' - 0"	0' - 1 3/4"	Alum/Glass	Anodized	Storefront	Alum	Anodized	
3	С	Exterior	Single Swing Flush	3' - 6"	7' - 0"	0' - 1 3/4"	Galv. Hollow Metal	Painted	Hollow Metal	Galv. Stl	Painted	
101	D	Interior	Single Swing Six Panel	3' - 0"	6' - 8"	0' - 1 3/8"	Wood	Painted		Wood	Painted	
102	D	Interior	Single Swing Six Panel	3' - 0"	6' - 8"	0' - 1 3/8"	Wood	Painted		Wood	Painted	
103	Е	Interior	Single Bi-Swing Kitchen	3' - 0"	7' - 0"	0' - 0 161/256"	Stainless Steel					
104	E	Interior	Single Bi-Swing Kitchen	3' - 0"	7' - 0"	0' - 0 161/256"	Stainless Steel					
105	D	Interior	Single Swing Six Panel	3' - 0"	6' - 8"	0' - 1 3/8"	Wood	Painted		Wood	Painted	
106	E	Interior	Single Bi-Swing Kitchen	3' - 0"	7' - 0"	0' - 0 161/256"	Stainless Steel					
107	D	Interior	Single Swing Six Panel	3' - 0"	6' - 8"	0' - 1 3/8"	Wood	Painted		Wood	Painted	
108	D	Interior	Single Swing Six Panel	3' - 0"	6' - 8"	0' - 1 3/8"	Wood	Painted		Wood	Painted	

Window Schedule											
Type Mark	Description	Туре	Manufacturer	Thermal Resistance (R)	Heat Transfer Coefficient (U)	Solar Heat Gain Coefficient	Visual Light Transmitta nce	Head Height	Comments		
Α	Fixed Vinyl	36" x 60"	TBD	1.5394 (h·ft²·°F)/BTU	0.6496 BTU/(h·ft²·°F)	0.78	0.9	7' - 0"			
В	Fixed Vinyl	36" x 18"	TBD	1.5394 (h·ft²·°F)/BTU	0.6496 BTU/(h·ft²·°F)	0.78	0.9	9' - 0"			
С	Fixed Vinyl	30" x 60"	TBD	1.5394 (h·ft²·°F)/BTU	0.6496 BTU/(h·ft²·°F)	0.78	0.9	7' - 0"			
D	Fixed Vinyl	30" x 18"	TBD	1.5394 (h·ft²·°F)/BTU	0.6496 BTU/(h·ft²·°F)	0.78	0.9	9' - 0"			
Е	Fixed Vinyl	30" x 30"	TBD	2.8571 (h·ft²·°F)/BTU	0.3500 BTU/(h·ft²·°F)	0.26	0.42	5' - 0"			



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Project: Cindy's Kitchen

Project No: 21091

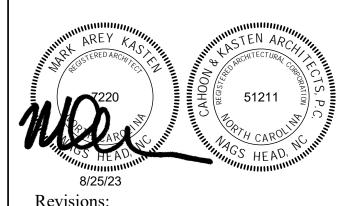
Location: Caratoke Hwy. Coinjock, NC

Title: First Floor Plan

Date: August 25, 2023

Scale: As indicated

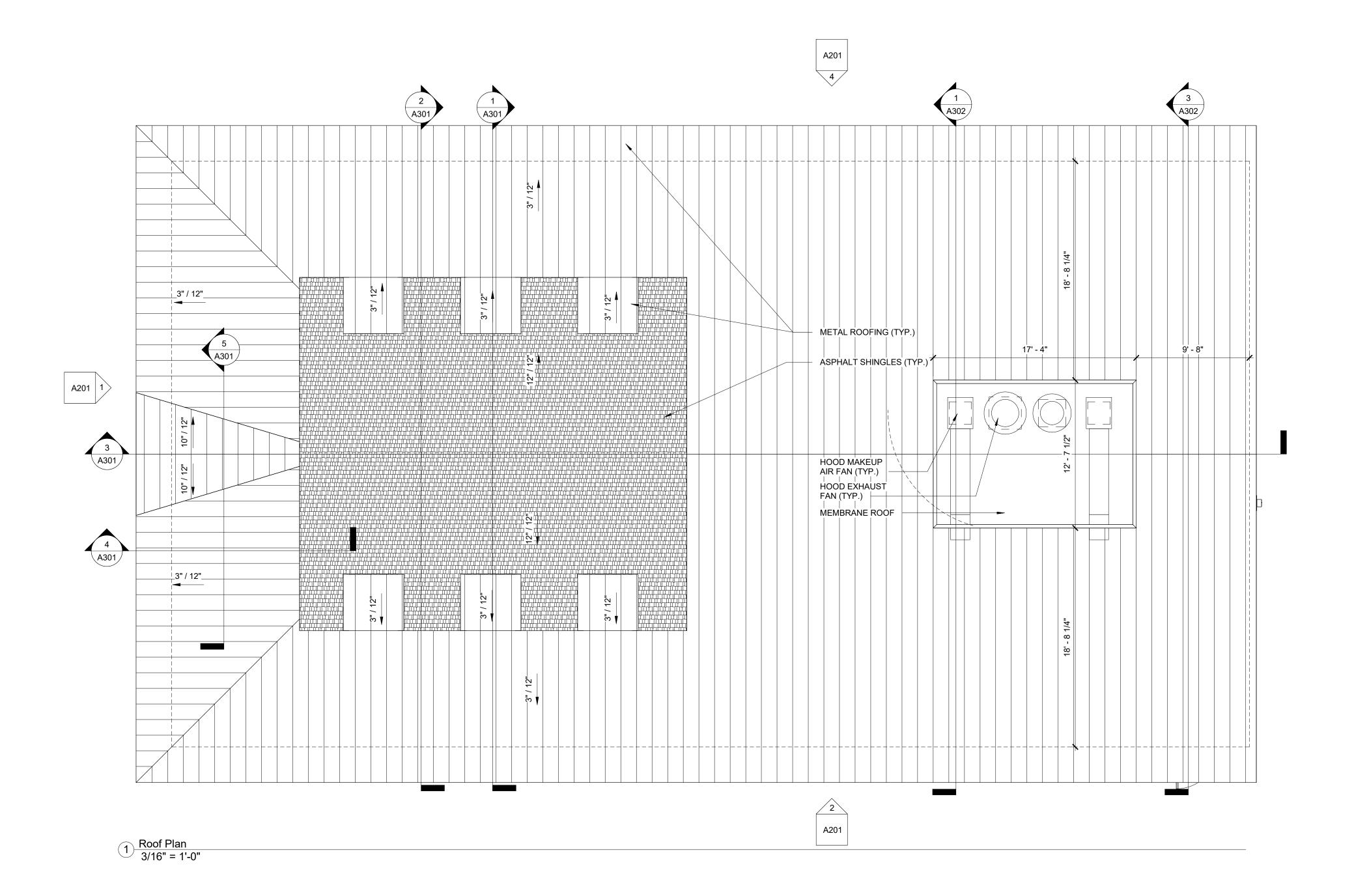
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8/25/23
Revisions:

No. Description Date

Designed: Designer



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Project: Cindy's Kitchen

Project No: **21091** 

Location: Caratoke Hwy. Coinjock, NC

e: August 25, 2023

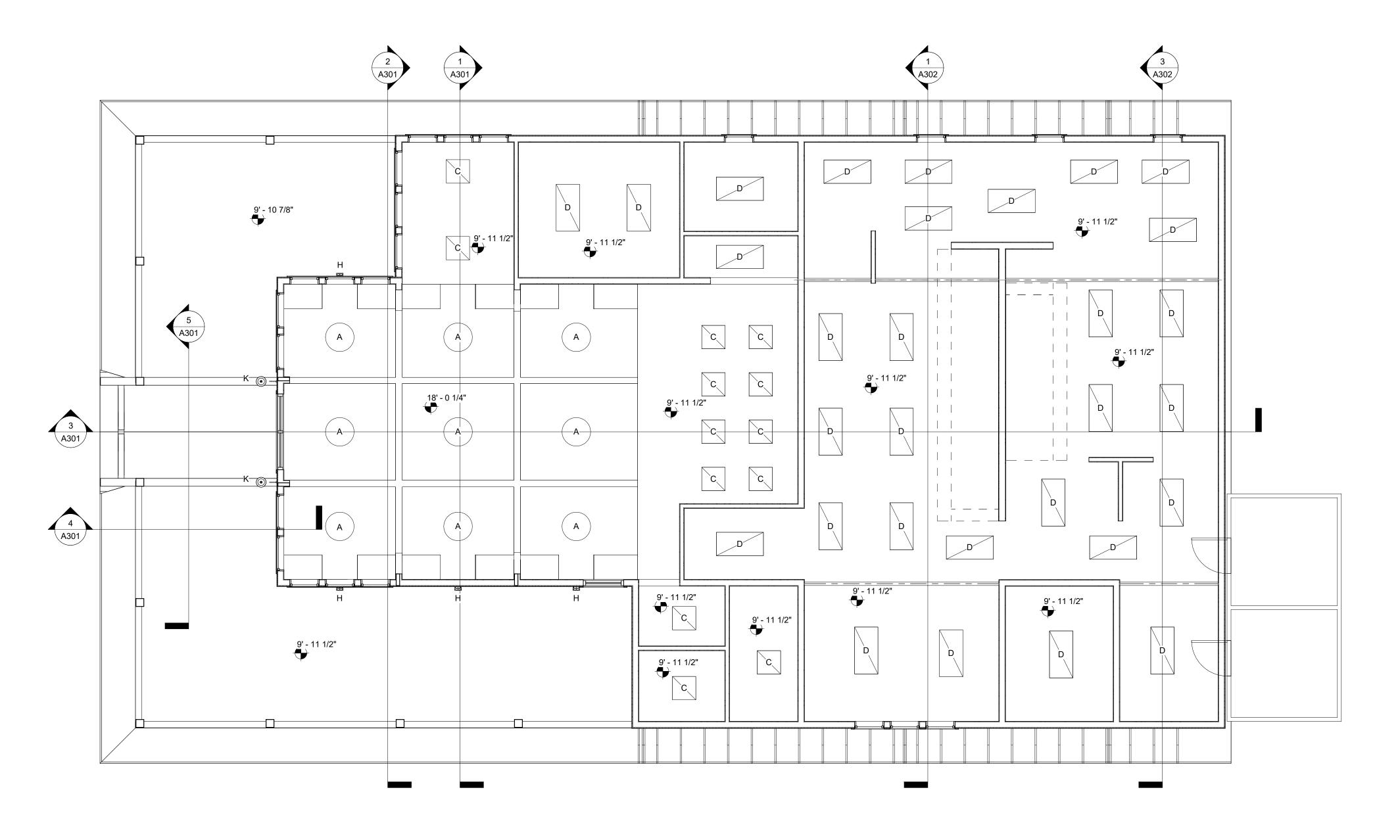
**Roof Plan** 

Scale: **3/16" = 1'-0"** 

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No. Description Date



First Floor Reflected Ceiling Plan
3/16" = 1'-0"



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Project: Cindy's Kitchen

Project No: **21091** 

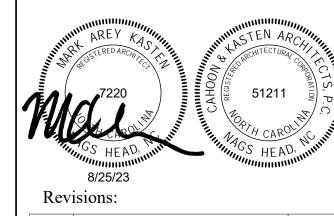
Location: Caratoke Hwy. Coinjock, NC

Reflected Ceiling Plans

August 25, 2023

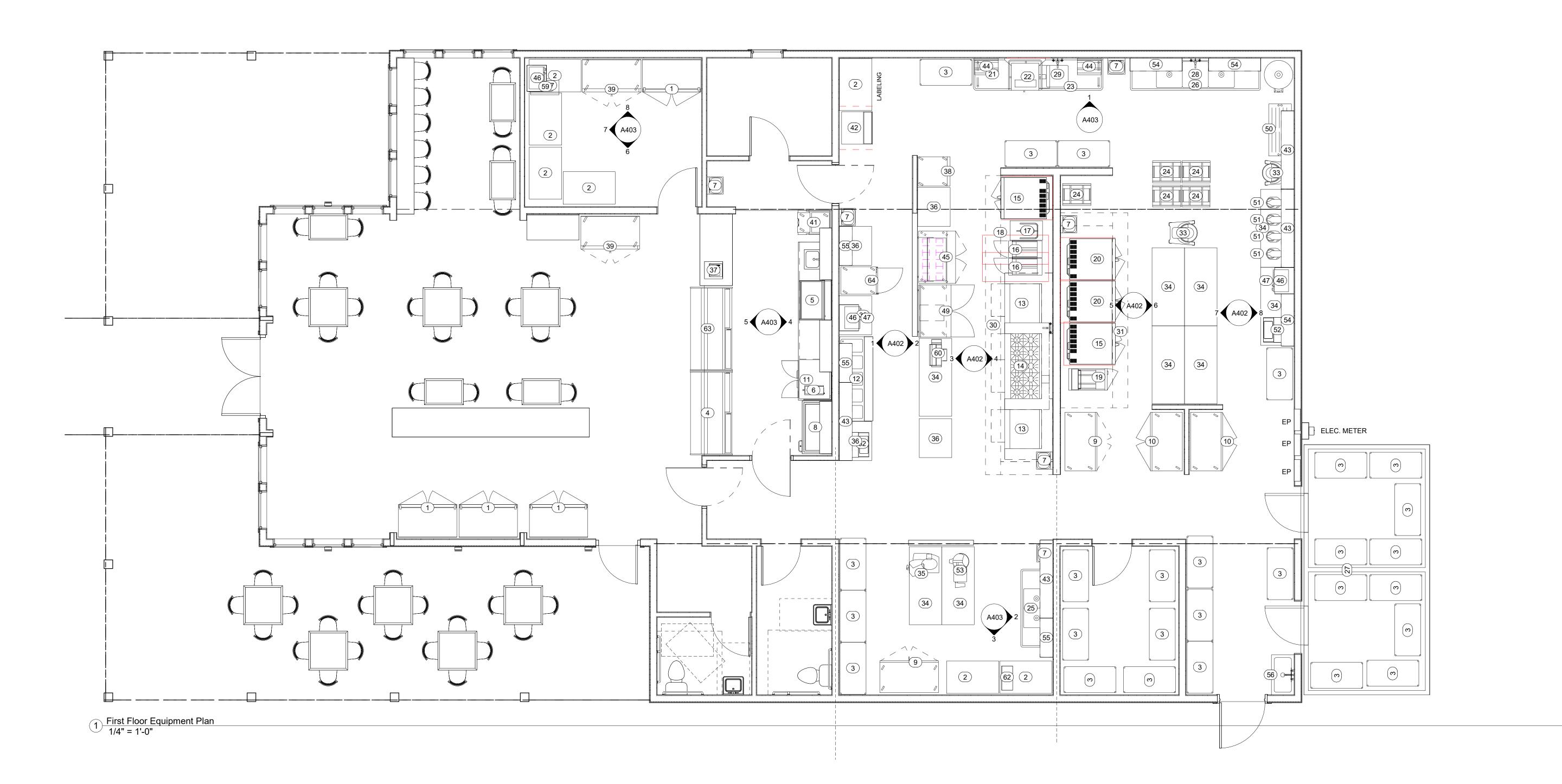
3/16" = 1'-0"

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Description Date

Reviewed: Checker



	Specialty Equipment Schedule												
#	Description	Width	Depth	Height	Manufacturer	Model							
1	MERCHANDISER rEFRIGERATOR	53 7/8"	31 23/32"	78 15/16"	TRUE MANUFACTURING	GDM-49-HC-TSL01							
2	WORK TABLE	48"	30"	35 1/2"	Advance Tabco	MSLAG-304C-X							
3	SHELVING	48"	24"	74"	OYLMPIC	J2448K							
4	CURVED GLASS, GLASS END REFRIGERATOR	77 1/4"	39"	49 1/8"	TRUE MANUFACTURING	TDM-R-77							
5	ESPRESSO MACHINE	36 5/16"	23 1/2"	22 13/32"	CASADIO	DIECI A3							
6	COFFEE MAKER	8 1/2"	17 11/16"	16 13/16"	BUNN	CWTF15-3							
7	HAND SINK	16"	15"	14"	Krowne Metal	HS-26L							
8	ICE CREAM CHEST, DIPWELL AND INSTALL KIT	48 3/4"	27 3/4"	37 1/2"	AVANTCO	360ADC8HC							
9	REACH-IN SOLID SWING DOOR REFRIGERATOR	54 1/8"	29 1/2"	83 5/16"	TRUE MANUFACTURING	T-49-HC							
10	REACH-IN SOLID SWING DOOR FREEZER	54 1/8"	29 1/2"	83 5/16"	TRUE MANUFACTURING	T-49F-HC							
11	UNDERCOUNTER REFRIGERATOR	36"	32"	28 5/8"	BEVERAGE-AIR	UCR36AHC							
12	WATER BATH HOT FOOD TABLE	77 3/4"	22 5/8"	34"	DUKE MANUFACTURING	EP305SW							
13	GRIDDLE	36"	34"	58"	GARLAND	M48R							
14	RANGE	36"	41 1/2"	58"	GARLAND	G60-10RR							
15	OVEN - GAS	38"	44 1/2"	70 9/16"	GARLAND	MCO-GD-20-S							
16	FRYER	15 5/8"	30 27/32"	41 1/8"	FRYMASTER	GF14							
17	FRY WARMER	14 1/4"	19 1/2"	23 1/2"	WINCO	EHL-2							
18	FILLER TABLE	18"	30"	35 1/2"	Advance Tabco	FT-3018							
19	FRYER	20"	35 1/2"	45"	DEAN (FRYMASTER)	SR162G							
20	OVEN - ELECTRIC	38"	44 1/2"	70 9/16"	GARLAND	MCO-ED-20M							
21	DISHWASH - CLEAN TABLE	35"	30"	44 1/2"	Advance Tabco	DTC-S70-36L							
22	DISHWASHER	25 1/2"	25"	60"	CMA DISHMACHINES	CMA-180-VL							
23	DISHWASH - SOIL TABLE	59"	30"	44 1/2"	Advance Tabco	DTS-S70-60R							
24	SHEET PAN RACK	20 1/4"	26"	64"	ADVANCE TABCO	PR18-3W							
25	SINK - 2 COMPARTMENT - 2 DRAINBOARDS	72"	29 3/4"	43"	ADVANCE TABCO	FC-2-1824-18RL							
26	SINK - 3 COMPARTMENT - 2 DRAINBOARDS	120"	29 3/4"	43"	ADVANCE TABCO	FS-3-2424-24RL							
27	WALK-IN COOLER/FREEZER	231"	116"	92"	THERMALRITE								
28	POT SINK FAUCET				DORMONT	LFF-WST8-S12S							
29	DISHWASH - PRE-RINSE FAUCET				DORMONT	LFP-WS8B							
30	KITCHEN HOOD	264"	48"	24"	CAPTIVAIRE								

			: 11 =			
		Sp	pecialty Equ	ipment Sch	edule	
#	Description	Width	Depth	Height	Manufacturer	Model
1	KITCHEN HOOD	168"	48"	24"	CAPTIVAIRE	
3	MIXER - 30 QT	22 11/16"	26 5/16"	46 1/8"	GLOBE	SP30
4	WORK TABLE - 72"	72"	30"	35 1/2"	Advance Tabco	MSLAG-306C-X
5	SLICER	24 5/8"	30 5/16"	27 11/16"	GLOBE	GC512
6	WORK TABLE	36"	30"	35 1/2"	Advance Tabco	MSLAG-303
7	CASH REGISTER	16"	17"	12"	SAM4'S	ER350
8	REACH-IN SOLID SWING DOOR REFRIGERATOR	27"	29 1/2"	83 5/16"	TRUE MANUFACTURING	T-23-HC
9	REACH-IN GLASS SWING DOOR FREEZER	54 5/32"	29 13/16"	83 3/8"	TRUE	T-49FG-HC~FGD01
1	ICE CADDIES	22 7/16"	30 5/16"	28 3/4"	CAMBRO	ICS100L110
2	ICE MAKER	30"	28 1/2"	38 1/2"	MANITOWOC ICE	URF0310A
3	SS WALL SHELF	72"	12"	60"	ADVANCE TABCO	WS-12-72
4	DRANABLE SHELF	22"	15 1/2"	12"	ADVANCE TABCO	DT-22-EC
5	PREP TABLE	48 5/16"	34 1/16"	46 15/32"	TRUE	TSSU-48-18M-B-HC
3	MICROWAVE	20 1/8"	14 1/8"	13"	ACP	RCS10DSE
7	MICROWAVE SHELF	24 1/4"	18"	13"	ADVANCE TABCO	MS-18-24
9	WORKTOP FREEZER	48 5/16"	31 1/16"	39 1/2"	TRUE MANUFACTURING	TWT-48F-HC
)	DUNNAGE RACK	48"	21"	12"	CAMBRO	DRS480480
1	MIXER - 5 QT (BY OWNER)	10 3/8"	15"	16 9/16"		
2	WRAPPER	22 1/2"	26"	8 3/4"	VISION TECH SHOP	CW-500E
3	FOOD CUTTER	31 7/8"	19 15/16"	28 3/4"	HOBART	84145-19
4	SS WALL SHELF	48"	12"	60"	ADVANCE TABCO	WS-12-48
5	SS WALL SHELF	36"	12"	60"	ADVANCE TABCO	WS-12-36
6	MOP SINK	37"	21"	10"	Advance Tabco	9-OP-20
9	ELECTRIC GRIDDLE	15"	26 1/4"	11 7/8"	BLACK & DECKER	GD2011B
0	VERTICAL TOASTER	25 3/8"	16"	29 1/2"	MARSHALL AIR SYSTEMS, INC.	AUTOTOAST VT18
2	ICED TEA MAKER	10 1/8"	22 3/8"	36"	BUNN	36700.0300
3	CURVED GLASS, GLASS END DRY CASE	77 1/4"	39"	49 1/8"	TRUE	TDM-DC-77
4	FLAV-R-SAVOR, TALL HUMIDIFIED HOLDING CABINETS	25 3/8"	34 29/32"	73 5/16"	HATCO	FSHC-17W1D

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CONTRACTOR



Project: Cindy's Kitchen

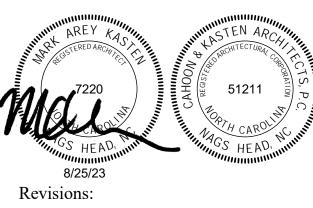
Project No: **21091** 

Location: Caratoke Hwy. Coinjock, NC
Title: Equipment Plan

ate: **August 25, 2023** 

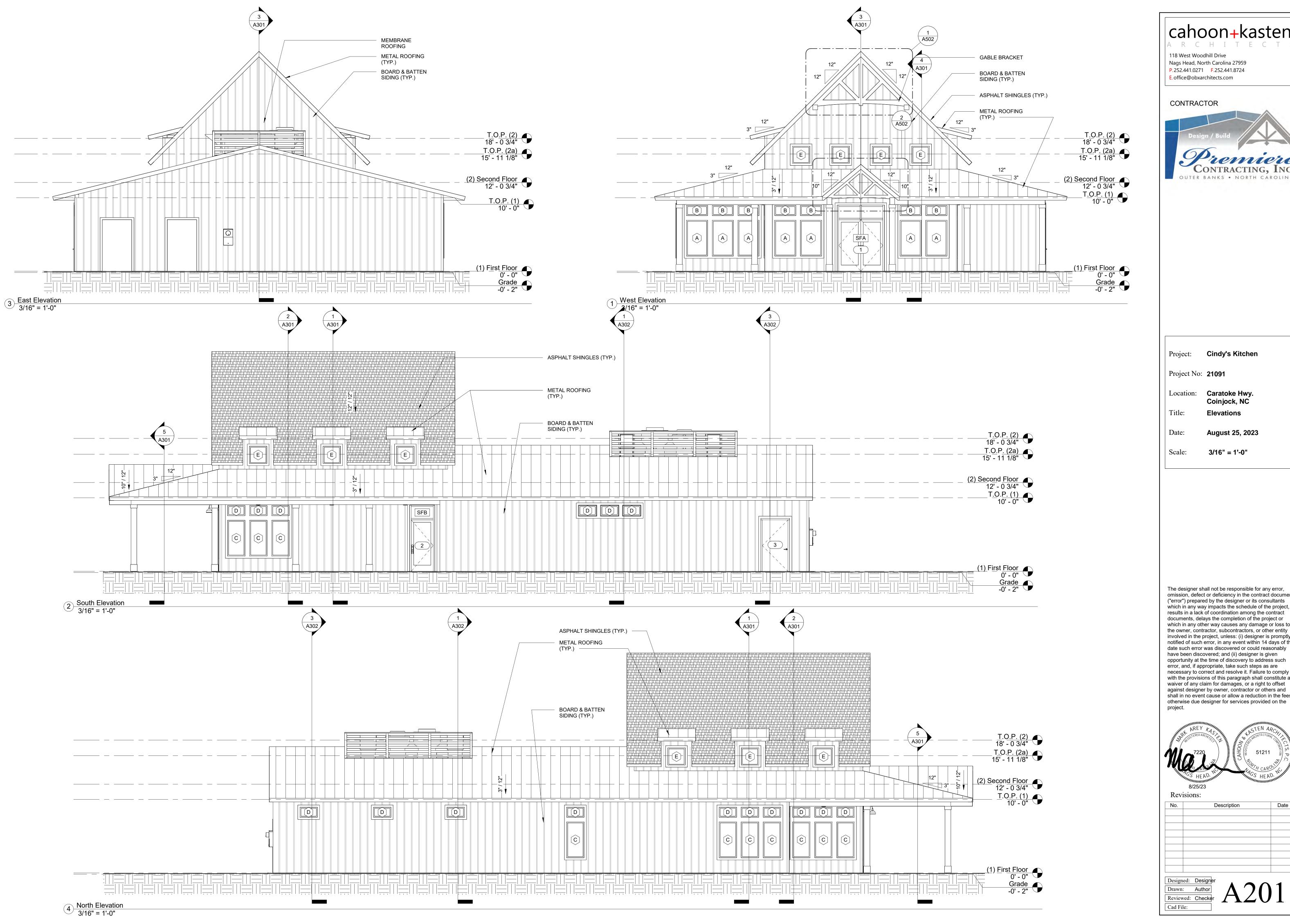
Scale: 1/4" = 1'-0"

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Revisions:

No. Description Date



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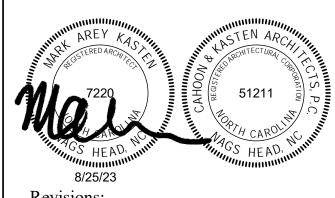


Cindy's Kitchen

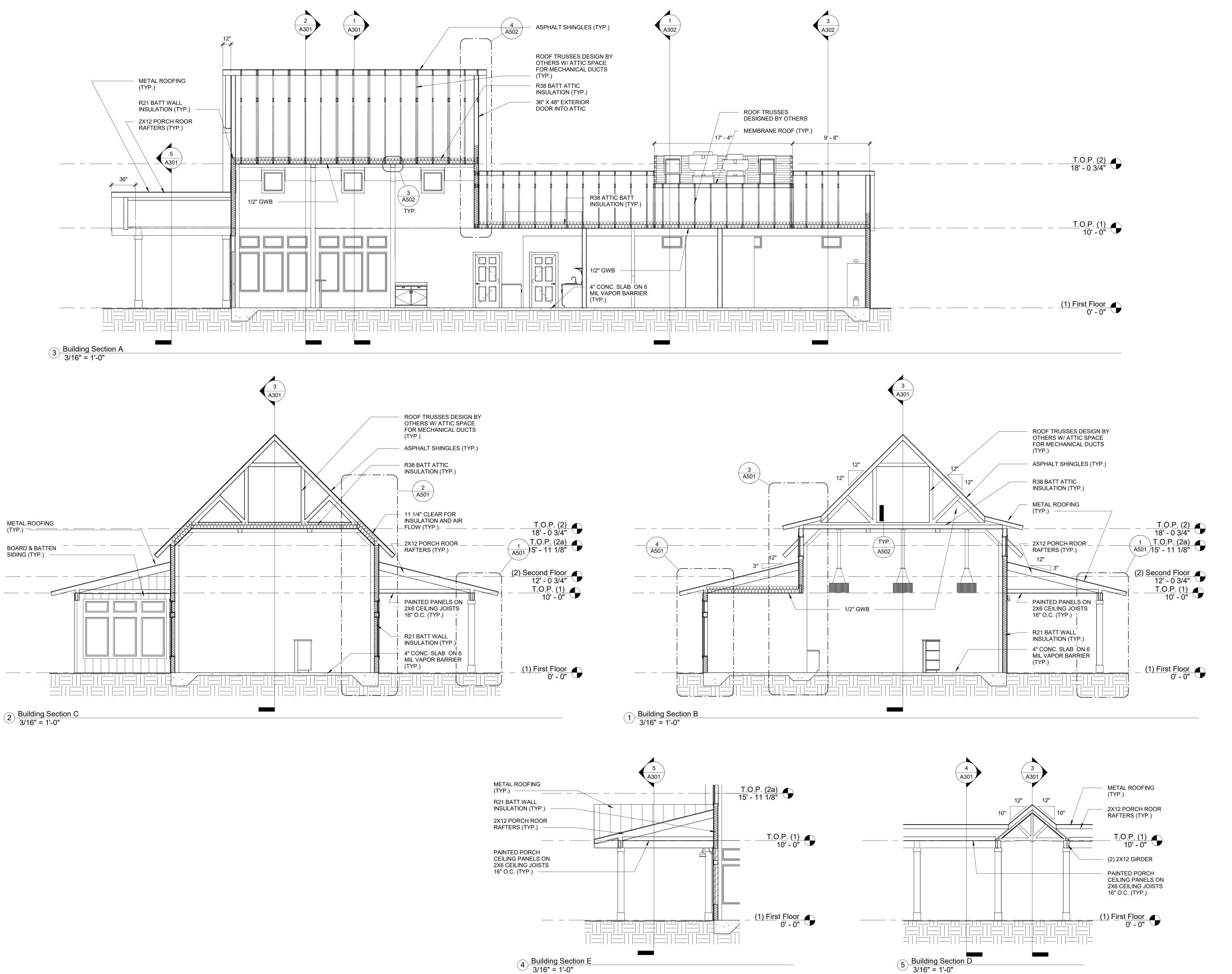
Coinjock, NC

3/16" = 1'-0"

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Description Date



| cahoon+kasten

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Nags Head, North Carolina 27959
P.252.441.0271 F.252.441.8724
E. office@obxarchitects.com

CONTRACTOR



Project: Cindy's Kitchen

Project No: **21091** 

Location: Caratoke Hwy. Coinjock, NC

August 25, 2023

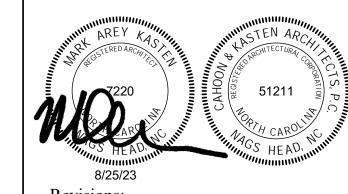
itle: Building Sections

Scale: **3/16" = 1'-0"** 

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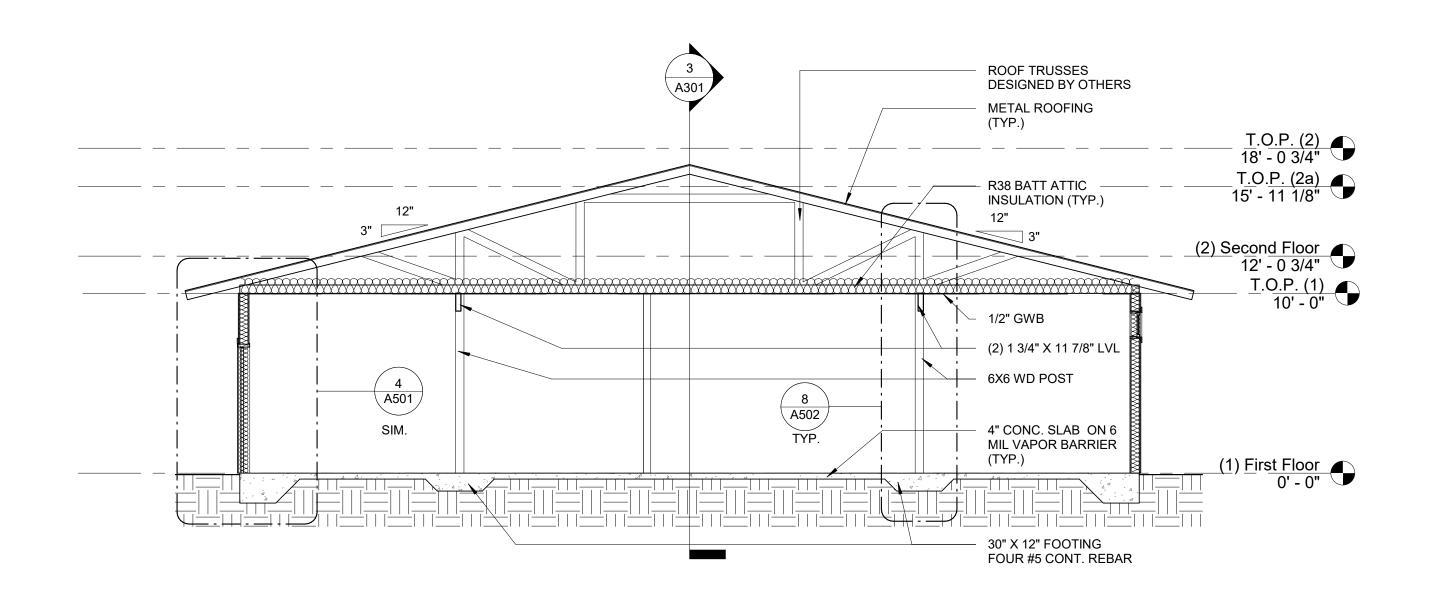
against designer by owner, contractor or others and shall in no event cause or allow a reduction in the fees otherwise due designer for services provided on the project.



Revisions:

No. Description

Date



12' - 7 1/2" 18' - 8 1/4" 18' - 8 1/4" MEMBRANE ROOF (TYP.)  $\begin{pmatrix} 3 \\ A301 \end{pmatrix}$ ROOF TRUSSES DESIGNED BY OTHERS METAL ROOFING (TYP.) R38 ATTIC BATT INSULATION (TYP.) 12" T.O.P. (1) 10' - 0" - 1/2" GWB 8 A502 TYP. 4 A501 SIM.. - 4" CONC. SLAB ON 6 MIL VAPOR BARRIER (TYP.) (1) First Floor 0' - 0"

 $3 \frac{\text{Building Section G}}{3/16" = 1'-0"}$ 

1 Building Section F 3/16" = 1'-0" cahoon+kasten

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CONTRACTOR



Project: Cindy's Kitchen

Project No: **21091** 

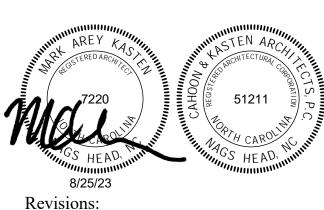
Location: Caratoke Hwy. Coinjock, NC

August 25, 2023

Title: Building Sections

Scale: **3/16" = 1'-0"** 

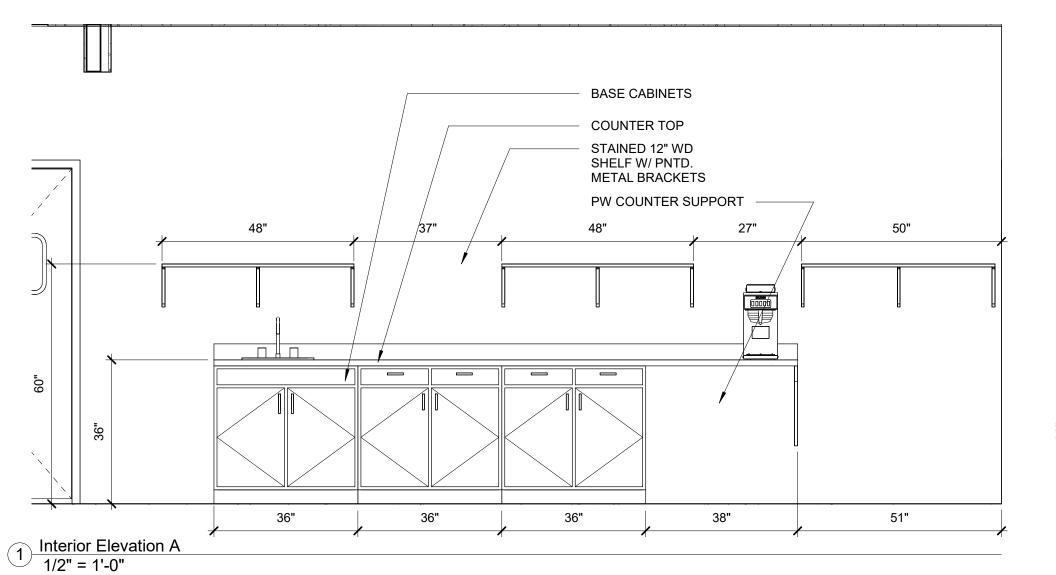
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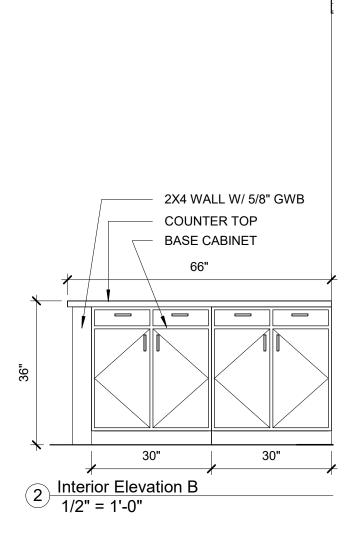


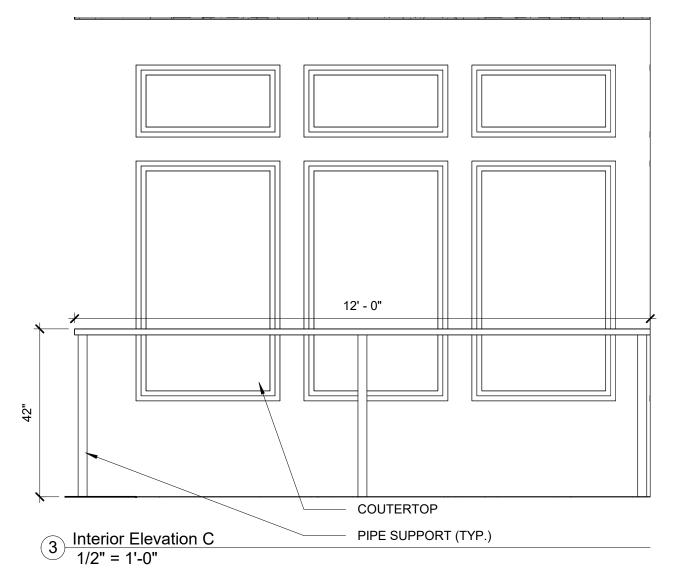
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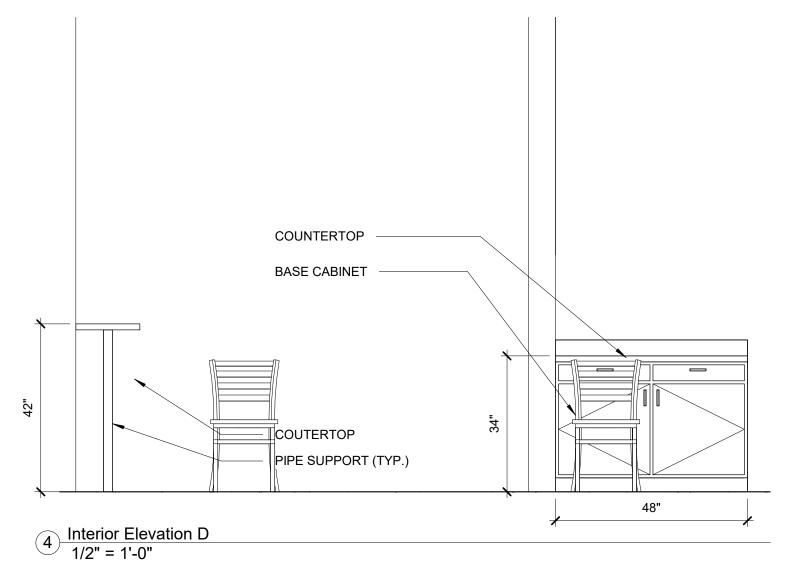
Revisions:

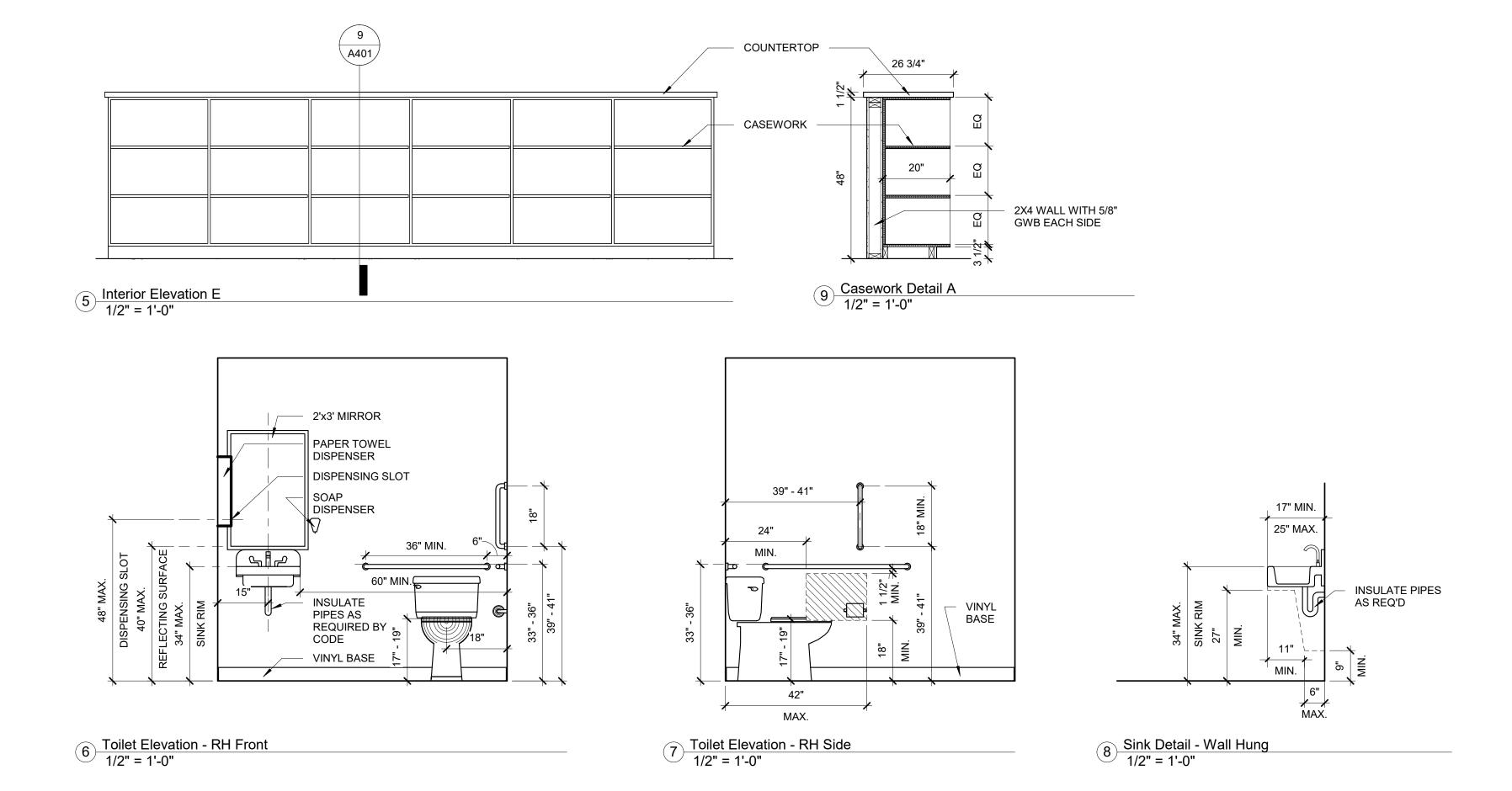
No. Description

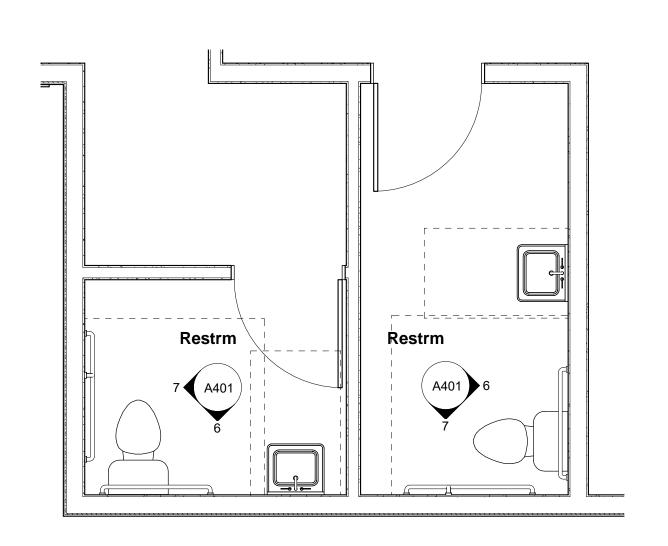












10 Restroom Plan 3/8" = 1'-0" cahoon+kasten

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CONTRACTOR



Project: Cindy's Kitchen

Project No: **21091** 

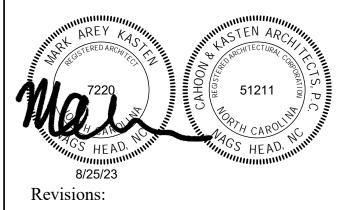
Location: Caratoke Hwy. Coinjock, NC

Interior Elevations

Date: August 25, 2023

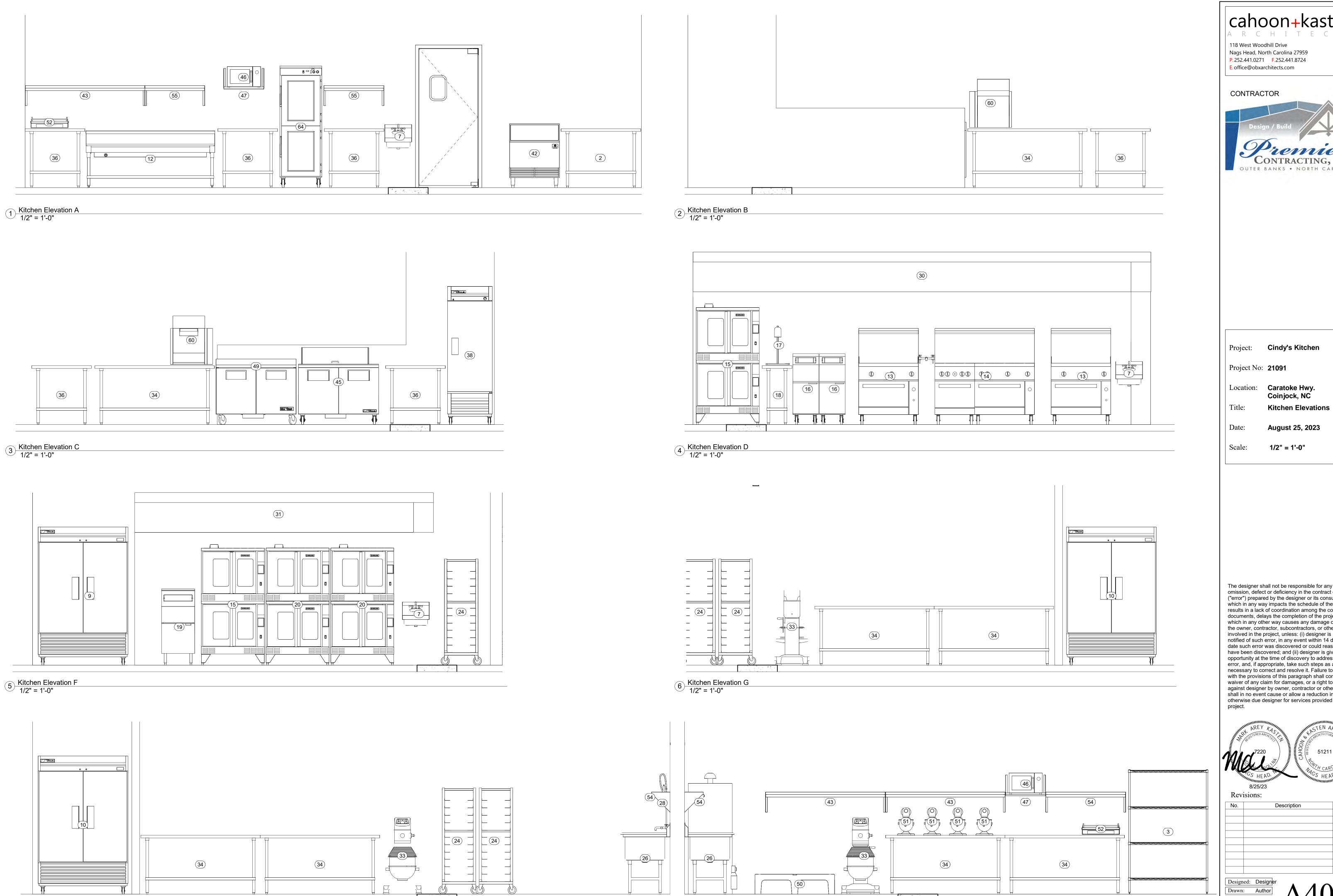
Scale: **As indicated** 

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No. Description Date

Designed: Designer



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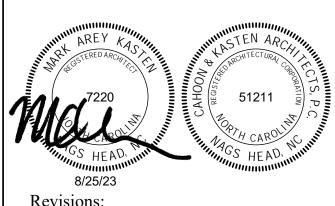
Cindy's Kitchen

Location: Caratoke Hwy. Coinjock, NC

August 25, 2023

1/2" = 1'-0"

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Description Date

Reviewed: Checker Cad File:



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CONTRACTOR



Cindy's Kitchen

Project No: **21091** 

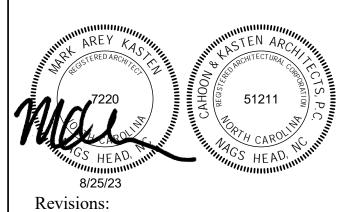
Location: Caratoke Hwy. Coinjock, NC

Kitchen Elevations

August 25, 2023

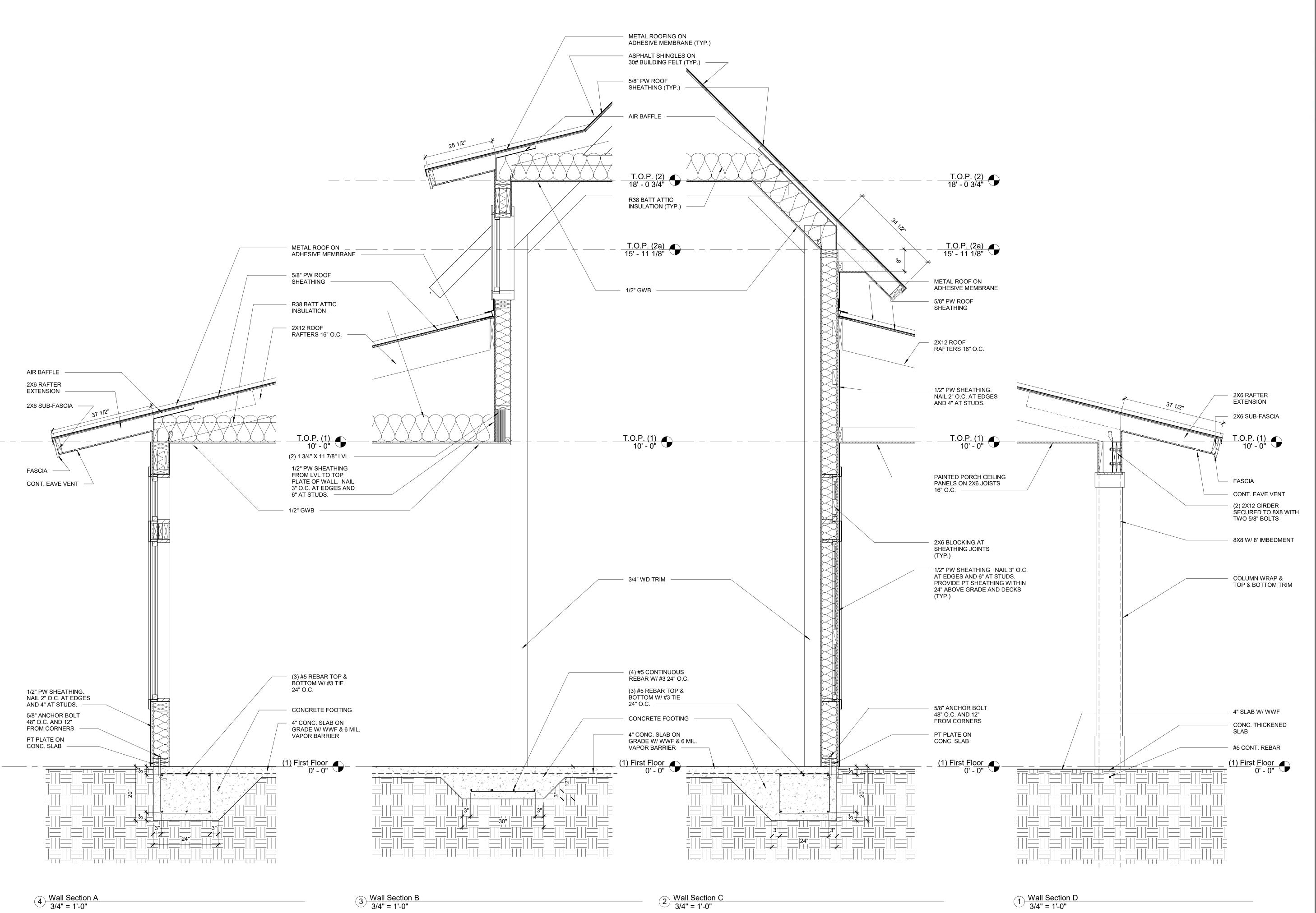
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Reviewed: Checker



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CONTRACTOR



Project: Cindy's Kitchen

Project No: 21091

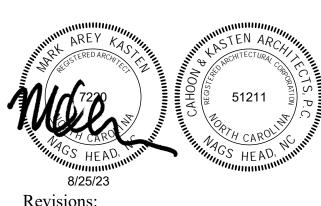
Location: Caratoke Hwy. Coinjock, NC

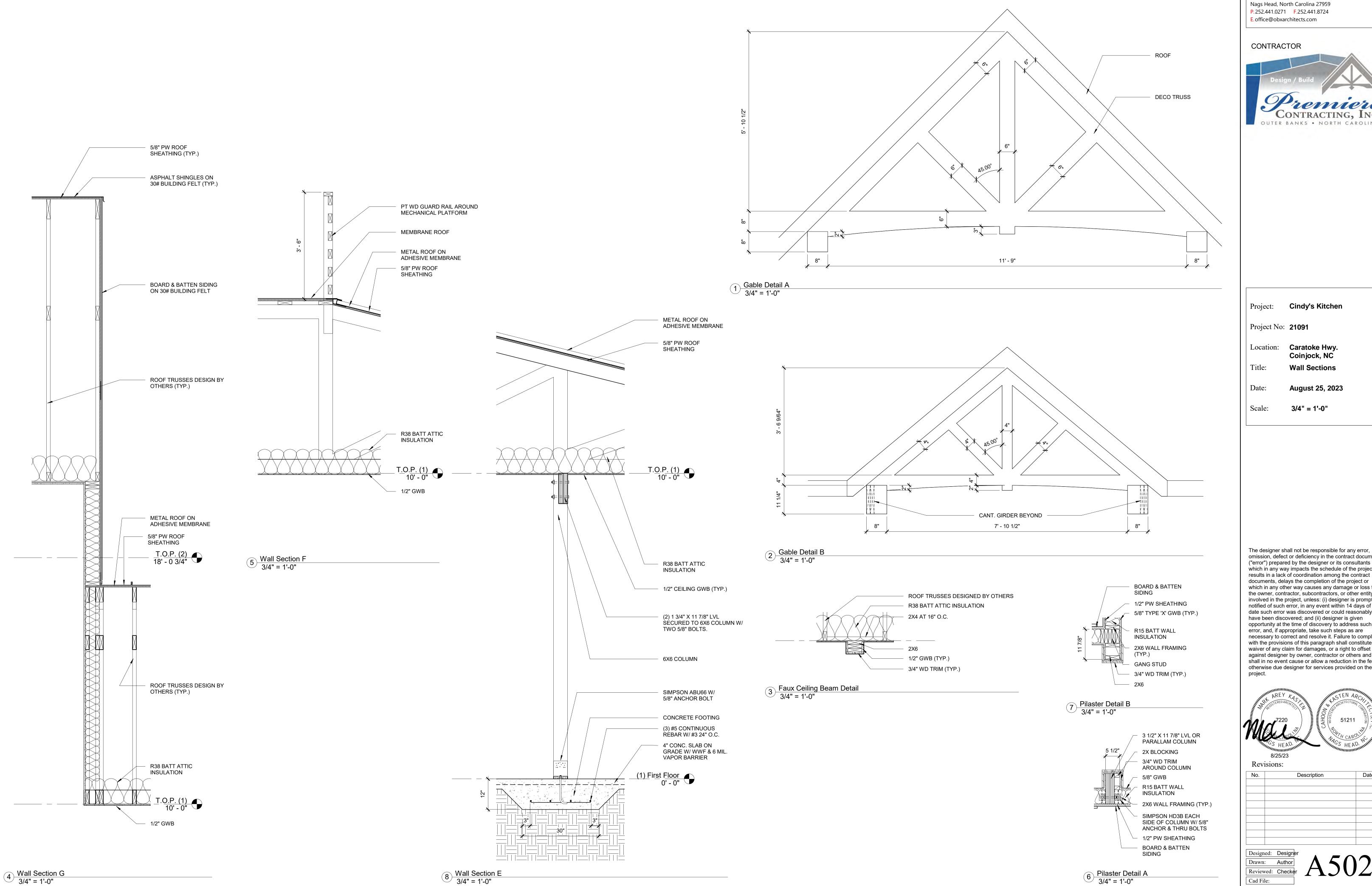
Title: Wall Sections

Date: August 25, 2023

Scale: 3/4" = 1'-0"

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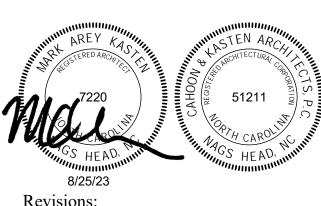


Cindy's Kitchen

Coinjock, NC

Wall Sections

omission, defect or deficiency in the contract documents ("error") prepared by the designer or its consultants which in any way impacts the schedule of the project, results in a lack of coordination among the contract documents, delays the completion of the project or which in any other way causes any damage or loss to the owner, contractor, subcontractors, or other entity involved in the project, unless: (i) designer is promptly notified of such error, in any event within 14 days of the date such error was discovered or could reasonably have been discovered; and (ii) designer is given opportunity at the time of discovery to address such error, and, if appropriate, take such steps as are necessary to correct and resolve it. Failure to comply with the provisions of this paragraph shall constitute a waiver of any claim for damages, or a right to offset against designer by owner, contractor or others and shall in no event cause or allow a reduction in the fees otherwise due designer for services provided on the



Description Date

EM	QTY.	DESCRIPTION	FILTERED WATER	COLD WATER	120° F HOT WATER		SEWER OR WASTE	GAS MBH		NOT	ΓES	
5	1	ESPRESSO MACHINE		1/2"					•			
(0)	1	DUAL COFFEE MAKER		1/2"								
(~)	7	HAND SINK		1/2"	1/2"		1 1/2"					
(®)	1	ICE CREAM CHEST, DIPWELL					l"		•		•	
(E)	2	GRIDDLE						139				
( <del>F</del> )	1	RANGE						406				
( <del>অ</del> )	2	OVEN - GAS						60				
(ত	2	FRYER						100				
ত	1	FRYER						150				
22	1	DISHWASHER		1/2"		1/2"	2*		•			
23	1	PRE-RINSE SINK AND FAUCET		1/2"		1/2"	1 1/2"		•			
25	1	SINK - 2 COMPARTMENT AND FAUCET		1/2"		1/2"	1 1/2"		•			
(%)	2	SINK - 3 COMPARTMENT AND FAUCET		1/2"(2)		1/2"(2)	1 1/2"		•			
42	1	ICE MAKER		1/2"			1/2"					
56)	1	MOP SINK		1/2"		1/2"	1 1/2"					
8	1	ICED TEA MAKER		1/2"								
ROVID	OVIDE ED BY	WATER HAMMER ARRESTOR ON ALL EQUIPM KITCHEN EQUIPMENT CONTRACTOR OR OTH NTRACTOR TO PROVIDE ALL PIPING, VALVING	ERS, INSTALL	ED BY	THE PL	.UMBING	CONTR					

INDIRECT DRAIN TO FLOOR SINK / FLOOR DRAIN / HUB DRAIN.

DIRECT DRAIN.

		KITCHEN	EQL	JIPI	ME	NT	S	CHED	ULE			
ITEM	QTY.	DESCRIPTION	FILTERED WATER	COLD	120° F HOT WATER	I40° F HOT WATER	SEWER OR WASTE	GAS MBH		NO <sup>-</sup>	TES .	
64	1	DROP IN SINK		1/2"		1/2"	I 1/2"					
(65)	1	POT FILL FAUCET		1/2"		1/2"			•		•	
PROVID	ED BY	WATER HAMMER ARRESTOR ON ALL EQUIPME KITCHEN EQUIPMENT CONTRACTOR OR OTHE ONTRACTOR TO PROVIDE ALL PIPING, VALVING,	ERS, INSTALL	ED BY	THE PL	.UMBING	S CONTI					
PROVID	ED WI	TH A CONTINUOUS WASTE.										
FAUCET BY KITCHEN EQUIPMENT CONTRACTOR.												
INDIRECT DRAIN TO FLOOR SINK / FLOOR DRAIN / HUB DRAIN,												
		DIRECT DRAIN.										

### PLUMBING KEY NOTES

- I 1/2" COLD WATER PIPE BELOW FINISHED GRADE, PLUMBING CONTRACTOR'S WORK BEGINS 5'-0" OUTSIDE BUILDING, SEE SITE PLAN FOR CONTINUATION.
- (1.2) MAIN SHUT OFF VALVE IN VALVE BOX.
- WATER PIPING ABOVE FINISHED CEILING, COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTORS, PROVIDE LABEL WHICH READS "DO NOT TAP", PLACE ON PIPING EVERY 10' UPSTREAM OF E.office@obxarchitects.com
- WATER PIPING ABOVE FINISHED CEILING, COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
- (15) I' COLD WATER PIPE UP TO SECOND FLOOR.
- (16) 3/4" HOT WATER PIPE DOWN FROM SECOND FLOOR.
- (I.7) WATER HEATER (WIHI) LOCATED AT FLOOR.
- (18) WATER HEATER (WH-2) LOCATED ABOVE FINISHED CEILING.
- GAS METER BY OTHERS, 1154 MBH 2.0 PSI (80' EQUIVILANT LENGTH), PIPING SIZED ACCORDING TO TABLE 402.4(5) OF THE NORTH CAROLINA FUEL GAS CODE.
- GAS REGULATOR. 2.0 PSI O.5 PSI, PIPING SIZED ACCORDING TO TABLE 402.4(2) OF THE NORTH CAROLINA FUEL GAS CODE.
- 2.3 ROUTE GAS PIPE UP ALONG WALL TO ABOVE FINISHED CEILING.
- 2.4 ROUTE GAS PIPING ABOVE FINISHED CEILING.
- 25) GAS SOLENOID VALVE
- (3.1) ELECTRICAL EQUIPMENT BY ELECTRICAL CONTRACTOR.

ATLANTEC

118 West Woodhill Drive

Nags Head, North Carolina 27959 P.252.441.0271F252.441.8724

3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111 **22170** 



SEAL 22035

SEAL 22035

OPERAL STATES OF THE PROPERTY OF THE P

Project: Cindy's Kitchen

Project No: 21091

Location: Caratoke Hwy. Currituck, NC

e: Plumbing Plan

July 26, 2023

e: As indicated

FIRST FLOOR WATER AND GAS PIPING PLAN

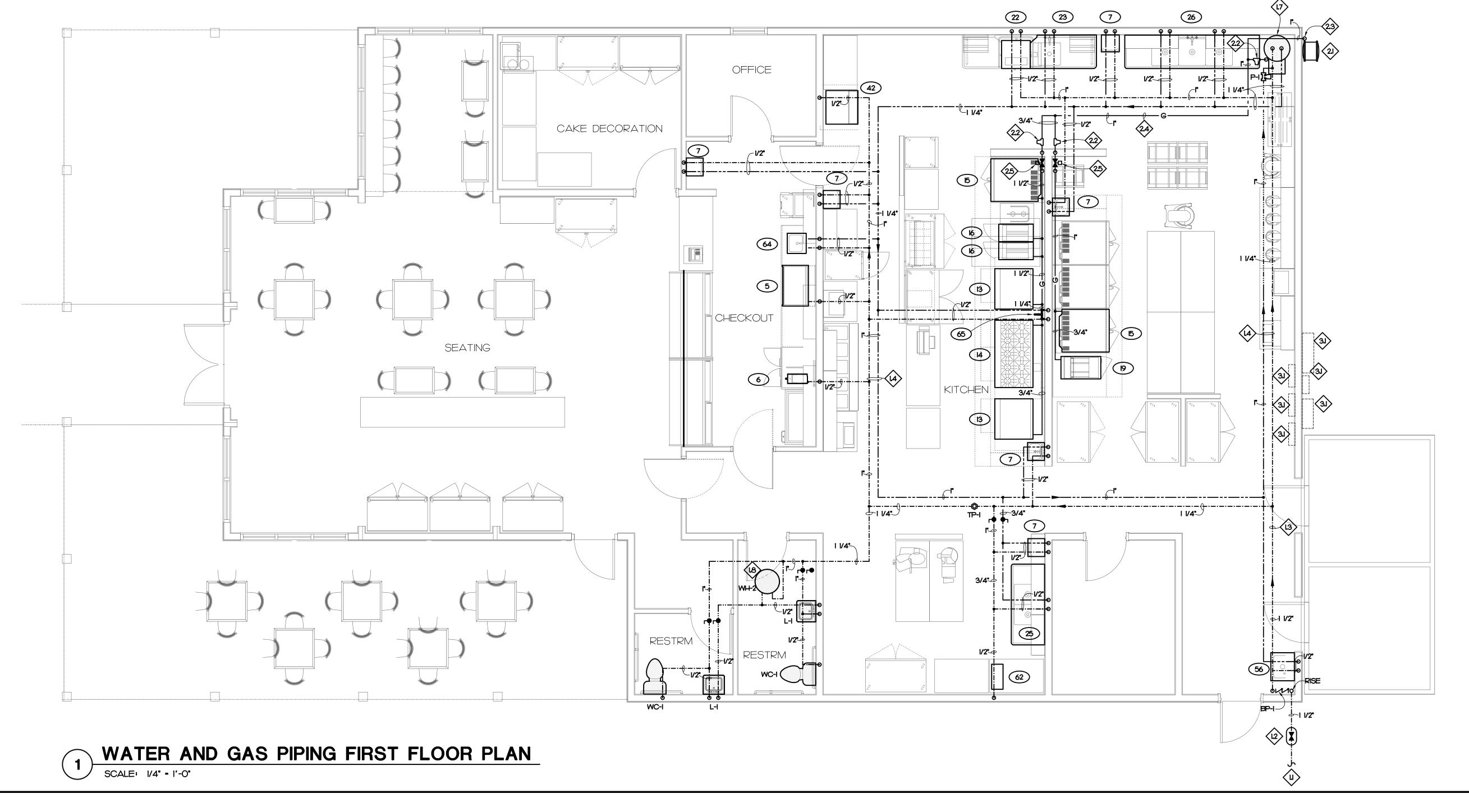
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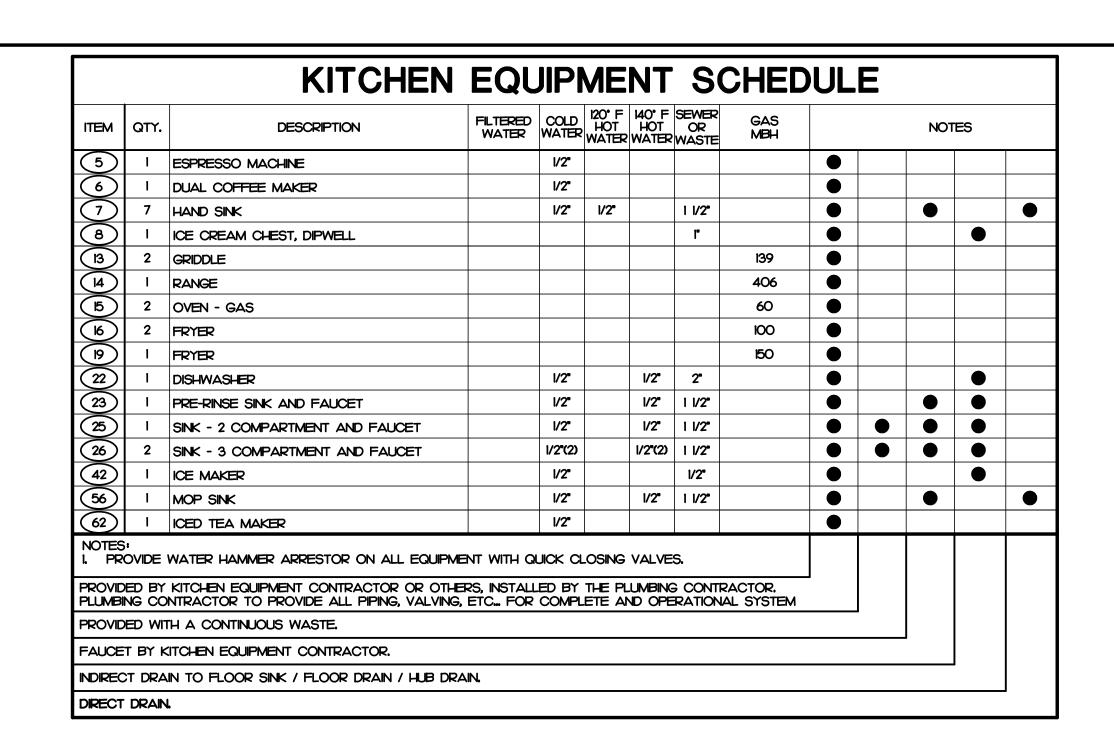
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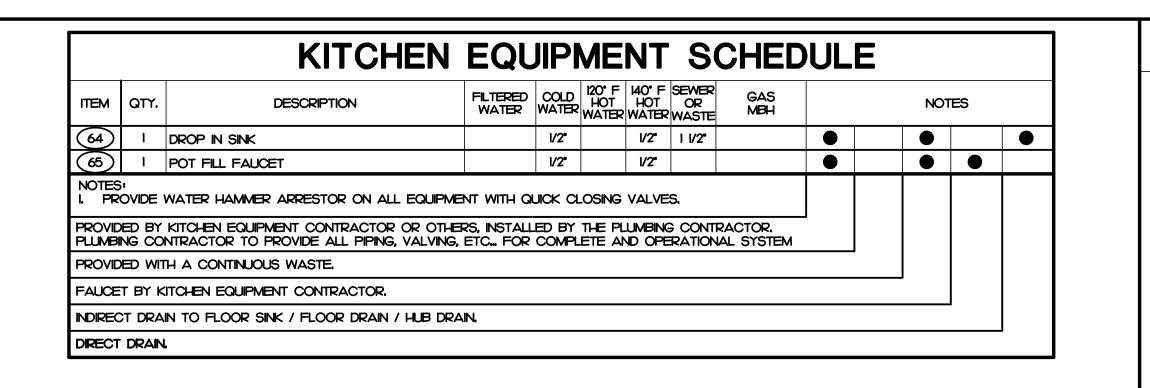
No. Description Da

Designed: DRD
Drawn: DRD
Reviewed: JBD

DRD P101







### PLUMBING KEY NOTES

- (II) 4" SANITARY SEWER PIPE BELOW FINISHED GRADE, SEE SITE PLAN FOR CONTINUATION.
- 2000 GALLON PRECAST CONCRETE GREASE INTERCEPTOR, COORDINATE LOCATION WITH SITE CONTRACTOR,
- (13) INVERT ELEVATION IS TO BE 234' BELOW FINISHED FLOOR.
- (14) SANITARY SEWER PIPE BELOW FINISHED FLOOR.
- GREASE WASTE PIPE BELOW FINISHED FLOOR, LABEL GREASE WASTE PIPING ABOVE AND BELOW FINISHED FLOOR/GRADE AS GREASE WASTE.
- (16) SANITARY TEE.
- (21) ELECTRICAL EQUIPMENT BY ELECTRICAL CONTRACTOR.

TLANTEC

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3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111 22170



Cindy's Kitchen Project:

Location: Caratoke Hwy. Currituck, NC

Plumbing Plan

July 26, 2023

As indicated

FIRST FLOOR WASTE PIPING PLAN

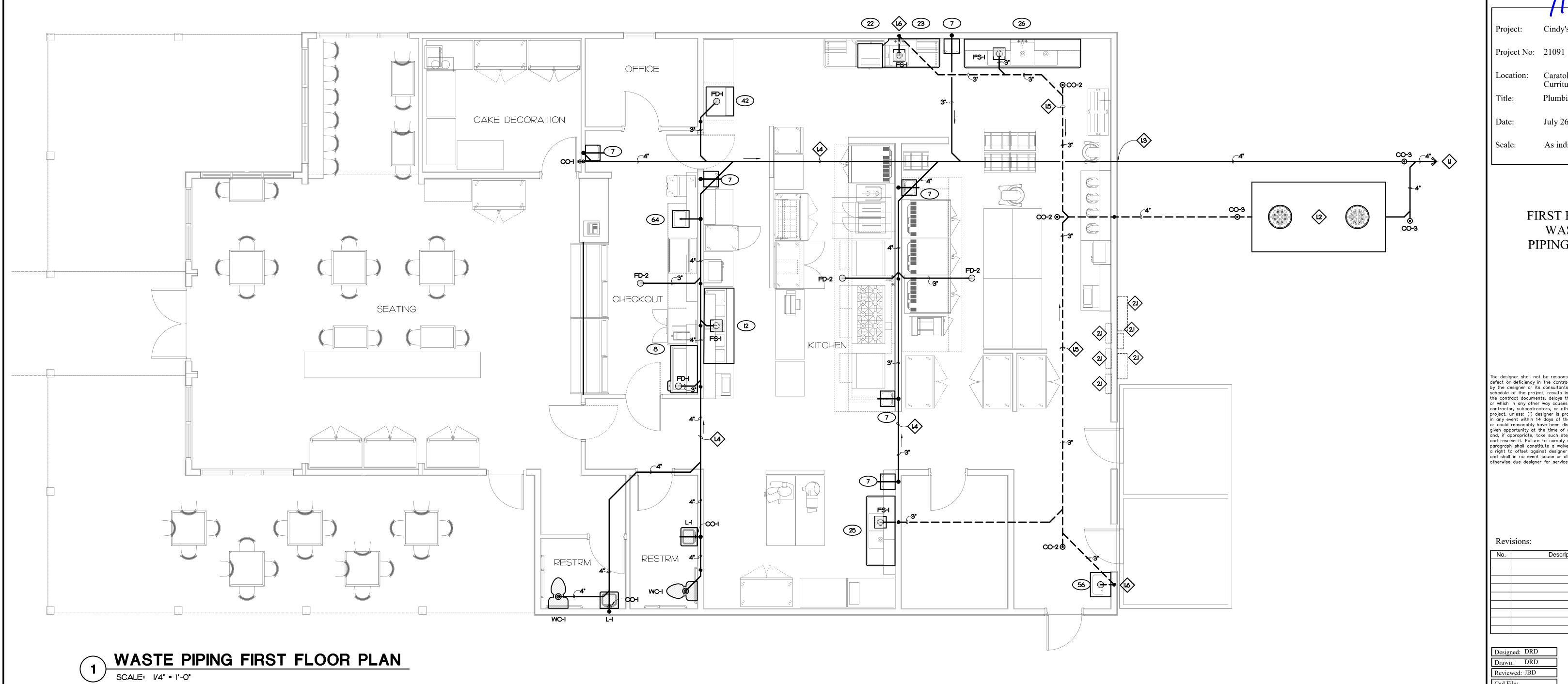
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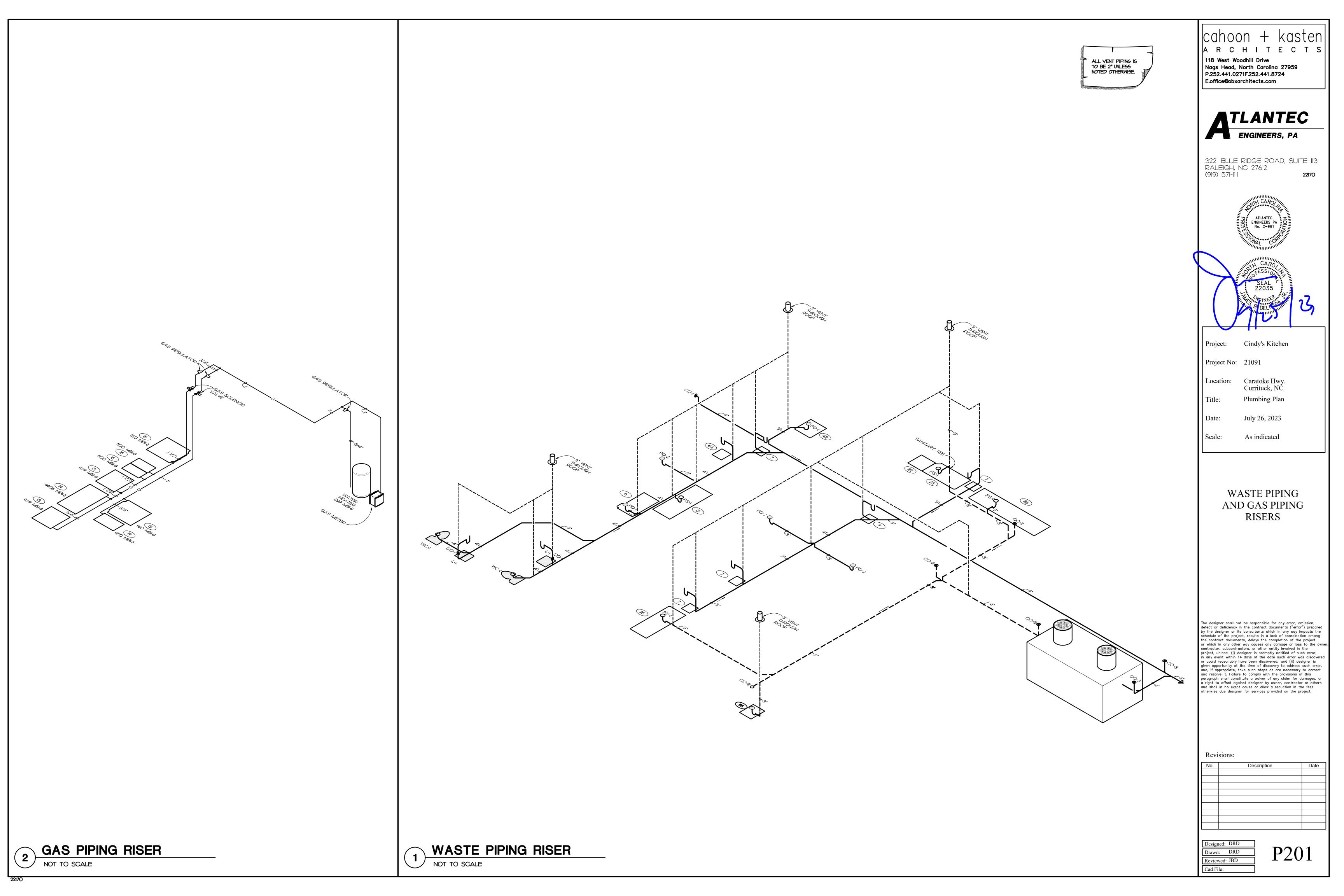
Revisions:

Description

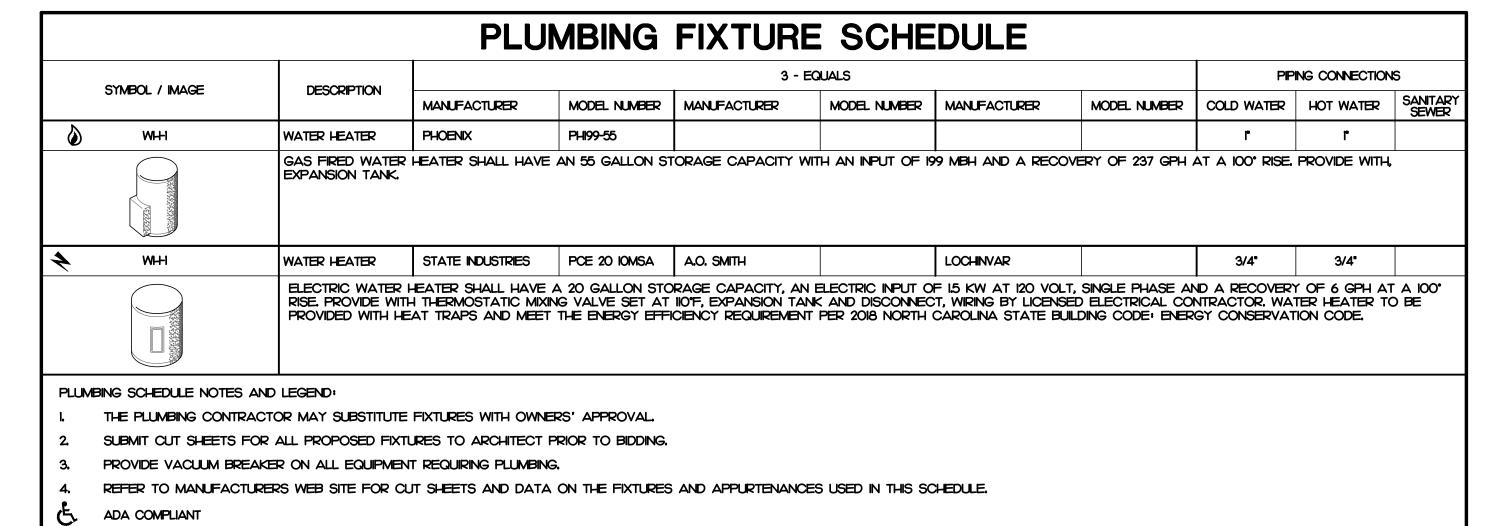
Reviewed: JBD

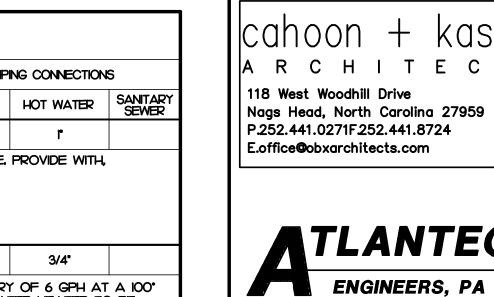
P102





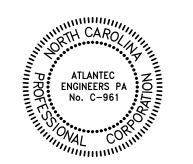
				3 - EQ	UALS			PIP	ING CONNECTION	s
SYMBOL / IMAGE	DESCRIPTION	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
BP-I	BACKFLOW PREVENTOR LEAD FREE, REDUCE	WATTS ED PRESSURE ZONE W	LF909QTMI-S WITH BALL VALVES	WILKINS  AND STRAINER, MOUNT	975XL2-S 24" ABOVE FINIS	FEBCO FLOOR.	LF860	l 1/2°	-	-
CO-I	WALL CLEANOUT	ZURN	CO-24/3-PVC	MIFAB		JR SMITH		-	-	SEE PLUM DRAWINGS
	ACCESS COVER  PVC CLEANOUT BO ACCESS COVER.	ZURN DDY AND PLUG TO BE	CO-2530-SS GAS AND WATER	MIFAB R TIGHT, PLUG TO HAVE	A BRASS THREA	JR SMITH IDED INSERT TO RECEIV	/E SECURING SCR	EW FOR STAINL	ESS STEEL ROI	JND
CO-2	FLOOR CLEANOUT	ZURN	CO2449	MIFAB		JR SMITH		-	-	SEE PLUM DRAWINGS
	PVC CLEANOUT WI	TH AND ADJUSTABLE	PVC RISER, NICKE	EL BRONZE FRAME AND	COVER, AND AN	ABS TAPER THREADED	PLUG, CLEANOU	T TO BE GAS A	ND WATERTIGH	π.
CO-3	EXTERIOR CLEANOUT	ZURN	Z-1400-HD	WATTS	CO-200-RX-4-34	JR SMITH	4243	-	-	SEE PLUM DRAWINGS
	CLEANOUT HOUSING HEAVY DUTY EXTE	l.	Z-1474  CAST IRON BODY	WATTS  T, EXTRA HEAVY DUTY T	CO-300-MF OP, AND GAS AN	ND WATERTIGHT ABS TA	APERED THREAD	PLUG.		
CO-4	CLEANOUT	ZURN	CO2490	MAROL		JR SMITH		-	-	SEE PLUM DRAWINGS
	PVC CLEANOUT PL	UG TO BE GAS AND \	WATERTIGHT.							
FD-I	FLOOR DRAIN	ZURN	ZN451	WATTS	FD-100-ER	MIFAB	FIOO-CC-DD	1/2"	-	3"
	CONNECTION.	iave a cast iron bo	DOT WITH 3° BOTT	OM OUTLET, ADJUSTABI	LE COLLAR, POLIS	SHED /* DIAMETER NICK	EL BRONZE STRA	INER, AND 1/2" I	KAP PRIMER	
FD-2	FLOOR DRAIN	ZURN	ZN45H	WATTS	FD-100-FC	MIFAB	F1000-C	1/2"	-	3*
	PRIMER CONNECTIO	N.		ST IRON BODY WITH AD						
FS-I	FLOOR SINK	ZURN	FD2370-PV2-T	WATTS	FS-56-3G-DS	JR SMITH	305-13	-	-	2*
	14 X 14 X 8 DEEP	fvc and square slo	JITED MEDIOM DO	ITY 3/4 GRATE, AND AN	TPSPLASH INTERI	OR BUTTOM DUME STR	:AINEK.			
L-I	LAVATORY	KOHLER	K-286I-O	AMERICAN STANDARD	0355.012	ZURN	Z5834			
	FAUCET	SYMMONS	SLC-6000	CHICAGO FAUCETS	3500	AMERICAN STANDARD	1340.105			
	TRAP	McGUIRE	8902	DEARBORN BRASS	702-1	KOHLER	K-8999			2*
	MOUNTED METEREL SUPPLY KIT SHALL SHALL BE 3/8" IPS.	) FAUCET SHALL BE ( INCLUDE CHROME PLA P-TRAP SHALL BE CH	CHROME FINISH, AI ATED BRASS STOF IROME PLATED CA	BRASS CRAFT  VITH A WHITE FINISH, HA  NID PROVIDED WITH MIXII PS WITH THREADED CON  AST BRASS BODY WITH  RATURE LIMITING DEVICE	NG VALVE, WITH: INECTIONS, FULL CLEANOUT, CAS	3/8" COPPER SUPPLY T TURN BRASS STEM, RE T BRASS ELBOW AND (	UBE INLETS, AND DUCER, AND FLAM CAST BRASS SLIP	PROVIDED WITH NGE. INLET SHAL	AN AERATOR. L BE 3/8" IPS.	RIGID OUTLET
P-I				LT, SINGLE PHASE. PROV	/IDE PUMP WITH I	MOUNTING BRACKET, TI	MER, AQUASTAT	AND DISCONNEC	CT, DISCONNECT	WIRING
SI-IB-I	SHOWER/BATHTUB	AQUATIC	1603TSC							
	VALVE AND HEAD	SYMMONS	S-96-2	DELTA	TI3H232/RI0000UNWS	MOEN	8389	V2"	V/2°	
				TH CAROLINA BUILDING	CODE,			<b>T</b>		
TP-I	TRAP PRIMER	MIFAB	MR-500		1/07 1/41 = 1:5= :	AND OUT IT COME IT IS	DE EELAALE (100 )	V2°	- TO 4 F 225 =	
	PRESSURE DROP AG	CIIVA (ED) BRASS TRA	P SEAL PRIMER, W	VITH INLET OPENING OF	VZ MALE N.P.T. A	AND OUTLET OPENING (	JE FEMALE 1/2" N.F	r.i. Serves up	10 6 FLOOR [	
		I	14 0070	тото	CST744SL	AMERICAN STANDARD	215AA.004.020			4"
WC-1	WATER CLOSET	KOHLER	K-3979							
WC-1	SEAT	BEMIS	1655SSC	KOHLER	K-4670-C-0	сникон				
WC-1	SEAT SUPPLY	BEMIS BRASSCRAFT	1655SSC CS40IDLC	KOHLER KOHLER A WHITE FINISH AND A	K-7638	McGUIRE	185 OLISHED CHROME	1/2" E TRIP LEVER, SE	- EAT SHALL BE	EXTRA



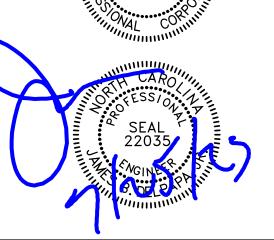


TLANTEC

3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111



22170



Cindy's Kitchen Project:

Project No: 21091

Location: Caratoke Hwy. Currituck, NC

Plumbing Plan

July 26, 2023

As indicated

PLUMBING FIXTURE

SCHEDULE AND

**DETAILS** 

The designer shall not be responsible for any error, omission, defect or deficiency in the contract documents ("error") prepared by the designer or its consultants which in any way impacts the

schedule of the project, results in a lack of coordination among

project, unless: (i) designer is promptly notified of such error, in any event within 14 days of the date such error was discovered

or could reasonably have been discovered; and (ii) designer is

given opportunity at the time of discovery to address such error, and, if appropriate, take such steps as are necessary to correct and resolve it. Failure to comply with the provisions of this paragraph shall constitute a waiver of any claim for damages, or

a right to offset against designer by owner, contractor or others and shall in no event cause or allow a reduction in the fees otherwise due designer for services provided on the project.

or which in any other way causes any damage or loss to the owner

the contract documents, delays the completion of the project

contractor, subcontractors, or other entity involved in the

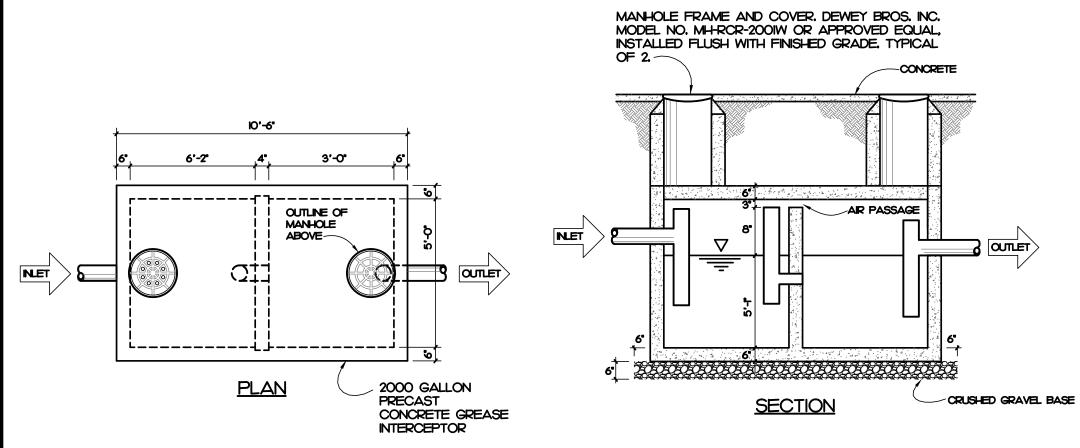
I. CONCRETE: 28 DAY \*c=4500 psi.

- 2. REBAR: ASTM A-615 GRADE 60.
- 3. MECH: ASTM A-185 GRADE 65.
- 4. DESIGN: ACI318-83 BUILDING CODE, ASTM C-857 MINIMUM STRUCTURAL DESIGN, LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES.
- 5. LOADS: H-20 TRUCK WHEEL WITH 30% IMPACT PER AASHTO.
- 6. FILL WITH CLEAN WATER PRIOR TO START UP OF
- 7. CONTRACTOR TO SUPPLY AND INSTALL ALL PIPING AND SANITARY TEES, 4 CLEAN OUTS FOR CLEANING TOWARD TRAP, AND DOW CLEANING AWAY FROM TRAP ON BOTH THE INLET AND OUTLET.
- 8. GRAY WATER ONLY, BLACK WATER SHALL BE CARRIED BY SEPERATE SEWER.
- 9. MANHOLES SHALL BE SEALED AIR TIGHT.

Revisions: Description

> Drawn: DRD Reviewed: JBD

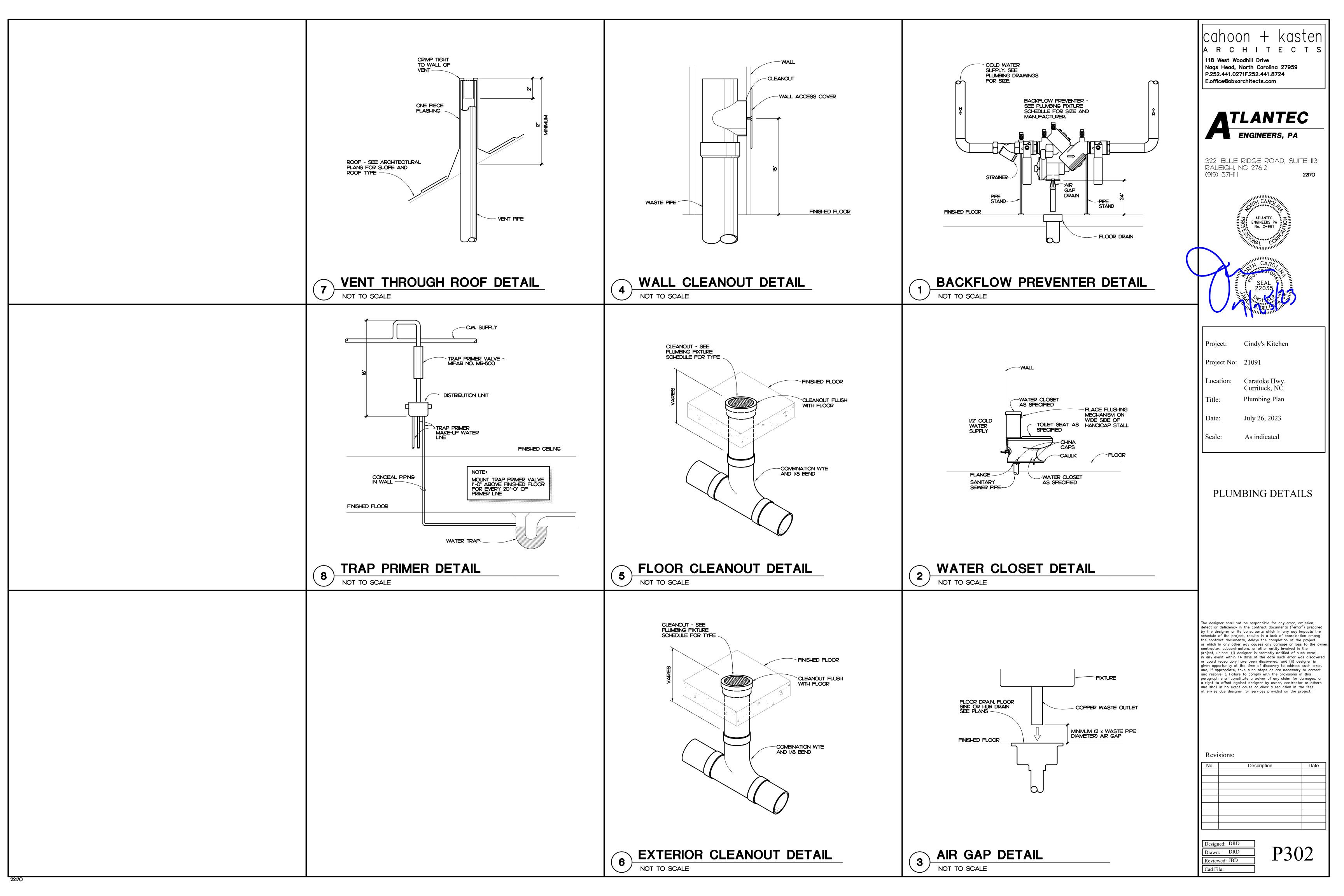
P301 Cad File:

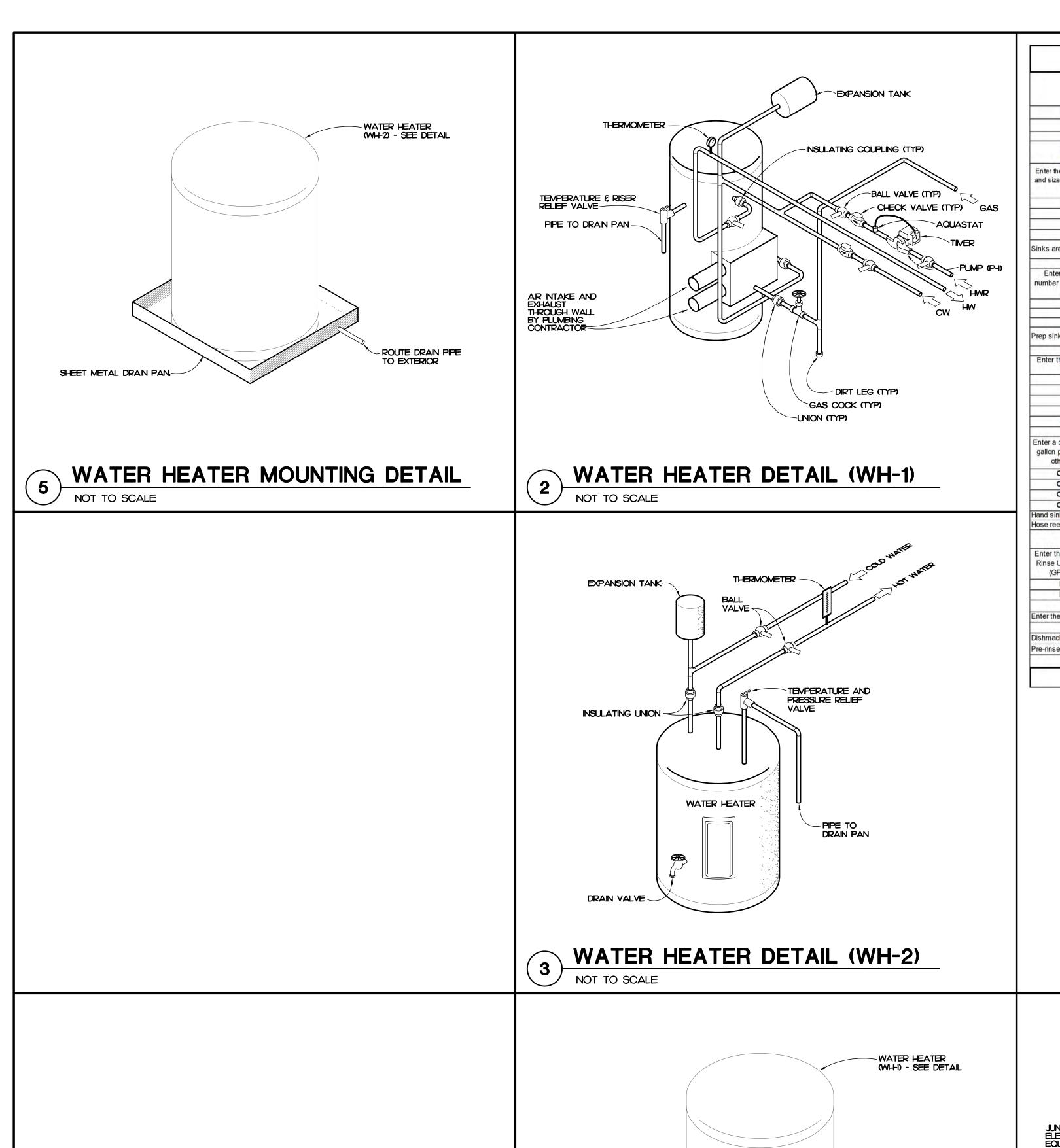


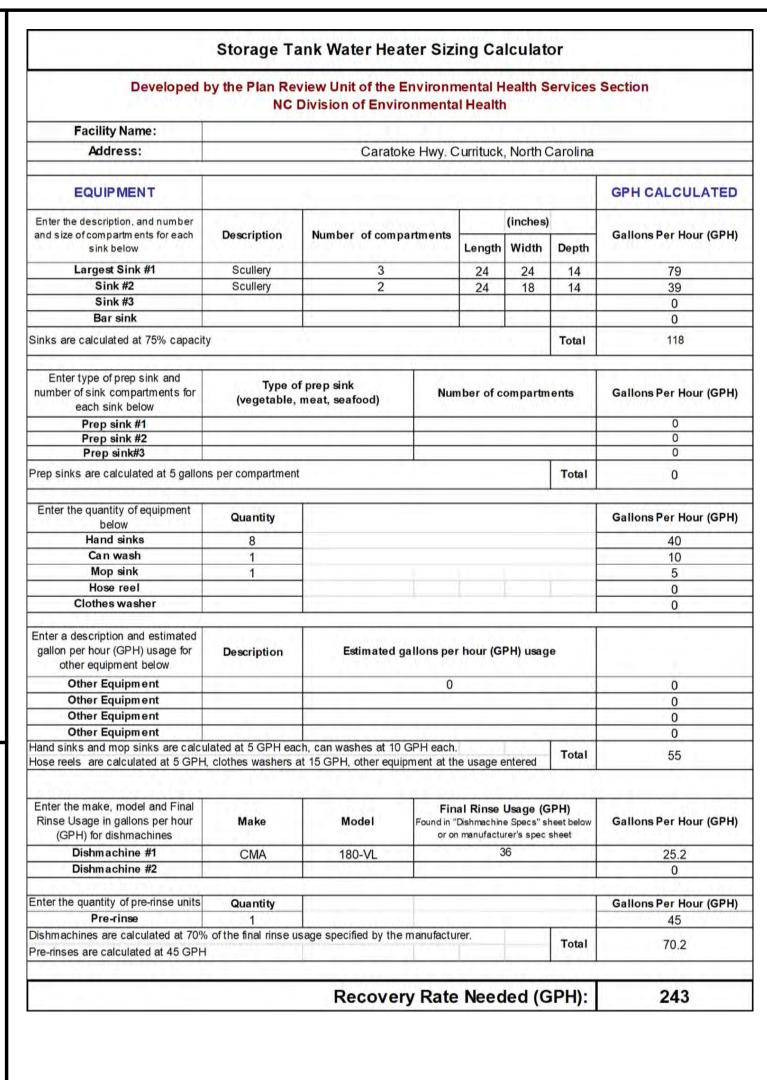
GREASE INTERCEPTOR DETAIL NOT TO SCALE

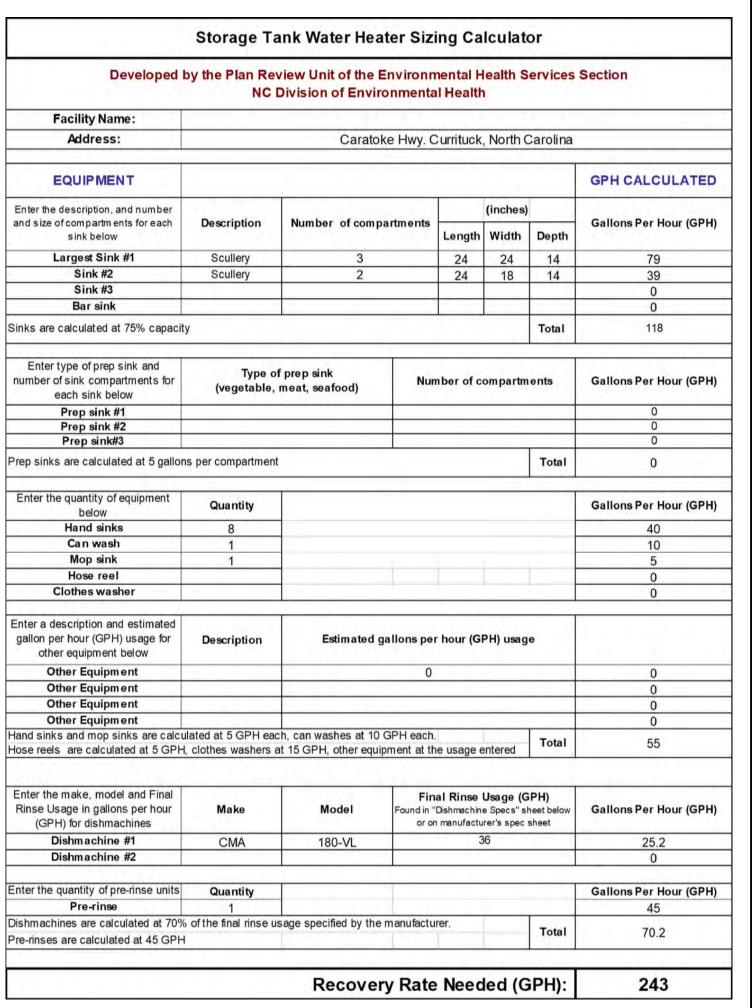
ELECTRICAL POWER

**GAS FIRED** 









#### PLUMBING GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
- 2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE PLUMBING CONTRACTOR.
- 3, ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN, THE PLUMBING
- CONTRACTOR SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS, 4. THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING
- THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS, FOR DIMENSIONS

MATERIALS AND INSTALLATION, ALL DISCREPANCIES OR INTERFERENCE'S SHALL BE BROUGHT TO THE

- REFER TO THE ARCHITECTURAL PLANS.
- THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK, THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR AND FINISHING BY GENERAL CONTRACTOR,
- WATER PIPING BELOW GRADE AND ABOVE GRADE SHALL BE PEX (NO JOINTS BELOW GRADE), SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATICALLY TESTED FOR ONE HOUR AT 150 PSI, TEST TO COMPLY WITH ALL EPA STANDARDS, THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
- 8. ALL PIPE, FITTINGS, FIXTURES, AND SOLDER TO BE LEAD FREE.
- WATER PIPING LOCATED ABOVE CEILINGS AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE OF CEILING INSULATION (UNDERSIDE) AND WALL INSULATION (INSIDE).
- 10. ALL COLD AND HOT WATER PIPING SHALL BE INSULATED, INSULATE WASTE PIPING AS DESIGNATED ON PLUMBING DRAWINGS. INSULATION SHALL BE I' FIBERGLASS, EXPOSED PIPING TO BE WRAPPED WITH ALUMINUM JACKET.
- II. DO NOT SUPPORT PIPING FROM BAR JOIST BRIDGING AND/OR ROOF DECK.
- 12. WATER SHUT OFF VALVES ABOVE FINISHED CEILING ARE TO BE FREE FROM OBSTRUCTIONS SUCH AS DUCTWORK, LIGHTS, WIRING AND OTHER PIPING SO AS TO PROVIDE EASY ACCESS, MOUNT NO MORE THAN 2'-0" ABOVE FINISHED CEILING.
- 13. IF THE WATER PRESSURE EXCEEDS 80 PSI A PRESSURE REDUCING VALVE SHALL BE INSTALLED WHERE THE WATER ENTERS THE BUILDING.
- 14. PLUMBING CONTRACTOR SHALL PROVIDE A DIELECTRIC UNION WHEN CONNECTING DISSIMILAR MATERIAL,
- 15. WATER HEATERS SHALL HAVE AND EFFICIENCY MEETING REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE.
- 16. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL AND CONTROL CONNECTIONS TO THE EQUIPMENT FURNISHED UNDER HIS CONTRACT.
- 17. SANITARY SEWER AND VENT PIPING SHALL BE SCHEDULE 40 PVC. CELLULAR CORE (FOAM CORE) IS NOT ALLOWED. SANITARY SEWER AND VENT PIPING SHALL BE GAS AND AIR TIGHT.
- 18, THE PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION OF ANY WORK.
- 19. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS FOR WORK BY OTHERS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH WORK BY OTHERS AND AVOID ALL CONFLICTS.
- 20. LOCATIONS OF UTILITIES (WASTE AND WATER PIPING, ETC...) PROVIDED BY OTHERS, THAT ARE TO BE CONNECTED TO ARE ASSUMED, IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO
- 21. VERIFY THE LOCATION OF ALL EQUIPMENT SUPPLIED BY OTHERS.

VERIFY THESE LOCATIONS AND MAKE FINAL CONNECTIONS AS REQUIRED.

- 22, GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL INSTALLED IN ACCORDANCE WITH ALL CODES, THE PLUMBING CONTRACTOR TO MAKE FINAL CONNECTION TO ALL EQUIPMENT REQUIRING GAS AND COORDINATE THE GAS CONNECTION SIZE TO THE EQUIPMENT. PROVIDE UNDERGROUND MAGNETIC TRACING TAPE ON ALL UNDERGROUND GAS PIPING.
- 23. PROVIDE VACUUM BREAKERS ON ALL EQUIPMENT DIRECTLY CONNECTED TO THE WATER SYSTEM. 24, THE PLUMBING CONTRACTOR SHALL REFER TO THE KITCHEN EQUIPMENT COMPANY FOR EXACT DIMENSIONS AND LOCATIONS OF KITCHEN EQUIPMENT.
- 25. THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL PLUMBING CONNECTIONS TO THE KITCHEN
- 26, ALL VENT PIPING THROUGH THE ROOF SHALL BE A MINIMUM OF 15'-O" FROM ALL MAKE-UP AIR INLETS OR A MINIMUM OF 2'-0" ABOVE THE TOP OF ALL MAKE-UP AIR INLETS, VENTS THROUGH ROOF ARE TO BE ON REAR OF BUILDING.
- 27. SEE ARCHITECTURAL DRAWINGS FOR PLUMBING MINIMUM FACILITY CALCULATIONS.

EQUIPMENT, PROVIDING ALL PIPING, VALVES, ETC... FOR A COMPLETE JOB.

- 28, ALL INDIRECT WASTE IS TO BE PROVIDED WITH AN AIR GAP 2 TIMES THE SIZE OF THE WASTE INLET.
- 29. THE PLUMBING CONTRACTOR SHALL VERIFY BUILDING FLOOR ELEVATION IS ABOVE MANHOLE RIM ELEVATION OR PROVIDE A BACKWATER VALVE AS REQUIRED.
- 30. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR DEMOLITION AT NO COST TO THE
- 31. THE PLUMBING CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT.

#### PLUMBING NOTES, LEGEND, LOAD, AND DETAILS

118 West Woodhill Drive

Nags Head, North Carolina 27959

TLANTEC

3221 BLUE RIDGE ROAD, SUITE 113

ATLANTEC

ENGINEERS PA

No. C-961

Cindy's Kitchen

Caratoke Hwy

Currituck, NC

Plumbing Plan

July 26, 2023

As indicated

22170

P.252.441.0271F.252.441.8724

E.office@obxarchitects.com

RALEIGH, NC 27612

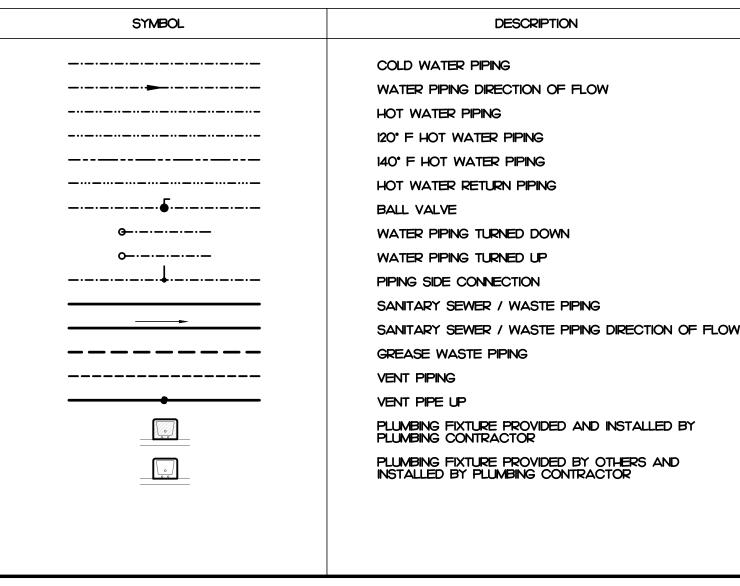
(919) 571-1111

Project:

Location:

Project No: 21091

#### PLUMBING SYMBOL LEGEND



WATER DEMAND GPM

34

SANITARY SEWER DEMAND FU

48.5

WATER DEMAND FU

66.8

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Revisions:

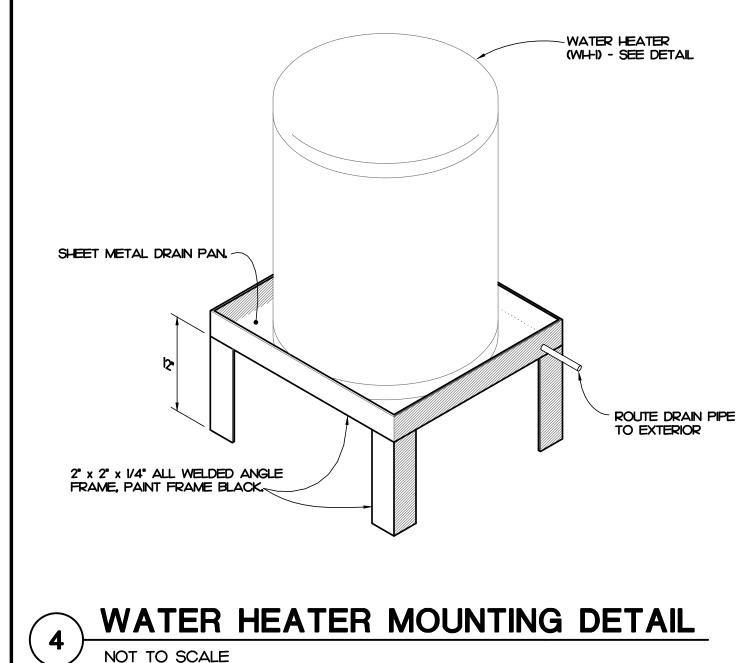
GAS MBH

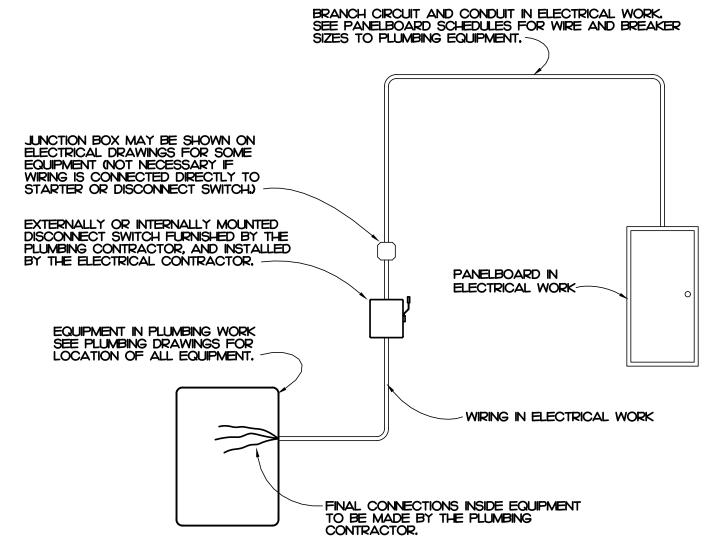
1154

No.	Description	Date

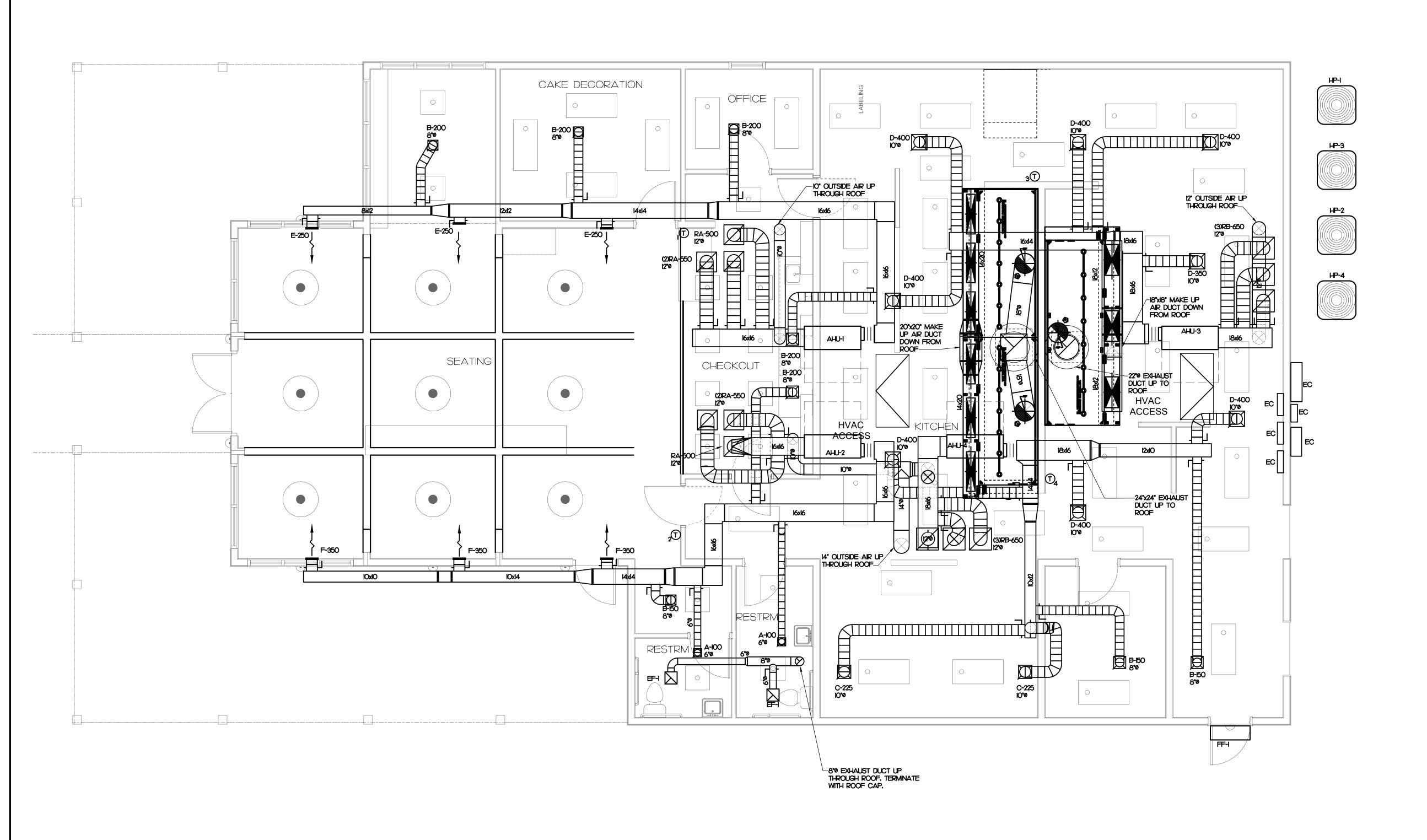
Drawn: DRD Reviewed: JBD Cad File:

P303





**ELECTRICAL WIRING DETAIL** NOT TO SCALE



Revisions:

Description Date

A R C H I T E C T S

ATLANTEC

3221 BLUE RIDGE ROAD, SUITE 113

Cindy's Kitchen

Currituck, NC

MECHANICAL

July 26, 2023

As indicated

MECHANICAL PLAN

FIRST FLOOR

The designer shall not be responsible for any error, omission, defect or deficiency in the contract documents ("error") prepared by the designer or its consultants which in any way impacts the schedule of the project, results in a lack of coordination among the contract documents, delays the completion of the project or which in any other way causes any damage or loss to the owner

a right to offset against designer by owner, contractor or others and shall in no event cause or allow a reduction in the fees otherwise due designer for services provided on the project.

contractor, subcontractors, or other entity involved in the project, unless: (i) designer is promptly notified of such error, in any event within 14 days of the date such error was discovered or could reasonably have been discovered; and (ii) designer is given opportunity at the time of discovery to address such error, and, if appropriate, take such steps as are necessary to correct and resolve it. Failure to comply with the provisions of this paragraph shall constitute a waiver of any claim for damages, or

ENGINEERS, PA

118 West Woodhill Drive

E.office**@**obxarchitects.com

RALEIGH, NC 27612

(919) 571-1111

Project:

Title:

Project No: 21091

Location: Caratoke Hwy.

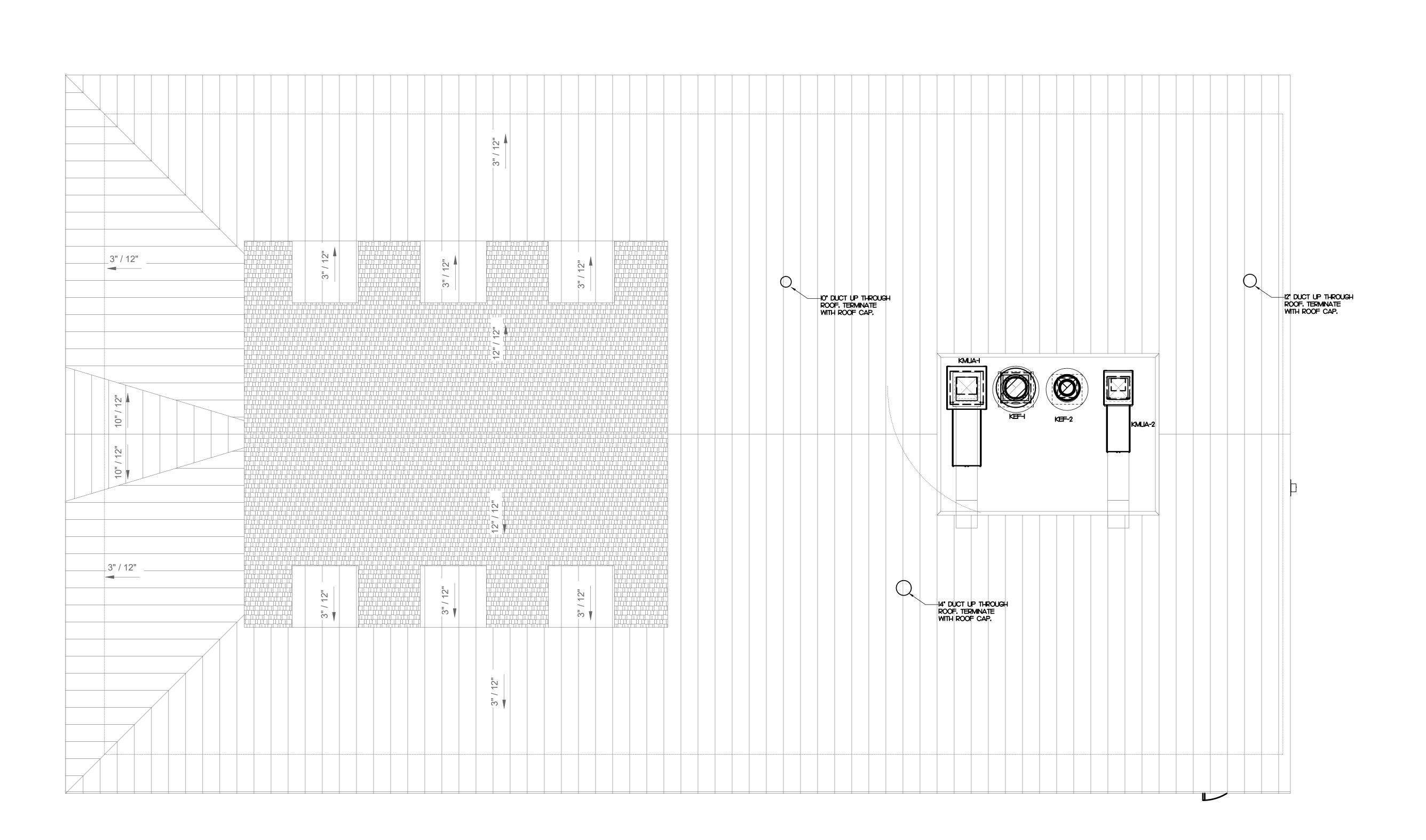
Nags Head, North Carolina 27959 P.252.441.0271F252.441.8724

Designed: JAD
Drawn: JAD
Reviewed: JBD

M101

MECHANICAL PLAN - FIRST FLOOR

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



MECHANICAL PLAN - ROOF PLAN

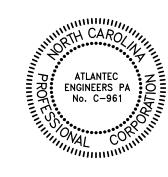
SCALE: 1/4" - 1'-0"

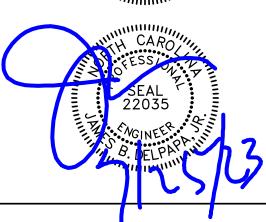
Cahoon + kasten A R C H I T E C T S 118 West Woodhill Drive

Nags Head, North Carolina 27959 P.252.441.0271F252.441.8724 E.office@obxarchitects.com



3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111 **22170** 





Project: Cindy's Kitchen

Project No: 21091

Location: Caratoke Hwy.

Currituck, NC
Title: MECHANICAL

Date: July 26, 2023

ale: As indicated

MECHANICAL ROOF PLAN

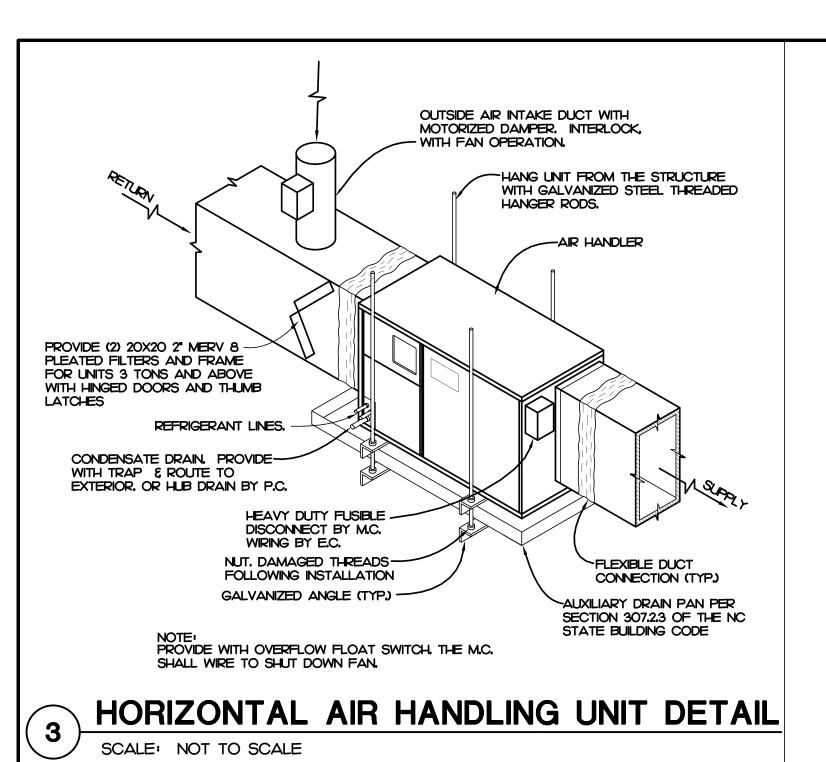
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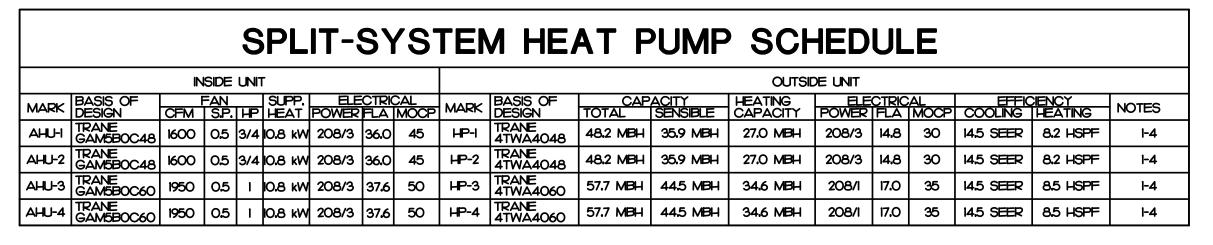
Revisions:

No.	Description	Date

Designed: JAD
Drawn: JAD
Reviewed: JBD

M102





- I. PROVIDE WITH FUSIBLE DISCONNECT ON INDOOR AND OUTDOOR UNITS. 2. PROVIDE WITH PROGRAMMABLE THERMOSTAT.
- 3. SEE OUTSIDE AIR SUMMARY FOR OUTSIDE AIR INTAKE FLOW SETTINGS.
- 4. PROVIDE WITH SUPPORT FROM STRUCTURE.

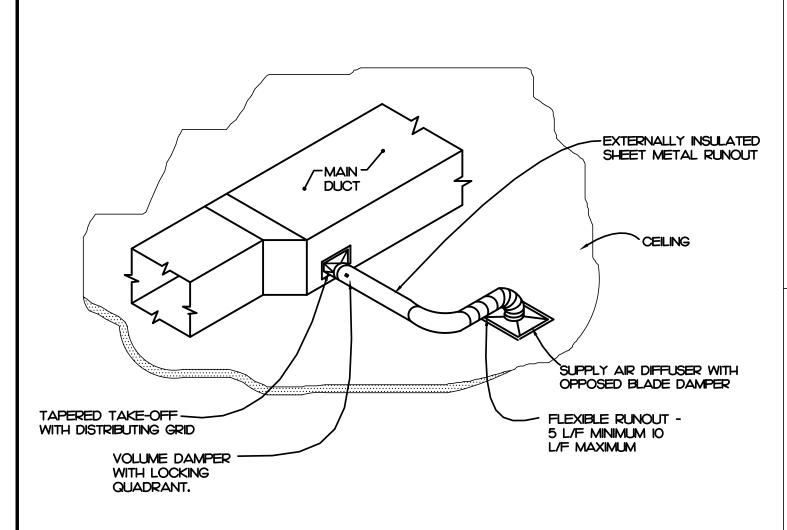
# SQUARE TO - ROUND CABINET SECURE TO PREVENT

## HARD CEILING CABINET FAN DETAIL

PROVIDE 20GA SHEET METAL

ANGLE SUPPORTED FROM

STRUCTURE AS REQUIRED. -



HARD	CEILING	DIFFUSER	DETAIL

MECHANICAL SYSTEM EQUIPMENT METHOD	MS, SERVICE SYSTEMS AND OF COMPLIANCE
PRESCRIPTIVE 🛛	ENERGY COST BUDGET [
THERMAL ZONE 4A	
EXTERIOR DESIGN CO winter dry bulb: 16 summer dry bulb: 93 relative humidity: 4	9= 3•=
INTERIOR DESIGN CO winter dry bulb: 70 summer dry bulb: 70 relative humidity: 50	O*F 4*F
	DAD: BLOCK LOAD = 92.3 MBH DAD: BLOCK LOAD = 221.5 MBH (18.5 TONS)
MECHANICAL SPACIN Unitary:	IG CONDITIONING SYSTEM
description of u heating efficienc cooling efficienc heat output of u cooling output o	cy; ( cy; SEE SCHEDULES ON SHEET(S)THIS SHEET unit; (
Boiler: NA	
•	acity. If oversized state reason.
Chiller: NA total chiller cap	acity. If oversized state reason.
LIST EQUIPMENT EFF	ICIENCIES: SEE SCHEDULES ON SHEET(S) THIS SHEET
EQUIPMENT SCHEDUL	ES WITH MOTORS (MECHANICAL SYSTEMS)
motor horsepower: number of phases: minimum efficiency: motor type: # of poles:	SEE SCHEDULES ON SHEET(S) THIS SHEET
DESIGNER STATEMEN	π
To the best of my knowle systems, service systems o	dee and belief, the design of this building complies with the mechanical adjustment requirements of the North Carolina State Energy Code,
SIGNED:	<u> </u>
	1
NAME: <u>James B. D</u>	elPapa, Jr., PE

		F	AN SC	HE	DU	LE			
MARK	BASIS OF DESIGN	SERVICE	TYPE	CFM	RPM	HP/AMPS	S.P.	POWER	NOTES
EF-I	COOK GC-140	BATHROOMS	CABINET FAN	105	1500	67 Watts	0.25	120/1	I-3
FF-I	MARS STD236-IU	BACK DOOR	AIR CURTAIN	1379	1750	1/2 HP	-	120/1	1,4

I. PROVIDE WITH DISCONNECT SWITCH.
2. PROVIDE WITH BACKDRAFT DAMPER. 3. CONTROL VIA LIGHT SWITCH BY E.C. 4. PROVIDE WITH AUTOMATIC DOOR SWITCH.

TITLE: Professional Engineer

### **BUILDING PRESSURIZATION SUMMARY**

EXHAUST: MAKE-UP: KEF-I: 4466 CFM KMAU-I: 3572 CFM KEF-2: 2800 CFM KMAU-2: 2240 CFM

TOTAL EXHAUST: 7266 CFM TOTAL MAKE UP: 5812 CFM

OUTSIDE AIR: AHUH: 400 CFM AHU-2: 400 CFM AHU-3: 475 CFM AHU-4: 475 CFM TOTAL OUTSIDE AIR: 1750 CFM

BUILDING IS POSITIVE BY 296 CFM.

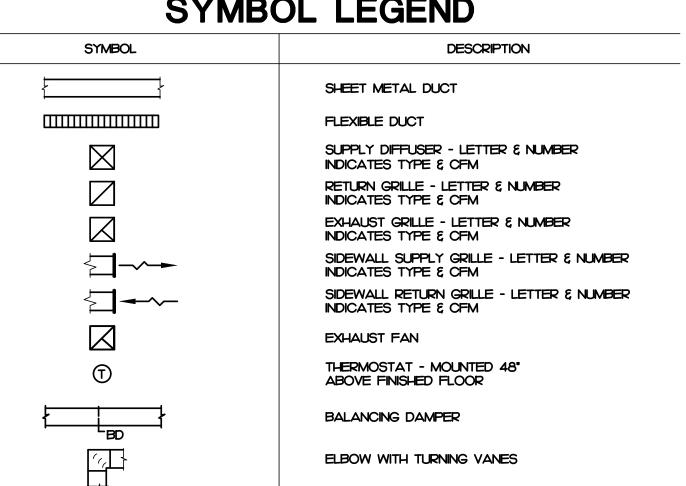
MARK	BASIS OF DESIGN	SERVICE	TYPE	MAX. CFM	FACE SIZE	NECK SIZE	NOTES
Α	PRICE SMD	SUPPLY	SURFACE MOUNT	100	8X8	6 <b>"</b> 0	I-3,6
В	PRICE SMD	SUPPLY	SURFACE MOUNT	200	IOXIO	8*ø	I-3,6
С	PRICE SMD	SUPPLY	SURFACE MOUNT	300	12X12	10 <b>.</b> 0	I-3
D	PRICE SMD	SUPPLY	SURFACE MOUNT	400	14X14	10.a	I-3,6
E	PRICE 510	SUPPLY	SURFACE MOUNT	250	12X7	IOX5	5
F	PRICE 540	SUPPLY	SURFACE MOUNT	350	14X8	10 <b>.</b> 0	1-5
RA	PRICE 530	RETURN	SURFACE MOUNT	550	18X18	16X16	I-3
RB	PRICE 530	RETURN	LOUVERED LAY-IN	650	20X20	18X18	I-3
RC	PRICE 530	RETURN	SURFACE MOUNT	1000	18X22	16X2O	I-3,6

- 5. FRAME FOR SURFACE MOUNTING.

#### **GENERAL NOTES**

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES
- 2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR
- 3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN, THE M.C. SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS.
- 4. THE MECHANICAL PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCES SHALL BE BROUGHT TO THE
- 5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
- THE M.C. SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS, INTERLOCKS, CONTROL WIRING. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING, CONDUIT FROM THE DISCONNECT TO M.C. EQUIPMENT. THE M.C. SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTION TO HIS EQUIPMENT.
- 7. INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AT ALL AIR HANDLING UNITS.
- 8. INSTALL TURNING VANIES IN SUPPLY DUCTS AT ELBOWS. PROVIDE BALANCING AND SPLITTER DAMPERS WHERE SHOWN AND AS REQUIRED FOR SYSTEM BALANCING.
- 9. ALL THERMOSTATS, WIRING AND CONDUIT ARE TO BE FURNISHED BY THE M.C. MOUNT THERMOSTATS 4'-0" ABOVE THE FLOOR, UNLESS OTHERWISE NOTED.
- 10. THE M.C. SHALL INSURE THAT ALL MECHANICAL EQUIPMENT INSTALLED UNDER HIS CONTRACT SHALL OPERATE FREE OF OBJECTIONABLE NOISE AND VIBRATION.
- THE M.C. SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK, HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
- 12. FLEXIBLE DUCT RUNOUTS SHALL BE A MAXIMUM OF 14'-0'.
- 13. ALL FLEXIBLE DUCT RUNOUTS SHALL INCLUDE INSULATED DAMPERED BOOTS AT THE POINT OF CONNECTION WITH RECTANGULAR DUCT. PROVIDE ALL FLEXIBLE DUCTWORK WITH FOIL-BACKED, EXTERNALLY WRAPPED INSULATION FOR A MINIMUM OF R-8.
- 14. ALL DUCTWORK SIZES SHOWN ARE ACTUAL SHEET METAL DIMENSIONS. EXTERNALLY WRAP ALL DUCT WITH 3" FOIL-BACKED INSULATION FOR A MINIMUM OF R-8..
- 15. MECHANICAL CONTRACTOR SHALL WORK WITH TEST AND BALANCE CONTRACTOR TO REMEDY ANY DIFFERENCES TO INCLUDE FAN DRIVE CHANGES, INSTALLATION OF DAMPERS OR OTHER MINOR DUCT MODIFICATIONS TO PROVIDE AIRFLOW TO WITHIN +/- IO% OF THE DESIGN VALUES LISTED ON THESE PLANS.
- 16. CONTRACTOR SHALL PROVIDE TESTING OF ALL FIRE DAMPERS PRIOR TO SUBSTANTIAL COMPLETION. ENGINEER SHALL WITNESS TESTING OF FIRE DAMPER BY CONTRACTOR, CONTRACTOR SHALL SHUT ALL DAMPERS AND REOPEN TO ENSURE ALL DAMPERS ARE CAPABLE OF CLOSING, CONTRACTOR SHALL PROVIDE ACCESS DOORS AS REQUIRED TO ACCESS DAMPER FOR TESTING.
- 17. THE AIR HANDLING UNIT SHALL OPERATE AT ALL TIMES DURING OCCUPIED HOURS.
- 18, THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF JOB.
- 19. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF DUCT SHOP DRAWINGS FOR
- 20. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A BALANCE REPORT BY A CERTIFIED TEST AND BALANCE COMPANY.
- 21. PROVIDE PERMIT LABEL ENGRAVED PLASTIC LAMINATE MECHANICALLY FASTENED TO OUTDOOR UNITS.
- 22, LABEL CEILING GRID WHERE EQUIPMENT IS LOCATED ABOVE LAY-IN CEILING, WITH EQUIPMENT IDENTIFIER. ALSO LABEL ALL TEMPERATURE SENSORS AND THERMOSTATS WITH EQUIPMENT IDENTIFIER.

#### SYMBOL LEGEND



**OUTSIDE AIR SUMMARY** 

DINING: 613 SQFT. X 0.18 CFM/SQFT. + 7.5 CFM/PERSON X 32 PERSONS = 350.34 CFM

OFFICE: 227 SQFT. X 0.06 CFM/SQFT. + 5 CFM/PERSON X 5 PERSONS = 38.62 CFM

KITCHEN: 1,930 SQFT. X 0.7 CFM/SQFT. = 1,351 CFM

TOTAL REQUIRED = 1,739.96 CFM

TOTAL PROVIDED = 1,750 CFM

REQUIRED:

PROVIDED:

AHUH: 400 CFM

AHU-2: 400 CFM

AHU-3: 475 CFM

AHU-4: 475 CFM

RCHITECTS 118 West Woodhill Drive Nags Head, North Carolina 27959 P.252.441.0271F.252.441.8724

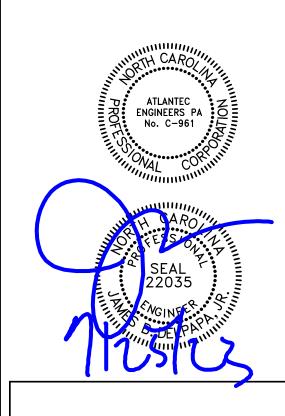
E.office@obxarchitects.com

(919) 571-1111

Project:

TLANTEC

3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612



Project No: 21091 Location: Caratoke Hwy. Currituck, NC **MECHANICAL** Title:

Cindy's Kitchen

As indicated Scale:

MECHANICAL NOTES, LEGENDS, AND DETAILS

July 26, 2023

ne designer shall not be responsible for any error, omission, efect or deficiency in the contract documents ("error") prepared y the designer or its consultants which in any way impacts the schedule of the project, results in a lack of coordination among he contract documents, delays the completion of the project or which in any other way causes any damage or loss to the owner ontractor, subcontractors, or other entity involved in the roject, unless: (i) designer is promptly notified of such error, n any event within 14 days of the date such error was discovered r could reasonably have been discovered; and (ii) designer is given opportunity at the time of discovery to address such error, nd, if appropriate, take such steps as are necessary to correct and resolve it. Failure to comply with the provisions of this paragraph shall constitute a waiver of any claim for damages, or right to offset against designer by owner, contractor or others nd shall in no event cause or allow a reduction in the fees

otherwise due designer for services provided on the project.

Revisions:

Description Date

Designed: JAD

Drawn: JAD Reviewed: JBD

M201

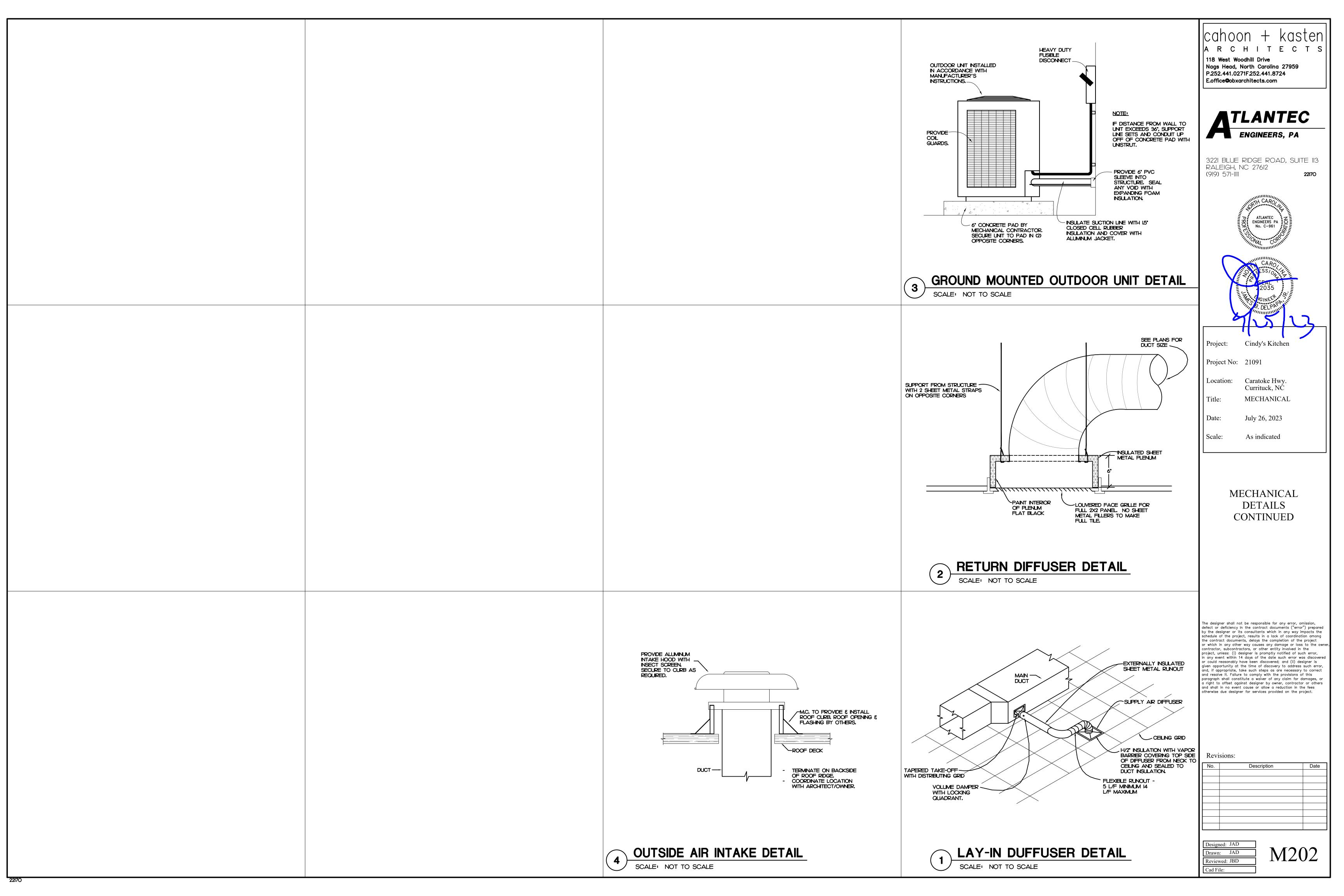
## GRILLE & DIFFUSER SCHEDULE

1. COORDINATE FINISH WITH ARCHITECT.
2. GRILLE TO HAVE FULLY LOUVERED FACE.

3. PROVIDE WITH INSULATED SHEET METAL PLENUM.

4. PROVIDE WITH EXTRACTOR AND FRAME FOR DUCT MOUNTING.

6. PROVIDE WITH PLASTER FRAME FOR SURFACE MOUNTING.



FOR QUESTIONS, CALL THE Eastern North Carolina PHONE: (919) 825-3566 EMAIL: reg36@captiveaire.com

PATENT NUMBERS AC-PSP (UNITED STATES) - US PATENT 7963830 B2. AC-PSP WALL (CANADA) - CA PATENT 2820509. AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

HOOD INFORMATION - JOB#5615559

CAPTRATE SOLO FILTER | 8

CAPTRATE SOLO FILTER | 8

CAPTRATE SOLO FILTER 10

HOOD INFORMATION

	<u> </u>		OI WINIZI I I OIV	000	<del>, , , , , , , , , , , , , , , , , , , </del>																		
				"		MAX									LENUM			TOTAL			CONFIG	SWI	TCHES
-   ⊦	100D	TAG	MODEL	MANUFACTURER	LENGTH	COOKING	TYPE	APPLIANCE	DESIGN	TOTAL			F	RISERC	(2			SUPPLY	HOOD	END TO			
	ND	IAG	MODEL	MAINUF ACTURER	LENGIA	TEMP	''''	DUTY	CFM/FT	EXH CFM	\./IDTL	I ENG	HEIGHT	DIA	CFM	VEL	SP	CFM	CONSTRUCTION	END	R□W	QUANTITY	LOCATI
						I LINI					WIDIII		ILIGITI	חזת	CIT	V L L	31	CIM		LIND			
	.		5424	CAPTIVEAIRE	11′ 2″	600	٠,	1154777	200	2233			4"	18"	2233	1264	-0.710"	1706	430 SS	LEFT	ALONE		
	1		ND-2-PSP-F	CAPTIVEAIRE	11. 5.	DEG	1	HEAVY	200	2233			4 .	18"	2233	1264	-0.710	1786	WHERE EXPOSED	LEFI	ALUNE		
	2		5424	CAPTIVEAIRE	11′ 2″	600	т	HEAVY	200	2233			4"	18"	2233	1264	-0.710"	1786	430 SS	RIGHT	ALDNE		
	۲		ND-2-PSP-F	CAPTIVEAIRE	11 2	DEG	1	HEAVI	200	2233			4	10	2233	1264	-0.710	1/86	WHERE EXPOSED	KIUNI	ALLINE		
	_		5424	CAPTIVEAIRE	14′ 0″	600		LIEALAY	200	2800			4"	18"	2000	1504	-1.054"	2240	430 SS	ALONE	AL DND		
	3		ND-2-PSP-F	CAPITYEAIRE	14 0"	DEG	1	HEAVY	200	2800			4"	18.	2800	1584	-1,054	2240	WHERE EXPOSED	ALUNE	ALUNE		
			•																				

RECESSED ROUND

RECESSED ROUND

RECESSED ROUND

1' LAYER OF INSULATION FACTORY INSTALLED IN INTERNAL BACK STANDOFF. MEETS 0 INCH REQUIREMENTS FOR CLEARANCE TO COMBUSTIBLE SURFACES.

- 15'-0.00" OVERALL LENGTH -

PLAN VIEW — HOOD #3

14' 0.00" LONG 5424ND-2-PSP-F

NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.

LOCATION

SIZE

WALL MNT 12"x66"x24"

RIGHT 12"x54"x24"

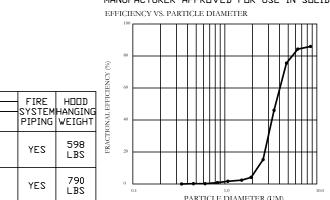
RIGHT 12"x54"x24"

TYPE

TANK FS

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER THE CAPTRATE GREASE-STOP SOLD FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY. FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED. GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE. THE CAPTRATE GREASE-STOP SOLD WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.



_	PRESSURE I	OROP V	S. FLOW RATE	
	3.00			
	2.50		/	
PRESSURE DROP (n. H20)	2.00		/_	
E DROP	1.50			
RESSURI	1.00		/	
-	0.50	$\nearrow$		
	0.00	50	0 1	000 150
10.0		FI	OW RATE (CF	M)

PARTICLE DIAMETER (UM) YES 282 CAPTRATE FILTERS ARE NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC). CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:

HOOL	0PT	YONS
HOOD	TAG	OPTION
		FIELD WRAPPER 18.00" HIGH FRONT.
		BACKSPLASH 80.00' HIGH X 281.00' LONG 430 SS VERTICAL.
,		LEFT SIDESPLASH 80.00" HIGH X 54.00" LONG 430 SS VERTICAL.
'		LEFT END STANDOFF (FINISHED) 1' WIDE 54' LONG INSULATED.
		INSULATION FOR BACK OF HOOD.
		LEFT WALL AS END PANEL.
		FIELD WRAPPER 18.00° HIGH FRONT, RIGHT.
ا م		INSULATION FOR BACK OF HOOD.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 80.00' HIGH X 180.00' LDNG 430 SS VERTICAL.
		INSULATION FOR BACK OF HOOD

EFFICIENCY @ 7 MICRONS

85% SEE FILTER

QTY HEIGHT LENGTH

RIGHT VERTICAL END PANEL 27' TOP WIDTH, 21' BOTTOM WIDTH, 80' HIGH INSULATED 430 VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.

RF	ORAT	ED SU	PPLY .	PLENU	IM(S)		
D	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	WIDT

<u> F L'IVI</u>	UIVAI	<u> </u>	ГГЫІ.	<i>[ LLL IV C</i>								
HOOD					, ,			RISER(S)				
חחח	TAG	PDS	LENGTH	WIDTH	HEIGHT	TYPE	WIDTH	LENG	DIA	CFM	SP	
						MUA	8″	36"		595	0.159"	
1		Front	135″	14"	6"	MUA	8″	36"		595	0.159"	
						MUA	8″	36"		595	0.159"	
							MUA	8″	36"		595	0.159"
2		Front	146″	14"	6"	MUA	8″	36"		595	0.159"	
						MUA	8″	36"		595	0.159"	
				14"		MUA	12"	28"		746	0.180"	
3		Front	180"		6"	MUA	12"	28"		746	0.180"	
						MHA	12"	28"		746	0.180″	

WALL	-MOUNT	UTILITY	CABINET			
					UTILITY	CABINET(S
				FIRE	SYSTEM	

				OTILITY CARINETOS	)		
HOOD			FIF	RE SYSTEM	ELECTRICAL	SWITCHES	
ND HDDD	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY	WEIGHT
1	WALL MNT 12"x66"x24" TANK FS		4.0/4.0/4.0/4.0			500.00 L1	

GREASE DUCT & CHIMNEY SPECIFICATIONS

SIZE

4.0/4.0/4.0/4.0

MDDEL #

DC\-5555

ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK, MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS, MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.

PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW"

QUANTITY

2 LIGHT

2 FAN

PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS DUTER SHELL

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS

LIQUID TIGHT

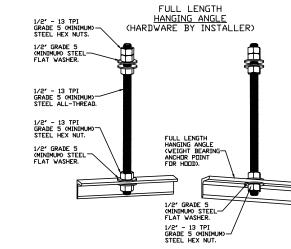
HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

#### HVAC DISTRIBUTION NOTE

HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD, PERFORATED DIFFUSERS ARE RECOMMENDED.

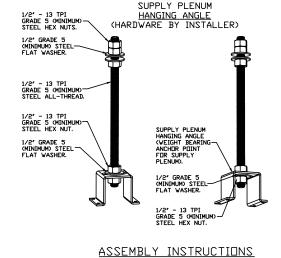
VERIFY CEILING HEIGHT	

	CUSTOMER APPRO	OVAL TO MANUFA	ACTURE:
	APPROVED AS NOTED		
	APPROVED WITH NO EXCEPTION TAKEN		
	REVISE AND RESUBMIT		
	SIGNATURE		
	YOUR TITLE	DATE	

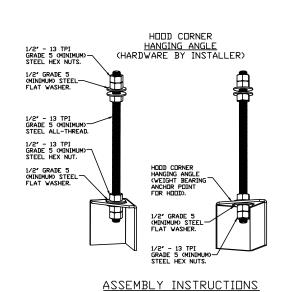


ASSEMBLY INSTRUCTIONS GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING (MINIMUM) STEFL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN, MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS, SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM

HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN, MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HODD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4' OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



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DRAWN

BY:

**DATE:** 8/25/2022

DWG.#:

5615559

SCALE: 3/8" = 1'-0"

**MASTER DRAWING** 

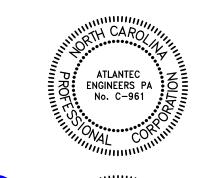
SHEET NO.

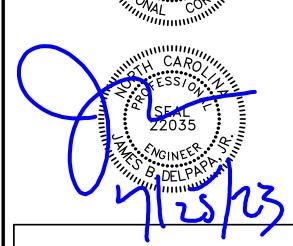
**REVISIONS** 





3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111





Project: Cindy's Kitchen Project No: 21091 Location: Caratoke Hwy. Currituck, NC **MECHANICAL** Title:

July 26, 2023 As indicated Scale:

Date:

#### MECHANICAL HOOD **DRAWINGS**

e designer shall not be responsible for any error, omission, defect or deficiency in the contract documents ("error") prepared by the designer or its consultants which in any way impacts the chedule of the project, results in a lack of coordination among he contract documents, delays the completion of the project or which in any other way causes any damage or loss to the owner contractor, subcontractors, or other entity involved in the roject, unless: (i) designer is promptly notified of such error, n any event within 14 days of the date such error was discovered r could reasonably have been discovered; and (ii) designer is given opportunity at the time of discovery to address such error, nd, if appropriate, take such steps as are necessary to correct and resolve it. Failure to comply with the provisions of this paragraph shall constitute a waiver of any claim for damages, or right to offset against designer by owner, contractor or others and shall in no event cause or allow a reduction in the fees

otherwise due designer for services provided on the project.

Revisions:

Date Description

M301

1' LAYER OF INSULATION FACTORY INSTALLED IN INTERNAL BACK STANDOFF. MEETS O INCH REQUIREMENTS FOR CLEARANCE TO COMBUSTIBLE SURFACES. 1' LAYER OF INSULATION FACTORY INSTALLED IN INTERNAL BACK STANDOFF. MEETS O INCH REQUIREMENTS FOR CLEARANCE TO COMBUSTIBLE SURFACES. 1' LAYER OF INSULATION FACTORY INSTALLED IN 1.00' END STANDOFF MEETS O' REQUIREMENTS CLEARANCE TO COMBUSTIBLE SURFACES. INSTALLER MUST CONFIRM HODD IS INSTALLED SUCH THAT THE SPECIFIED WALL, ACTING AS AN END PANEL, IS MATED TIGHT TO THE CORRECT END OF HODD TO ACHIEVE A REDUCED MINIMUM EXHAUST CFM LISTING. NON-COMPLIANCE WILL NULLIFY THE ETL LISTING, VOID THE MANUFACTURER'S WARRANTY, AND HOLD THE CONTRACTOR LIABLE FOR ANY AND ALL LOSSES, COSTS, AND EXPENSES RELATED TO THE NON-CONFORMANCE OF THE MANUFACTURER'S SPECIFIED INSTRUCTION. THE WALL ACTING AS AN END PANEL MUST EXTEND NO LESS THAN 20' FROM THE INTERSECTING WALL ON WHICH HODD IS MOUNTED AND MUST EXTEND NO LESS THAN 20' UNDER BOTTOM OF HOOD TO BE ELIGIBLE FOR REDUCED MINIMUM EXHAUST CFM LISTING. . 2"NDM./11' 2.00"DD. — 12'-2.00" DVERALL LENGTH —— - 23'-5.00" □VERALL LENGTH —

<u>PLAN VIEW - HOOD #1</u> 11' 2.00" LONG 5424ND-2-PSP-F

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH: BUILT IN COMPLIANCE WITH

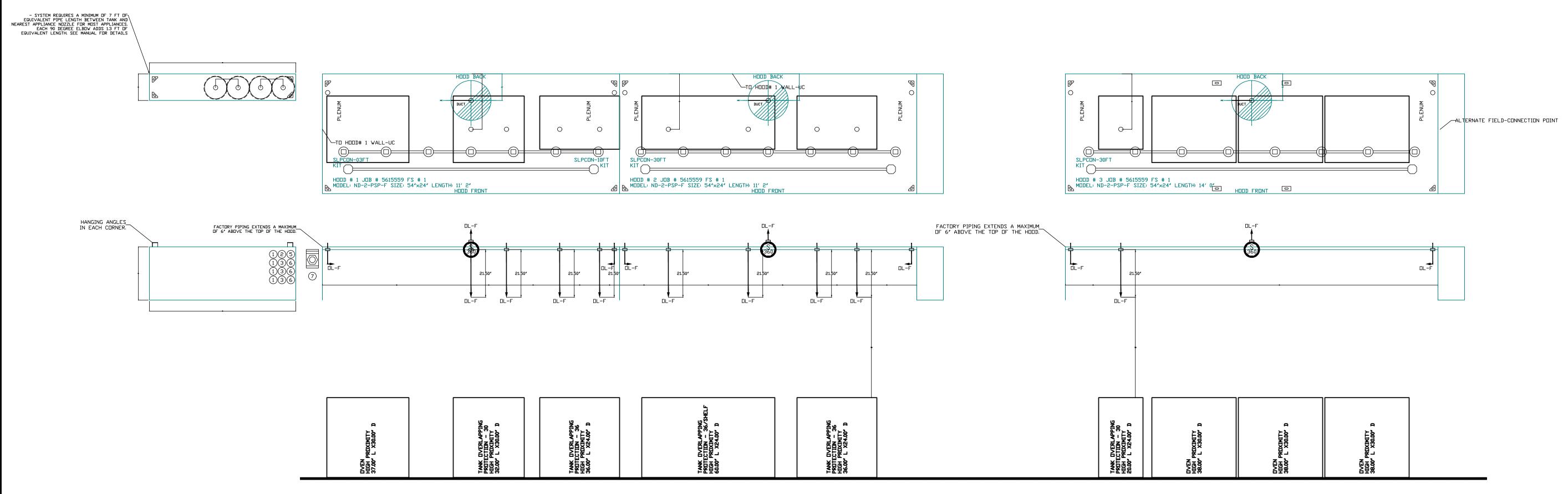


<u>PLAN VIEW - HOOD #2</u> 11' 2.00" LONG 5424ND-2-PSP-

E.T.L. LISTED 3054804-001

Drawn: JAD Reviewed: JBD Cad File:

# UL 300 HOOD FIRE SUPPRESSION SYSTEM



NOTES
- FIELD PIPE DROPS AS SHOWN
PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME
PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED
SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING,
SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- DL-F NDZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 5615559. JOB NAME: CINDYS KITCHEN - CURRITUCK, NC.

SYSTEM SIZE: TANK-SP-4-WC TOTAL FP REQUIRED: 77.
HODD # 1 11' 2.00" LONG × 54" WIDE × 24" HIGH.
RISER # 1 SIZE: 18" DIA.
HODD # 1 METAL BLOW-OFF CAPS INCLUDED.
HODD # 2 11' 2.00" LONG × 54" WIDE × 24" HIGH.
RISER # 1 SIZE: 18" DIA.
HODD # 2 METAL BLOW-OFF CAPS INCLUDED.

HOOD # 3 14' 0.00" LONG × 54" WIDE × 24" HIGH. RISER # 1 SIZE: 18" DIA. HOOD # 3 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH. - MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE

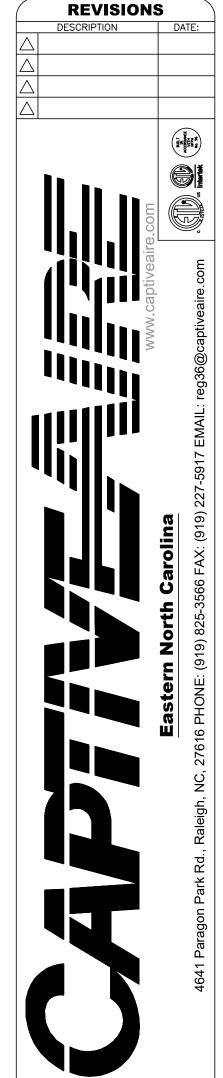
ANY ADDITIONAL DOWNSTREAM DETECTION. <u>LEGEND - FIRE CABINET TANK SYSTEM</u>

4 GALLON TANK.

PRIMARY ACTUATOR RELEASE. SECONDARY ACTUATOR RELEASE. PRESSURE SUPERVISION SWITCH. PRIMARY HOSE ASSEMBLY.

SECONDARY HOSE ASSEMBLY REMOTE MANUAL ACTUATION DEVICE.

> CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH: BUILT IN COMPLIANCE WITH NFPA #96 NSF UL 710 & ULC710 STANDARDS E.T.L. LISTED 3054804-001



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**DRAWN** 

BY:

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**DATE:** 8/25/2022

DWG.#:

SCALE:

3/8" = 1'-0"

MASTER DRAWING

SHEET NO.

5615559

E.office@obxarchitects.com TLANTEC ENGINEERS, PA 3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111 ENGINEERS PA No. C-961 Cindy's Kitchen Project: Project No: 21091 Caratoke Hwy. Currituck, NC **MECHANICAL** July 26, 2023 As indicated Scale:

118 West Woodhill Drive

Nags Head, North Carolina 27959 P.252.441.0271F.252.441.8724

MECHANICAL HOOD **DRAWINGS** (CONT.)

The designer shall not be responsible for any error, omission, defect or deficiency in the contract documents ("error") prepared by the designer or its consultants which in any way impacts the schedule of the project, results in a lack of coordination among the contract documents, delays the completion of the project or which in any other way causes any damage or loss to the owne contractor, subcontractors, or other entity involved in the project, unless: (i) designer is promptly notified of such error, in any event within 14 days of the date such error was discovered or could reasonably have been discovered; and (ii) designer is given opportunity at the time of discovery to address such error, and, if appropriate, take such steps as are necessary to correct and resolve it. Failure to comply with the provisions of this paragraph shall constitute a waiver of any claim for damages, or a right to offset against designer by owner, contractor or others and shall in no event cause or allow a reduction in the fees

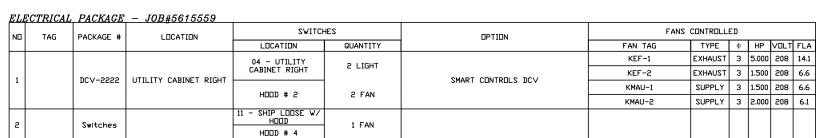
otherwise due designer for services provided on the project.

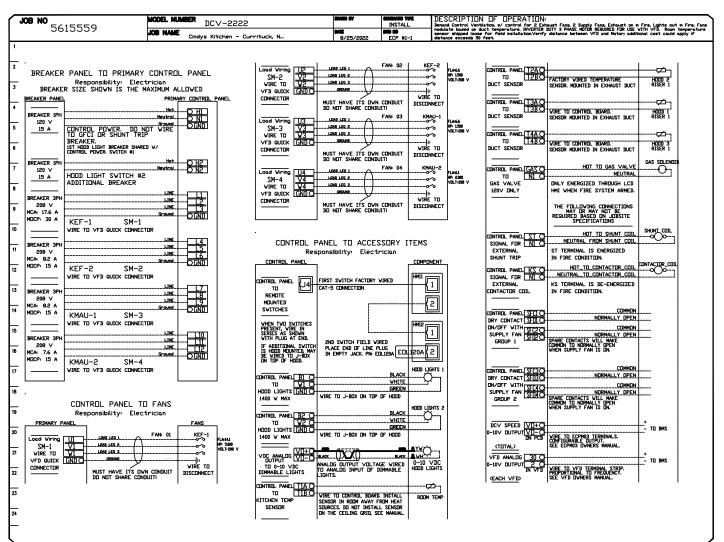
Revisions:

INO.	Description	Dale

Designed: JAD
Drawn: JAD Reviewed: JBD Cad File:

M302





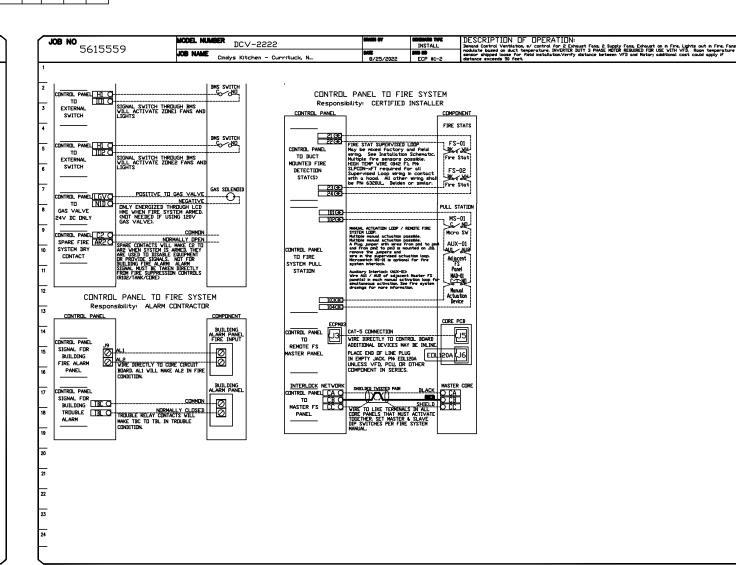
MODEL NUMBER DCV-2222

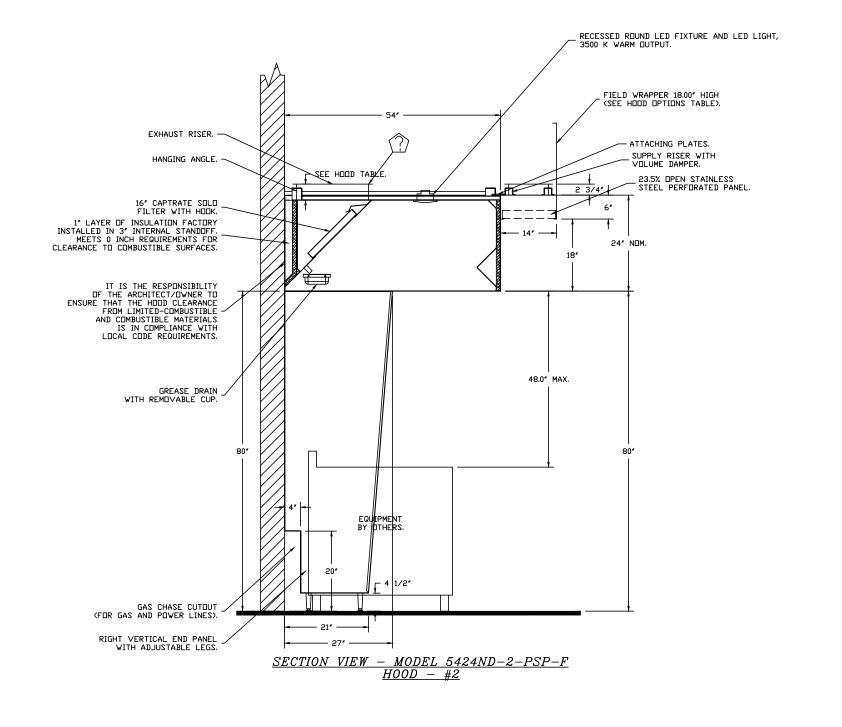
<u>MUA FAN INFORMATION - JOB#5615559</u>

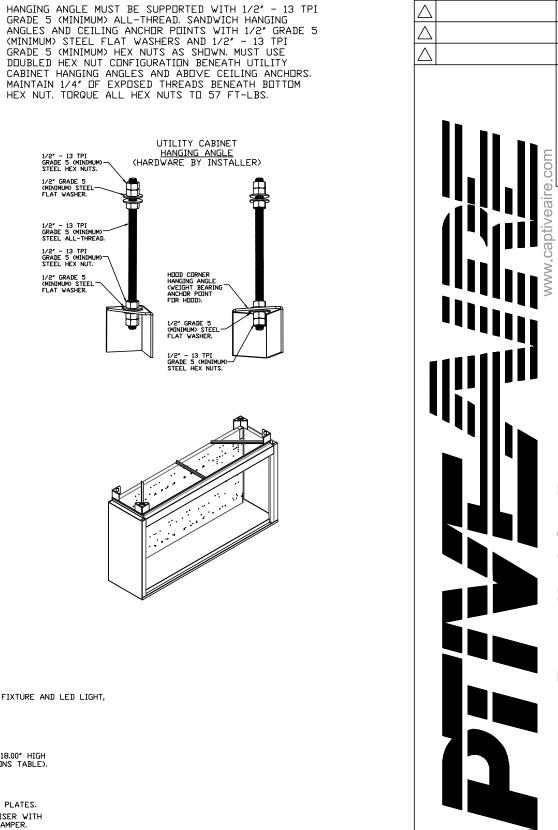
FAN UNIT MODEL #

WALL MOUNT UTILITY CABINET CAS ELECTRIC WET CHEMICAL PROTECTION ELECTRICAL DETAIL

CONNECTION IN PANEL CONNECTION IN DEVICE VOLTAGE AMPERAGE

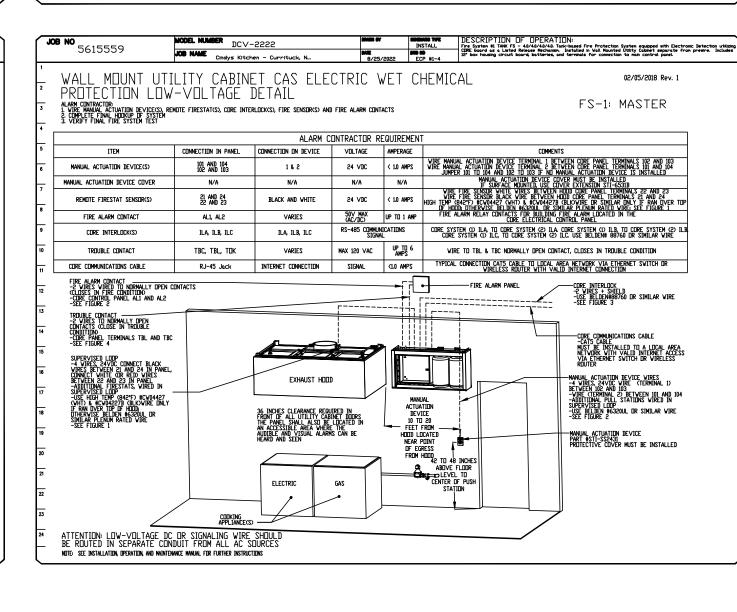


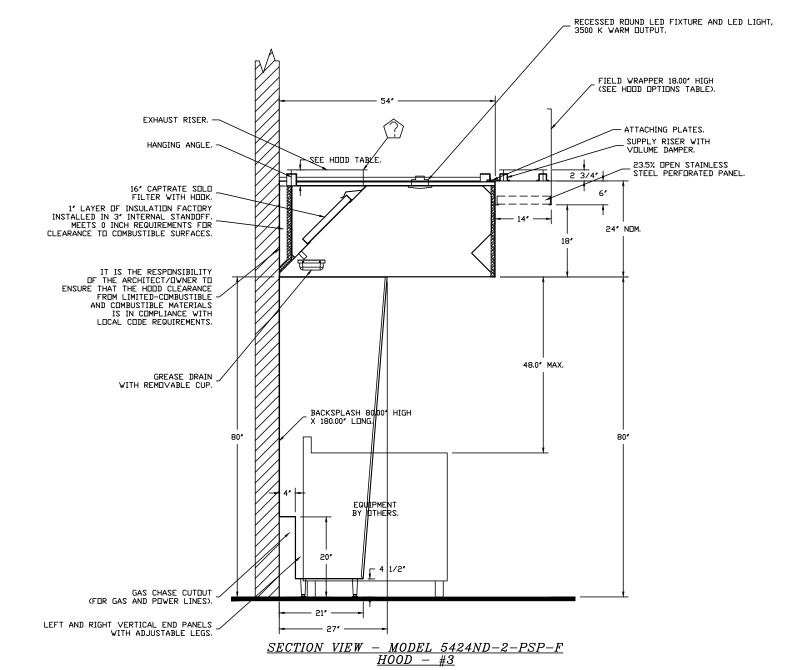


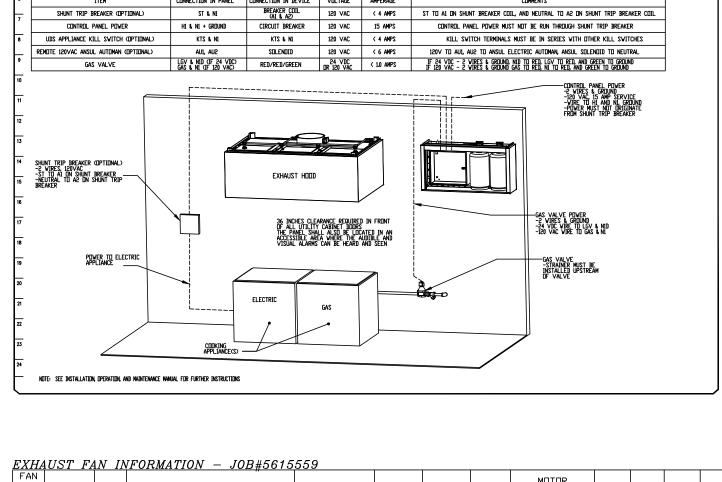


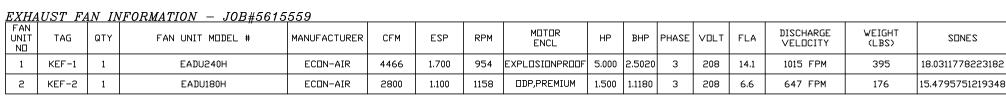
WALL-MOUNT UTILITY CABINET ASSEMBLY INSTRUCTIONS

**REVISIONS** 









MOTOR ENCL

MIN DESIGN ESP RPM

INSTALL

Fire System 81 TANK F. ALP-ERCH ILIN': Inchessed Fire Protection System equipped with Electronic Detection utilizing.

CDE Source 3 a Listed Refease Rechanism. Installed in Vall Mounted Utility Cobiner's apparate from presire. Includes 12' box housing circuit boxen, buttering and terminals for connection to man.

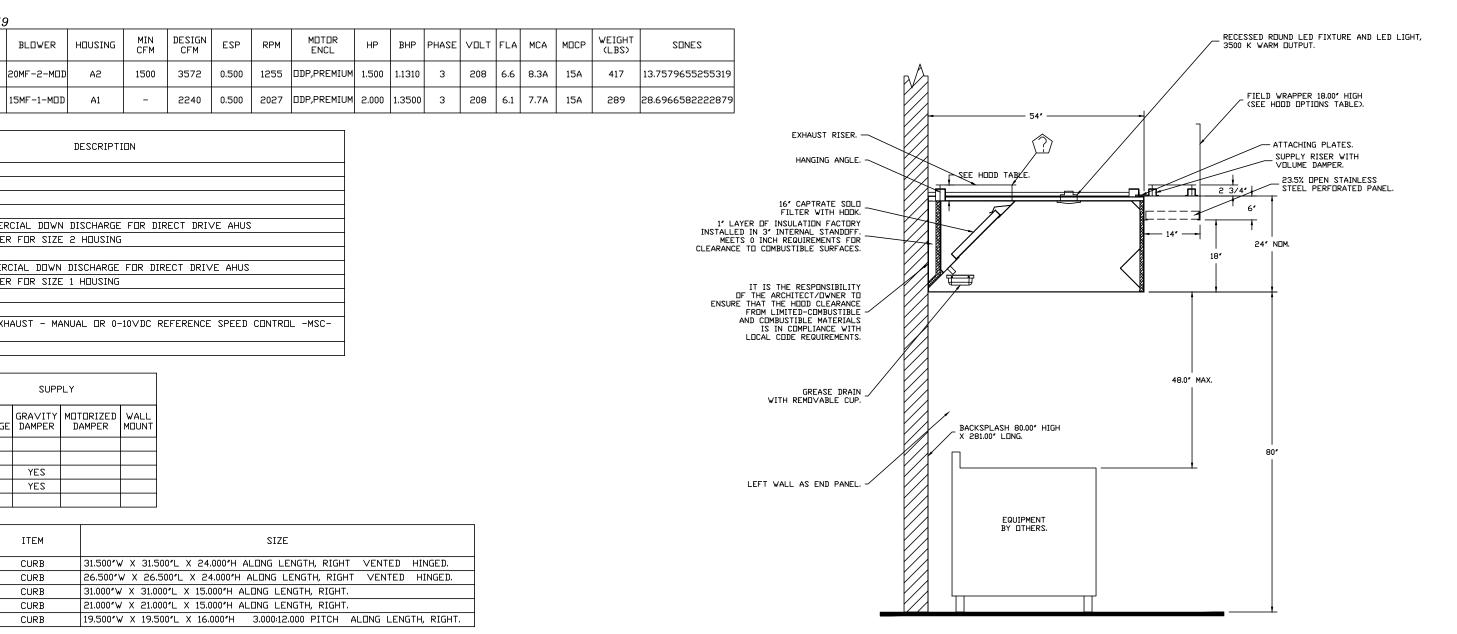
02/11/2021 Rev. 02

FS-1: MASTER

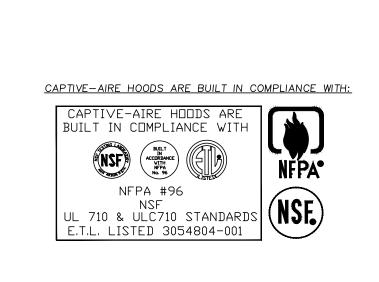
3	KMAU-1	1		EA-A2-20D	20MF-2-MOD	A2	1500	3572	0.500	1255	DDP,PREMIUM	1.5	
4	KMAU-2	1		A1-15D	15MF-1-MOD	A1	-	2240	0.500	2027	DDP,PREMIUM	2.0	
FAN	OPTIO	NS'								•			
FAN UNIT ND	TAG		QTY DESCRIPTION										
1 KEF-1		1	1 GREASE BOX										
1	KEr-	1	1	2 YEAR PARTS WARRANTY									
2	KEF-2		1 GREASE BOX										
_	1			2 YEAR PARTS WARRANTY									
	1		1	SIZE 2 UNTEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS									
3	KMAU-	KMAU-1		GRAVITY BACKDRAFT DAMPE	R FOR SIZE	2 HOUSING							
			1	2 YEAR PARTS WARRANTY									
			1	SIZE 1 UNTEMPERED COMMER	RCIAL DOWN	DISCHARGE	FOR DIR	ECT DRI\	/E AHUS				
4	KMAU-	-2	1	GRAVITY BACKDRAFT DAMPE	RAVITY BACKDRAFT DAMPER FOR SIZE 1 HOUSING								
			1	2 YEAR PARTS WARRANTY									
			1	GREASE BOX									
5	EF (DI	(H2	1	ECM WIRING PACKAGE - EXI	AAM - TSUAH	IUAL OR 0-	10∨DC RE	FERENCE	SPEED	CONTRO	L -MSC-		

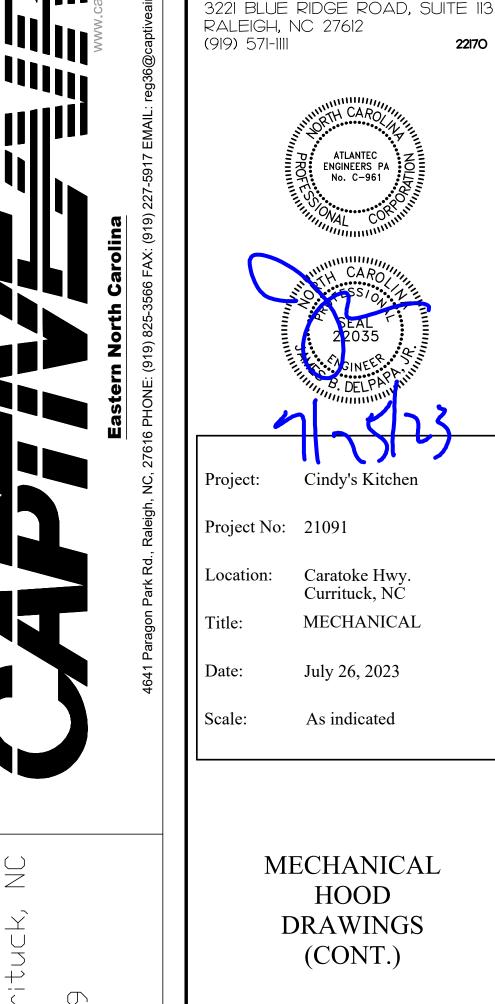
BLOWER HOUSING

Ŭ	-	(21011)		TELCU), C	CW RU	AIIUN					
			1 2	YEAR PA	ARTS W	ARRANTY					
FAN	ACC	CESSO.	RIES								_
FAN UNI		TAG	EXHAUST			SUPPLY					
N		TAG	GREASE CUP	GRAVITY DAMPER		SIDE DISCHARGE	GRAVITY DAMPER	MOTORI DAMPE		WALL MOUNT	
1	ŀ	<ef−1< td=""><td>YES</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></ef−1<>	YES								
2	k	KEF-2	YES								
3	К	MAU-1					YES				
4	К	MAU-2					YES				
5	EF	(HZIQ)	YES								
CUR	RB $A$	SSEME	RLIES								
ND	□N FAN		TAG		WEIGHT		ITEM				SIZE
1	# 1	k	(EF-1		48 LBS		CURB	31.5	500″W	X 31.	31.500°L X 24.000°H ALDNG LENGTH, RIGHT VENTED H
2	# 2	К	EF-2		38 LBS		CURB	26.	500″W	/ X 26	26.500°L X 24.000°H ALONG LENGTH, RIGHT VENTED
3	# 3	К	MAU-1		42 LBS		CURB	31.0	00″W	X 31.0	1.000"L X 15.000"H ALDNG LENGTH, RIGHT.
4	# 4	KI	MAU-2		29 LBS		CURB	21.0	00″W	X 21.0	1.000"L X 15.000"H ALDNG LENGTH, RIGHT.
5	# 5	EF	(DISH)		20 LBS		CURB	19.5	500″W	X 19.	9.500"L X 16.000"H 3.000:12.000 PITCH ALONG LENGT



SECTION VIEW - MODEL 5424ND-2-PSP-F HOOD - #1





cahoon + kasten

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RCHITECTS

TLANTEC

ENGINEERS. PA

ne designer shall not be responsible for any error, omission, defect or deficiency in the contract documents ("error") prepared by the designer or its consultants which in any way impacts the chedule of the project, results in a lack of coordination among the contract documents, delays the completion of the project or which in any other way causes any damage or loss to the owne contractor, subcontractors, or other entity involved in the project, unless: (i) designer is promptly notified of such error, n any event within 14 days of the date such error was discovered or could reasonably have been discovered; and (ii) designer is given opportunity at the time of discovery to address such error, nd, if appropriate, take such steps as are necessary to correct and resolve it. Failure to comply with the provisions of this paragraph shall constitute a waiver of any claim for damages, or right to offset against designer by owner, contractor or others and shall in no event cause or allow a reduction in the fees otherwise due designer for services provided on the project.

Revisions: No.

Description Date

Designed: JAD
Drawn: JAD M303 Reviewed: JBD Cad File:

SHEET NO.

 $\bigcirc$  $\bigcirc$ 

 $\bigcirc$ 

**DATE:** 8/25/2022

DWG.#: 5615559

SCALE: 3/8" = 1'-0"

**MASTER DRAWING** 

 $\bigcirc$ 

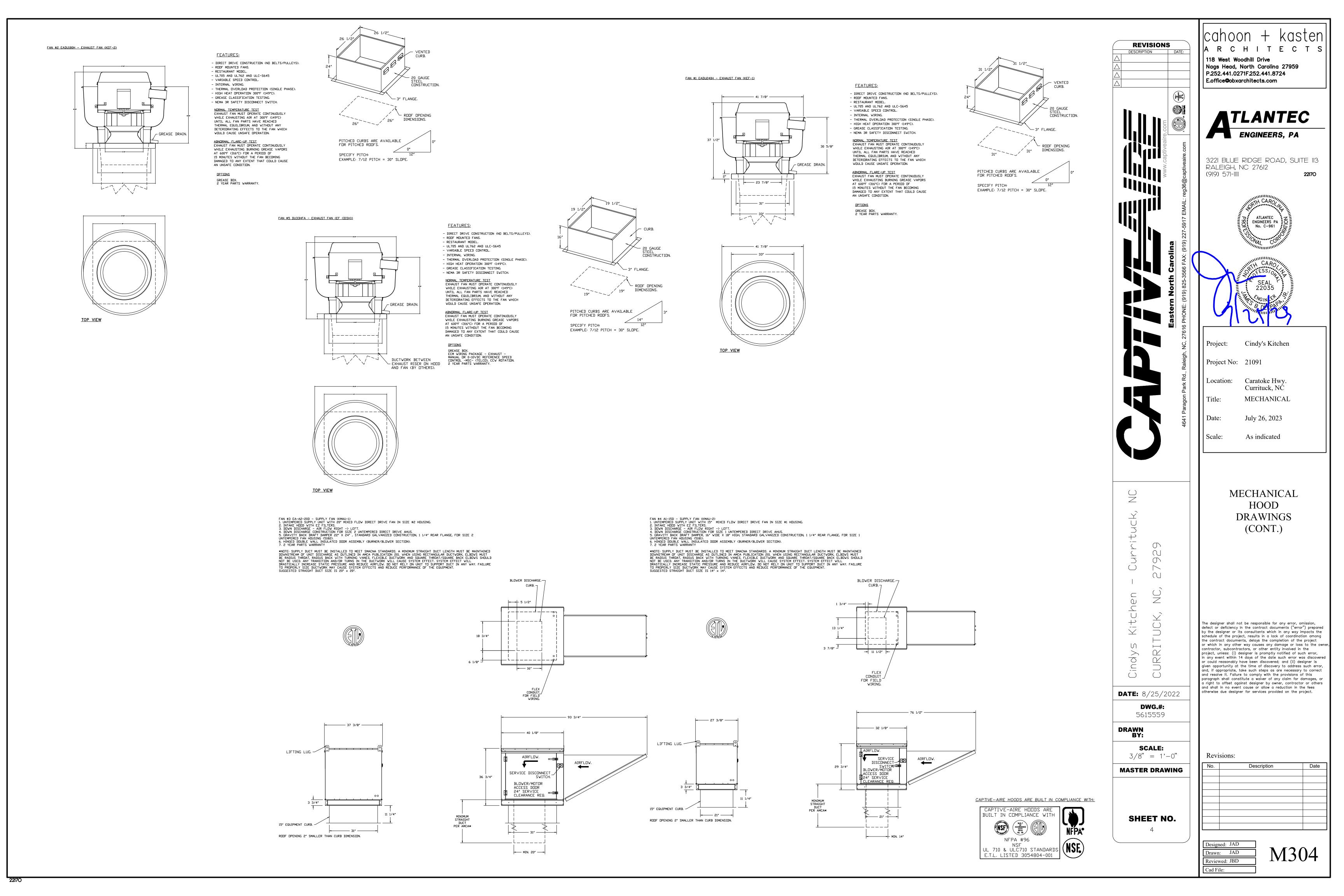
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DRAWN BY:



# 

2 SWITCHGANG DETAIL

NOT TO SCALE

# KITCHEN CO KITCHEN RESTROOM STORAGE RESTROOM

#### **KEY NOTES**

- SEE 2/EIOI FOR DETAILS
- FIXTURE TO BE USED AS EXTERIOR EMERGENCY LIGHT.
  CONNECT BATTERY BACKUP AHEAD OF PHOTOCELL
  CONTROL
- 3 LIGHT FIXTURE BY OTHERS, E.C. TO MAKE FINAL CONNECTION TO FIXTURE AND FIELD COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN



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# TLANTEC ENGINEERS, PA

3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111 22170



Project: Cindy's Kitchen

Project No: 21091

Location: Caratoke Hwy. Currituck, NC

Title: Trade Plan

Date: July 26, 2023

Scale: As indicated

#### LIGHTING PLAN

The designer shall not be responsible for any error, omission, defect or deficiency in the contract documents ("error") prepared by the designer or its consultants which in any way impacts the schedule of the project, results in a lack of coordination among the contract documents, delays the completion of the project or which in any other way causes any damage or loss to the owner, contractor, subcontractors, or other entity involved in the project, unless: (i) designer is promptly notified of such error, in any event within 14 days of the date such error was discovered or could reasonably have been discovered; and (ii) designer is given opportunity at the time of discovery to address such error, and, if appropriate, take such steps as are necessary to correct and resolve it. Failure to comply with the provisions of this paragraph shall constitute a waiver of any claim for damages, or a right to offset against designer by owner, contractor or others and shall in no event cause or allow a reduction in the fees otherwise due designer for services provided on the project.

#### Revisions:

No.	Description	Date

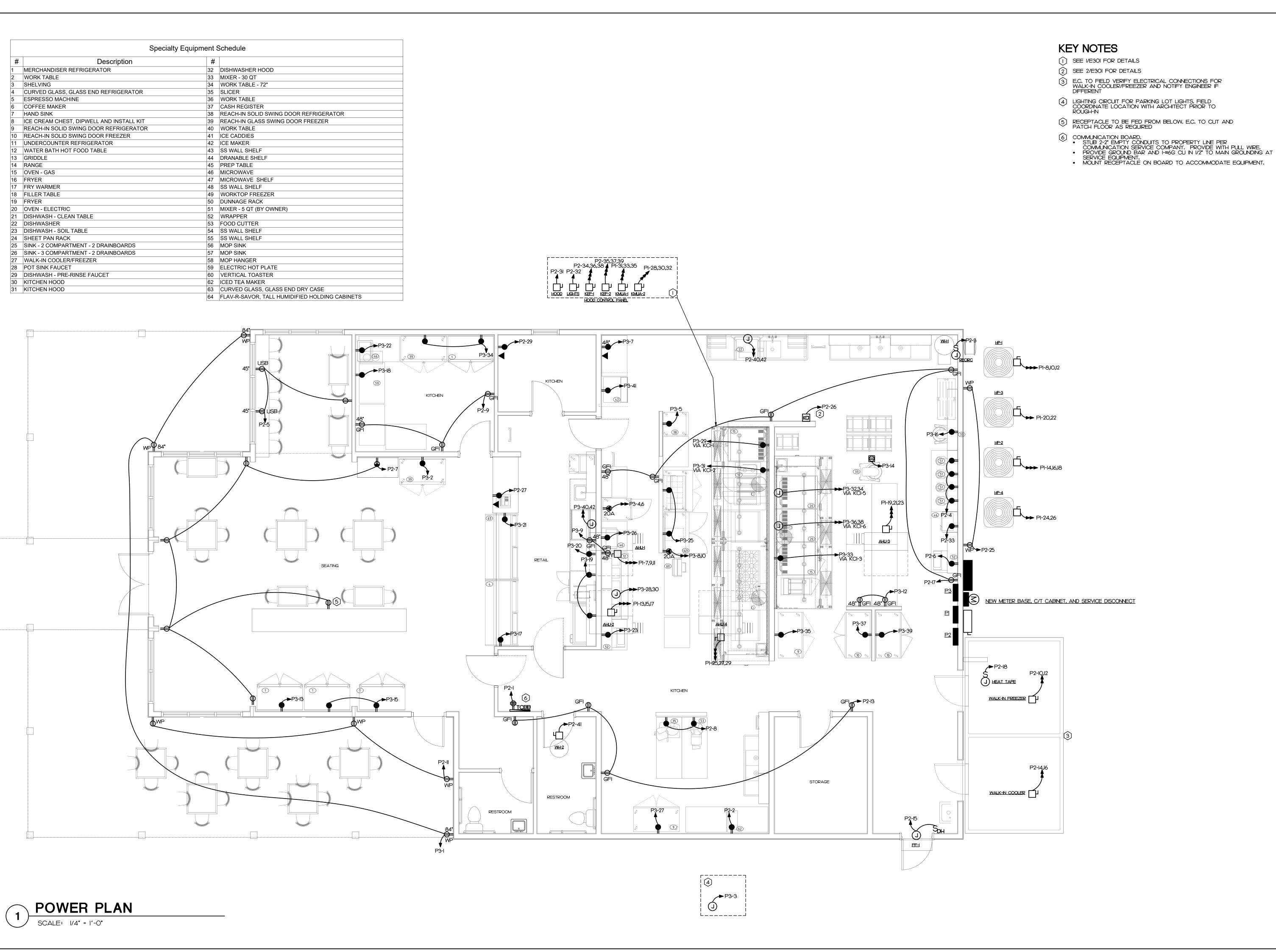
Designed: SWM

Drawn: SWM

Reviewed: DJW

Cad File:

E101

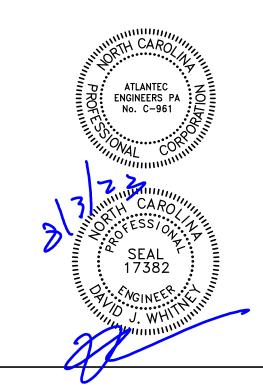


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# TLANTEC ENGINEERS, PA

3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111 22170



Project: Cindy's Kitchen

Project No: 21091

Location: Caratoke Hwy. Currituck, NC

Title: Trade Plan

Date: July 26, 2023

Scale: As indicated

POWER PLAN

The designer shall not be responsible for any error, omission, defect or deficiency in the contract documents ("error") prepared by the designer or its consultants which in any way impacts the schedule of the project, results in a lack of coordination among the contract documents, delays the completion of the project or which in any other way causes any damage or loss to the owner, contractor, subcontractors, or other entity involved in the project, unless: (i) designer is promptly notified of such error, in any event within 14 days of the date such error was discovered or could reasonably have been discovered; and (ii) designer is given opportunity at the time of discovery to address such error, and, if appropriate, take such steps as are necessary to correct and resolve it. Failure to comply with the provisions of this paragraph shall constitute a waiver of any claim for damages, or a right to offset against designer by owner, contractor or others and shall in no event cause or allow a reduction in the fees otherwise due designer for services provided on the project.

#### Revisions:

No.	Description	Date

Designed: SWM

Drawn: SWM

Reviewed: DJW

Cad File:

E102

#### **KEY NOTES**

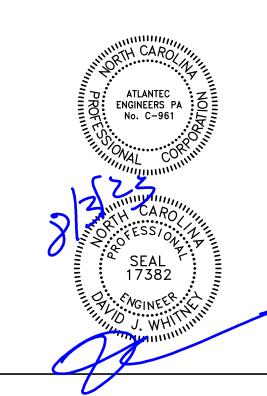
SERVICE RECEPTACLE FOR ROOFTOP EQUIPMENT, E.C. TO ENSURE NO DISCONNECT IS MORE THAN 25' FROM A SERVICE RECEPTACLE



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# TLANTEC ENGINEERS, PA

3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111 22170



Project: Cindy's Kitchen

Project No: 21091

Title:

Location: Caratoke Hwy. Currituck, NC

Trade Plan

Date: July 26, 2023

Scale: As indicated

ROOF ELECTRICAL PLAN

The designer shall not be responsible for any error, omission, defect or deficiency in the contract documents ("error") prepared by the designer or its consultants which in any way impacts the schedule of the project, results in a lack of coordination among the contract documents, delays the completion of the project or which in any other way causes any damage or loss to the owner, contractor, subcontractors, or other entity involved in the project, unless: (i) designer is promptly notified of such error, in any event within 14 days of the date such error was discovered or could reasonably have been discovered; and (ii) designer is given opportunity at the time of discovery to address such error, and, if appropriate, take such steps as are necessary to correct and resolve it. Failure to comply with the provisions of this paragraph shall constitute a waiver of any claim for damages, or a right to offset against designer by owner, contractor or others and shall in no event cause or allow a reduction in the fees otherwise due designer for services provided on the project.

Revisions:

INO.	Description	Date

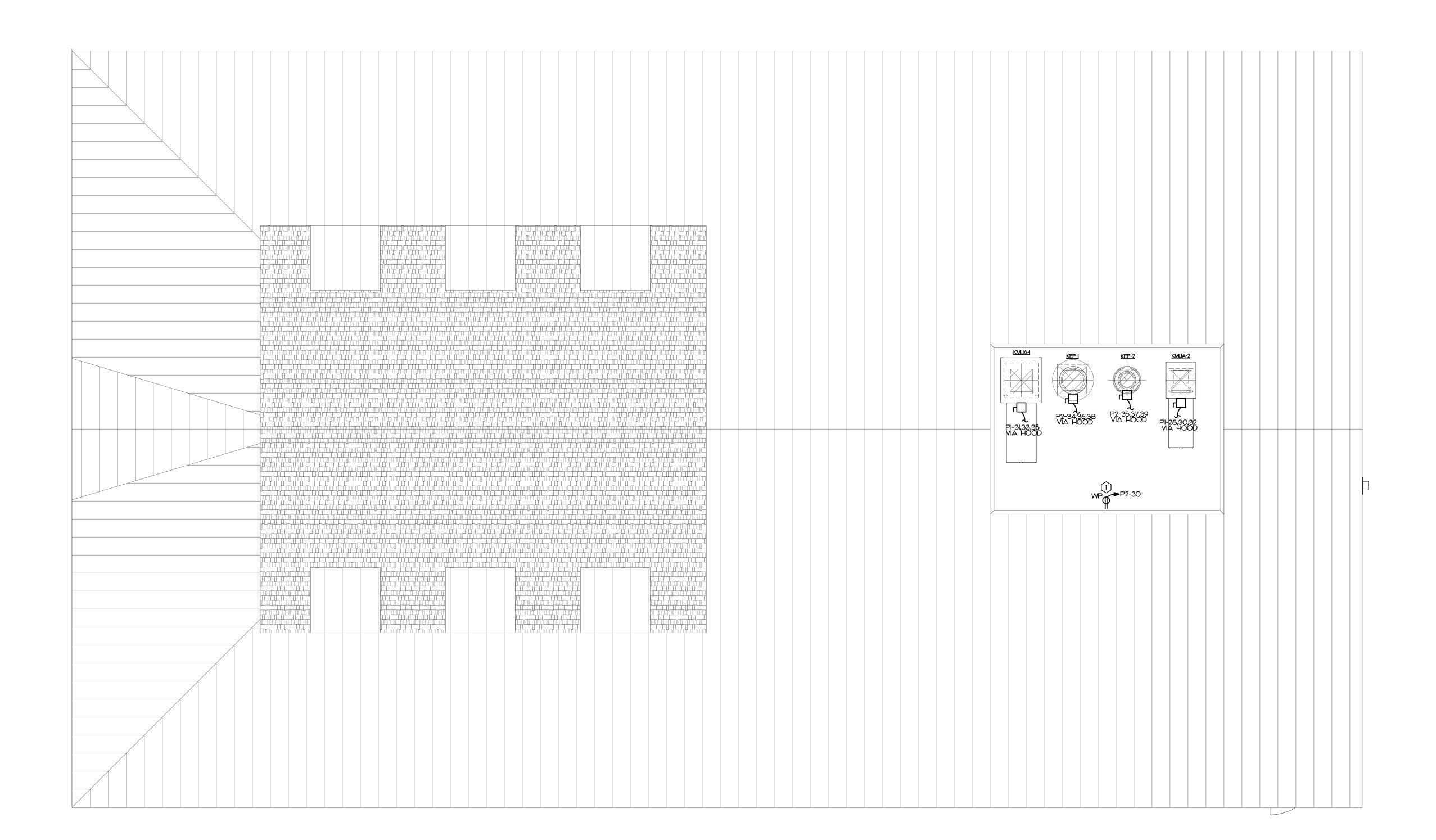
Designed: SWM

Drawn: SWM

Reviewed: DJW

Cad File:

E103



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

#### **KEY NOTES**

- NEW 120/208V, 30, 4W UNDERGROUND SERVICE CONDUCTORS;

  (2) SETS OF (4) #350 IN 3" CONDUIT

  E.C. TO PROVIDE A PRICE PER FOOT.

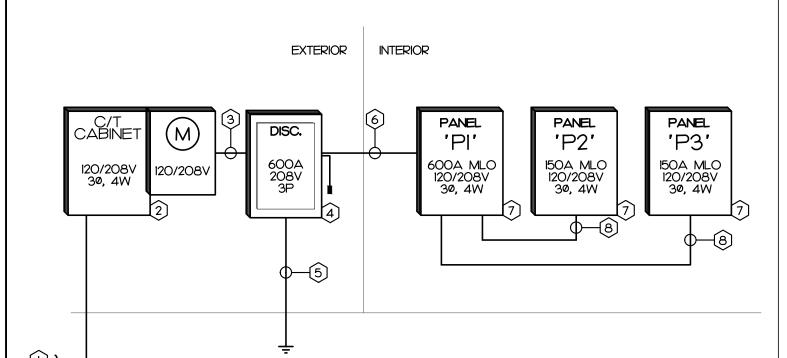
  IF LOCAL UTILITY PROVIDES UNDERGROUND SERVICE CONDUCTORS, E.C. TO PROVIDE OWNER WITH A
- 2 NEW C/T CABINET AND METER BASE ACCORDING TO LOCAL UTILITY
- (3) NEW SERVICE ENTRANCE CONDUTORS:
   (2) SETS OF (4) #350 IN 3" CONDUIT
- PROVIDE A 600A, 208 VOLT, 3-POLE, NEMA 4X FUSED SERVICE RATED DISCONNECT. FUSE AT 600 AMPS WITH MINIMUM IOOKAIC RATED CURRENT LIMITING FUSES. E.C. SHALL FIELD VERIFY AVAILABLE MAXIMUM FAULT CURRENT WITH UTILITY AND PROVIDE LABEL INDICATING THE CURRENT ON DISCONNECT PER NEC
- NEW GROUNDING ELECTRODE CONDUCTORS PER NEC 250:

  (I) #2/0G IN 3/4" CONDUIT TO BUILDING STEEL, C.W. MAIN

  (I) #6G IN 1/2" CONDUIT TO 2 DRIVEN RODS

  (I) #4G IN 1/2" CONDUIT TO REINFORCED STEEL AT CONCRETE FOOTING
- 6 NEW FEEDER:
   (2) SETS OF (4) #350, (1) #2G IN 3" CONDUIT (7) NEW PANELBOARD. SEE PANEL SCHEDULE FOR DETAILS

(8) NEW FEEDER. SEE PANEL SCHEDULE FOR DETAILS



#### 2018 NORTH CAROLINA ENERGY CODE

LAMP TYPE REQUIRED: NUMBER OF LAMPS: BALLAST TYPE USED: NUMBER OF BALLASTS: TOTAL WATTAGE PER FIXTURE:

	ELECTRICAL SYSTEMMETHOD OF COMPL		ΓIVE	
	Ll	GHTING SCHEDULE:		
	FLUORESCENT T8/T5	LED	CFL	INCAN
	N/A	SEE	N/A	N/A
	N/A	FIXTURE	N/A	N/A
;:	N/A	SCHEDULE	N/A	N/A
	N/A		N/A	N/A

	SPECIFIED	ALLOWED BY CODE
INTERIOR WATTAGE		
FOOD PREPARATION AREA		5272
TOTAL	3514	4749 **
EXTERIOR WATTAGE	ZONE 3	
ALLOWANCE	442	750

- I. \*\* PER SECTION C406.3, THE WHOLE AREA ALLOWED BY CODE IS REQUIRED TO BE IO% LOWER THAN THOSE CALCULATED PER SECTION C405.4.2.
   VALUE CALCULATE PER SECTION C405.4.2: 5272 WATTS
   VALUE PER SECTION C406.3: 4749 WATTS
- 2. ALL EXTERIOR LIGHTS:
  CONTROLLED BY PHOTOCELL THAT WILL NOT INTENDED TO BE ON FOR 24 HOUR OPERATION.

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 - ENERGY.



## POWER RISER

				_				 _
Γ	NO	Τ.	ТО	(	5C,	ΔL	E	

															1	· · · · · · · · · · · · · · · · · · ·	_
	DESCRIPTION	1	KVA	C	G	W	CB	CKT	CKT	CB	W	G	С	KVA		DESCRIPTION	CK
1 REC TCBB			0.4	1/2	12	12	20		2	20	12	12	1/2	l.7	NOTE 2	TEA MAKER	+
3 WH-I RECIR			0.5	1/2	12	12	20	3	4	20	12	12	1/2	1.4	NOTE 2	MIXERS KITCHEN	1
5 REC SEAT			0.4	1/2	12	12	20	5	6	20	12	12	1/2	0.7	NOTE 2	WRAPPER KITCHEN	
7 REC SEAT			1.1	1/2	12	12	20	7	8	20	12	12	1/2	1.3	NOTE 2	CUTTERS KITCHEN	
9 REC KITCH	EN		0.4	1/2	12	12	20	9	10	30	10	10	3/4	2.1		WALK-IN FREEZER	<u>  10</u>
II REC EXTER	RIOR		0.5	1/2	12	12	20	11	12	2P	10			2.1			12
13 REC STOR	AGE, KITCHEI	N	0.9	1/2	12	12	20	13	14	20	12	12	1/2	1.2		WALK-IN COOLER	14
15 FF-1			1.2	1/2	12	12	20	15	16	2P	12			1.2			16
17 REC KITCH	EN		0.5	1/2	12	12	20	17	18	20	12	12	1/2	1.5	NOTE 4	HEAT TAPE	18
19 SPARE			0.0				20	19	20	20	12	12	1/2	0.4		LTS EXTERIOR	20
21 SPARE			0.0				20	21	22	20	12	12	1/2	I.O		LTS SEATING, RETAIL	. 22
23 SPARE			0.0				20	23	24	20	12	12	1/2	1.6		LTS KITCHEN, STORAGE	24
25 REC EXTER	RIOR		0.2	1/2	12	12	20	25	26	20	12	12	1/2	0.3	NOTE 3	CONTACTOR KCI	1 26
27 REC POS		NOTE 2	0.2	1/2	12	12	20	27	28					0.0		SHUNT TRIP	28
29 REC POS		NOTE 2	0.2	1/2	12	12	20	29	30	20	12	12	1/2	0.2		REC ROOF	30
31 HOOD CON	NTROL POWE	R	0.5	1/2	12	12	20	31	32	20	12	12	1/2	0.5		HOOD LIGHT SWITCH	32
33 MICROWAY	Æ KITCHEN		1.5	1/2	12	12	20	33	34	30	10	10	3/4	2.1		KEF-I	1
35 KEF-2	-		l.O	1/2	12	12	15	35	36	3P	10			2.1			36
37			I,O			12	3P	37	38		10			2.1			38
39			I.O			12		39	40	125	1	6	2	10.6		DISHWASHER KITCHEN	_
41 WH-2			1.5	1/2	12	12	20	41	42	2P	1			10.6			42
				,					•						•		
DESCRIPTION	CONNECTED	DEMAND	DEMAND		150 A	MININ	NUM E	BUS SIZE	Ē					SURFACE	MOUNTING		
	KVA	FACTOR	KVA		MAIN	LUGS	ONLY	1						NEMA I EN	NCLOSURE		
CONT. LOAD	2.91	125%	3.63		10 K I	MINIML	JM AK	C RATIN	IG					GROUND E	BAR		
RECEPTACLE	4.86	100%/50%	4.86														
MTRS/COOLS	10.60	100%	10.60														
HEATS	0.00	100%	0.00														
WATER HEATER	1.50	100%	1,50	NOTE	S											CONNECTED LOADS	
EQUIPMENT	2.80	100%	2.80	1	UARE	D: N	Q										ΚV
KITCHEN EQUIP.	34,84	65%		1				FCI BRE	EAKER								I KV
SPECIAL EQ.	0.00	100%	0.00	1				OCK-OF		VISION						PHASE C: 22.9	
25% OF LARGES			1.58	1				FPE BR								TOTAL: 57.5	
TOTAL DEMAND		. ).,	47.6l	  5.	J J											DEMAND 132	

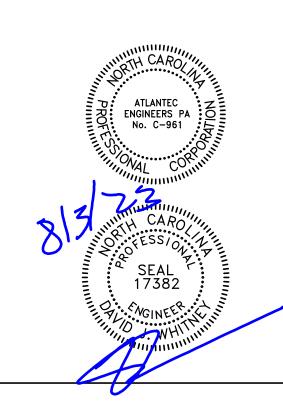
DESCRIPTION ( PANEL P3  HP-I		20.0			W I	CB	CKT	CKT	CB	l W l	G		l KVA l	N	DESCRIPTION	XT  [
HP-I		23.9	2	G 6	1/0	150	2	1	150	1/0	6	2	11.5			I PANEL P2
HP-I		23.3			1/0	3P	4	3	3P	1/0	1		23.1			3
HP-1		19.7			1/0		6	5		1/0	-		22.9			5
I		1.8	3/4	10	10	30	8	7	45	8	10	1	4.3			<u>7</u> AHU-1
		1.8			10	3P	10	9	3P	8			4.3			9
		1.8			10		12	11		8			4.3			11
HP-2		1.8	3/4	10	10	30	14	13	45	8	Ю	1	4.3			<u>13</u> AHU-2
_		1.8			10	3P	16	15	3P	8			4.3			<u>15</u>
		1.8			10		18	17		8			4.3			17
HP-3_		1.8	1	10	8	35	20	19	50	8	0	1	4.5			<u>19</u> AHU-3
		1.8			8	2P	22	21	3P	8			4.5			21
HP-4_		1.8	1	10	8	35	24	23		8			4.5			23
		1.8			8	2P	26	25	50	8	10	ı	4.5			25 AHU-4
KMUA-2		0.9	1/2	12	12	15	28	27	3P	8			4.5			27
		0.9 0.9			12	3P 	30	29		8	2		4.5 I.O			29 31 KMUA-1
SPACE ONLY		0.9					32 34	3I 33	15 3P	12 12	12 	1/2 	1.0			33 KIMUA-1
SPACE ONLY		0.0					36	35	<u> </u>	12			1.0			35 35
SPACE ONLY		0.0					38	37					0.0		Y	37 SPACE ONL
SPACE ONLY		0.0					40	39					0.0			39 SPACE ONL
SPACE ONLY		0.0					42	41					0.0			41 SPACE ONL
•	E MOUNTING				•		=	BUS SIZ	MINA F	المالم ک	600 4		DEMAND	DEMAND	CONNECTED	
	ENCLOSURE						-	-00 0.2	–	LUGS		İ	KVA	FACTOR	KVA	2001411 11011
<b>5</b> .12		GROUND B					∋	RATIN				İ	6.03	125%	4.82	ONT, LOAD
	_,	5. 15 G. 15 E.											6,66	100%/50%	6.66	ECEPTACLE
													43.81	100%	43.81	ITRS/COOLS
													43.20	100%	43.20	EATS
CONNECTED LOADS											s .	NOTE		100%	1,50	IATER HEATER
PHASE A: 62.1 F									Ç	D: NO	UARE	ı. sa	2,80	100%	2,80	QUIPMENT
PHASE B: 71.3 I							AKER	-CI BRE	IDE GI	PROV	с. то	2. E.O	63.73	65%	98.05	ITCHEN EQUIP.
PHASE C: 67.5 I		3. E.C. TO PROVIDE LOCK-OFF PROVISION								0,00	100%	0.00	PECIAL EQ.			

PANEL	P3														120/20	08V, 3 PHASE, 4 W	VIITE
СКТ	DESCRIPTION	I	KVA	С	G	W	СВ	CKT	CKT	СВ	W	G	С	KVA		DESCRIPTION	CK
I REC EXTER	RIOR		0.5	1/2	12	12	20	1	2	20	12	12	1/2	1.3	NOTE 2	RETAIL FREEZER	2
3 LTS PARKI	NG LOT	NOTE 3	1.5	1/2	12	12	20	3	4	20	12	12	1/2	0.9	NOTE 2	HOLDING CABINET	· 4
5 REFRIGERA	TOR KITCHE	N NOTE 2	0.4	1/2	12	12	20	5	6	2P	12			0.9			6
7 REC KITCH	EN	NOTE 2	0.5	1/2	12	12	20	7	8	20	12	12	1/2	1.4	NOTE 2	UPRIGHT TOASTER	<u> </u>
9 REC RETAI	L, KITCHEN		0.4	1/2	12	12	20	9	10	2P	12			1.4			IC
II LTS KITCHE	EN		0.4	1/2	12	12	20	11	12	20	12	12	1/2	0.4		REC KITCHEN	12
13 MERCHAND	ISER RETAIL	NOTE 2	0.8	1/2	12	12	20	13	14	20	12	12	1/2	1.8	NOTE 2	MIXER KITCHEN	1 14
15 MERCHAND	ISER RETAIL	NOTE 2	1.7	1/2	12	12	20	15	16	20	12	12	1/2	1.8	NOTE 2	MIXER KITCHEN	1 16
17 REFRIGERA	TOR RETAIL	NOTE 2	1.4	1/2	12	12	20	17	18	20	12	12	1/2	1.5	NOTE 2	HOT PLATE KITCHEN	1 18
19 REFRIGERA	TOR RETAIL	NOTE 2	0.7	1/2	12	12	20	19	20	20	12	12	1/2	1.7	NOTE 2	COFFEE MAKER	20
21 REFRIGERA	TOR RETAIL	NOTE 2	0.8	1/2	12	12	20	21	22	20	12	12	1/2	1.5	NOTE 2	MICROWAVE KITCHEN	22
23 WRAPPER	KITCHEN	NOTE 2	0.8	1/2	12	12	20	23	24	20	12	12	1/2	0.8	NOTE 2	REFRIGERATOR KITCHEN	24
25 FREEZER K	(ITCHEN	NOTE 2	I.O	1/2	12	12	20	25	26	20	12	12	1/2	1.9	NOTE 2	MICROWAVE KITCHEN	1 20
27 REFRIGERA	TOR KITCHE	N NOTE 2	0.6	1/2	12	12	20	27	28	30	10	10	3/4	1.9	NOTE 2,3	HOT TABLE KITCHEN	1 28
29 OVEN KITO	HEN	NOTE 2	1.1	1/2	12	12	20	29	30	2P	10			1.9			30
31 WARMER K	(ITCHEN	NOTE 2	0.5	1/2	12	12	20	31	32	60	6	10	1	5.2	NOTE 2,3	OVEN KITCHEN	I <u>3</u> 2
33 OVEN KITO	HEN	NOTE 2	1.1	1/2	12	12	20	33	34	2P	6			5.2			34
35 REFRIGERA	TOR KITCHE	N NOTE 2	0.6	1/2	12	12	20	35	36	60	6	10	1	5.2	NOTE 2,3	OVEN KITCHEN	1 <u>3</u>
37 FREEZER K	(ITCHEN	NOTE 2	1.2	1/2	12	12	20	37	38	2P	6			5.2			38
39 FREEZER K	KITCHEN	NOTE 2	1.2	1/2	12	12	20	39	40	40	8	10	1	3.3	NOTE 3	ESPRESSO MACHINE	40
41 ICE MAKER	KITCHEN	NOTE 2	1.2	1/2	12	12	20	41	42	2P	8			3.3			4:
DESCRIPTION	CONNECTED	DEMAND	DEMAND	]	150 A	MININ	ил в	US SIZ	E					SURFACE	MOUNTING		
	KVA	FACTOR	KVA		MAIN	LUGS	ONLY	,						NEMA I EN	CLOSURE		
CONT. LOAD	1,92	125%	2,40	1				RATI	NG					GROUND B			
RECEPTACLE	1,80	100%/50%	1,80	Ī													
MTRS/COOLS	0,00	100%	0.00														
ÆATS	0.00	100%	0.00	1													
NATER HEATER	1	100%	0.00	NOTE	S											CONNECTED LOADS	
EQUIPMENT	0.00	100%	0.00	1	UARE	D: NO	Q									PHASE A: 23.9	KV
KITCHEN EQUIP.	63.21	65%	41.08	1				FCI BR	EAKER							PHASE B: 23.3	
SPECIAL EQ.	0.00	100%	0.00	3. E.	С. ТО	PROV	IDE L	OCK-O	FF PRO	VISION							′ KV
25% OF LARGES	T HVAC/MOT	TOR	2.60	4.												TOTAL: 66.9	
TOTAL DEMAND			47.88	5.												-	ΑM



118 West Woodhill Drive Nags Head, North Carolina 27959 P.252.441.0271F252.441.8724 E.office@obxarchitects.com

3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111



Project: Cindy's Kitchen

Project No: 21091

Location: Caratoke Hwy. Currituck, NC

Title: Trade Plan

July 26, 2023 Date:

As indicated

#### POWER RISER PANEL SCHEDUELS

The designer shall not be responsible for any error, omission, defect or deficiency in the contract documents ("error") prepared by the designer or its consultants which in any way impacts the schedule of the project, results in a lack of coordination among the contract documents, delays the completion of the project or which in any other way causes any damage or loss to the owner, contractor, subcontractors, or other entity involved in the project, unless: (i) designer is promptly notified of such error, in any event within 14 days of the date such error was discovered or could reasonably have been discovered; and (ii) designer is given opportunity at the time of discovery to address such error, and, if appropriate, take such steps as are necessary to correct and resolve it. Failure to comply with the provisions of this paragraph shall constitute a waiver of any claim for damages, or a right to offset against designer by owner, contractor or others and shall in no event cause or allow a reduction in the fees otherwise due designer for services provided on the project.

#### Revisions:

No.	Description	Date

Reviewed: DJW

Cad File:

E201

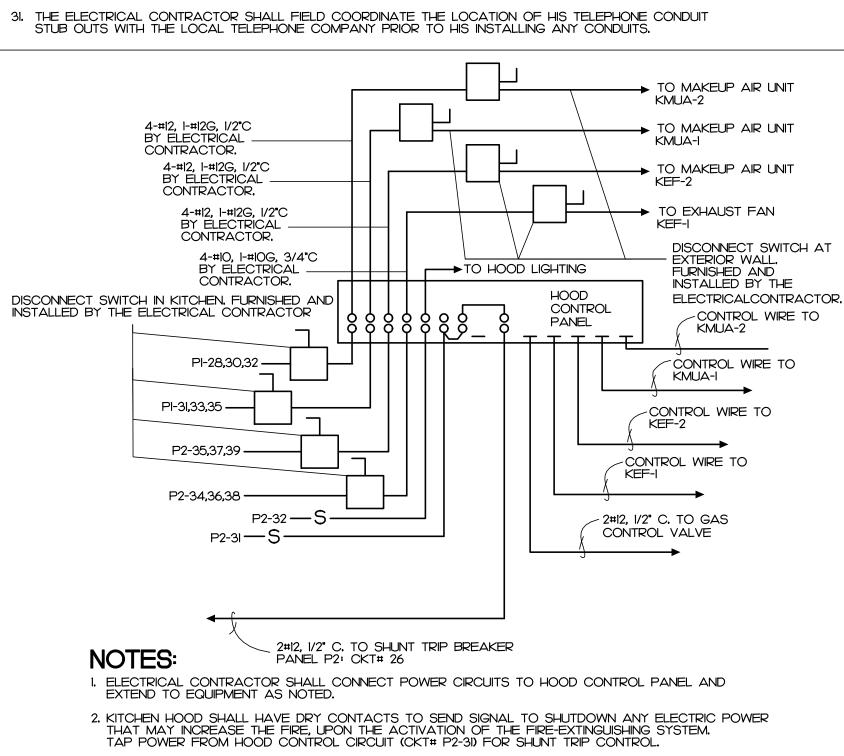


#### **GENERAL NOTES**

- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS, DO NOT SCALE THESE DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO THE INSTALLATION OF HIS EQUIPMENT SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
- USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE. A SEPARATE GREEN GROUND WIRE SHALL BE RUN WITH THE CIRCUIT CONDUCTORS IN EACH CONDUIT.
- ALL BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND THE MECHANICAL
- ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH THE STATE, LOCAL AND NATIONAL CODES, ORDINANCES AND 2020 NATIONAL ELECTRICAL CODE (NFPA 70).
- 6. EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT, PRIOR TO INSTALLATION FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK, AND MILLWORK TO BE FURNISHED.
- 8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS, SEE DETAILS FOR CONNECTION TO EQUIPMENT PROVIDED BY MECHANICAL AND PLUMBING CONTRACTORS
- WHERE ELECTRICAL EQUIPMENT PENETRATES RATED WALLS AND CEILINGS, EXTERIOR WALLS, THEY
- WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED. WITH METHODS APPROVED BY THE ENGINEER, SUBMIT DETAIL OF PROPOSED SEALING METHODS,
- 10. ALL PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID BY THE ELECTRICAL CONTRACTOR. II. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR,
- 12. THE CONTRACTOR SHALL PROVIDE COMPLETE UPDATED TYPEWRITTEN PANEL SCHEDULES FOR ALL
- 13. AS BUILT DRAWINGS SHALL BE GIVEN TO THE OWNER AT THE COMPLETION OF THE PROJECT
- 14. THE CONTRACTOR SHALL VERIFY THE CEILING TYPES WITH THE GENERAL CONTRACTOR PRIOR TO THE PURCHASE OF ANY LIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDED FOR ALL FIXTURES. ANY DIFFERENCES WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- 15. ALL WIRE SIZES INDICATED ON THE PANEL SCHEDULES ARE BASED ON 75 DEGREE COPPER THHN/THWN WIRE. ALL WIRE TERMINALS AND EQUIPMENT SHALL BE LISTED AND APPROVED FOR 75°C. ONLY THWN-2
- WIRE SHALL BE INSTALLED IN WET AND EXTERIOR LOCATION.
- 16. MINIMUM CONDUIT SIZE SHALL BE 1/2" AND MINIMUM WIRE SIZE SHALL BE #12 AWG.

SHALL BE PROPERLY SEALED PER APPROVED UL METHODS.

- 17. ARMORED CABLE (TYPE AC) AND METAL-CLAD CABLE (TYPE MC) ARE ACCEPTABLE WIRING METHODS SUBJECTED TO THE FOLLOWING RESTRICTIONS: • SEE NEC 320 AND 330 FOR RESTRICTION.
- PENETRATIONS OF RATED WALLS SHALL BE IN ACCORDANCE WITH APPROVED UL PENETRATION
- CABLE SHALL NOT BE USED FOR HOME RUN TO PANEL BOARD.
  CABLE SHALL ONLY BE INSTALLED IN CONCEALED SPACE AND FURRED AREAS. MAX. LENGTH OF EACH SECTION IN ACCESSIBLE CONCEALED CEILING SPACES. SHALL NOT EXCEED IO FT.
  WHERE REQUIRED BY NEC 517.13, CABLE SHALL BE LISTED FOR THE USE.
- 18, THE MAXIMUM NUMBER OF HOMERUNS IN A CONDUIT SHALL NOT EXCEED THREE (3), FEEDING CIRCUITS WITH SHARED NEUTRAL SHALL BE SWITCHED TOGETHER.
- WHERE OUTLETS ARE SHOWN BACK TO BACK ON RATED WALLS, STAGGER OUTLETS SO THAT THEY ARE SEPARATED BY A MINIMUM OF 24".
- 20. ALL DISCONNECTS SHALL HAVE SEPARATE NEUTRAL AND GROUND BARS.
- 21. ALL PANELS SHALL BE THREE PHASE, FOUR WIRE UNLESS OTHERWISE NOTED.
- BOXES AND CONDUITS SHALL NOT BE INSTALLED RECESSED IN A 3-HOUR OR HIGHER RATED WALL WHEN OUTLETS ARE INDICATED ON THESE WALLS, FIELD COORDINATE CONDUIT AND BOX INSTALLATION.
- 23. FOR ALL RECEPTACLES LOCATED ABOVE COUNTER TOP, MOUNTING HEIGHT SHALL COMPLY WITH ANSI AII7.I, SECTION 308. E.C. SHALL FIELD VERIFY CASEWORK DETAIL WITH ARCHITECT PRIOR TO ROUGH-IN.
- 24. ALL FINAL CONNECTIONS TO KITCHEN EQUIPMENT IS BY THE ELECTRICAL CONTRACTOR.
- 25, FIELD VERIFY NEUTRAL REQUIREMENT OF EQUIPMENT, FURNISHED AS REQUIRED BY E.C. 26. E.C. TO PROVIDE PLUG TO MATCH RECEPTACLE.
- 27. FIELD COORDINATE LOCATION OF ALL DISCONNECTS AND RECEPTACLES, FIELD COORDINATE FUSING WITH MANUFACTURER INSTRUCTION
- 28. EQUIPMENT ITEM NUMBERS PER INFORMATION FROM KITCHEN CONTRACTOR.
- 29, E.C. TO VERIFY ELECTRICAL REQUIREMENTS FOR KITCHEN EQUIPMENT WITH KITCHEN EQUIPMENT
- 30. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE INSTALLATION OF THE NEW UNDERGROUND ELECTRICAL SERVICE WITH THE LOCAL UTILITY. THE OWNER SHALL PAY ALL CHARGES FOR THE INSTALLATION OF THE NEW UNDERGROUND UTILITY SERVICE.



3. KITCHEN HOOD SHALL PROVIDE 50FC ILLUMINATION AT 30" A.F.F. AT UNDER THE HOOD.

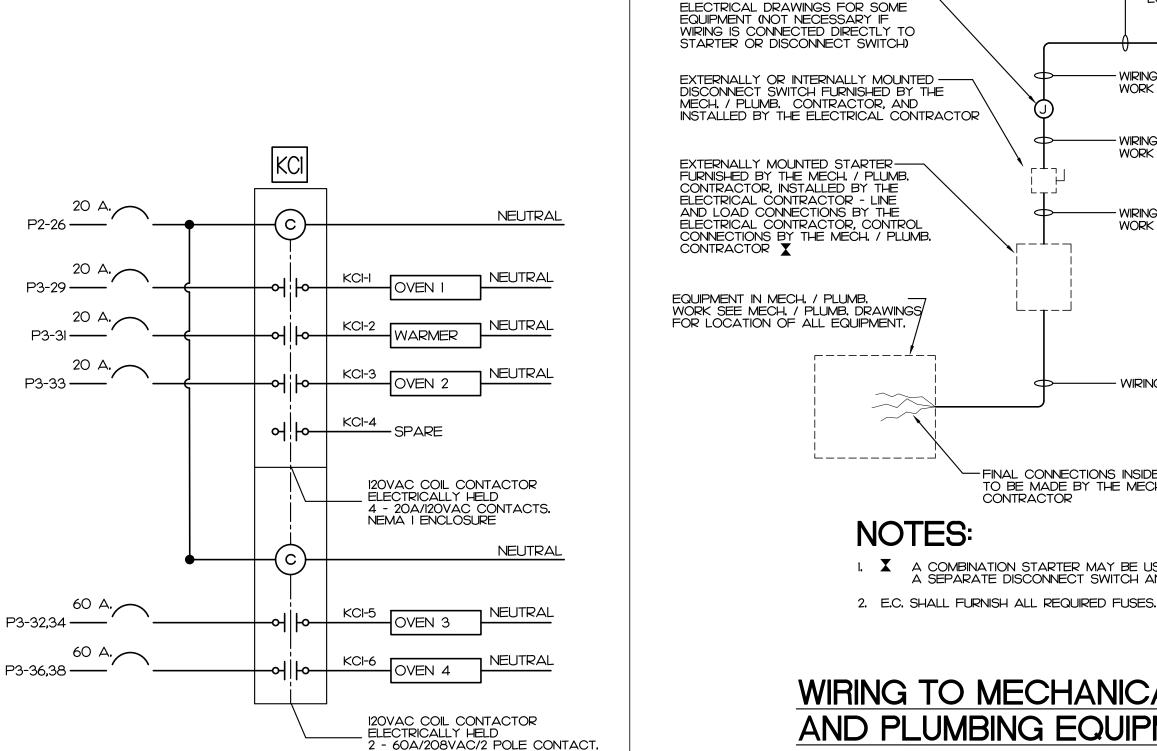
KITCHEN HOOD DETAIL

NOT TO SCALE



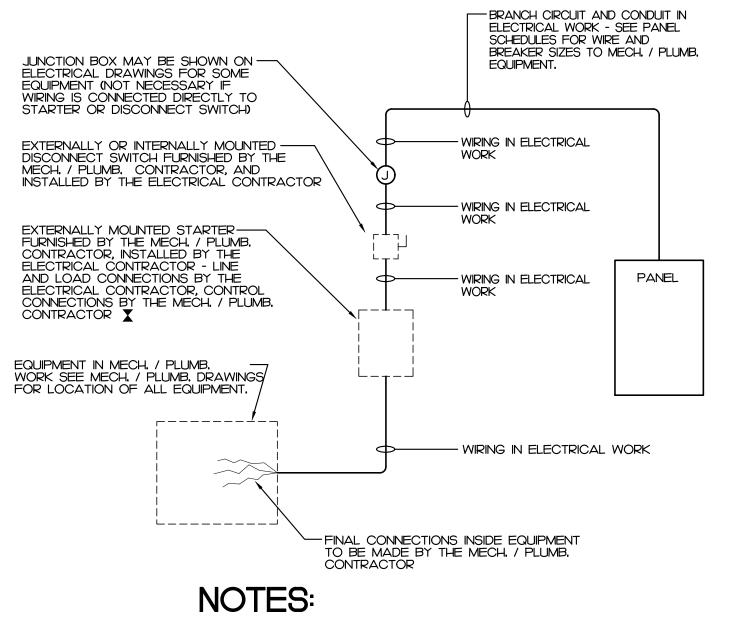
#### NOTES:

- SEE ARCHITECTURAL PLAN FOR MOUNTING LOCATION AND HEIGHT. FIELD COORDINATE MOUNTING HEIGHT WITH ARCHITECT IF NOT SHOWN ON ARCHITECTURAL
- 2. E.C. SHALL SUBMIT CATALOG TO ARCHITECT FOR APPROVAL PRIOR PURCHASE ANY. FINISH COLOR AND TRIM SUBJECT TO BE CHANGED PER ARCHITECT.
- 3. E.C. SHALL FIELD VERIFY LED COLOR WITH ARCHITECT PRIOR TO ORDERING.



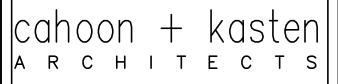
## KITCHEN CONTACTOR DETAIL

NEMA I ENCLOSURE



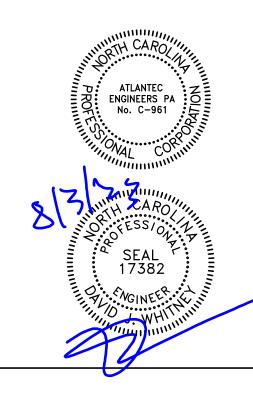
I. X A COMBINATION STARTER MAY BE USED IN LIEU OF A A SEPARATE DISCONNECT SWITCH AND STARTER

#### WIRING TO MECHANICAL AND PLUMBING EQUIPMENT NOT TO SCALE



118 West Woodhill Drive Nags Head, North Carolina 27959 P.252.441.0271F.252.441.8724 E.office@obxarchitects.com

3221 BLUE RIDGE ROAD, SUITE 113 RALEIGH, NC 27612 (919) 571-1111 22170



Cindy's Kitchen

Project No: 21091

Title:

Caratoke Hwy Location: Currituck, NC

Trade Plan

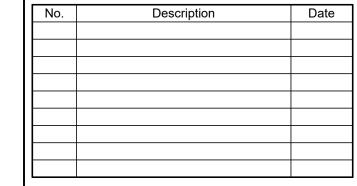
July 26, 2023 Date:

As indicated

#### SYMBOL LEGEND GENERAL NOTES **DETAILS**

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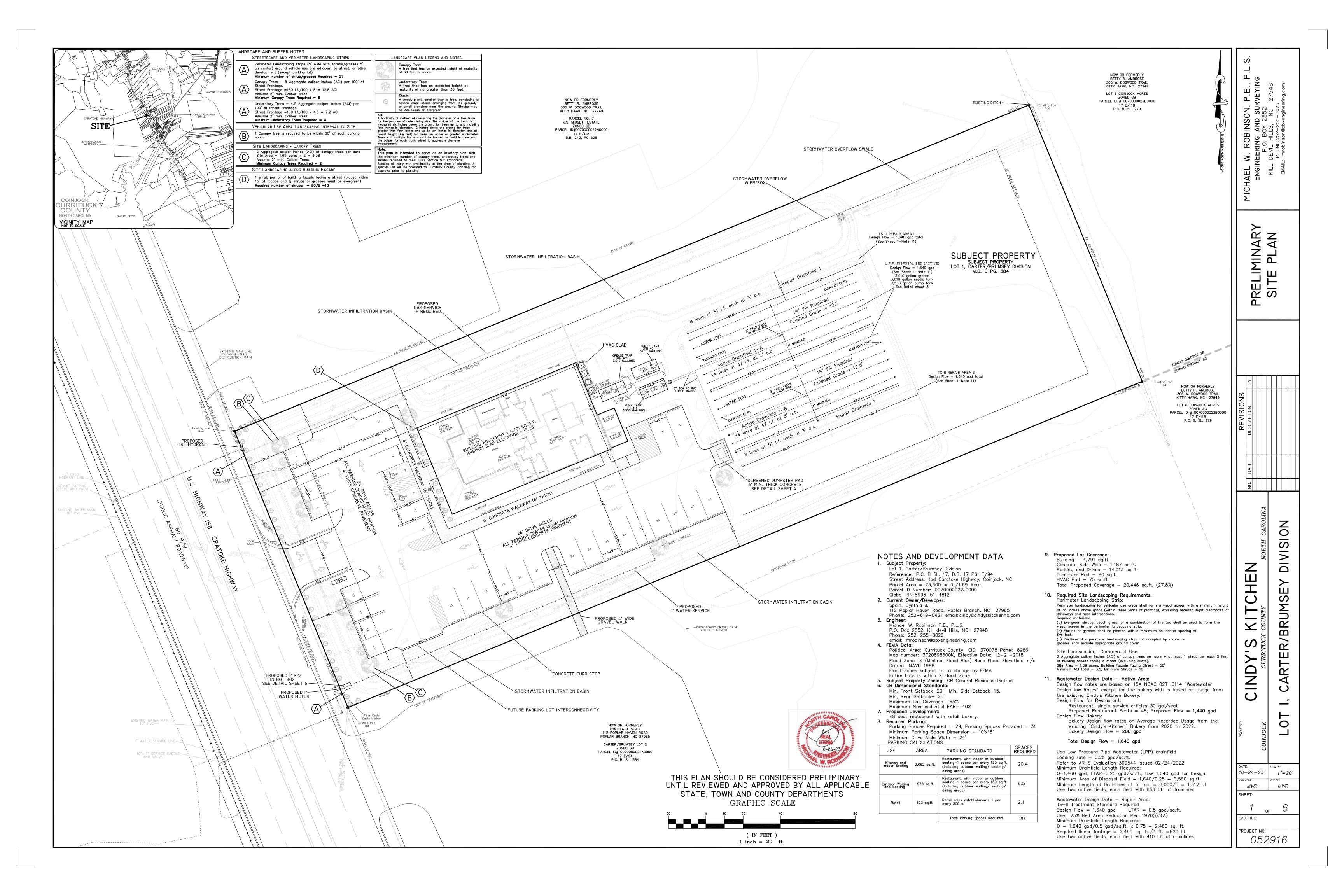
#### Revisions:

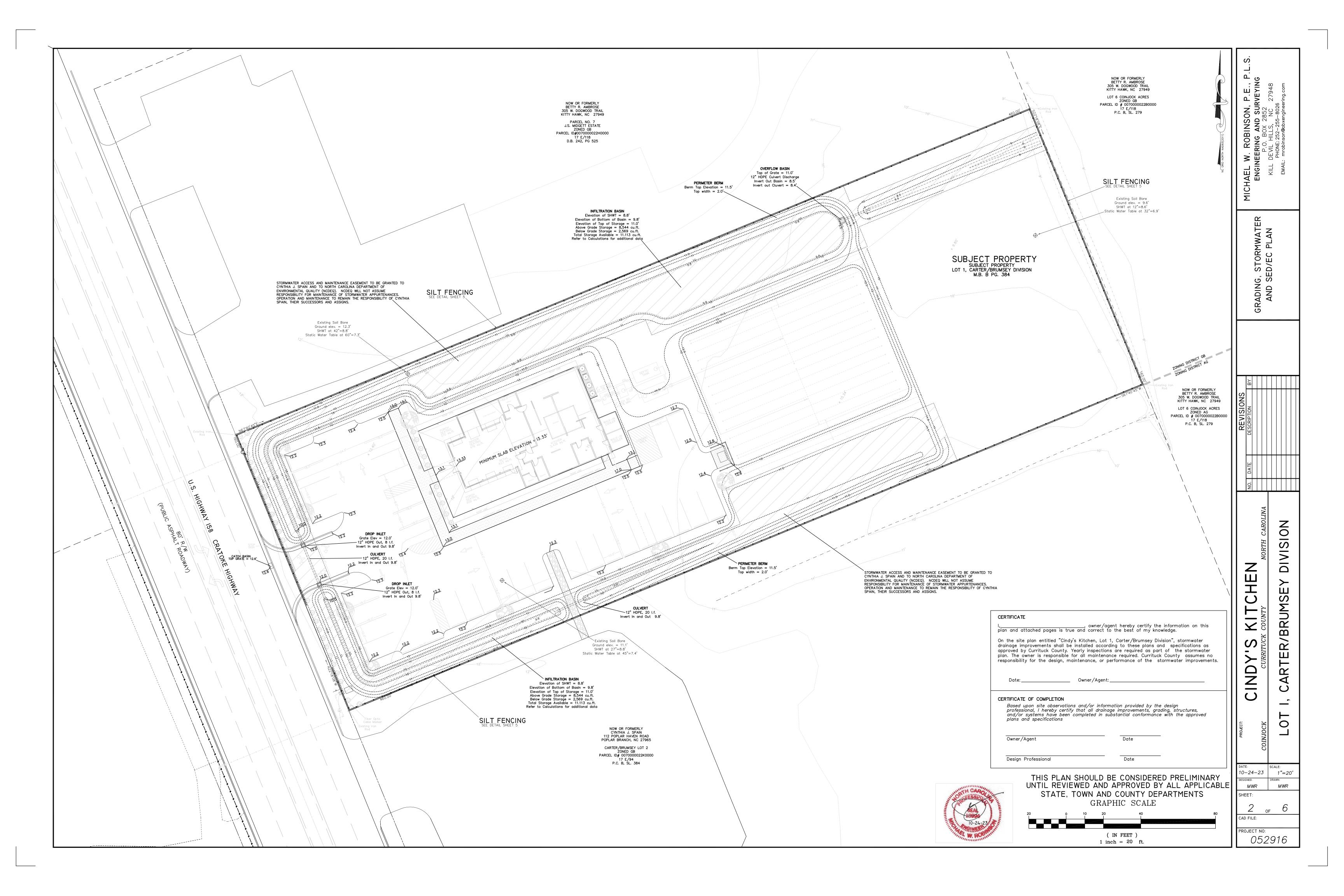


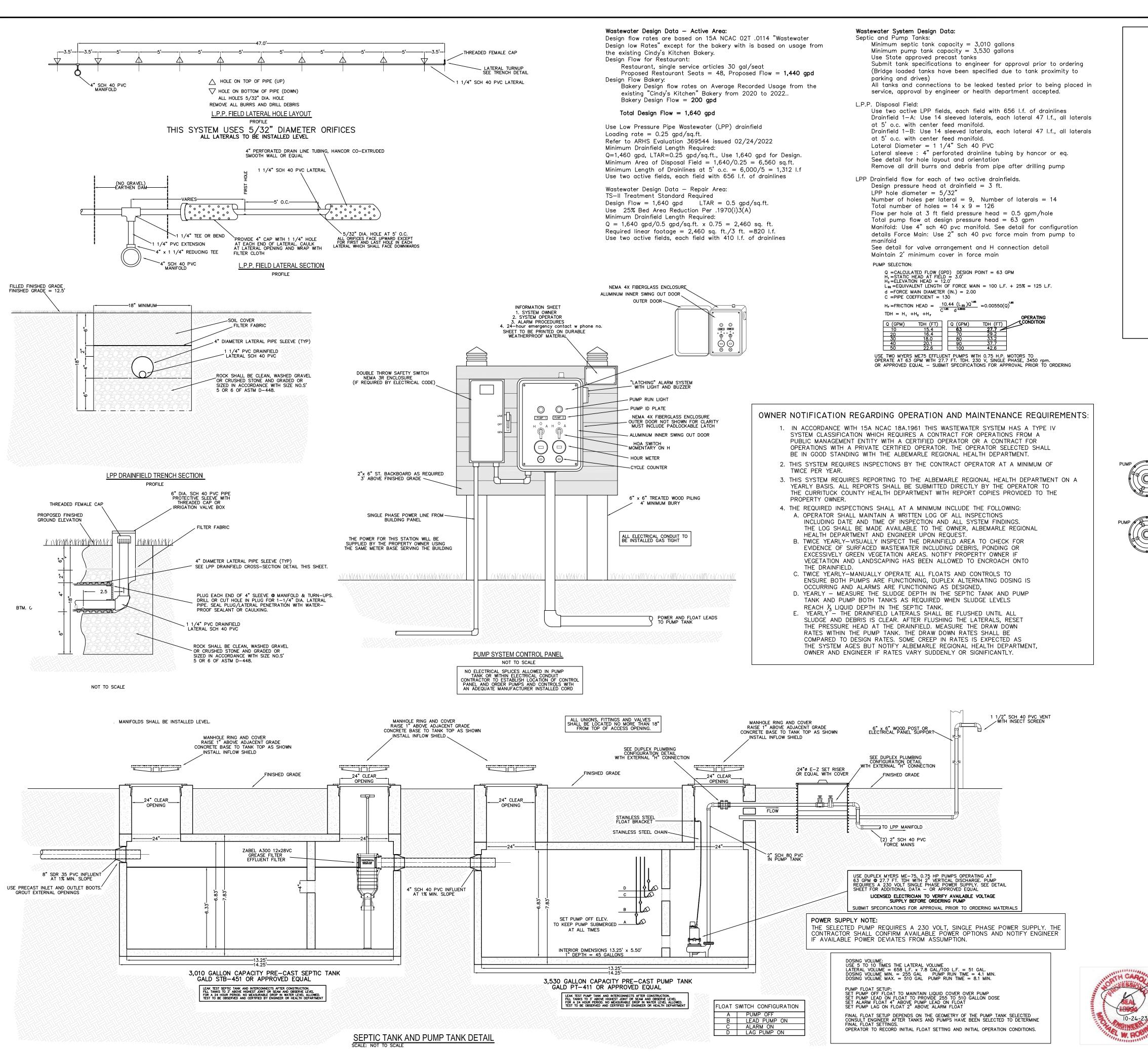
Designed: SWM Drawn: SWM Reviewed: DJW

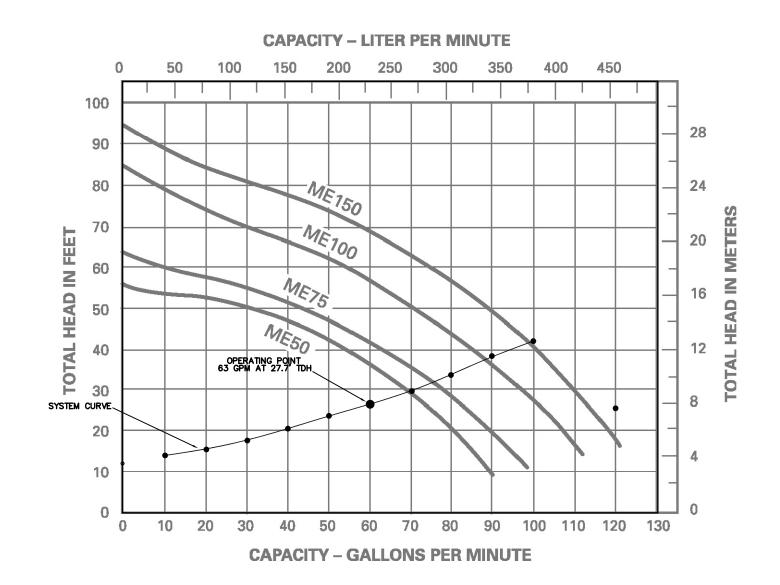
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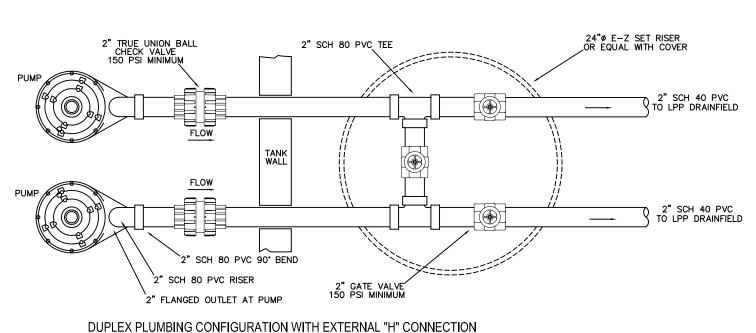
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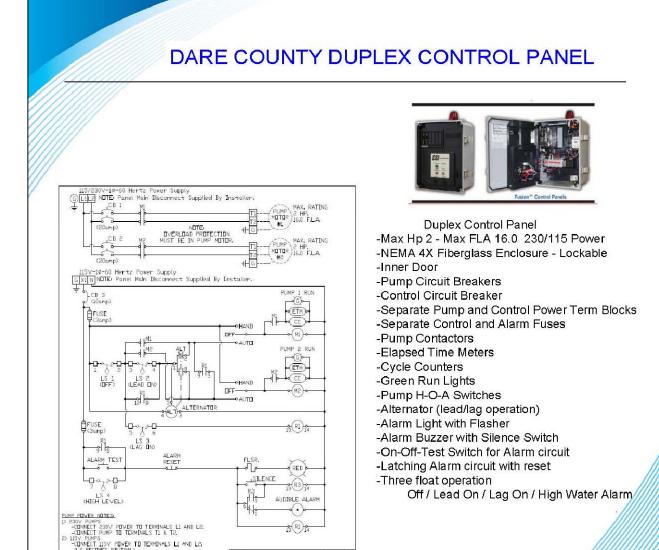
MWR

SHEET:

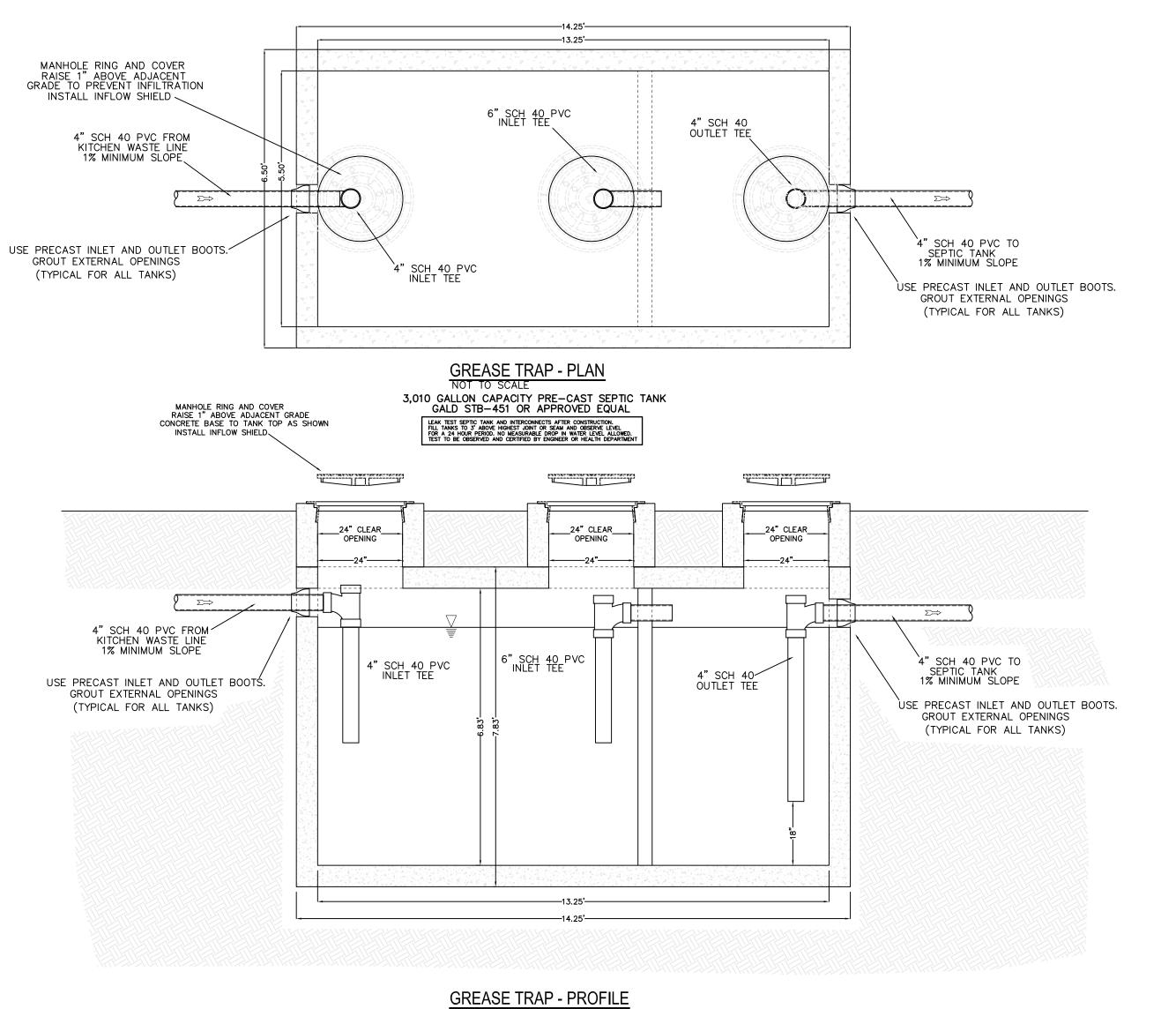
SYSTEM OPERATING CURVE

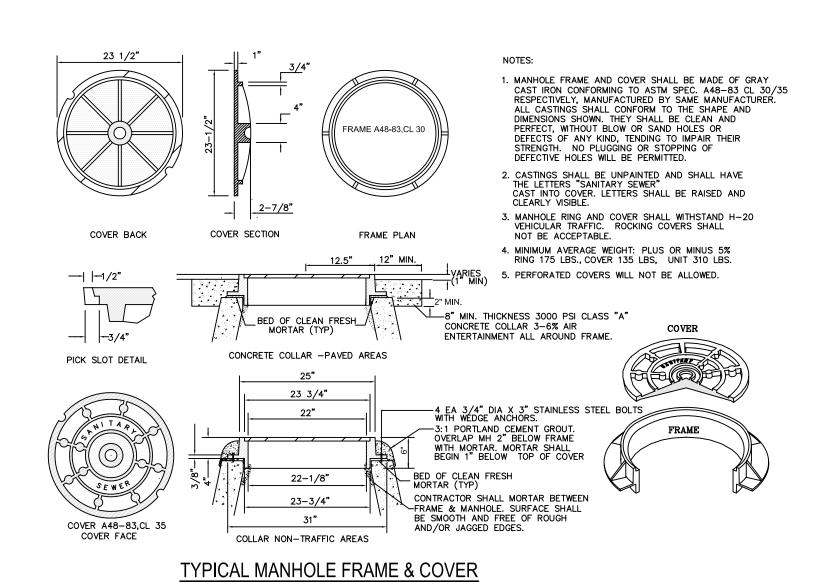


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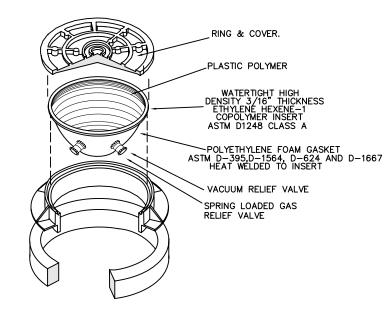






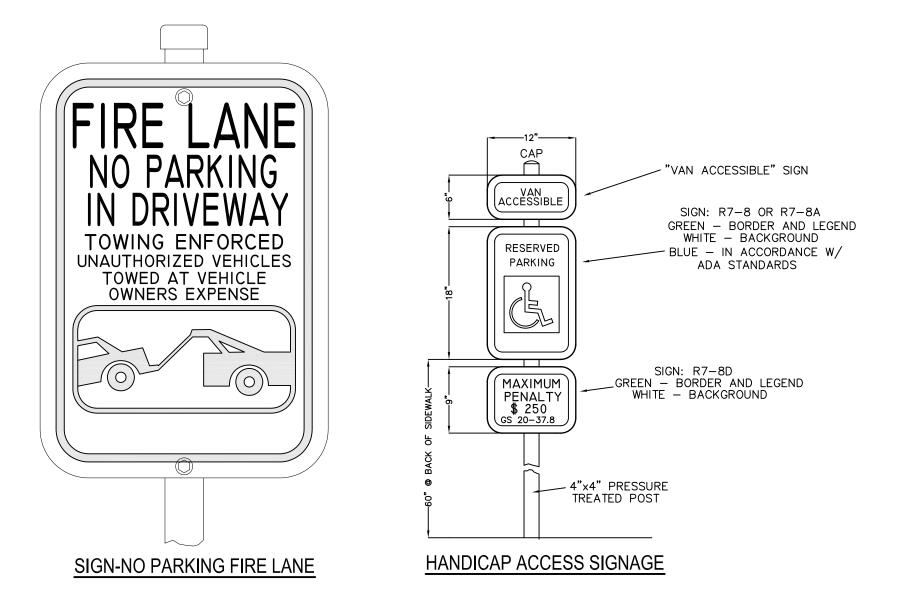


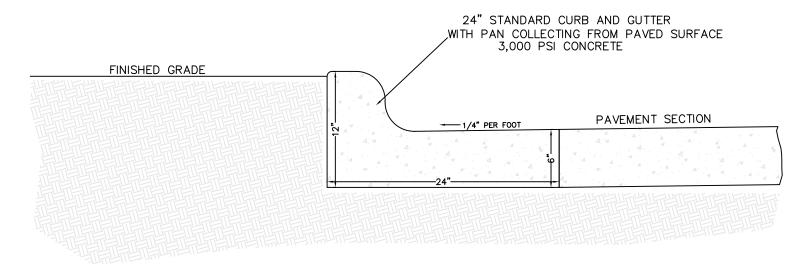




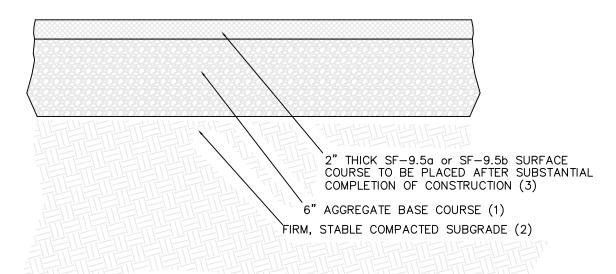
TYPICAL MANHOLE INSERT







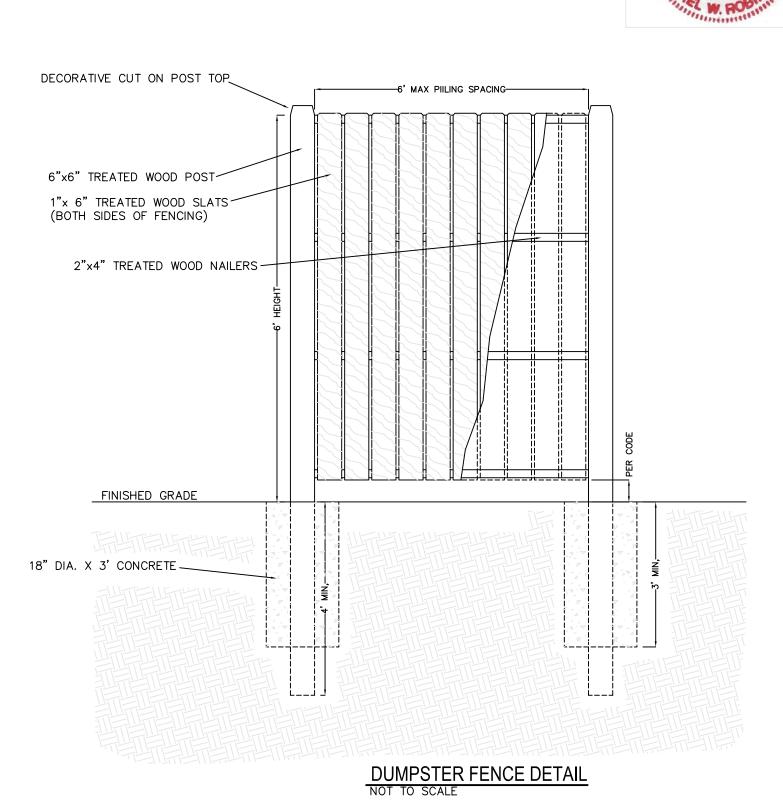
CONTRACTION JOINTS SHALL BE PLACED AT 10' INTERVALS.
ALL CONTRACTION JOINTS SHALL BE FILLED WITH JOINT FILLER AND SEALER. CURB AND GUTTER PAVING SECTION AA



#### OPTION-TYPICAL LIGHT DUTY ASPHALT PAVING SECTION

(1) NCDOT ABC materials compacted to a dry density of at least 100% of the Standard Proctor maximum dry density (ASTM D698) (2) Subgrade soils compacted to a dry density of at least 100% of the Standard Proctor maximum dry density (ASTM D698)

(3) Optional, surface course may be placed with original intermediate paving



REVISIONS	NO. DATE DESCRIPTION BY								
•		, , , , , , , , , , , , , , , , , , ,	CURRITUCK COUNTY NORTH CAROLINA						
PROJECT:			COINJOCK						
DATE 10- DESIG	-24- NED: MWF		3		AWN:	<b>"</b> =		)'	
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CAD FILE:

052916

HAEL W. ROBINSON, P.E., P.L ENGINEERING AND SURVEYING P.O. BOX 2852 KILL DEVIL HILLS, NC 27948 PHONE: 252-255-8026

#### SOIL EROSION & SEDIMENTATION CONTROL PLAN NOTES:

1. SOIL EROSION & SEDIMENT CONTROL PLAN NOTES;

CONSTRUCTION OR DEVELOPMENT

- AREA TO BE DISTURBED:  $\pm 110,000$  sq.ft. (2.53 ac.) b.) PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON ALL SLOPES 3:1 OR STEEPER WITHIN 7 CALENDAR DAYS AND ALL SLOPES FLATTER THAN 3:1 WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING. PROVIDE A PERMANENT GROUND COVER FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF
- c.) IF LAND DISTURBING ACTIVITIES OCCUR OUTSIDE THE PERMANENT VEGETATION SEEDING DATES (APR. 1- SEP.30) THEN TEMPORARY VEGETATION SEEDING SPECIFICATIONS SHALL BE FOLLOWED FOR PLANTING UNTIL THE NEXT APPROPRIATE PERMANENT SEEDING PERIOD, AT WHICH TIME PERMANENT VEGETATION SHALL BE ESTABLISHED ACCORDING TO PERMANENT VEGETATION SEEDING SPECIFICATIONS (SEE PERM. & TEMP. SEEDING SPECIFICATIONS ON SHEET ES2).
- d.) IF EXCESSIVE WIND EROSION OR STORMWATER RUNOFF EROSION DEVELOPS DURING TIME OF CONSTRUCTION ANY LOCATION ON THE PROJECT SITE, ADDITIONAL SILT FENCING OR OTHER MEASURES SHALL BE INSTALLED AS DIRECTED BY ENGINEER SO AS TO PREVENT DAMAGE TO ADJACENT PROPERTY. SEE SILT FENCE DETAIL ON
- e.) SOIL EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSPECTED WEEKLY AND AFTER ANY SIGNIFICANT RAINFALL PRODUCING EVENT AND SHALL BE MAINTAINED AND REPAIRED AS NECESSARY UNTIL PERMANENT CONTROLS ARE ESTABLISHED. f.) CONSTRUCTION SCHEDULE:
- 1) OBTAIN PLAN APPROVAL AND OTHER APPLICABLE PERMITS. NO WORK SHALL BE PERFORMED IN WETLAND AREAS PRIOR TO ISSUANCE OF ALL APPLICABLE USACE PERMITS.
- 2) FLAG AND/OR ROUGH STAKE WORK LIMITS. HOLD PRECONSTRUCTION CONFERENCE (OWNER, CONTRACTOR, ENGINEER, AND APPROPRIATE GOVERNMENT OFFICIALS) AT LEAST ONE WEEK PRIOR TO START OF CONSTRUCTION ACTIVITIES.
- 4) INSTALL SILT FENCING AT LOCATIONS SHOWN ON PLAN COMPLETE CLEARING AND GRUBBING PROCEDURES.
- GRADE SITE ACCORDING TO PLAN
- INSTALL INFILTRATION BASINS AND STORM SEWER. DROP INLETS TO BE PROTECTED WITH INLET PROTECTION UNTIL CONTRIBUTING DRAINAGE AREAS ARE STABILIZED. PIPE ENDS AT INFILTRATION BASINS SHALL BE PROTECTED WITH OUTLET PROTECTION.
- 8) INSTALL PERMEABLE PAVEMENT GRAVEL BASE. BASE LAYER TO BE PROTECTED FROM SEDIMENT AT ALL TIMES. CONSTRUCTION TRAFFIC TO BE RESTRICTED TO SPECIFIC AREAS WITHIN THE BASE (STAGING / WORK AREA TO BE DEFINED BY CONTRACTOR AND CLEARLY DEMARCATED UTILIZING BARRIERS/CONES/TAPE). ONCE HEAVY BUILDING CONSTRUCTION IS COMPLETE, STAGING / WORK AREA BASE MATERIAL WILL BE INSPECTED BY ENGINEER AND IF FOUND TO BE DEGRADED, IT SHALL BE REMEDIATED AT THE EXPENSE OF THE CONTRACTOR. INSTALLATION OF PERMEABLE CONCRETE PAVEMENT SHALL NOT TAKE PLACE UNTIL ALL EARTHWORK ACTIVITIES AND ALL HEAVY BUILDING CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. INSTALLED PERMEABLE CONCRETE SHALL BE PROTECTED FROM SEDIMENT AND FROM HEAVY CONSTRUCTION EQUIPMENT AT ALL TIMES.
- 9) ALL EROSION & SEDIMENTATION CONTROL PRACTICES WILL BE INSPECTED WFEKLY AND AFTER HEAVY RAINFALL EVENTS. NEEDED REPAIRS WILL BE MADE IMMEDIATELY.
- 10) ONCE SITE IS FULLY STABILIZED; REMOVE INLET AND OUTLET PROTECTION, CLEAN STORM SEWER OF ANY SEDIMENT, FINE-GRADE AND SEED OR LANDSCAPE INFILTRATION BASINS.

## PERMANENT VEGETATION SEEDING DATES: APRIL 1- SEPT 30

SEEDING DATES, AFRIL 1-	· 3EFT 30
SEED MIXTURE	APPLICATION RATES/ACRE
BAHIA	50 LBS.
COMMON BERMUDA (UNHULLED)	50 LBS.
GERMAN MILLETT	15 LBS.
FESCUE	20 LBS.
<u>FERTILIZER</u>	

TEMPORARY VEGETATION SEEDING DATES: OCT. 1 - MARCH 31 APPLICATION RATES/ACRE SEED MIXTURE RYE GRAIN 175 LBS. 10-10-10 @ 1000 LB/ACRE

APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

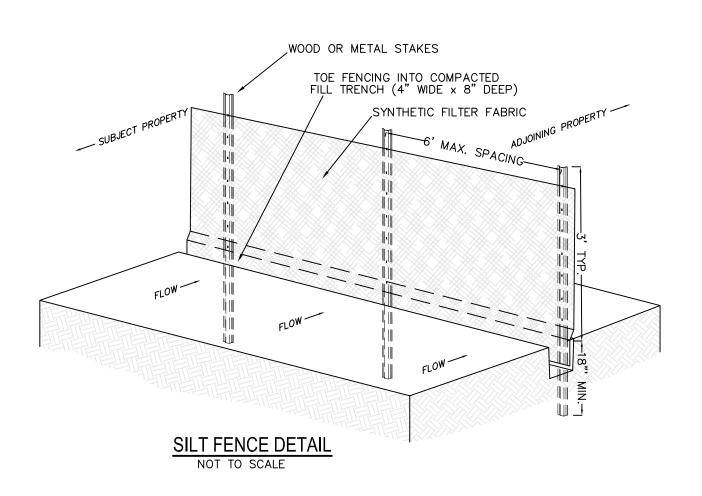
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

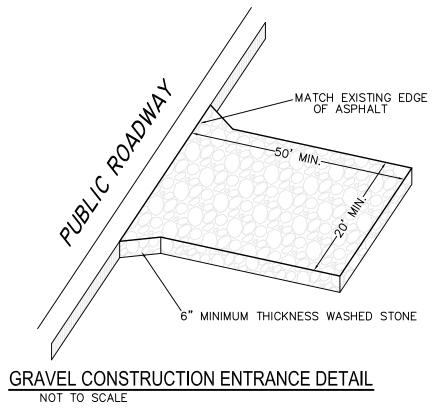
26-13-13 @ 500 LB/ACRE

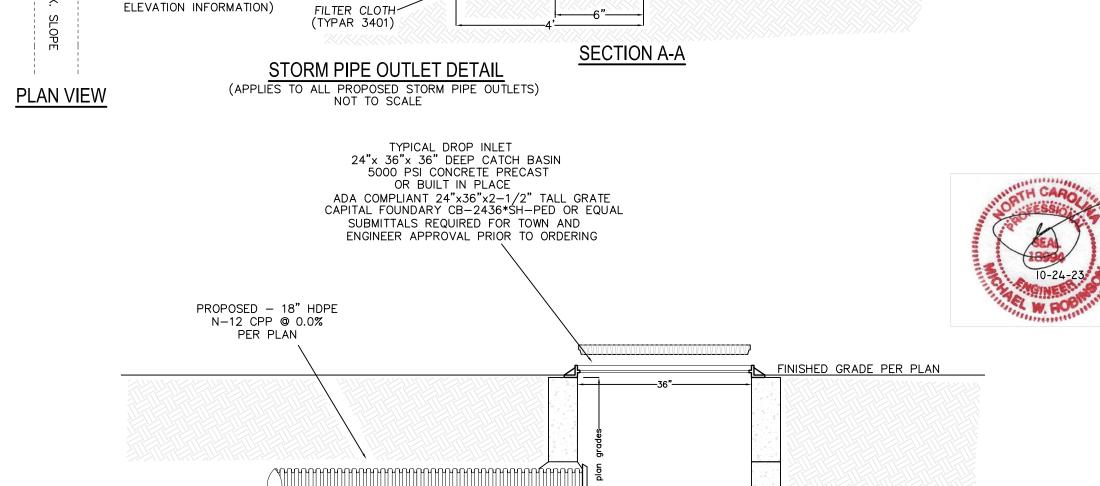
BE NEEDED TO MAINTAIN PRODUCTIVE STANDS.

GENERAL: FERTILIZER RATES SHOWN ARE GENERAL RECOMMENDATIONS; FREQUENCY AND AMOUNT OF FERTILIZATION CAN BEST BE DETERMINED THROUGH SITE SPECIFIC SOIL TESTING. MAINTENANCE: SATISFACTORY STABILIZATION AND EROSION CONTROL REQUIRES A COMPLETE VEGETATIVE COVER. EVEN SMALL BREACHES IN VEGETATIVE COVER CAN EXPAND RAPIDLY AND, IF LEFT UNATTENDED, CAN ALLOW SERIOUS SOIL LOSS FROM AN OTHERWISE STABLE SURFACE. A SINGLE HEAVY RAIN IS OFTEN SUFFICIENT TO GREATLY ENLARGE BARESPOTS, AND THE LONGER REPAIRS ARE DELAYED, THE MORE COSTLY THEY BECOME. PROMPT ACTION WILL KEEP SEDIMENT LOSS AND REPAIR COST DOWN. NEW SEEDLINGS SHOULD BE INSPECTED FREQUENTLY AND MAINTENANCE PERFORMED AS NEEDED. IF RILLS AND GULLIES DEVELOP, THEY MUST BE FILLED IN, RE-SEEDED, AND MULCHED AS SOON AS POSSIBLE. DIVERSIONS MAY BE NEEDED UNTIL NEW PLANTS TAKE HOLD. MAINTENANCE REQUIREMENTS EXTEND BEYOND THE SEEDING PHASE. WEAK OR DAMAGED SPOTS MUST BE RELIMED, FERTILIZED, MULCHED, AND RESEEDED AS PROMPTLY AS POSSIBLE. REFERTILIZATION MAY

#### SEEDING SPECIFICATIONS







DETAIL - PROPOSED DROP INLET TYPICAL

## GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH

mplementing the details and specifications on this plan sheet will result in the constructior activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction

#### SECTION E: GROUND STABILIZATION

	Re	equired Ground Stabil	ization Timeframes
Si	te Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a)	Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b)	High Quality Water (HQW) Zones	7	None
(c)	Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d)	Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e)	Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

#### GROUND STABILIZATION SPECIFICATION

Temporary Stabilization	Permanent Stabilization
Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Rolled erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting	Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Strubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt o retaining walls Rolled erosion control products with grass seed

#### POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

or surrounded by secondary containment structures.

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures. Apply flocculants at the concentrations specified in the NC DWR List of Approved
- PAMS/Flocculants and in accordance with the manufacturer's instructions. Provide ponding area for containment of treated Stormwater before discharging

Store flocculants in leak-proof containers that are kept under storm-resistant cover

- QUIPMENT AND VEHICLE MAINTENANCE Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment. Identify leaks and repair as soon as feasible, or remove leaking equipment from the
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible)
- Remove leaking vehicles and construction equipment from service until the problem
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

#### ITTER, BUILDING MATERIAL AND LAND CLEARING WASTE Never bury or burn waste. Place litter and debris in approved waste containers.

- Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes. Locate waste containers at least 50 feet away from storm drain inlets and surface
- waters unless no other alternatives are reasonably available. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland Cover waste containers at the end of each workday and before storm events or
- provide secondary containment. Repair or replace damaged waste containers. Anchor all lightweight items in waste containers during times of high winds. Empty waste containers as needed to prevent overflow. Clean up immediately if
- Dispose waste off-site at an approved disposal facility. On business days, clean up and dispose of waste in designated waste containers.

#### PAINT AND OTHER LIQUID WASTE

with properly operating unit.

- Do not dump paint and other liquid waste into storm drains, streams or wetlands Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area. Containment must be labeled, sized and placed appropriately for the needs of site. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from

#### construction sites.

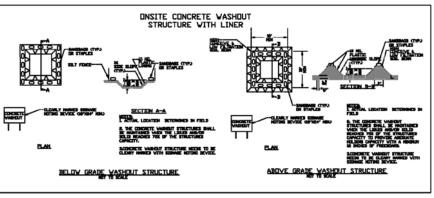
- PORTABLE TOILETS Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place
- on a gravel pad and surround with sand bags. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas. Monitor portable toilets for leaking and properly dispose of any leaked material.

Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

NORTH CAROLINA

**Environmental Quality** 



- Do not discharge concrete or cement slurry from the site. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility. Manage washout from mortar mixers in accordance with the above item and in
- addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence. Install temporary concrete washouts per local requirements, where applicable. If an
- alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or
- discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive
- spills or overflow. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the
- approving authority. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location. Remove leavings from the washout when at approximately 75% capacity to limit

overflow events. Replace the tarp, sand bags or other temporary structural

products, follow manufacturer's instructions. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

components when no longer functional. When utilizing alternative or proprietary

- Store and apply herbicides, pesticides and rodenticides in accordance with label
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.

#### HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site. Place hazardous waste containers under cover or in secondary containment.
- . Do not store hazardous chemicals, drums or bagged materials directly on the ground.

# Do not stockpile these materials onsite. EFFECTIVE: 04/01/19

#### SELF-INSPECTION, RECORDKEEPING AND REPORTING SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts.  If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	Identification of the measures inspected,     Date and time of the inspection,     Name of the person performing the inspection,     Indication of whether the measures were operating properly,     Description of maintenance needs for the measure,     Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDCs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	Identification of the discharge outfalls inspected,     Date and time of the inspection,     Name of the person performing the inspection,     Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration,     Indication of visible sediment leaving the site,     Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made:  1. Actions taken to clean up or stabilize the sediment that has left the site limits,  2. Description, evidence, and date of corrective actions taken, and  3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible) (6) Ground stabilization measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours After each phase of grading	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made:  1. Description, evidence and date of corrective actions taken, and  2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.  1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover).  2. Documentation that the required ground stabilization
		measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

#### SELF-INSPECTION, RECORDKEEPING AND REPORTING SECTION B: RECORDKEEPIN

#### The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for

INVERT PER GRADING PLAN.

(SEE PLANS FOR CONTOUR

Item to Document	Documentation Requirements					
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.					
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.					
(c) Ground cover is located and installed in accordance with the approved E&SC	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection					

report to indicate compliance with approved

ground cover specifications. (d) The maintenance and repair Complete, date and sign an inspection report. requirements for all E&SC measures have been performed. (e) Corrective actions have been taken Initial and date a copy of the approved E&SC to E&SC measures. plan or complete, date and sign an inspection report to indicate the completion of the 2. Additional Documentation to be Kept on Site

#### site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

In addition to the E&SC plan documents above, the following items shall be kept on the

- (a) This General Permit as well as the Certificate of Coverage, after it is received.
- (b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records. 3. Documentation to be Retained for Three Years

#### All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,

PART II, SECTION G, ITEM (4) DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

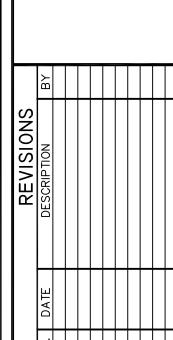
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit, (c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems, (d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,

(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and (f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

L W. ROBINSON, I GINEERING AND SURY P.O. BOX 2852 ILL DEVIL HILLS, NC ◀ △

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They are 25 gallons or more,

SELF-INSPECTION, RECORDKEEPING AND REPORTING

#### They are less than 25 gallons but cannot be cleaned up within 24 hours, They cause sheen on surface waters (regardless of volume), or

(a) Visible sediment deposition in a stream or wetland.

Permittees shall report the following occurrences:

1. Occurrences that Must be Reported

- They are within 100 feet of surface waters (regardless of volume). ) Releases of hazardous substances in excess of reportable quantities under Section 311
- of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- d) Anticipated bypasses and unanticipated bypasses.
- e) Noncompliance with the conditions of this permit that may endanger health or the

#### Reporting Timeframes and Other Requirements

may endanger

health or the

environment[40

CFR 122.41(I)(7)]

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800)

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	A report at least ten days before the date of the bypass, if possible.  The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that	Within 24 hours, an oral or electronic notification.     Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance,

noncompliance, and its causes; the period of noncompliance

including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(I)(6). Division staff may waive the requirement for a written report on a case-by-case basis.



**EFFECTIVE: 04/01/19** 

PROJECT NO:

10-24-23

MWR

SHEET:

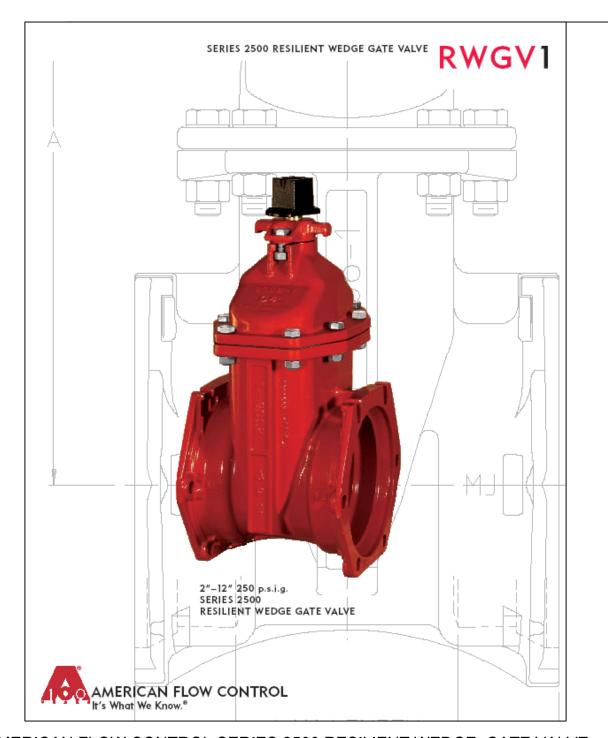
CAD FILE:

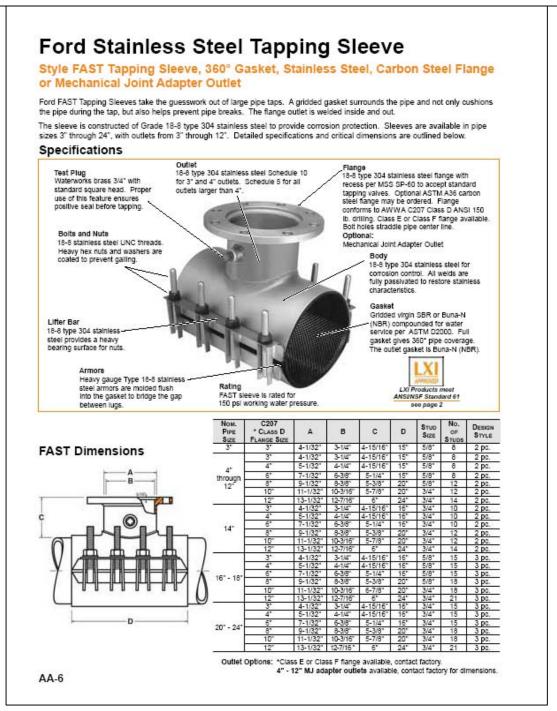
1"=20

MWR

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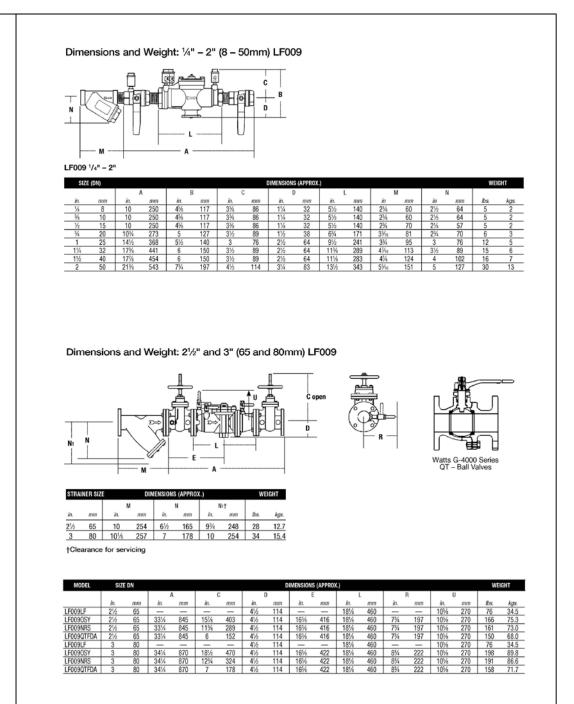
NCG01 GROUND STABILIZATION AND MATERIALS HANDLING









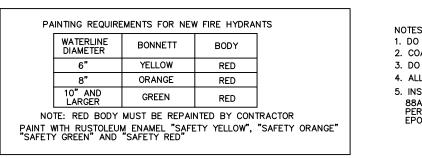


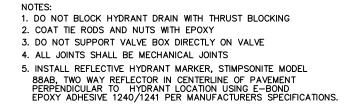
AMERICAN FLOW CONTROL SERIES 2500 RESILIENT WEDGE GATE VALVE

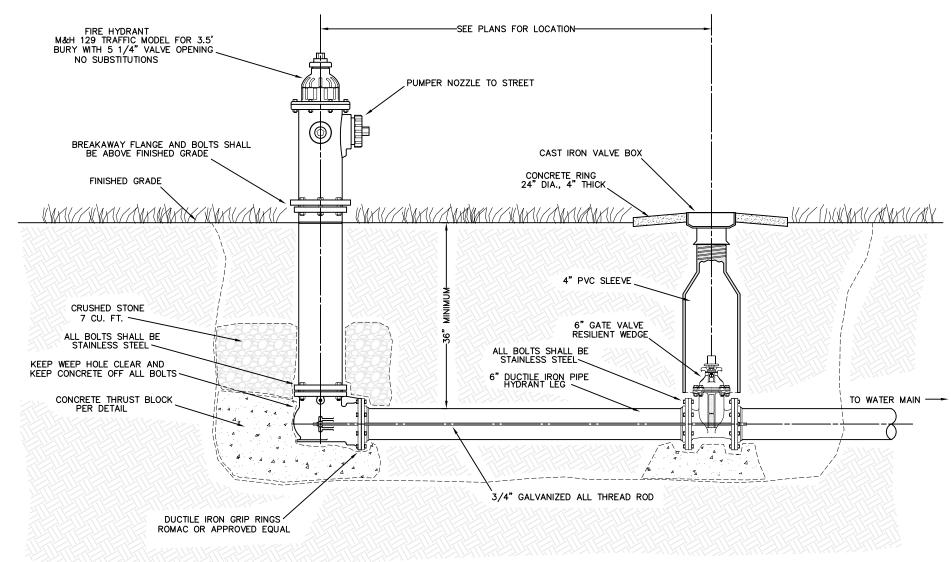
CLOW MODEL MJ-F6100 OR APPROVED EQUAL



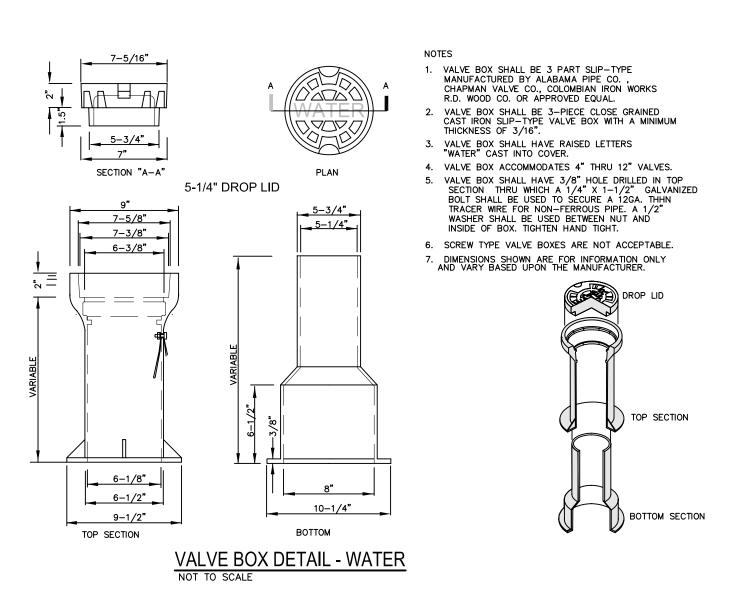
M & H AWWA C502, MODEL 129- TRAFFIC MODEL FIRE HYDRANT NO SUBSTITUTIONS PERMITTED



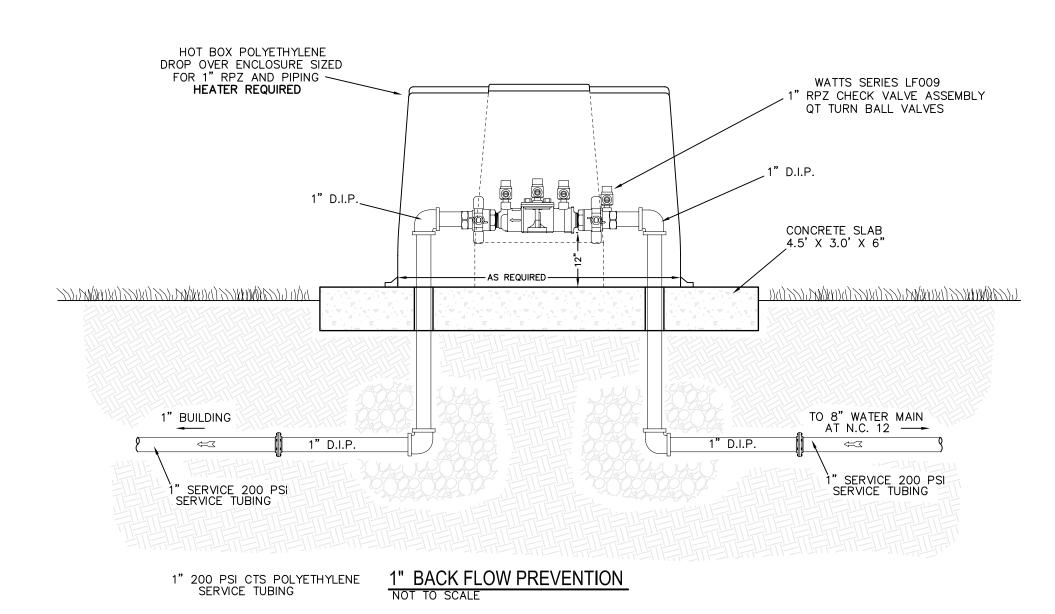


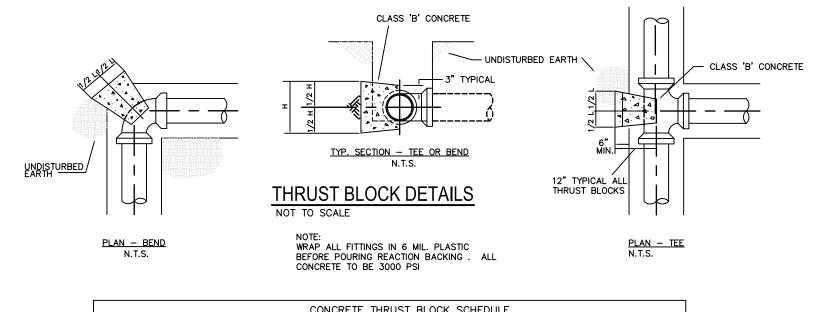


FIRE HYDRANT AND VALVE INSTALLATION DETAIL









CONCRETE THRUST BLOCK SCHEDULE																
PIPE	D_	BEND										DESIGN				
SIZE DEAD END				90°			45°			22 1/2°		11 1/4°			PRESSURE	
INCHES	Н	L	C.Y.	Н	L	C.Y.	Н	L	C.Y.	Н	L	C.Y.	Ι	L	C.Y.	PSI
4" & 2"	1.5'	2.0'	0.11	1.5	2.0'	0.11	1.5'	2.0'	0.11	1.5	2.0	0.11	1.5	2.0	0.11	150
6"	2.5'	2.5'	0.23	2.5'	2.5'	0.23	1.5'	2.0'	0.11	1.5	2.0	0.11	1.5	2.0	0.11	150
8"	2.5'	2.5'	0.23	3.0	3.0	0.33	2.5'	2.5'	0.23	1.5	2.0	0.11	1.5	2.0	0.11	150



	DATE: 10-24-23	SCALE: 1"=20'
CARO		DRAWN:
810	MWR	MWR
	SHEET:	
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0-24-23	CAD FILE:	
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PRELIMINARY SENERAL DETAILS

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