

01 VICINITY PLAN
NO SCALE

DESIGN NO. U419 / U465
NONBEARING WALL RATINGS --- 1, 2, 3 OR 4 HR (SEE ITEMS 4 & 5)

1. FLOOR AND CEILING RUNNERS --- (NOT SHOWN) --- FOR USE WITH ITEM 2 - CHANNEL SHAPED, FABRICATED FROM MIN 25 MSG CORROSION-PROTECTED STEEL, MIN WIDTH TO ACCOMMODATE STUD SIZE, WITH MIN 1 IN. LONG LEGS, ATTACHED TO FLOOR AND CEILING WITH FASTENERS 24 IN. OC MAX.

1A. FLOOR AND CEILING RUNNERS* --- NOT SHOWN - IN LIEU OF ITEM 1 --- FOR USE WITH ITEM 2A, PROPRIETARY CHANNEL SHAPED, MIN. 3-5/8 IN. WIDE WITH 1 IN. LONG LEGS, FABRICATED FROM MIN. 0.0150 IN. (0.0149 IN. MIN BARE METAL THICKNESS) GALVANIZED STEEL, ATTACHED TO FLOOR AND CEILING WITH FASTENERS 24 IN. OC MAX.

DIETRICH INDUSTRIES INC --- ULTRASTEEL?

1B. FLOOR AND CEILING RUNNERS --- (NOT SHOWN - IN LIEU OF ITEM 1B) PROPRIETARY CHANNEL SHAPED, MIN. 2-9/16 IN. WIDE WITH 1-3/16 IN. LONG LEGS, FABRICATED FROM MIN. 0.0150 IN. GALVANIZED STEEL, ATTACHED TO FLOOR AND CEILING FASTENERS 24 IN. OC MAX.

DIETRICH INDUSTRIES INC --- ULTRASTEEL?

2. STEEL STUDS --- CHANNEL SHAPED, FABRICATED FROM MIN 25 MSG CORROSION-PROTECTED STEEL, MIN WIDTH AS INDICATED UNDER ITEM 5, MIN 1-1/4 IN. FLANGES AND 1/4 IN. RETURN, SPACED A MAX OF 24 IN. OC. STUDS TO BE CUT 3/8 TO 3/4 IN. LESS THAN ASSEMBLY HEIGHT.

2A. STEEL STUDS* --- IN LIEU OF ITEM 2 - PROPRIETARY CHANNEL SHAPED STUDS, MIN. WIDTH AS INDICATED UNDER ITEM 5, MIN 1-1/4 IN. LONG LEGS AND 1/4 IN. LONG FOLDED BACK RETURN FLANGE LEGS, FABRICATED FROM MIN. 0.0155 IN. (0.0149 IN. MIN BARE METAL THICKNESS) GALVANIZED STEEL, SPACED A MAX OF 24 IN. OC. STUDS TO BE CUT 3/8 TO 3/4 IN. LESS THAN ASSEMBLY HEIGHT. ALLOWABLE USE OF STUDS IS SHOWN IN THE TABLE BELOW FOR DIRECT ATTACHMENT OF GYPSUM BOARD ONLY.

DIETRICH INDUSTRIES INC --- ULTRASTEEL?

2B. STEEL STUDS --- (AS AN ALTERNATE TO ITEM 2, FOR USE WITH ITEM 5B) CHANNEL SHAPED, FABRICATED FROM MIN 25 MSG CORROSION-PROTECTED OR GALV STEEL, 3-1/2 IN. MIN WIDTH, MIN 1-1/2 IN. FLANGES AND 1/4 IN. RETURN, SPACED A MAX OF 18 IN. OC. STUDS FRICION-FIT INTO FLOOR AND CEILING RUNNERS. STUDS TO BE CUT 5/8 TO 3/4 IN. LESS THAN ASSEMBLY HEIGHT.

3. WOOD STRUCTURAL PANEL SHEATHING --- (OPTIONAL, FOR USE WITH ITEM 5 ONLY) --- (NOT SHOWN) - 4 FT WIDE, 7/16 IN. THICK ORIENTED STRAND BOARD (OSB) OR 15/32 IN. THICK STRUCTURAL 1 SHEATHING (PLYWOOD) COMPLYING WITH DCC 251 OR 252, OR APA STANDARD PRP-108, MANUFACTURED WITH EXTERIOR GLUE, APPLIED HORIZONTALLY OR VERTICALLY TO THE STEEL STUDS. VERTICAL JOINTS CENTERED ON STUDS, AND STAGGERED ONE STUD SPACE FROM WALLBOARD JOINTS. ATTACHED TO STUDS WITH FLAT-HEAD SELF-DRILLING TAPPING SCREWS WITH A MIN. HEAD DIAM. OF 0.292 IN. AT MAXIMUM 8 IN. OC. IN THE PERIMETER AND 12 IN. OC. IN THE FIELD.

4. BATTS AND BLANKETS* --- (REQUIRED AS INDICATED UNDER ITEM 5) --- MINERAL WOOL BATTS, FRICTION FITTED BETWEEN STUDS AND RUNNERS, MIN NOM THICKNESS AS INDICATED UNDER ITEM 5. SEE BATTS AND BLANKETS (BKNV OR BZZZ) CATEGORIES FOR NAMES OF CLASSIFIED COMPANIES.

4A. BATTS AND BLANKETS* --- (OPTIONAL) --- PLACED IN STUD CAVITIES, ANY GLASS FIBER OR MINERAL WOOL INSULATION BEARING THE UL CLASSIFICATION MARKING AS TO SURFACE BURNING CHARACTERISTICS AND/OR FIRE RESISTANCE. SEE BATTS AND BLANKETS (BKNV OR BZZZ) CATEGORIES FOR NAMES OF CLASSIFIED COMPANIES.

5. GYPSUM BOARD* --- GYPSUM PANELS WITH BEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY OR HORIZONTALLY, VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED ONE STUD CAVITY ON OPPOSITE SIDES OF STUDS. VERTICAL JOINTS IN ADJACENT LAYERS (MULTI-LAYER SYSTEMS) STAGGERED ONE STUD CAVITY. HORIZONTAL JOINTS NEED NOT BE STAGGERED. HORIZONTAL EDGE JOINTS AND HORIZONTAL BUTT JOINTS ON OPPOSITE SIDES OF STUDS NEED NOT BE STAGGERED. HORIZONTAL EDGE JOINTS AND HORIZONTAL BUTT JOINTS IN ADJACENT LAYERS (MULTI-LAYER SYSTEMS) STAGGERED A MIN OF 12 IN. THE THICKNESS AND NUMBER OF LAYERS FOR THE 1 HR, 2 HR, 3 HR AND 4 HR RATINGS ARE AS FOLLOWS:

WALLBOARD PROTECTION ON EACH SIDE OF WALL				
RATING	MIN STUD DEPTH, ITEM 2	MIN STUD DEPTH, ITEM 2A	NO. OF LAYERS & THICKS OF PANEL	MIN THICKS OF INSULATION (ITEM 4)
1	3-1/2	3-5/8	1 LAYER, 5/8 IN. THICK	OPTIONAL
1	2-1/2	3-5/8	1 LAYER, 1/2 IN. THICK	1-1/2 IN.
1	1-5/8	3-5/8	1 LAYER, 1/4 IN. THICK	OPTIONAL
2	1-5/8	2-1/2	2 LAYERS, 1/2 IN. THICK	OPTIONAL
2	1-5/8	2-1/2	2 LAYERS, 5/8 IN. THICK	OPTIONAL
2	1-5/8	2-1/2	2 LAYERS, 1/2 IN. THICK	OPTIONAL
3	1-5/8	2-1/2	2 LAYERS, 3/4 IN. THICK	OPTIONAL
3	1-5/8	2-1/2	2 LAYERS, 1/2 IN. THICK	OPTIONAL
4	1-5/8	2-1/2	4 LAYERS, 5/8 IN. THICK	OPTIONAL
4	1-5/8	2-1/2	4 LAYERS, 3/4 IN. THICK	OPTIONAL

CANADIAN GYPSUM COMPANY --- 1/2 IN. THICK TYPE C, IP-X2, IPC-AR, WRC, 5/8 IN. THICK TYPE AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCK, SHX, WRX OR WRC, 3/4 IN. THICK TYPES IP-X3 OR ULTRACODE

UNITED STATES GYPSUM CO --- 1/2 IN. THICK TYPE C, IP-X2, IPC-AR OR WRC, 5/8 IN. THICK TYPE SCK, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR ; 3/4 IN. THICK TYPES IP-X3 OR ULTRACODE

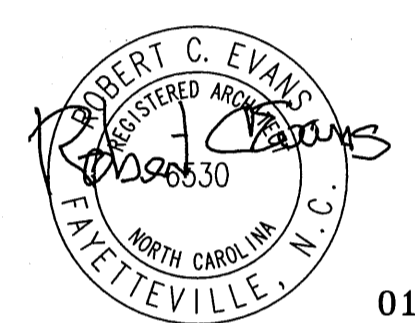
PAC INTERNATIONAL, INC --- 7B. STEEL FRAMING MEMBERS (OPTIONAL, NOT SHOWN)* --- TYPES R5C-1, R5C-V, CHANNELS AND STEEL FRAMING MEMBERS ON ONLY ONE SIDE OF STUDS AS DESCRIBED BELOW.

U419
02 1 HR. RATED WALL
NO SCALE

RENOVATIONS FOR:
Burney's
Sweets & More

2668 NC 24 / 87
BRINKLEY COMMONS
CAMERON, NORTH CAROLINA 28326

ROBERT CHARLES EVANS
ARCHITECT
ARCHITECTURE
645 Pearl Street Fayetteville, North Carolina 28303



01.05.23

A0.1

MATERIAL LEGEND

CONCRETE	BATT INSULATION
EARTH	STEEL
WOOD FRAMING	CONCRETE BLOCK
WOOD TRIM	BRICK
PLYWOOD	GYPSUM BOARD
CARPET	CAULKING

DRAWING SYMBOLS

GENERAL NOTES

- ALL WORK ON THIS APPLICATION SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES, LAWS AND ORDINANCES.
- THE CONTRACTOR SHALL REFER TO DIMENSIONS AND SHALL NOT SCALE THESE DRAWINGS.
- ALL DIMENSIONS ARE SHOWN TO THE FACE OF ROUGH EXCEPT WHERE NOTED OTHERWISE.
- NO LOADS SHALL BE APPLIED TO SUSPENDING CEILING.
- THE CONTRACTOR SHALL PROVIDE SCHEDING, BRACING, ETC. FOR FIXTURES, SHELVING, TRIM, GYPSUM BOARD, DECORING, PLUMBING FIXTURES, ETC. WHERE THEY ARE REQUIRED.
- THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY AND CORRECT ALL DIMENSIONS AND DETAILS PRIOR TO PROCEEDING WITH ANY WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER IN WRITING IMMEDIATELY.

ABBREVIATIONS

ALUM - Aluminum	INSUL - Insulation
ARCH - Architectural	L - Linen
BD - Board	MFR - Manufacturer
BL - Blank	MR - Microwave
CL - Centerline	OC - On Center
CLD - Ceiling	OPP - Opposite
COL - Column	PLNK - Plywood
CONC - Concrete	Q - Quarry
CONT - Continuation	R - Rod
DN - Dimension	RSTO - Restroom
DIP - Dip	RFOR - Refrigerator
DN - Down	S.F. - Square Feet
DS - Downspout	SM - Similar
DR - Door	
EA - Each	
EQ - Equal	
FIN - Finish	
FN - Filled	
G.C. - General Contractor	
OPP - Opposite	
HR - Head	
HBR - Header	
HR - Hour	

CONSULTANTS

MECHANICAL

JENKINS
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OFFICE IN EUREKA SPRINGS, NORTH CAROLINA
1582 MORTIMER RD. FAYETTEVILLE, NC 28311-1002
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DRAWING LIST

ARCHITECTURAL
A0.1 PROJECT INFORMATION
A0.2 APPENDIX B
A1.1 FLOOR PLAN / LIFE SAFETY
A2.1 SECTION / ELEVATION

MECHANICAL
M1 MECHANICAL DETAILS
M2 MECHANICAL PLAN
M3 GAS RISER PLAN
M4 ROOFTOP MECHANICAL PLAN

ELECTRICAL
E1 PANEL SCHEDULES / DETAILS
E2 POWER / LIGHTING PLAN

WALL DETAIL

TYPICAL
03 TYPICAL PARTITION
3" = 1'0"

NORTH CAROLINA BUILDING CODE SUMMARY - NC 2018 BUILDING CODE

NAME OF PROJECT: RENOVATIONS FOR: BURNEY'S SWEETS AND MORE
PROJECT ADDRESS: 2668 NC HWY 24/87, BRINKLEY COMMONS, CAMERON, NC 28326
OWNER / CONTACT: WYMAN NICHOLS
PHONE #: TELEPHONE: 910.303.4380
EMAIL: leon.kinghvac@gmail.com

DESIGN PROFESSIONALS

Table with columns: CONTACT, DESIGNER, ARCHITECTURAL, CIVIL, ELECTRICAL, FIRE ALARM, PLUMBING, MECHANICAL, SPRINKLER, STRUCTURAL, RETAINING WALL, OTHER.

BUILDING CODE DATA

2018 NC BUILDING CODE: [] NEW BUILDING [] ADDITION [] RENOVATION
2018 NC EXISTING BUILDING CODE: EXISTING: [] PREScriptive [] REPAIR [] CHAPTER 14
RISK CATEGORY: (Table 1604.5) CURRENT: [] I [] II [] III [] IV PROPOSED: [] I [] II [] III [] IV

BASIC BUILDING DATA

CONSTRUCTION TYPE: [] I-A [] I-B [] II-A [] II-B [] III-A [] III-B [] IV-A [] IV-B [] V-A [] V-B
SPRINKLERS: [] NO [] PARTIAL [] YES
FLOOD HAZARD: [] NO [] YES
BUILDING HEIGHT: 12'-0" FEET, NUMBER OF STORIES [] UNLIMITED PER

ALLOWABLE AREA

Table with columns: STORY NO., DESCRIPTION AND USE, (A) BLDG AREA PER STORY (ACTUAL), (B) TABLE 506.2.4 AREA, (C) AREA FOR OPEN SPACE INCREASE 1.5, (D) ALLOWABLE AREA OR UNLIMITED 1.3.

Table with columns: BUILDING HEIGHT IN FEET (TABLE 504.3), BUILDING HEIGHT IN STORIES (TABLE 504.4), ALLOWABLE, SHOWN ON PLANS, CODE REFERENCE.

FIRE RESISTANCE RATINGS

Table with columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE (FEET), REQ'D, RATING PROVIDED (W/ REDUCTION), DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY, DESIGN # FOR RATED PENETRATION, DESIGN # FOR RATED JOINTS.

PERCENTAGE OF WALL OPENINGS CALCULATIONS

Table with columns: WALL, FIRE SEPARATION DISTANCE FROM PROPERTY LINE (FEET), DEGREE OF OPENINGS PROTECTION TABLE 705.8, PERCENTAGE OF ALLOWABLE AREA, ACTUAL PERCENTAGE OF OPENING ON PLANS.

LIFE SAFETY SYSTEMS

EMERGENCY LIGHTING: [] NO [] YES
EXIT SIGNS: [] NO [] YES
FIRE ALARM: [] NO [] YES
LIFE SAFETY PLAN: A1.1

EXIT REQUIREMENTS

Table with columns: FLOOR, ROOM OR SPACE DESIGNATION, MINIMUM NUMBER OF EXITS REQUIRED, TRAVEL DISTANCE, ARRANGEMENT MEANS OF EGRESS.

ACCESSIBLE DWELLING UNITS (SECTION 1107)

Table with columns: TOTAL UNITS, ACCESSIBLE UNITS REQUIRED, ACCESSIBLE UNITS PROVIDED, TYPE A UNITS REQUIRED, TYPE A UNITS PROVIDED, TYPE B UNITS REQUIRED, TYPE B UNITS PROVIDED, TOTAL ACCESSIBLE UNITS PROVIDED.

ACCESSIBLE PARKING (SECTION 1106)

Table with columns: LOT OR PARKING AREA, TOTAL # OF PARKING SPACES REQUIRED, PROVIDED, # OF ACCESSIBLE SPACES PROVIDED.

PLUMBING FIXTURE REQUIREMENTS

Table with columns: USE, WATERCLOSETS, URINALS, LAVATORIES, SHOWERS, DRINKING FOUNTAINS, SERVICE SINKS, NOTES & EXCEPTIONS.

SPECIAL APPROVALS

(Describe special approvals from local jurisdictions, County of State Department of Health, NC Department of Insurance, International Code Council, etc.)

ENERGY SUMMARY

EXISTING BUILDING ENVELOPE COMPLES WITH CODE: [] NO [] YES [] UNKNOWN
THERMAL ENVELOPE (PREScriptive METHOD ONLY)
ROOF/CEILING ASSEMBLY: WOOD TRUSS
WALLS BELOW GRADE: [] NO [] YES [] UNKNOWN

STRUCTURAL DESIGN

DESIGN LOADS: IMPORTANCE FACTORS: SNOW SEISMIC
LIVE LOADS: ROOF MEZZANINE FLOOR
WIND LOADS: BASIC WIND SPEED mph (ASCE-7) EXPOSURE CATEGORY
SEISMIC DESIGN CATEGORY: [] A [] B [] C [] D

SPECIAL INSPECTIONS CHAPTER 17

SPECIAL INSPECTIONS SHALL BE CONDUCTED ON ALL PROJECTS THAT FALL WITHIN BUILDING CATEGORIES AND/OR CONTAIN ELEMENTS SUBJECT TO SPECIAL INSPECTIONS AS PRESCRIBED BY REVISED SECTION 1704.
List whom will inspect the required special inspections: Fabricator of load bearing components, Soil tests, Concrete, caissons, piles, piers, precast, Post-tension concrete, Modular construction, Steel and connections, welds, bolts, anchors, Fire spray tests, Smoke control, Seismic wind designs, Quality Assurance, Retaining wall, Masonry, Wood, Alternate Methods, EFS, Other (describe), Other (describe), Owner or agent.

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance: [] Prescriptive [] Performance [] Energy Cost Budget
Lighting schedule
Equipment schedules with motors (not used for mechanical systems)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
THERMAL ZONE
Exterior design conditions
Interior design conditions
BUILDING HEATING LOAD
BUILDING COOLING LOAD
MECHANICAL SPACING CONDITIONING SYSTEM

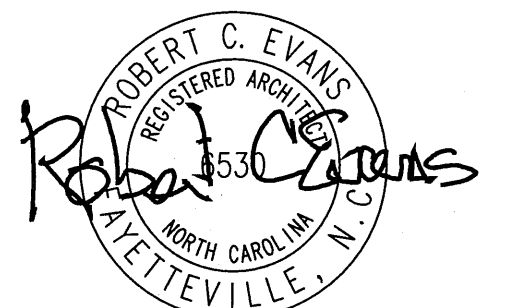
SHELL VARIABLE FORM

Check each applicable line to match scope of work. Edit as necessary to provide clear detail of installation.
MECHANICAL: [] No work [] Equipment set with without power [] Gas line
PLUMBING: [] No work [] Install water service and sewer [] Install complete plumbing system
ELECTRICAL: [] House panel (CONNECTING TO) [] Service laterals to meter centers/panels located on buildings

WALL LEGENDS

[] FIRE PARTITIONS 709 [] FIRE WALLS 706 [] FIRE BARRIERS 707
[] SMOKE PARTITIONS 711 [] SMOKE BARRIERS 710 [] SHAFT ENCLOSURE 708

OCCUPANT CONTENT table with columns: ROOM, AREA, PERSONS. Includes Kitchen (416 sf / 200 = 3 PERSONS), SALES/CUSTOMER (602 sf / 100 = 7 PERSONS), OCCUPANT CONTENT 10 PERSONS.



01.05.23
ROBERT CHARLES EVANS ARCHITECT ARCHITECTURE
545 Pearl Street Fayetteville North Carolina 28303

Burney's Sweets & More Renovations

Drawing Name: Appendix B

Project Name:

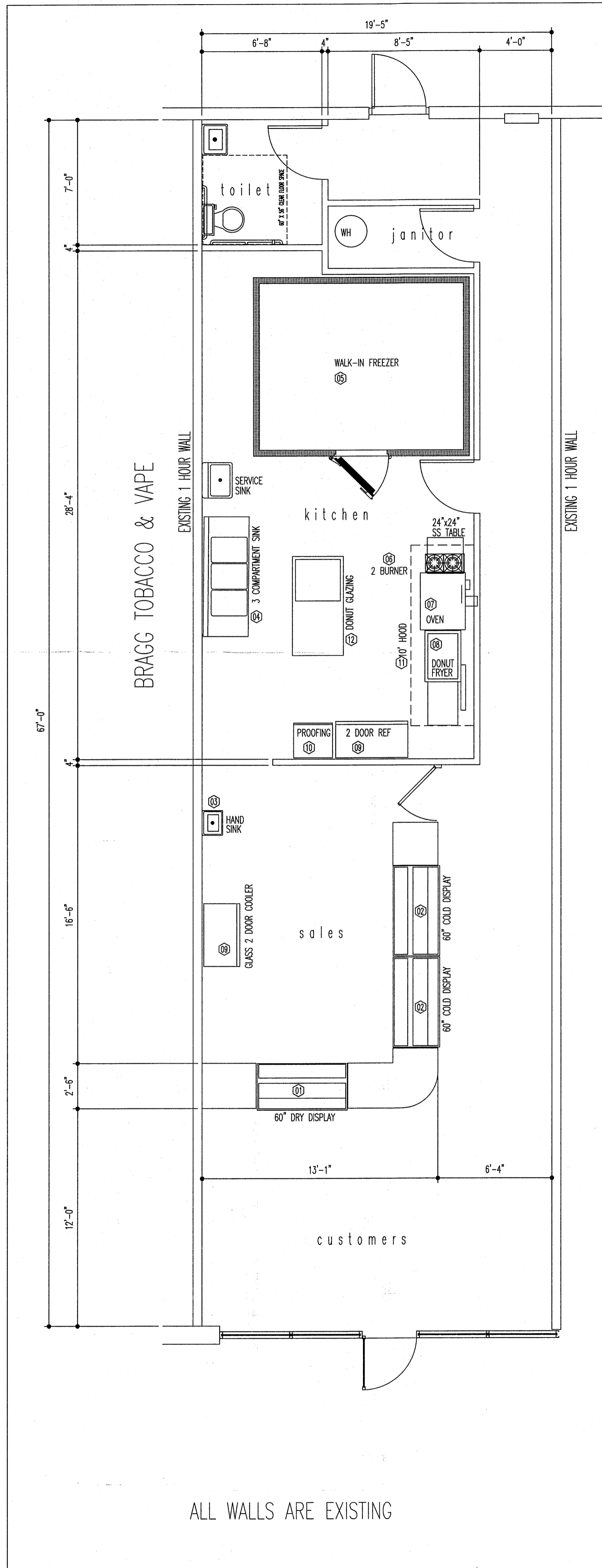
Renovations for: Burney's Sweets & More

Project Location: 2668 NC 24/87 Brinkley Commons

Cameron North Carolina 28326

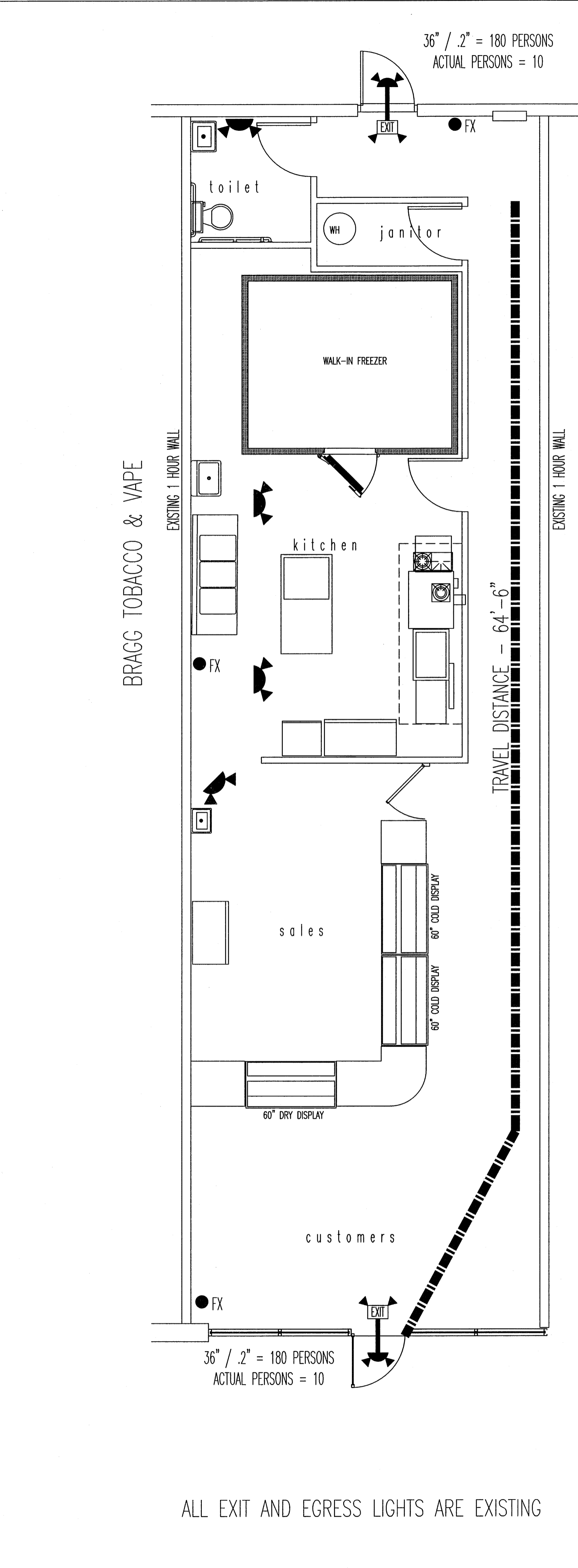
PROJECT NO: 22-115
DRAWN BY: RCE.
DATE: 10.29.2525

SHEET NO: A0.2



KITCHEN EQUIPMENT SCHEDULE

NO.	DESCRIPTION	QNTY	MODEL	MANUFACTURER
1	DRY DISPLAY CASE	1	TM-00-00-02/02-0-W	TRUE
2	REFRIGERATED DISPLAY CASE	2	TM-0-00-02/02-0-W	TRUE
3	HAND SINK	1	9'x9' w/ SPLASH	BK RESOURCES
4	3 COMPARTMENT SINK	1	BKS-3-100-14-185	BK RESOURCES
5	WALK-IN FREEZER	1	9' x 9'	AMERIKOOLER
6	10' EXHAUST HOOD	1	-	CAPTIVE AIR
7	CONVECTION OVEN	1	BGS/12SC	SOUTHBEND
8	GLASS DOOR REFRIGERATOR	1	GDW-5	TRUE
9	2 DOOR REFRIGERATOR	1	SKMZF2D	KENNEDY
10	PROOFING CABINET	1	CS19-PFC-U	METRO
11	DONUT FRYER	1	734CC	BELDSHAW ADAMATIC
12	DONUT TABLE	1	DN-TBL	CSW
13	GLASS 2 DOOR COOLER	1	GR48-HC	SERV WARE



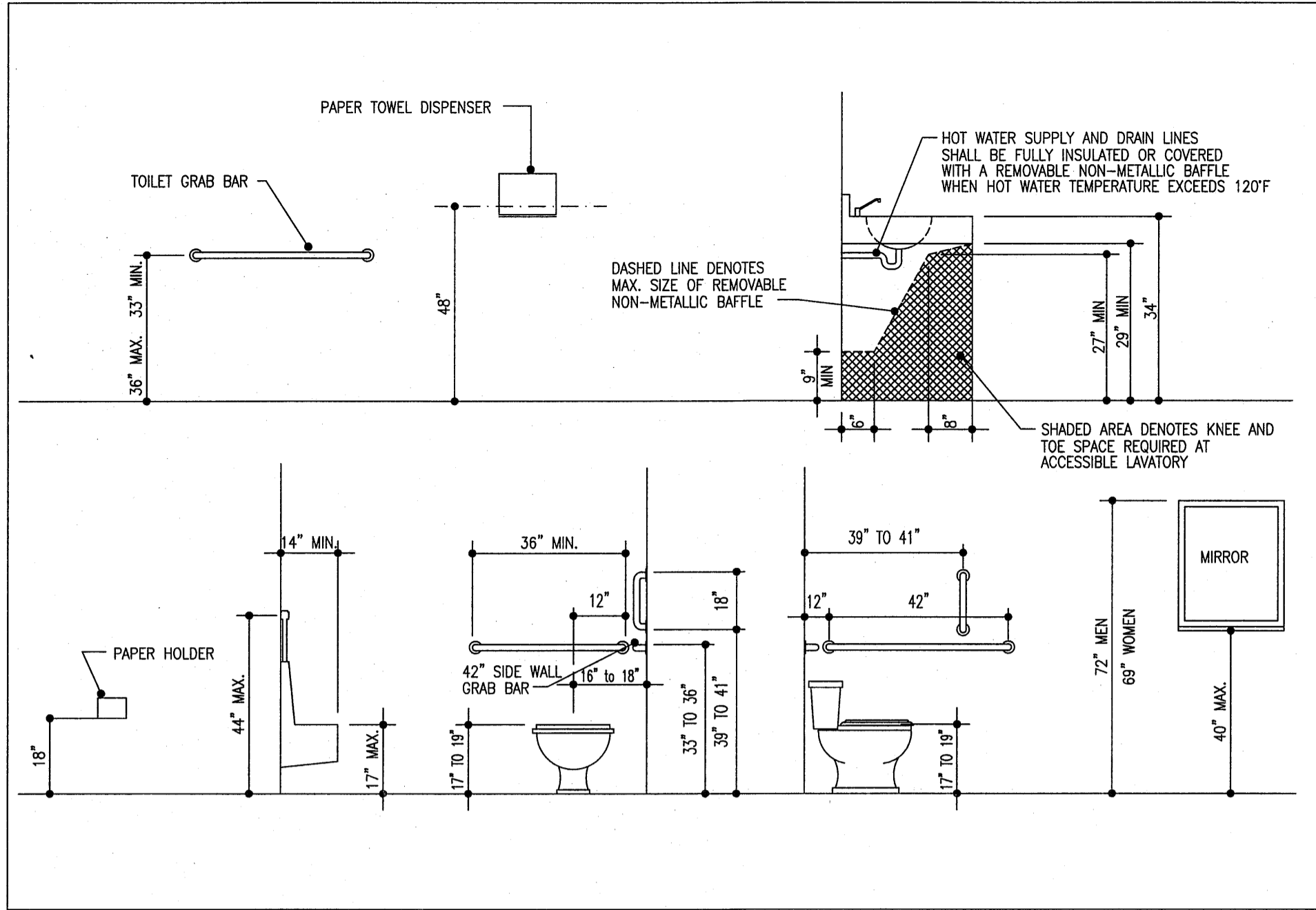
OCCUPANT CONTENT

KITCHEN	416 sf / 200 = 3 PERSONS
SALES/CUSTOMER	602 sf / 100 = 7 PERSONS
OCCUPANT CONTENT	10 PERSONS

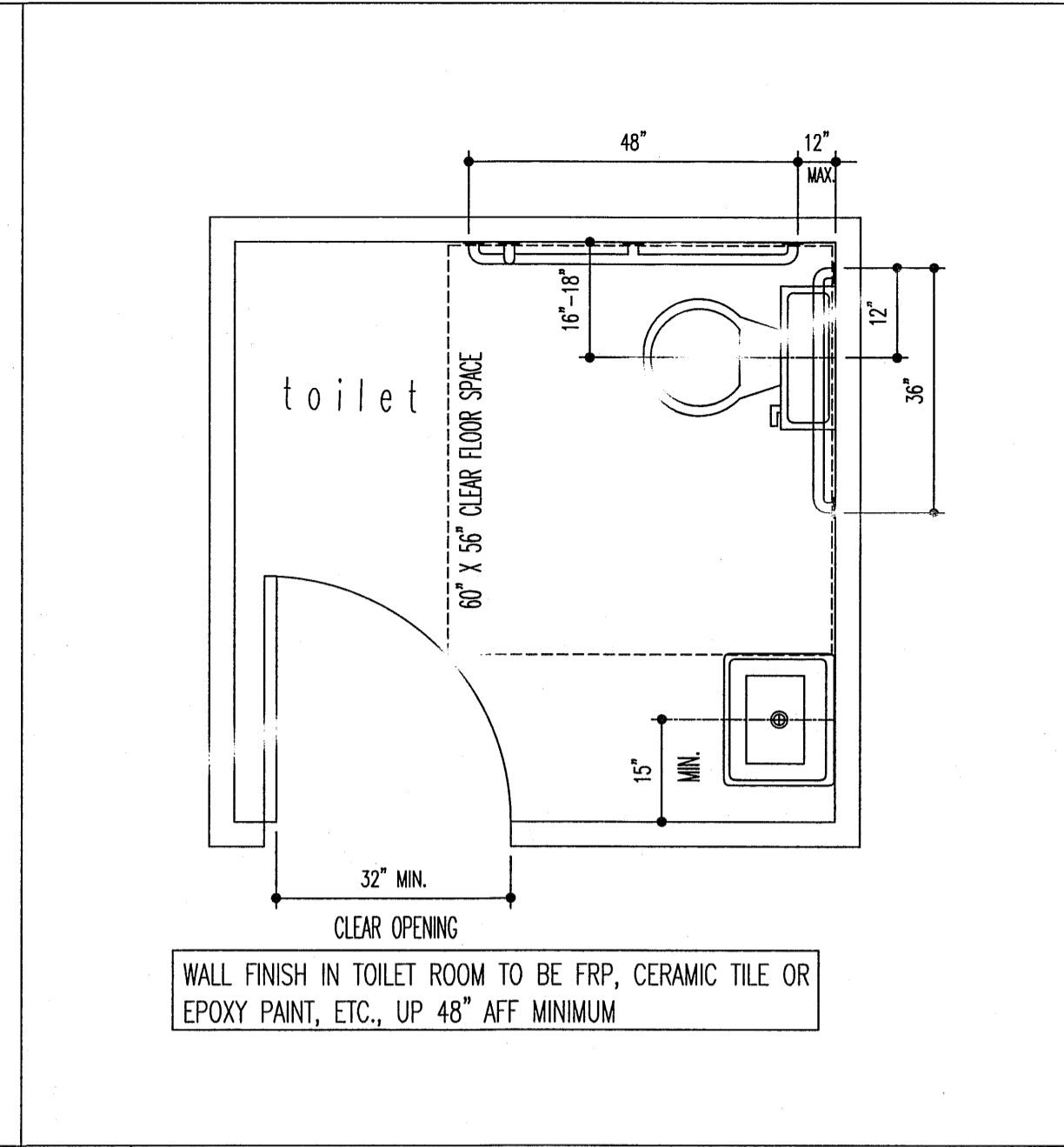
EXIT EXIT SIGN w/ DIRECTIONAL ARROW
EXIT EXIT SIGN
EXIT EXIT SIGN w/ EMERGENCY EGRESS LIGHT
 EMERGENCY EGRESS LIGHT
 FIRE EXTINGUISHER

Burney's Sweets & More Renovations

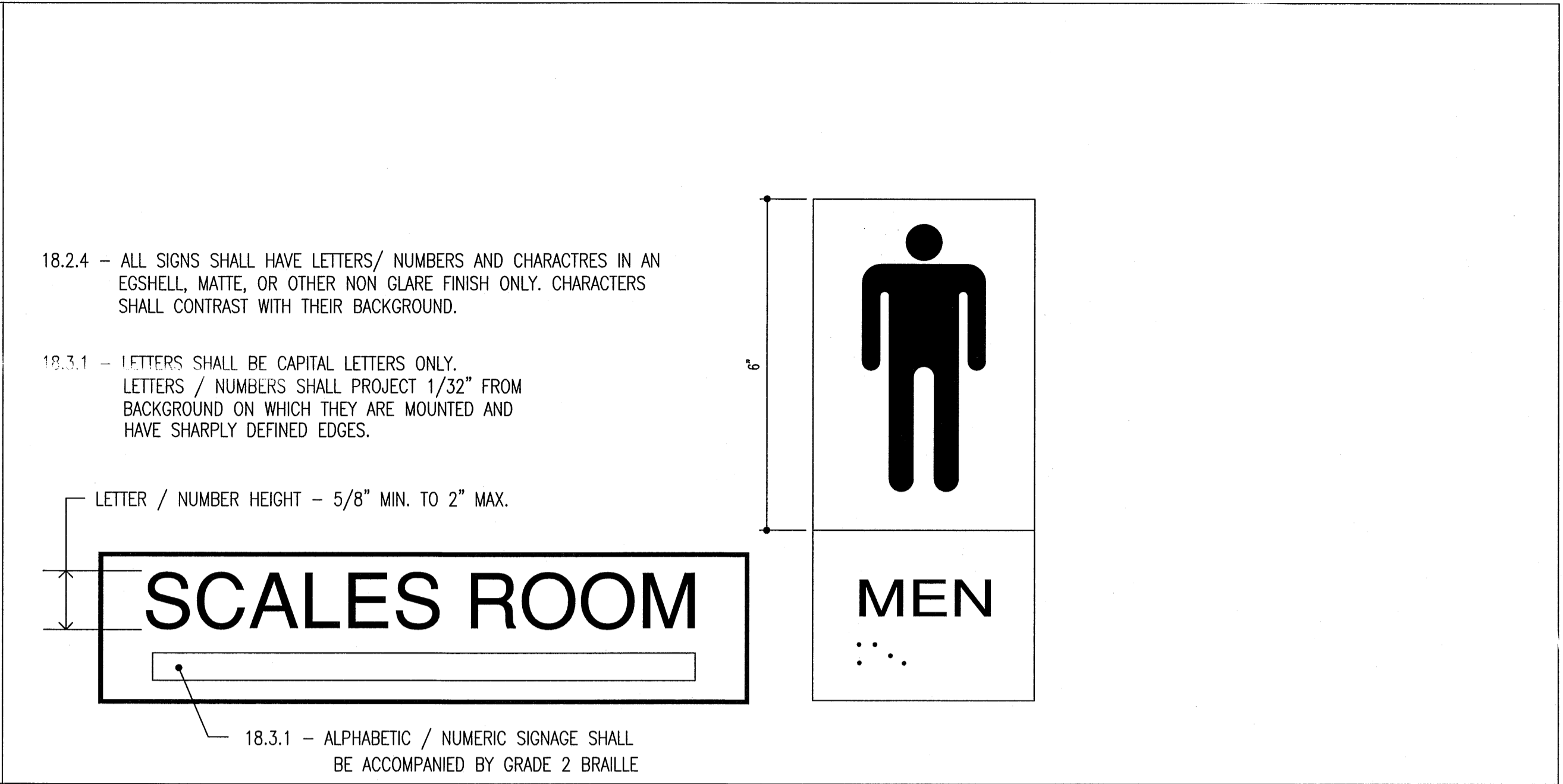
Drawing Name:
 Floor Plan
 Life Safety Plan
 Project Name:
 Renovations for:
 Burney's Sweets & More
 Project Location:
 2668 NC 24/87
 Brinkley Commons
 Cameron
 North Carolina 28326



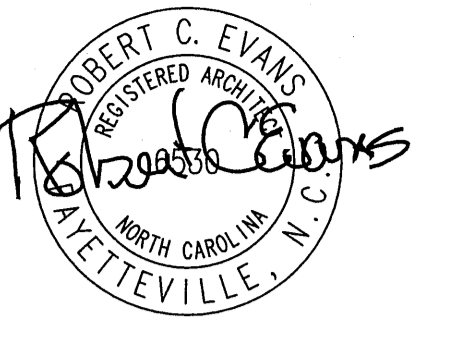
01 ACCESSORY MOUNTING HEIGHTS
3/8" = 1'0"



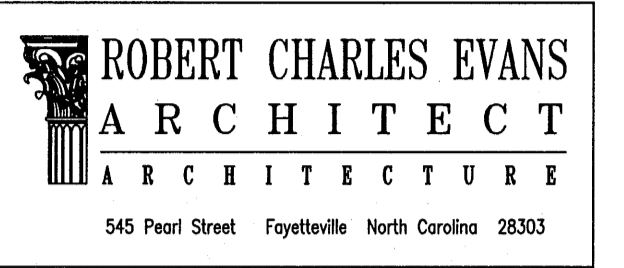
02 TYPICAL TOILET DIMENSIONS
1/2" = 1'0"



03 HANDICAP SIGNAGE
3" = 1'-0"



12.21.22



Burney's Sweets & More Renovations

Drawing Name:
Details

Project Name:
Renovations for:
Burney's Sweets & Mor

Project Location:
2668 NC 24/87
Brinkley Commons
Cameron
North Carolina 28326

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PROJECT NO. 22-115	SHEET NO: A2.1
DRAWN BY: RCE.	
DATE: 10.29.2525	
REVISIONS:	

EXHAUST & MAKEUP FAN SCHEDULE

EQUIPMENT INFO			FAN INFORMATION					ELECTRICAL INFORMATION							MFG & MODEL	
TAG	TYPE	LOCATION	EXHAUST CFM	MAKEUP CFM	ESP IN WG	FAN DRIVE	SONES	RPM	FAN FLA	FAN HP	FAN WATT	UNIT VOLTS	UNIT PHASE	MOCP		MCA
KEF-1	KITCHEN HOOD EXHAUST	ROOF	2150									115	1			SEE HOOD SUPPLIER FOR MORE INFORMATION
KSF-1	KITCHEN HOOD MAKEUP	ROOF		1720								115	1			SEE HOOD SUPPLIER FOR MORE INFORMATION

GENERAL NOTES:

ALL WORK SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA MECHANICAL CODE 2018 EDITION, ASHRAE, SMACNA, AND NFPA. STRUCTURAL MEMBERS OF THE BUILDING SHALL NOT BE CUT IN ANY MANNER FOR THE INSTALLATION OF ANY EQUIPMENT UNLESS PRIOR APPROVAL IS OBTAINED.

THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS AND ROUTING OF ALL DUCTWORK, PIPING, AND EQUIPMENT WITH OTHER TRADES TO AVOID CONFLICT.

THE MECHANICAL CONTRACTOR SHALL MAKE A COMPLETE REVIEW OF THE MECHANICAL PLANS, SCHEDULES, AND DETAILS PRIOR TO INSTALLATION OF THE MECHANICAL SYSTEMS AND REVIEW ANY CONFLICTS WITH THE GENERAL CONTRACTOR.

THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE. THINK OF OTHER CONTRACTORS AND THEIR REQUIREMENTS IN VERTICAL CHASES AND WALL MOUNT SPACE.

ALL CONTRACTORS TO FOLLOW THIS ORDER OF PRIORITY:

1. STORM AND SANITARY SEWER LINES
2. DUCTWORK AND HVAC SYSTEMS
3. HOT AND COLD WATER LINES
4. RIGID CONDUIT
5. CABLE

THE MECHANICAL CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF ALL PENETRATIONS (PERTAINING TO HIS WORK) THROUGH THE ROOF, WALLS, FLOORS WITH THE GENERAL CONTRACTOR. ANY WATERPROOFING AROUND THE OPENINGS TO BE COMPLETED BY THE GENERAL CONTRACTOR.

THE MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL HIS OWN SUPPORT DEVICES. ALL LOCATIONS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS PRIOR TO INSTALLATION. ALL PLATFORMS AND WALKWAYS IN ATTIC SPACES ARE PROVIDED BY THE GENERAL CONTRACTOR. THE MECHANICAL CONTRACTOR TO COORDINATE THE LOCATION AND DIMENSIONS OF ALL PLATFORMS IN THE ATTIC WITH THE GENERAL CONTRACTOR.

ALL EQUIPMENT HAVING ROTATING OR MOVING PARTS SHALL HAVE VIBRATION ISOLATORS TO ELIMINATE TRANSMISSION OF OBJECTIONABLE NOISE TO OTHER MATERIAL OR EQUIPMENT.

WHERE OUTSIDE AIR INTAKE DUCTWORK CONNECTS TO OUTSIDE AIR LOUVER, THE INSIDE FACE OF THE DUCTWORK SHALL BE PRIMED AND PAINTED WITH (2) TWO COATS OF FLAT BLACK TO PREVENT DUCTWORK FROM BEING VISIBLE.

THE MECHANICAL CONTRACTOR SHALL PROVIDE NAMEPLATES FOR IDENTIFICATION OF ALL EQUIPMENT. THE NAMEPLATES SHALL BE LAMINATED PHENOLIC PLASTIC, BLACK FRONT AND BACK WITH WHITE CORE, WHITE ENGRAVED LETTERS (1/4 INCH MINIMUM) ETCHED INTO THE WHITE CORE. NAME TAGS TO BE MOUNTED WITH SELF-TAPPING SHEET METAL SCREWS.

ALL EQUIPMENT MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK OR IN ACCORDANCE WITH THE PARTICULAR MANUFACTURER'S STANDARD GUARANTEE IF LONGER. ANY FAULTY MATERIAL OR WORKMANSHIP OR FAILURE OF ANY PART OF THE SYSTEM DURING NORMAL OPERATIONS UNDER THIS GUARANTEE SHALL BE CORRECTED WITHOUT COST TO THE OWNER.

THE MECHANICAL CONTRACTOR SHALL CLEAN ALL OF HIS EQUIPMENT PRIOR TO FINAL CLOSE OUT OF THIS PROJECT TO BE FREE OF ANY DIRT OR DEBRIS IN DRAIN PANS, CONDENSATE DRAINS, CONDENSING UNIT COILS, AND ETC.

ALL EQUIPMENT SHALL BE LOCATED AND INSTALLED TO PROVIDE MAXIMUM SPACE FOR MAINTENANCE AND SERVICE.

PROVIDE EQUIPMENT SUPPORT PAD FOR ALL BASE MOUNTED EQUIPMENT. PAD SHALL BE 4" HIGH OR PREFABRICATED CONCRETE PAD FOR ALL CONDENSING UNITS, AND PACKAGE UNITS, 4" MINIMUM FROM EQUIPMENT EDGE TO END OF PAD ON ALL SIDES.

THE MECHANICAL CONTRACTOR SHALL CONFIRM ALL BREAKER AND DISCONNECT SIZES OF HIS EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING ANY EQUIPMENT FOR THIS PROJECT.

CONDENSATE DRAINS SHALL BE A MINIMUM OF 3/4" Ø PVC PIPE. A P-TRAP SHALL BE INSTALLED IN PIPE AT THE UNIT. ALL CONDENSATE LINES SHALL BE ROUTED AS INDICATED ON PLANS.

INSTALL FLEXIBLE DUCT CONNECTION AT SUPPLY AND RETURN DUCTWORK CONNECTIONS TO ALL AIR HANDLING UNITS, FAN BOXES, ETC.

DUCTWORK NOTES:

ALL DUCTWORK, PIPING, EQUIPMENT, ETC. SHALL BE SUPPORTED FROM THE BUILDING SUPPORT STRUCTURE AND NOT THE ROOF.

ALL DUCT LAYOUT AND LOCATIONS ARE SHOWN DIAGRAMMATIC. THE MECHANICAL CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE BUILDING CONDITIONS AND COORDINATE THE DUCT LAYOUT WITH ALL CONTRACTORS PRIOR TO INSTALLATION.

ALL DUCTWORK SHALL BE CONSTRUCTED OF SHEET METAL IN ACCORDANCE WITH ASHRAE & SMACNA. DUCT SIZES SHOWN ARE NET FREE AREA REQUIRED.

VOLUME OR SPLITTER DAMPERS SHALL BE INSTALLED WHERE NECESSARY TO GUIDE AND CONTROL THE AIR FLOW. TURNING VANES ARE REQUIRED IN ALL ELBOWS AND AIR DEFLECTION DEVICES WILL BE INSTALLED WHERE REQUIRED FOR A BALANCED SYSTEM. PROVIDE SHEET METAL SLEEVES AND COLLARS WHERE DUCTS PASS THRU WALLS.

ALL DUCTS SHALL BE AIR TIGHT, RIGID AND FREE FROM VIBRATION AND NOISE. ALL LAP JOINTS SHALL BE IN THE DIRECTION OF FLOW AND SEALED WITH DUCT SEALER. ALL TAPES AND MASTICS USED SHALL LISTED WITH UL181A AND SHALL BE MARKED. (NMC (603.9) & NCECC (C403.2.9))

FLEXIBLE DUCT RUNS SHALL NOT EXCEED 12'-0" IN LENGTH. FLEXIBLE DUCT SHALL BE SUPPORTED EVERY 5'-0". MAXIMUM SAG IS A 1/2 INCH PER FOOT OF SPACING BETWEEN SUPPORTS. SADDLE MATERIAL IN CONTACT WITH THE FLEXIBLE DUCT SHALL BE WIDE ENOUGH SO THAT IT DOES NOT REDUCE THE INTERNAL DIAMETER OF THE DUCT. THE SADDLE MUST COVER ONE-HALF THE CIRCUMFERENCE OF THE OUTSIDE DIAMETER OF THE FLEXIBLE DUCT AND FIT NEATLY AROUND THE LOWER HALF OF THE DUCT'S OUTER CIRCUMFERENCE.

PROVIDE PERMANENT MANUAL DAMPERS IN ALL SUPPLY AND RETURN AIR DUCTS AT THE MAIN TRUNK LINE FOR SYSTEM BALANCING. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR BALANCING THE AIR DISTRIBUTION SYSTEM AFTER THE SYSTEM HAS BEEN INSTALLED AND EQUIPMENT IS OPERATING. MANUAL DAMPERS ARE REQUIRED TO BE INSTALLED IN THE RETURN AIR DUCT IF THE DUCT IS RETURNING AIR FROM INDIVIDUAL ROOMS. MANUAL DAMPERS ARE NOT REQUIRED IF THE DUCT IS RETURNING AIR FROM CENTRALLY LOCATED FILTER/RETURN GRILLES.

THE OUTSIDE AIR INTAKE DUCTWORK SHALL BE HARD ROUND DUCT, FLEXIBLE DUCT WILL NOT BE ACCEPTED. SEE PLAN FOR DUCT SIZE.

ALL OUTSIDE AIR INTAKE DUCTS SHALL HAVE A FILTER BOX TO HOUSE A MINIMUM OF 16 IN. X 20 IN. X 2 IN. THICK FILTER, U.N.O. AT EACH AIR HANDLING UNIT EITHER IN THE ATTIC OR CRAWL SPACE. THE FILTER BOX SHALL HAVE A HINGED DOOR THAT IS GASKETED TO MAINTAIN AN AIRTIGHT SEAL WITH A THUMBSCREW TO ACCESS THE FILTER.

THE OUTSIDE AIR FILTER SHALL BE THE HI-E 40 AS MANUFACTURED BY PUROLATOR PRODUCTS AIR FILTRATION COMPANY, OR APPROVED EQUAL. AIR FILTER SHALL BE (2) TWO INCHES DEEP, MEDIUM EFFICIENCY, PLEATED MEDIA, DISPOSABLE PANEL TYPE. THE FILTER MEDIA SHALL BE SELF-EXTINGUISHING NON-WOVEN COTTON AND SYNTHETIC FIBERS. THE FILTER MEDIA SHALL BE BONDED TO A 28-GAUGE CORROSION RESISTANT, EXPANDED METAL SUPPORT GRID WITH A 95% OPEN FACE AREA.

DUCT/PIPING INSULATION NOTES:

ALL SUPPLY AND RETURN AIR DUCTS SHALL BE INSULATED WITH MIN. R-6.0 INSULATION UNLESS NOTED OTHERWISE IN THE DRAWING. NCECC (C403.2.9) ACCEPTABLE MANUFACTURERS ARE JOHNSON MANVILLE.

LIQUID AND SUCTION PIPING TO AND FROM AIR HANDLING UNITS SHALL BE INSULATED WITH 1-1/2" THICK PIPE INSULATION IN ACCORDANCE WITH NCECC TABLE (C403.2.10).

ALL FLEXIBLE DUCT REQUIRING INSULATION SHALL HAVE A VALUE OF AT LEAST R-5.0. THE FLEXIBLE DUCT SHALL BE ATCO RUBBER PRODUCTS, INC. UPC NO. 036 OR APPROVED EQUAL WITH A REINFORCED METALLIZED POLYESTER JACKET. THE INNER CORE IS AIRTIGHT AND IS DESIGNED FOR LOW TO MEDIUM OPERATING PRESSURES IN HVAC SYSTEMS. AIR DUCT CONNECTIONS AND JOINTS SHALL BE MADE PER INSTALLATION INSTRUCTIONS OUTLINED BY ATCO.

OUTSIDE AIR INTAKE DUCTWORK AND EXHAUST DUCTWORK IS TO BE UNINSULATED.

OUTSIDE AIR CALCULATION

OCCUPANCY TYPE:		BUSINESS
ACTUAL NUMBER OF OCCUPANTS (Pz)		11 PEOPLE
NET SQUARE FOOTAGE OF HEATED BUILDING: (Az)		1095 SQ/FT
PEOPLE + AREA (RpPz)+(RaAz) EQUATION 4-1: 2018 NC MECH CODE		
PEOPLE + SEATING AREA(7.5 * 11)+(0.18 * 360) = 83 + 65		148 CFM
KITCHEN AREA EXHAUST		2150 CFM
KITCHEN HOOD MAKEUP		1720 CFM
(1) EXHAUST FAN AT 75CFM EACH		75 CFM
OUTSIDE AIR SUB-TOTAL		148 CFM
OUTSIDE AIR REQUIRED = 148/.8 CFM / 0.80 (EFFECTIVENESS)		185 CFM
TOTAL OUTSIDE AIR REQUIRED		
OUTSIDE AIR SUPPLIED		
EXISTING RTU	MAKEUP AIR FAN	TOTAL
185 CFM	1720 CFM	1905 CFM

BURNEY'S SWEETS

PROJECT NAME: _____

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
METHOD OF COMPLIANCE
PRESCRIPTIVE ENERGY COST BUDGET

MECHANICAL SUMMARY
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

THERMAL ZONE: ZONE 4 NORTH CAROLINA
WINTER DRY BULB: 12.0° F
SUMMER DRY BULB: 95.0° F

INTERIOR DESIGN CONDITIONS
WINTER DRY BULB: 68°
SUMMER DRY BULB: 78°
RELATIVE HUMIDITY: 50%

BUILDING HEATING LOAD: 38,600 BTU'S
BUILDING COOLING LOAD: 47,800 BTU'S

MECHANICAL SPACING CONDITIONING SYSTEM
UNITARY
DESCRIPTION OF UNIT: NEW ROOFTOP PACKAGED ELECTRIC HEATING/COOLING UNIT

HEATING EFFICIENCY: 8.0 HSPF (MINIMUM STANDARD EFFICIENCY, TABLE C403.3.2 (2))
COOLING EFFICIENCY: 15.0 SEER (11.0 EER MINIMUM STANDARD EFFICIENCY, TABLE 403.2.3 (2))

SIZE CATEGORY OF UNIT: (1) 4 TON (> 65,000 BTU/H)

BOILER
SIZE CATEGORY: IF OVERSIZED, STATE REASON: _____

CHILLER
SIZE CATEGORY: IF OVERSIZED, STATE REASON: _____

LIST EQUIPMENT EFFICIENCIES: _____

DESIGNER STATEMENT: TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT REQUIREMENTS OF THE INTERNATIONAL ENERGY CODE. THE HVAC UNIT QUALIFIES AS MORE EFFICIENT MECHANICAL EQUIPMENT DESCRIBED IN THE CODE.

SIGNED: Buddy Jenkins
NAME: BUDDY JENKINS
TITLE: ENGINEER

APPENDIX B ENERGY CODE

DESCRIPTION AND SEQUENCE OF OPERATION OF HVAC SYSTEM

THE HVAC SYSTEM CONSISTS OF:

(1) EXISTING 4 TON PACKAGED ROOFTOP ELECTRIC COOLING/HEATING SYSTEM PROVIDING CONSTANT VOLUME HEATING/COOLING/VENTILATION TO ALL SPACES.

OCCUPIED OPERATION

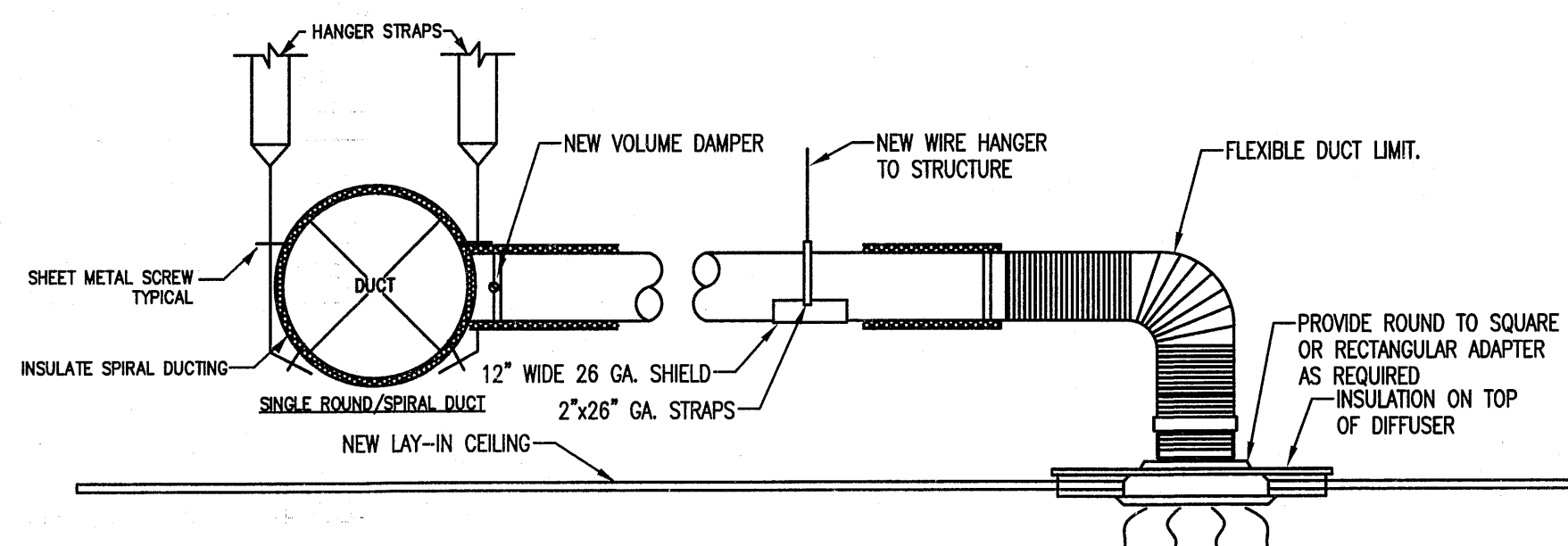
THE SUPPLY FAN SHALL RUN CONTINUOUSLY TO PROVIDE THE REQUIRED VENTILATION RATE. IN THE COOLING MODE, A RISE IN TEMPERATURE BEYOND SET POINT OF PROGRAMMABLE T-STAT WILL RESULT IN ACTIVATION OF DX COOLING CYCLE UNTIL DESIRED TEMPERATURE IS REACHED. IN HEATING MODE, A SIGNAL FROM T-STAT WILL ACTIVATE THE FURNACE TO DELIVER HEATING TO SPACES.

UNOCCUPIED OPERATION

THE SUPPLY FAN SHALL BE INDEXED OFF AND MOTORIZED OUTSIDE AIR DAMPER SHALL BE CLOSED. PROGRAMMABLE THERMOSTATS SHALL PROVIDE CONTROL OF EACH UNIT.

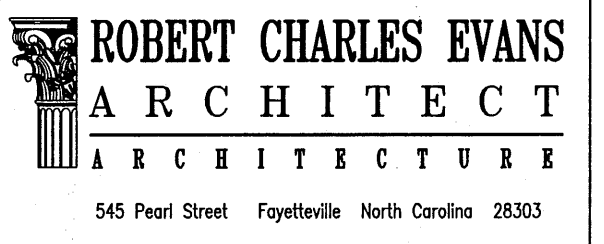
EXHAUST FAN OPERATION

THE RESTROOM EXHAUST FAN SHALL EXHAUST ALL AIR SUPPLIED TO THE RESTROOM DURING HOURS OF OPERATION WHEN LIGHTS ARE ON..



DIFFUSER RUNOUT DETAIL

N.T.S.



Burneys Sweets & More

Drawing Name:
MECHANICAL SCHEDULE & NOTES

Project Name:
Renovations for:
Burney's Sweets & More

Project Location:
**2668 NC 24/87
Brinkley Commons
Cameron
North Carolina 28326**

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12.20.22



PROJECT NO: **20-155**
DRAWN BY: **MAW**
DATE: **12.20.22**
REVISIONS:

SHEET NO:

M1

Burney's Sweets & More

Drawing Name:
MECHANICAL - HVAC/GAS PLAN
 Project Name:
 Renovations for:
Burney's Sweets & More
 Project Location:
 2668 NC 24/87
 Brinkley Commons
 Cameron
 North Carolina 28326

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PROJECT NO: 20-155	SHEET NO:
DRAWN BY: MAW	M2
DATE: 12.20.22	
REVISIONS:	

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MECHANICAL SCOPE OF WORK:
 TENANT SPACE HAS AN EXISTING 4 TON RTU. IT WILL REMAIN AS-IS. EXISTING DIFFUSERS AND DUCTING WILL REMAIN. SOME DIFFUSERS WILL NEED TO BE RELOCATED DUE TO NEW LAYOUT. SOME DUCTING WILL NEED TO BE RELOCATED- EXTENDED TO NEW LOCATION. NO NEW HEATING OR COOLING WILL BE REQUIRED. A NEW HOOD WILL BE INSTALLED ALONG WITH A NEW EXHAUST FAN AND MAKE UP AIR FAN. ENSURE TO DUCT AND EXHAUST AIR NOT NEARER EXISTING RTU.

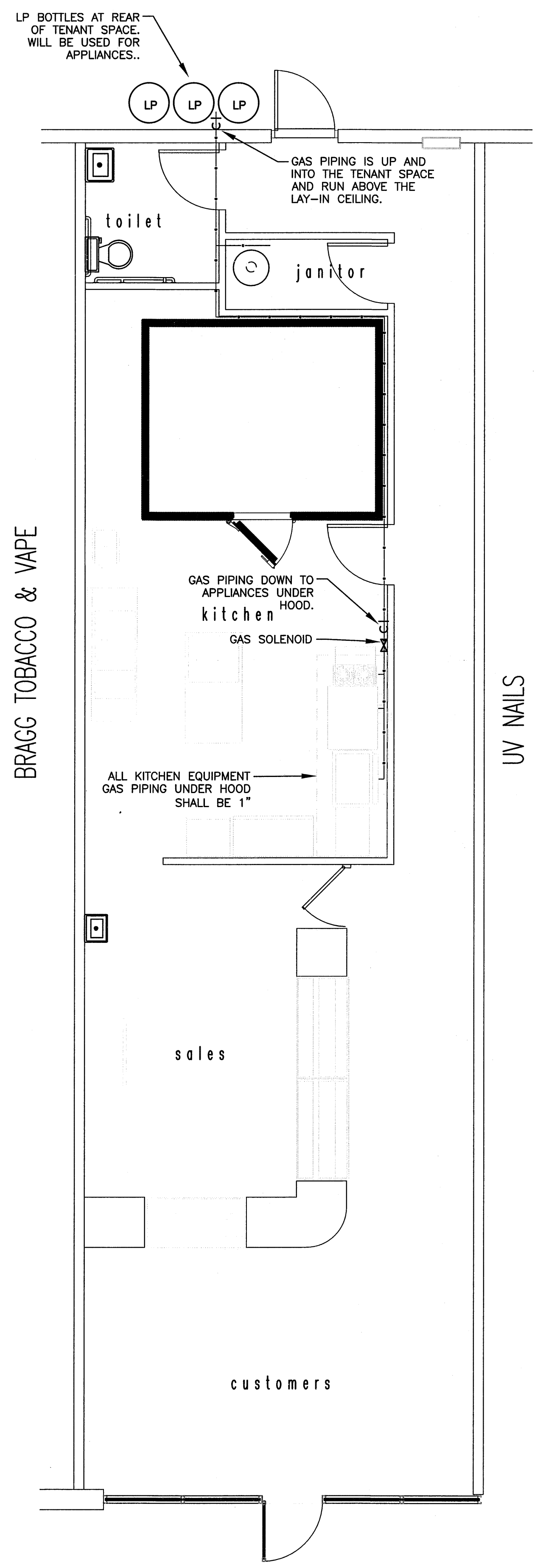
MECHANICAL NOTES:

- Ⓢ EXISTING THERMOSTAT
- ⊠ EXISTING SUPPLY DIFFUSER
- ▧ EXISTING RETURN GRILLES
- ETR EXISTING TO REMAIN
- RELO RELOCATED EXISTING DIFFUSER/RETURN

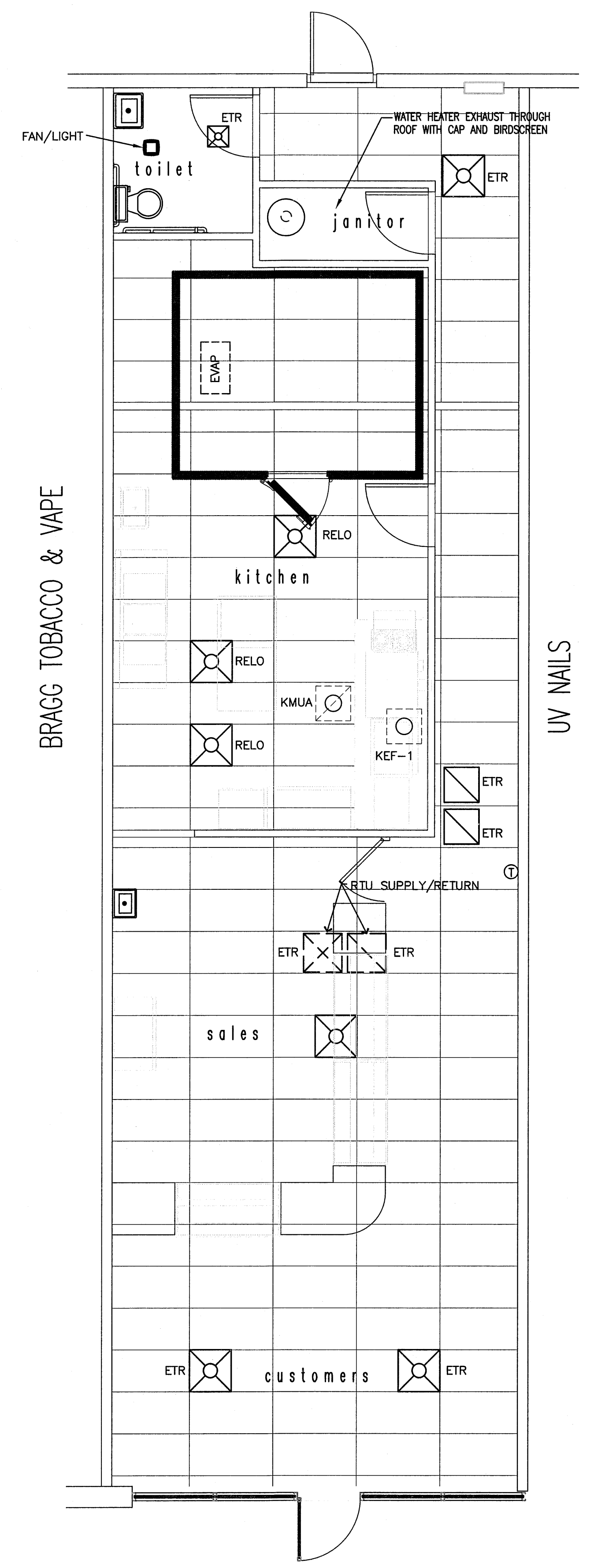


12.20.22

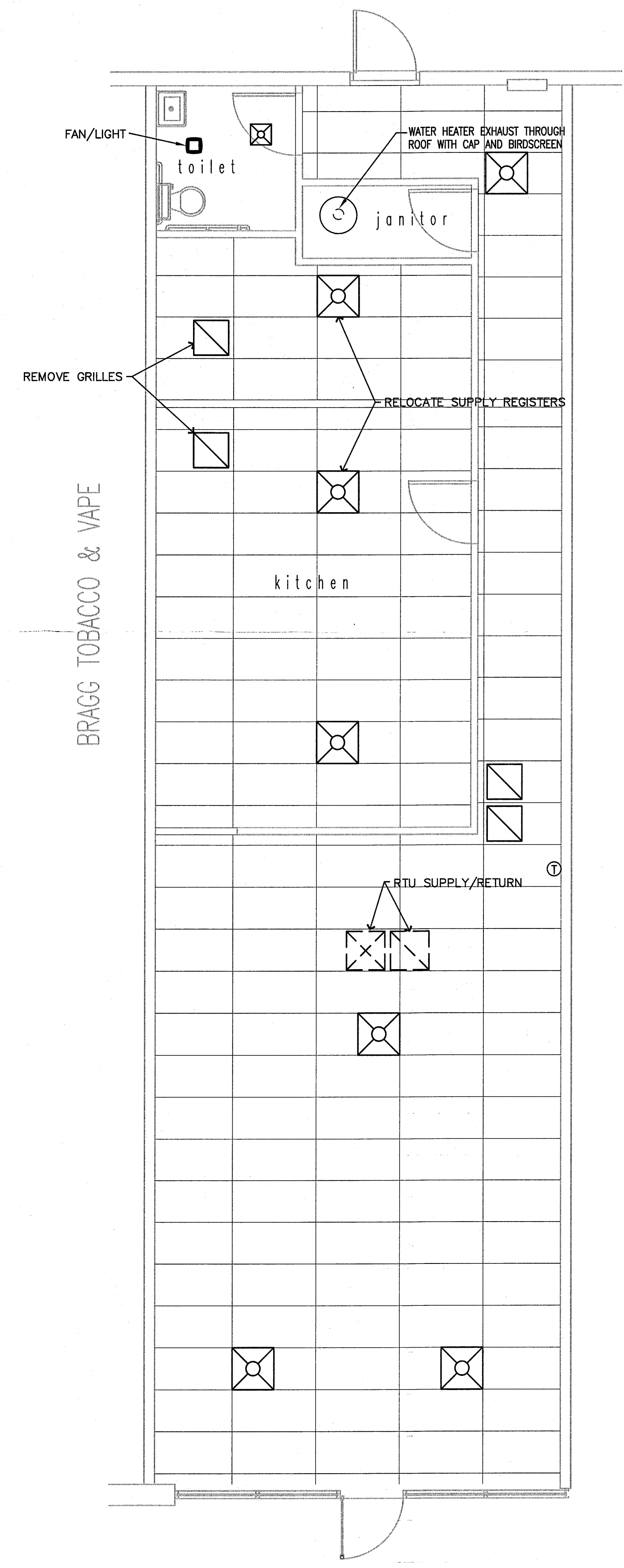
JENKINS
 CONSULTING ENGINEERS, P.A.
 OFFICE IN EUREKA SPRINGS, NORTH CAROLINA
 1608 MCARTHUR RD. FAYETTEVILLE, NC 28311-1059
 CORPORATION NUMBER C-2070 Buddy@jenkinsce.com 910.822.1724



3 MECHANICAL - GAS PLAN
 SCALE: 1/4" = 1'-0"

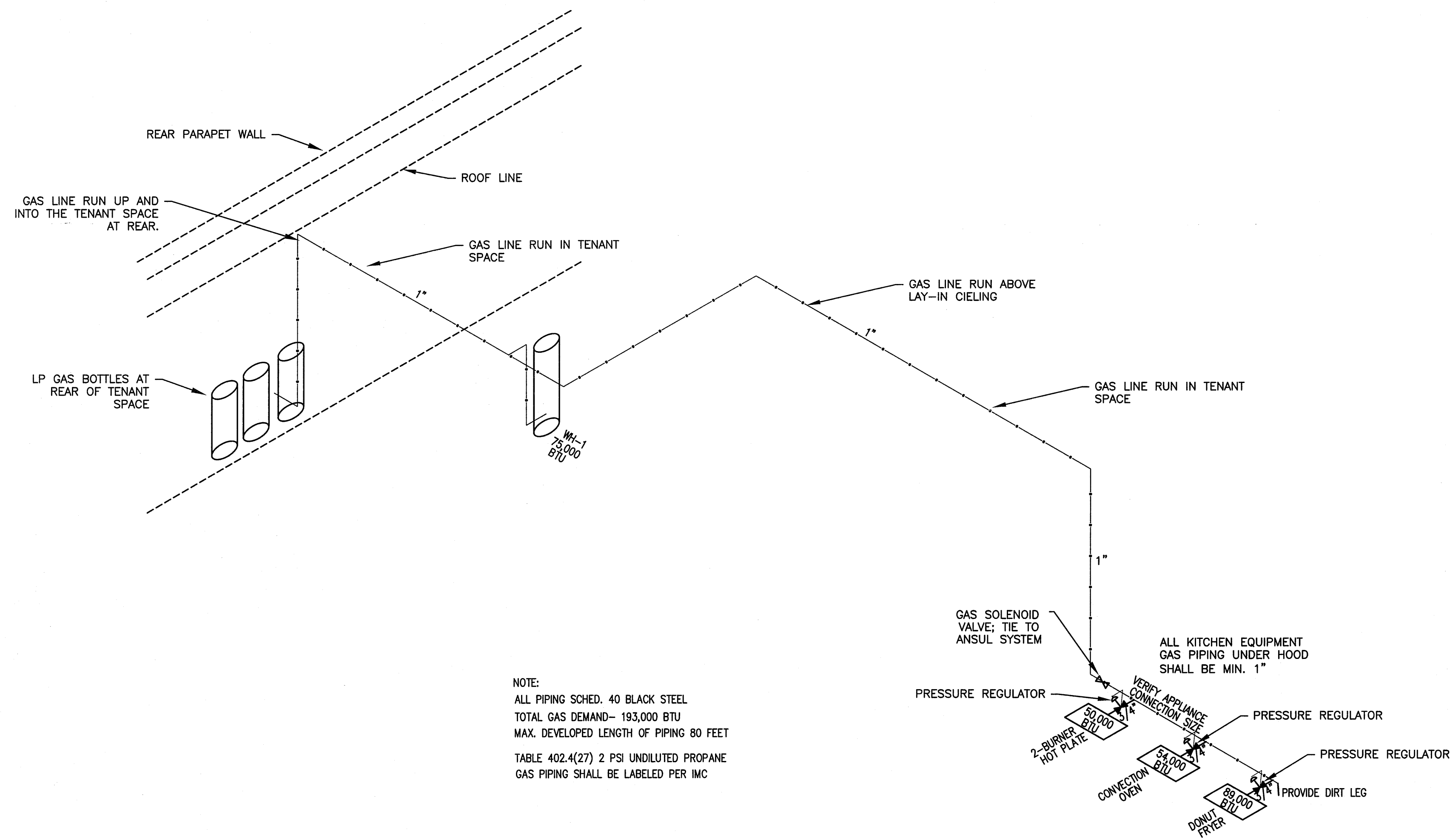


2 NEW MECHANICAL PLAN
 SCALE: 1/4" = 1'-0"



1 EXISTING MECHANICAL PLAN
 SCALE: 1/4" = 1'-0"

Drawing File: H:\2022\Rob Evans\Burneys Sweets and More\Plan\Burneys sweets 120222 MEP.dwg
 Plotted by: MarkW
 Plotted Date: Dec 20, 2022 - 2:11pm



NOTE:
 ALL PIPING SCHED. 40 BLACK STEEL
 TOTAL GAS DEMAND- 193,000 BTU
 MAX. DEVELOPED LENGTH OF PIPING 80 FEET
 TABLE 402.4(27) 2 PSI UNDILUTED PROPANE
 GAS PIPING SHALL BE LABELED PER IMC

1 MECHANICAL - GAS RISER
 M3 N.T.S.

IT IS THE PURPOSE OF THESE DRAWINGS TO SHOW THE INTENT OF THIS SYSTEM DESIGN. EVERY EFFORT HAS BEEN MADE TO ACCURATELY SHOW EXISTING CONDITIONS- ANY DEVIATION TO THESE DRAWINGS UNCOVERED DURING NEW CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF GENERAL CONTRACTOR OR ENGINEER BEFORE ALTERING THIS DESIGN.

MECHANICAL SCOPE OF WORK:
 LIQUID PROPANE WILL BE RUN FROM BOTTLES AT REAR OF TENANT SPACE INTO AND ABOVE THE LAY-IN CEILING TO NEW GAS APPLIANCES. CONTRACTOR WILL LOCATE THE BOTTLES AND RUN THE NEW LINE THAT IS MOST EFFICIENT TO THE APPLIANCES. CONTRACTOR WILL UPDATE DEVELOPED LENGTH AND ENSURE APPLIANCES WILL RECEIVE THE PROPER PRESSURE REQUIRED FOR OPERATION.

Drawing Name:
MECHANICAL GAS RISER

Project Name:
 Renovations for:
Burney's Sweets & More

Project Location:
 2668 NC 24/87
 Brinkley Commons
 Cameron
 North Carolina 28326

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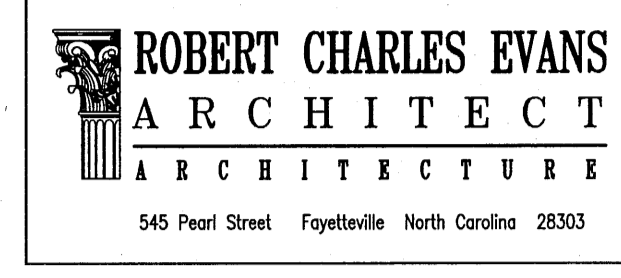


12.20.22

J. JENKINS
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 910.822.1724

PROJECT NO:	20-155
DRAWN BY:	MAW
DATE:	12.20.22
REVISIONS:	

SHEET NO:	M3
-----------	----



Burney's Sweets & More

Drawing Name:
MECHANICAL ROOF PLAN

Project Name:
Renovations for:
Burney's Sweets & More

Project Location:
2668 NC 24/87
Brinkley Commons
Cameron
North Carolina 28326

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MECHANICAL SCOPE OF WORK:
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PROJECT NO: 20-155

DRAWN BY: MAW

DATE: 12.20.22

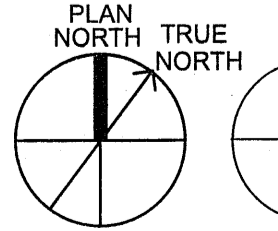
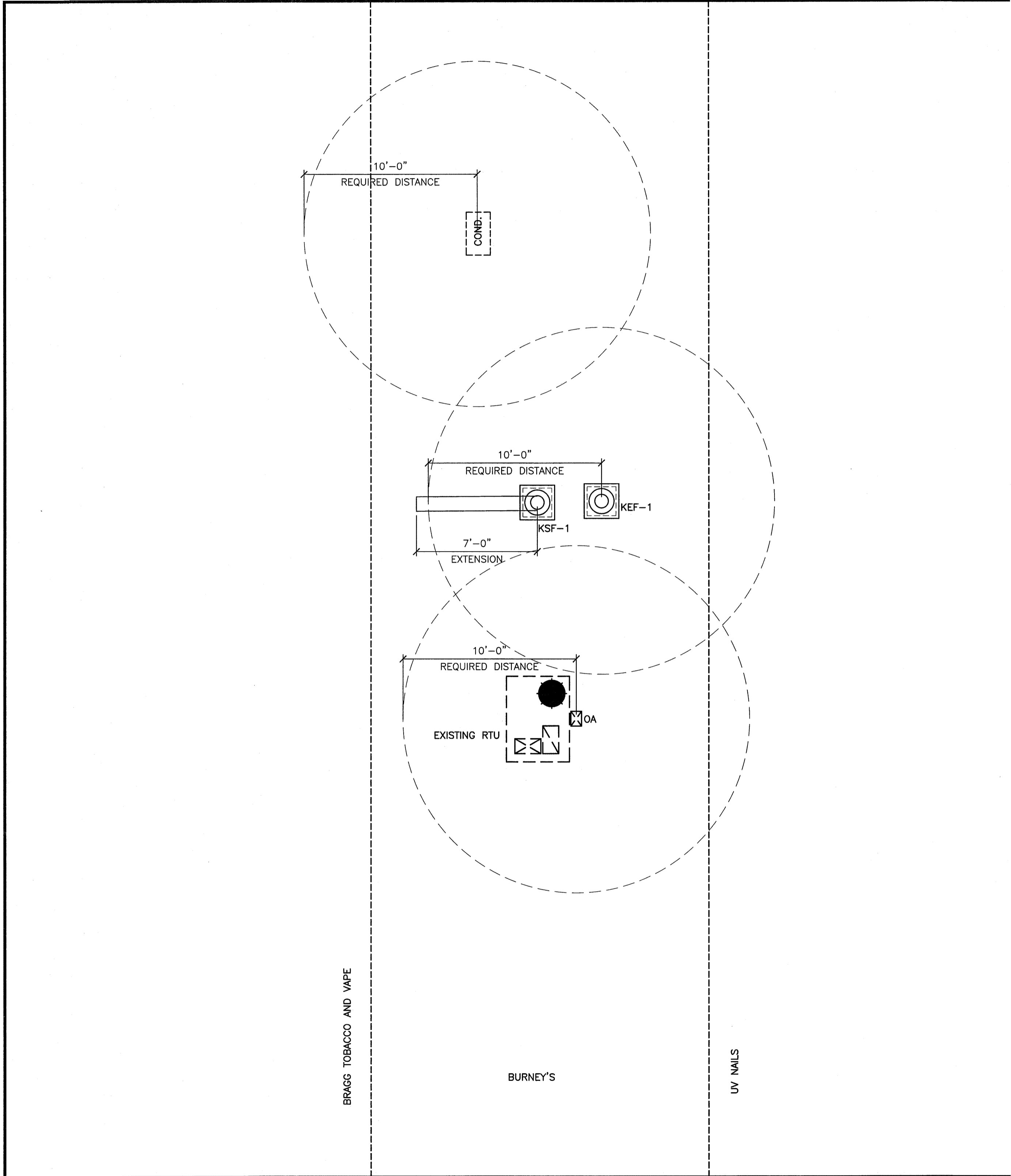
REVISIONS:

SHEET NO:

M4

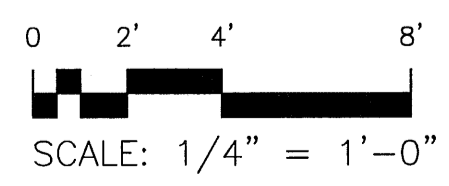


12.20.22



1 NEW MECHANICAL ROOF PLAN

M4



Drawing File: H:\2022\Rob Evans\Burneys Sweets and More\PA\Burneys sweets 120222 MEP.dwg
Plotted by: MarkW
Plotted Date: Dec 20, 2022 - 2:17pm

ELECTRICAL NOTES:

ALL WORK SHALL BE IN ACCORDANCE WITH 2020 NEC.

WIRE AND CABLE SHALL BE INSULATED, TYPE THHN, 600 VOLTS, WITH COPPER CONDUCTORS. CONDUCTOR SIZES NO. 8 AWG AND LARGER MAY BE STRANDED. CONDUCTOR SIZES NO. 10 AWG AND SMALLER MAY BE SOLID OR STRANDED.

ROMEX CANNOT BE USED IN THIS PROJECT.

EMT SHALL BE GALVANIZED STEEL TUBING 1/2-INCH MINIMUM SIZE, EQUAL TO ELECTRUMITE BRAND OR APPROVED AND USED ONLY WITH HEXAGONAL ALL-STEEL COMPRESSION FITTINGS. MC CABLE MAY BE SUBSTITUTED FOR CONDUIT RACEWAYS WHERE PERMITTED BY THE CODE, AND APPROVED BY OWNER.

PLASTIC CONDUIT SHALL BE RIGID, 3/4-INCH MINIMUM, NONMETALLIC, HEAVY DUTY, POLYVINYLCHLORIDE (PVC) TYPE I WILL BE USED FOR CONCRETE ENCASMENT. FITTINGS SHALL BE THE SAME MATERIALS AND MANUFACTURER AS THE PLASTIC CONDUIT.

FLEXIBLE METAL CONDUIT SHALL BE 1/2-INCH MINIMUM SINGLE STRIP, STEEL, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE, MAXIMUM LENGTH OF 72 INCHES FOR LIGHTING, AND 36 INCHES FOR MOTORS. FLEXIBLE METAL CONDUIT SHALL BE LIQUID TIGHT OR WATER TIGHT WITH PVC JACKET WHERE USED IN DAMP, WET, OR OUTSIDE AREAS, AND LIQUID TIGHT OR WATER TIGHT CONNECTORS SHALL BE USED.

NO RECEPTACLES OR TELEPHONE OUTLETS ARE TO BE MOUNTED BACK TO BACK, KEEP AT LEAST 1 1/2 INCHES BETWEEN RECEPTACLES AND TELEPHONE OUTLETS.

ALL RECEPTACLES WITHIN THE FOLLOWING COMMERCIAL SPACES SHALL BE TAMPER RESISTANT PER 2020 NEC 406.12: MOTEL GUEST/SUITE ROOMS, CHILD CARE FACILITIES, PRESCHOOLS AND ELEMENTARY EDUCATION FACILITIES, BUSINESS OFFICES, CORRIDORS, WAITING ROOMS AND THE LIKE AT (CLINICS, MEDICAL AND DENTAL OFFICES, AND OUTPATIENT FACILITIES), SUBSET OF ASSEMBLY OCCUPANCIES DESCRIBED 518.2 TO INCLUDE PLACES OF WAITING, TRANSPORTATION, GYMNASIUMS, SKATING RINKS, AND AUDITORIUMS, AND DORMITORIES.

ALL CONDUCTORS SHALL BE COPPER WITH A MINIMUM SIZE OF #12 AWG EXCEPT FOR FIRE ALARM. THESE CONDUCTORS SHOULD COMPLY WITH NFPA REQUIREMENTS.

THE ELECTRICAL CONTRACTOR SHALL ALIGN ALL FIXTURES, SMOKE DETECTORS, CEILING DIFFUSERS, ETC. AS REQUIRED TO PROVIDE A UNIFORM PRESENTATION. FOLLOW THE REFLECTED CEILING PLAN IF PROVIDED.

CIRCUIT BREAKERS AND WIRE ARE SIZED FOR SPECIFIC EQUIPMENT. BEFORE ORDERING WIRE, BREAKERS, FIXTURES, CONDUIT, AND ETC. FOR THIS PROJECT, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OTHER CONTRACTORS ON THE JOB AND VERIFY THE ELECTRICAL DATA FOR THE EQUIPMENT THAT WILL BE ACTUALLY INSTALLED. RECOMPUTE WIRE AND BREAKER SIZES IF REQUIRED BY THE NEC.

THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE GENERAL CONTRACTOR AND OWNER PRIOR TO INSTALLATION FOR USE WITH ACTUAL EQUIPMENT.

ALL LIGHT SWITCHES, RECEPTACLES, WALL PLATES, TELEPHONE/COMPUTER OUTLET BOXES, AND CABLE OUTLET BOXES SHALL BE WHITE.

EACH CONTRACTOR WILL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED IN HIS CONTRACT AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE ELECTRICAL CONTRACTOR'S EXPENSE.

THE ELECTRICAL CONTRACTOR SHALL REFER TO THE DRAWINGS FOR FLOOR PLAN AND BUILDING ELEVATION DIMENSIONS.

THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE. THINK OF OTHER CONTRACTORS AND THEIR REQUIREMENTS IN VERTICAL CHASES AND WALL MOUNT SPACE. ALL CONTRACTORS TO FOLLOW THIS ORDER OF PRIORITY:

1. STORM AND SANITARY SEWER LINES
2. DUCTWORK AND HVAC SYSTEMS
3. HOT AND COLD WATER LINES
4. RIGID CONDUIT
5. CABLE

THE ELECTRICAL CONTRACTOR TO ORGANIZE HIS CONDUIT, WIRE, AND CABLE RUNS IN ATTIC SPACES AND ABOVE CEILINGS, MAKE RUNS PARALLEL, PERPENDICULAR, AND GROUPED TOGETHER WHERE POSSIBLE. LOCATE MAJOR GROUPINGS OVER HALLWAYS AND AREAS OF PUBLIC ACCESS. FREE RUNS OF PHONE, TELEVISION, SECURITY, ALARM, AND OTHER CABLES IS NOT ACCEPTABLE.

ALL DISCONNECT SWITCHES AND BREAKER SIZES SHOWN FOR MECHANICAL EQUIPMENT, KITCHEN EQUIPMENT, AND ETC. SHALL BE VERIFIED BEFORE PURCHASE AND INSTALLATION OF SAID EQUIPMENT WITH THE EQUIPMENT SUPPLIER AND MECHANICAL CONTRACTOR, WHERE EQUIPMENT PENETRATES EXTERIOR WALLS OR ROOF, THEY SHALL BE PROPERLY SEALED.

EXHAUST FANS ARE TO BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR, AND ELECTRICAL WIRING BY THE ELECTRICAL CONTRACTOR.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE NAMEPLATES FOR IDENTIFICATION OF ALL EQUIPMENT, SWITCHES, PANELS, ETC. THE NAMEPLATES SHALL BE LAMINATED PHENOLIC PLASTIC, BLACK FRONT AND BACK WITH WHITE CORE, WHITE ENGRAVED LETTERS (1/4 INCH MINIMUM) ETCHED INTO THE WHITE CORE. NAME TAGS TO BE MOUNTED WITH SELF-TAPPING SHEET METAL SCREWS.

THE ELECTRICAL CONTRACTOR IS NOT TO SCALE THE DRAWINGS FOR RECEPTACLES AND LIGHT FIXTURES TO BE INSTALLED. THE DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY TO SHOW GENERAL LOCATION. THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATION OF RECEPTACLES AND LIGHT FIXTURES WITH THE GENERAL CONTRACTOR AND/OR CASEWORK DRAWINGS.

ALL LIGHT SWITCHES AND RECEPTACLES SHALL BE RATED FOR 20 AMP UNLESS NOTED OTHERWISE.

APPENDIX B ENERGY CODE

PROJECT NAME: **BURNEY'S SWEETS**

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT
METHOD OF COMPLIANCE:
ENERGY CODE: X PRESCRIPTIVE PERFORMANCE
ASHRAE 90.1: X PRESCRIPTIVE PERFORMANCE

LIGHTING SCHEDULE (EACH FIXTURE TYPE) 2X4 SURFACE MOUNTED (5) AND 6" RECESSED ROUND LIGHTS (14)
LAMP TYPE REQUIRED IN FIXTURE LED

NUMBER OF LAMPS IN FIXTURE: N/A
BALLAST TYPE USED IN THE FIXTURE: ELECTRONIC
NUMBER OF BALLASTS IN FIXTURE: 1
TOTAL WATTAGE PER 2X4 FIXTURE: 43 PER FIXTURE
TOTAL WATTAGE PER 6" RECESSED ROUND FIXTURE: 14 PER FIXTURE
TOTAL INTERIOR WATTAGE:
ADDITION SPECIFIED VS. ALLOWED = 1360 SF * 0.89W/SF * .90 1089 WHOLE SPACE
TOTAL INTERIOR WATTAGE SPECIFIED= 411 VS. 1089 ALLOWED
TOTAL EXTERIOR WATTAGE SPECIFIED= N/A VS. N/A ALLOWED

ADDITIONAL PRESCRIPTIVE COMPLIANCE (REQUIRED FOR NEW BUILDINGS, OPTIONAL FOR EXISTING BUILDINGS)

- 506.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT
- 506.2.2 REDUCED LIGHTING POWER DENSITY
- 506.2.3 ENERGY RECOVERY VENTILATION SYSTEMS
- 506.2.4 HIGHER EFFICIENCY SERVICE WATER HEATING
- 506.2.5 ON-SITE SUPPLY OF RENEWABLE ENERGY
- 506.2.6 AUTOMATIC DAY LIGHTING CONTROL SYSTEMS

DESIGNER STATEMENT:

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 ENERGY CODE.

SIGNED: *Buddy Jenkins*
NAME: BUDDY JENKINS
TITLE: PROFESSIONAL ENGINEER

EXISTING PANEL "A" WITH NEW BREAKERS

EXISTING LOAD: LIGHTS (light font)
NEW LOAD: AHU (bold font)

PHASE 3 WIRE 4 VOLTS 120/208 MAIN 200 MCB
TYPE NEMA 1 MOUNTING SURFACE ENCLOSURE
SHORT CKT. RATING 22,000 RMS SYM.
 GROUND TERMINAL BAR NEUTRAL TERMINAL BAR

PHASE LOADING			DESCRIPTION	CKT. TYPE	CKT. NO.	CKT. TRIP	CKT. TYPE	DESCRIPTION	PHASE LOADING				
A	B	C							A	B	C		
0.75			LIGHTS (EXISTING)	C	20/2	1		TENANT SIGN (EXISTING)	0.50	0.50			
0.75	0.80		DRY DISPLAY CASE	C	15/1	5		COLD DISPLAY CASE			1.38		
1.38			COLD DISPLAY CASE	C	15/1	7		2 DOOR REFRIGERATOR	0.51				
1.44			PROOFING BOX	C	15/1	9		2 DOOR REACH-IN REFRIGERATOR		1.23			
	0.50		WALK-IN FREEZER LIGHT CONTROL	C	15/1	11		ROOFTOP RECEPTACLE GFCI (EXISTING)			0.18		
0.01	0.80		WALK-IN FREEZER THERMOSTAT CONT.	C	15/1	13		RTU (EXISTING)	3.84	3.84			
	1.00		LIGHTS - TOILET/STORE ROOM (EXISTING)	C	20/1	15					3.84		
			LIGHTS - EMERGENCY (EXISTING)	C	20/1	17					3.84		
0.20			DONUT DEPOSITOR	N	15/1	19		WALK-IN FREEZER CONDENSER	4.50				
	0.10		DONUT FRYER	C	15/1	21		WALK-IN EVAPORATOR		4.50			
			SPACE			23					0.23		
			SPACE			25							
	0.36		TELEPHONE BOARD RECEPTACLE (EXIST)	R	20/1	27		KITCHEN EXHAUST FAN (KEF-1)	1.88				
			SPACE			29		KITCHEN MAKEUP AIR FAN (KMAU-1)	1.88				
	0.54		RECEPTACLES (EXISTING)	R	20/1	31		SPACE					
			RECEPTACLES (EXISTING)	R	20/1	33		SPACE					
			SPACE			35		SPACE					
			SPACE			37		SPACE					
			SPACE			39		SPACE					
			SPACE			41		SPACE					
2.88	3.99	2.66	SUB-TOTAL (VA)					SUB-TOTAL (VA)			11.21	11.95	5.63
			C CONTINUOUS LOAD	E ESTIMATED LOAD				N NON-CONTINUOUS LOAD					
			H HVAC LOAD	K KITCHEN LOAD				R RECEPTACLE LOAD					
			TOTAL CONNECTED LOAD = 38.32 KVA			AMPS = 106.36			TOTAL OF 42 SPACES				

THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CIRCUITS AND BREAKER SIZES WITH THE ACTUAL EQUIPMENT PROVIDED. THE CONTRACTOR MAY REVISE BREAKERS AND RE-ARRANGE CIRCUITS BUT IS REQUIRED TO BALANCE LOADS AS REQUIRED BY THE NEC. CONTRACTOR SHALL PROVIDE AS-BUILT PANEL SCHEDULES.

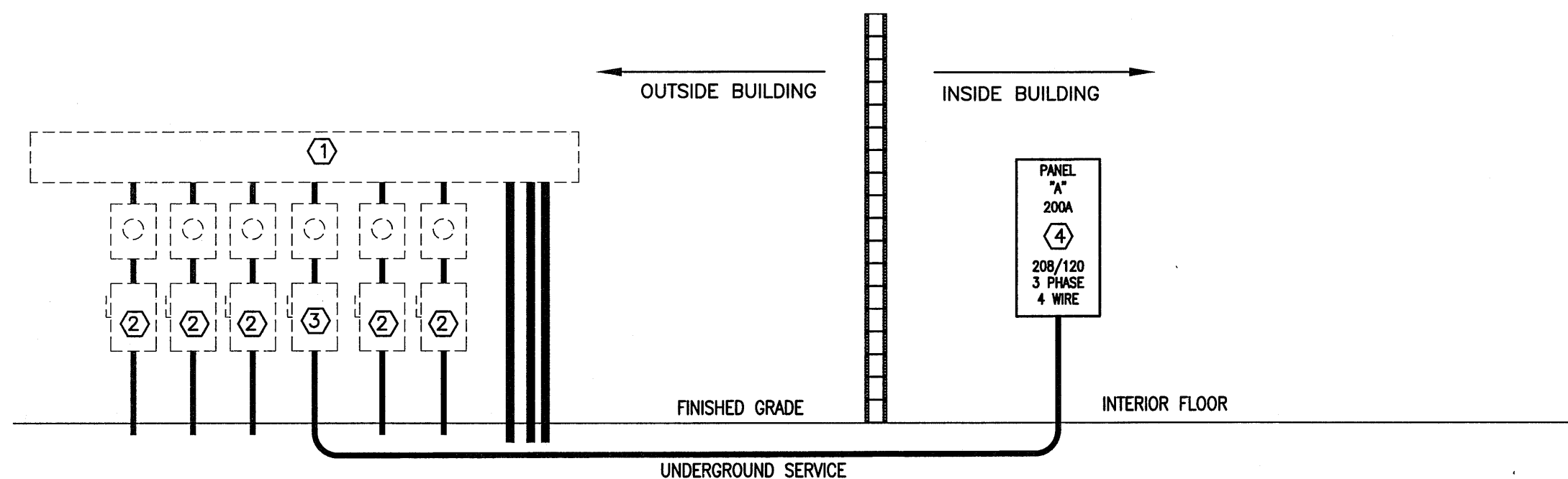
TOTAL CONNECTED LOAD SUMMARY

ITEM	CONNECTED LOAD (KVA)	ESTIMATED LOAD (KVA)
HVAC	24.49 @ 100%	= 24.49
LIGHTING	3.80 @ 125%	= 4.75
RECEPTACLES	1.98 (T-10.00*60+10.00)	= 1.98
MISC. EQUIPMENT	8.05 @ 60%	= 3.22
TOTAL CONNECTED	38.32 KVA	106.36 AMPS
ESTIMATED DEMAND	33.12 KVA	95.59 AMPS

- ① EXISTING ELECTRICAL GUTTER
- ② EXISTING TENANT METER BASE AND DISCONNECT
- ③ EXISTING METER AND EXISTING DISCONNECT FOR BURNEY'S
- ④ EXISTING PANEL FOR BURNEY'S SWEET (UNIT 7)

SCOPE OF ELECTRICAL WORK:

THE EXISTING ELECTRICAL SYSTEM IS 120/208V 3PH UTILIZING A METER BASE AND DISCONNECT ON THE EXTERIOR. EXISTING METER BASE ALONG WITH AN EXISTING PANEL INSTALLED IN THE INTERIOR TO PROVIDE POWER TO UPFIT TENANT SPACE WILL REMAIN.

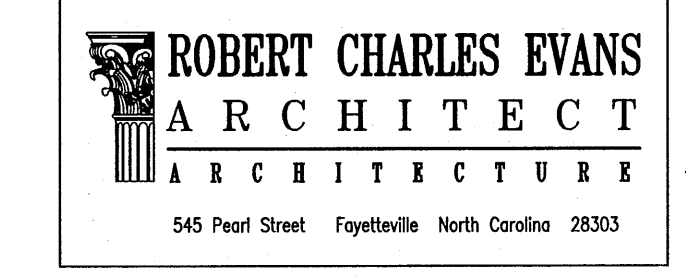


EXISTING POWER RISER DIAGRAM

NOT TO SCALE

ELECTRICAL LEGEND

⊕	DUPLEX RECEPTACLE; MOUNT AT 18" A.F.F. UNLESS NOTED OTHERWISE
—	SINGLE POLE POWER/LIGHTING HOMERUN
—	DOUBLE POLE POWER HOMERUN
—	TRIPLE POLE POWER HOMERUN
◁	(1) WALL MOUNTED DATA OUTLET
⊙	JUNCTION BOX
⊞	POWER PANEL
⊞	SWITCH
⊞	2x4 LAY-IN LED
⊞	2x4 LAY-IN LED; NIGHT LIGHT; WITH TAG
⊞	6" LAY-IN ROUND LED; NIGHT LIGHT; WITH TAG
⊞	EMERGENCY LIGHT (MARKED EM)
⊞	EMERGENCY EXIT SIGN WITH REMOTE HEADS (MARKED EX)
⊞	OCCUPANCY SENSOR



Burney's Sweets & More

Drawing Name: **ELECTRICAL PANEL SCHEDULE & NOTES**

Project Name: **Renovations for: Burney's Sweets & More**

Project Location: **2668 NC 24/87 Brinkley Commons Cameron North Carolina 28326**



12.20.22



PROJECT NO: 20-155

DATE: 12.20.22

REVISIONS:

SHEET NO: **E1**

Burney's Sweets & More

Drawing Name:
 ELECTRICAL -
 POWER/LIGHTING PLAN

Project Name:
 Renovations for:
 Burney's Sweets & More

Project Location:
 2668 NC 24/87
 Brinkley Commons
 Cameron
 North Carolina 28326

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 ATTORNEY TO DETERMINE IF IT COMPLES TO ADA AND OTHER LAWS.



12.20.22

JENKINS
 CONSULTING ENGINEERS, P.A.
 OFFICE IN EUREKA SPRINGS, NORTH CAROLINA
 1606 MARSHUR RD. FAYETTEVILLE, NC 28111-1058
 CORPORATION NUMBER 01-0376 Budy@jenkins-eng.com
 910.822.1724

PROJECT NO: 20-155
 DRAWN BY: MAW
 DATE: 12.20.22
 REVISIONS:

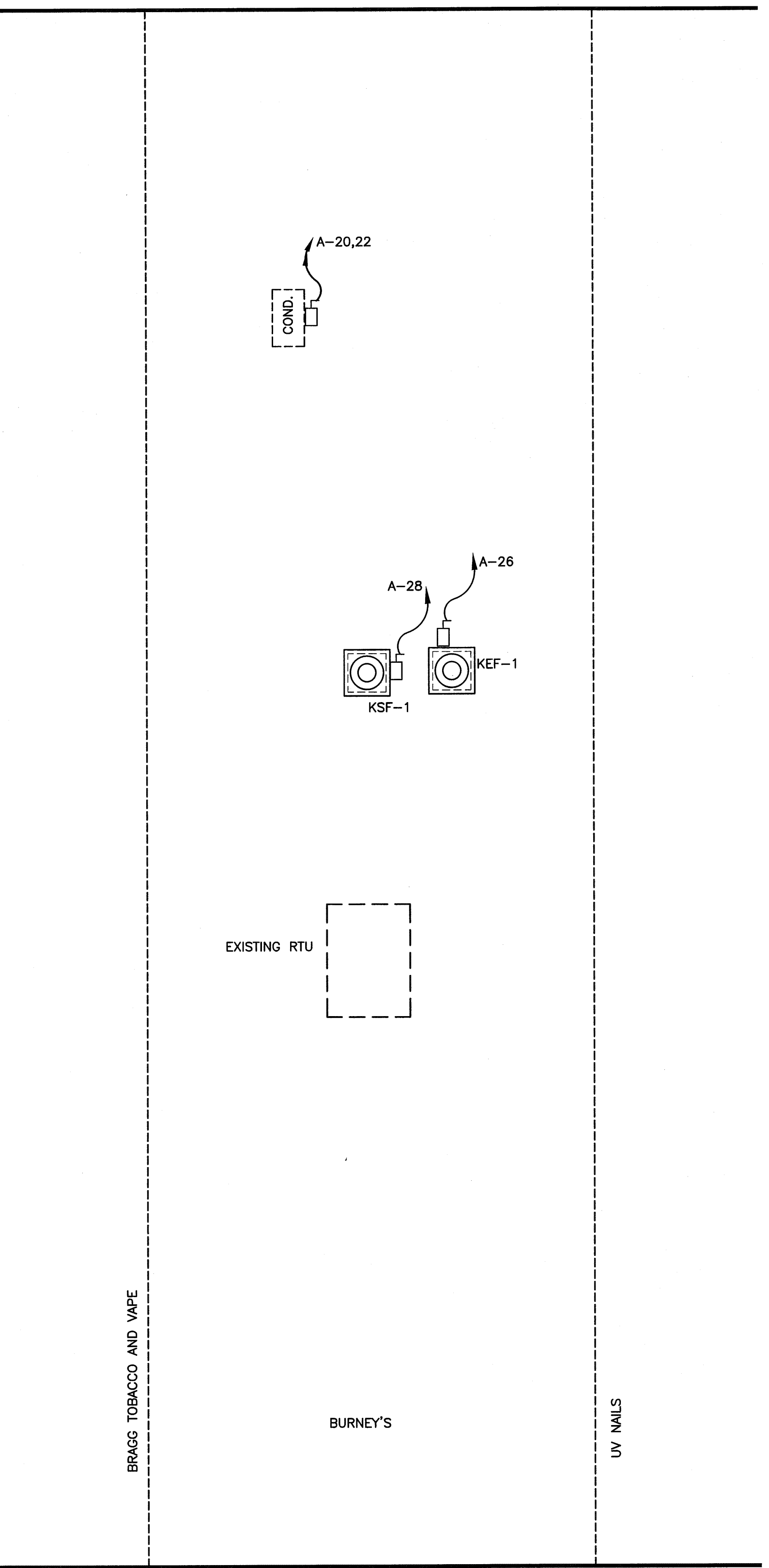
SHEET NO:
 E2

IT IS THE PURPOSE OF THESE DRAWINGS TO SHOW THE INTENT OF THIS SYSTEM DESIGN. EVERY EFFORT HAS BEEN MADE TO ACCURATELY SHOW EXISTING CONDITIONS- ANY DEVIATION TO THESE DRAWINGS UNCOVERED DURING NEW CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF GENERAL CONTRACTOR OR ENGINEER BEFORE ALTERING THIS DESIGN.

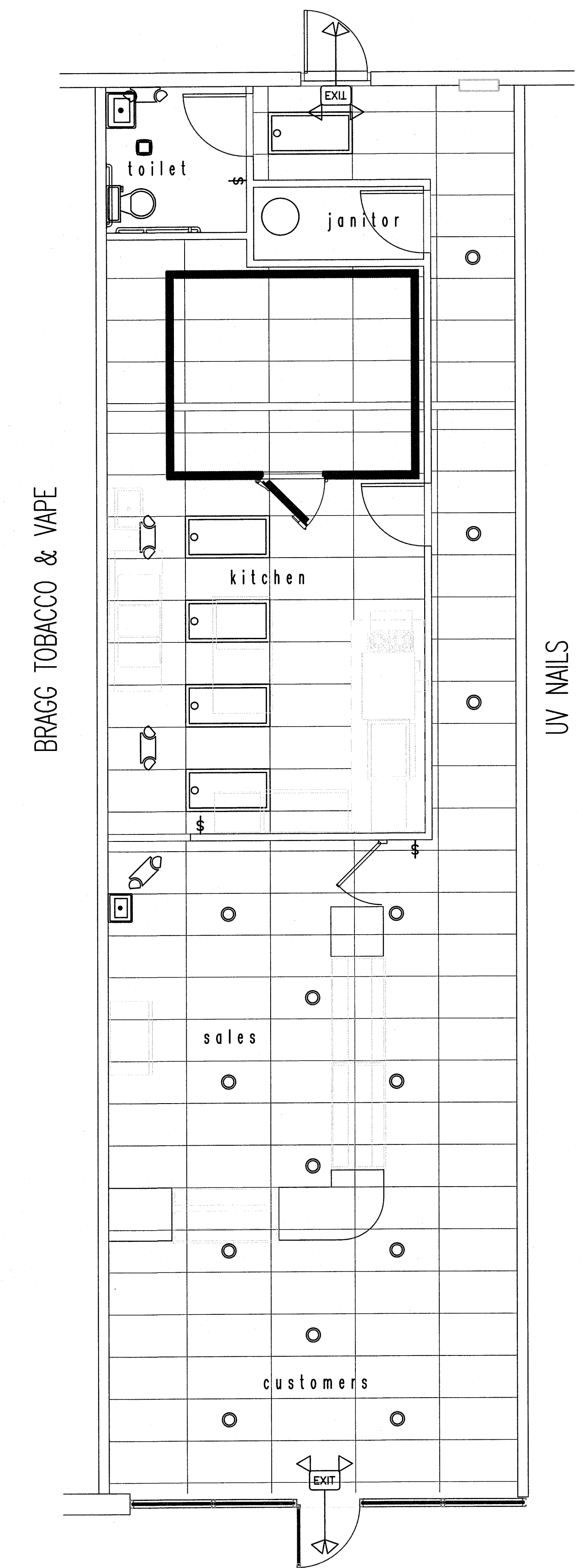
ELECTRICAL SCOPE OF WORK:
 ELECTRICAL SCOPE OF WORK WILL CONSIST OF ADDING NEW APPLIANCES AND NEW NEMA 5-15P CIRCUITS TO EXISTING ELECTRICAL PANEL. WILL ALSO INSTALL NEW CIRCUITS FOR A NEW HOOD SYSTEM TO INCLUDE KITCHEN EXHAUST FAN AND MAKE UP AIR FAN. WILL ALSO ADD NEW CIRCUITS FOR A WALK-IN FREEZER FOR A CONDENSING UNIT ON THE ROOF ALONG WITH AN EVAPORATION UNIT IN THE FREEZER. ALL EXISTING CIRCUITS WILL REMAIN AS-IS AND ANY ABANDONED CIRCUITS WILL BE REMOVED AND A SPACE WILL BE LEFT IN THE PANEL. CONTRACTOR WILL ENSURE PANEL IS BALANCED AND NOT OVERLOADED.

EXISTING ELECTRICAL NOTES:

- LED CAN FIXTURE
- LAY-IN LIGHT FIXTURE
- EMERGENCY EXIT LIGHT
- EMERGENCY LIGHT
- 120 VAC DUPLEX OUTLET
- 120 VAC DUPLEX OUTLET GROUND FAULT CIRCUIT PROTECTOR
- 120 VAC QUAD OUTLET
- LIGHT SWITCH
- ELECTRICAL PANEL
- EXISTING TO REMAIN

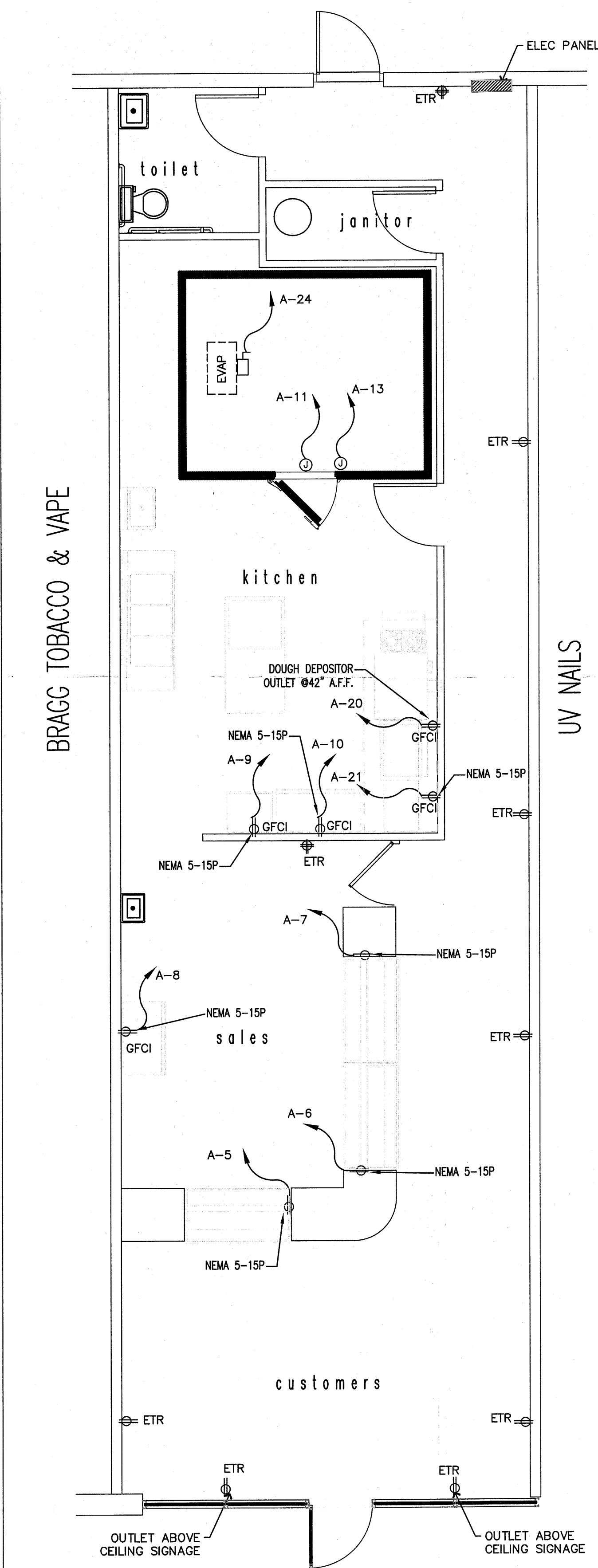


3 ELECTRICAL - ROOF PLAN
 SCALE: 1/4" = 1'-0"



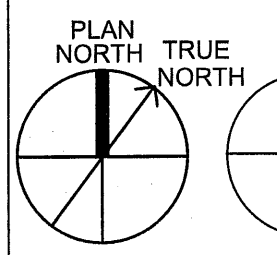
LIGHTING SCOPE OF WORK:
 ALL LIGHTING IS EXISTING TO REMAIN AND WILL REMAIN ON EXISTING CIRCUITS. NO NEW LIGHTING WILL BE ADDED TO THE EXISTING PANEL.

2 ELECTRICAL - LIGHTING
 SCALE: 1/4" = 1'-0"



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

Drawing File: H:\2022\Rob Evans\Burneys Sweets and More\PU\Burneys sweets 120222 MEP.dwg
 Plotted by: MarkW
 Plotted Date: Dec 21, 2022 - 8:55am



PLUMBING FIXTURE SCHEDULE

SYMBOL	MANUFACTURER	MODEL # (QUANTITY #)	FIXTURE DESCRIPTION	FIXTURE MOUNTING	ACCESSORIES	SUPPLY	WASTE	VENT	GAS	ELECTRICAL	REMARKS
P1	EXISTING	-	ELONGATED BOWL; FLUSH TANK TOILET	FLOOR MOUNTED	-	3/4" C.W.	3"	2"			EXISTING
P2	EXISTING	-	TOILET LAVATORY	WALL MOUNTED	-	1/2" C.W. /H.W.	2"	1-1/2"			EXISTING
P3	E. L. MUSTEE	12C UTILITUB	18" POLYPROPYLENE TUB SINK	FLOOR MOUNTED	FAUCET INCLUDED IN KIT	1/2" C.W. /H.W.	3"	2"			
GI-1	WATTS	WD-50	GREASE INTERCEPTOR	FLOOR MOUNTED	FLOW RESTRICTOR WITH VENT CONNECTION	4" INLET	4"	2"			ON FLOOR BENEATH 3 COMP. SINK
WH-1	A.O. SMITH	PCG-75LP	74 GALLON WATER HEATER (LP)	FLOOR MOUNTED	-	1" C.W.	-	2"	75,000		OR EQUIVALENT TO SPECIFIED

- ① HANDICAPPED
- ② VITREOUS CHINA
- ③ 4 INCH CENTER
- ④ SINGLE LIFT MIXING FAUCET
- ⑤ VINYL COVERED INSULATION FOR WASTE/WATER PIPING
- ⑥ FLUSHING RIM
- ⑦ 16-1/2" HIGH BOWL
- ⑧ 1.6 GALLONS PER FLUSH
- ⑨ WHITE FINISH
- ⑩ MOUNT BOTTOM OF APRON @ 29" A.F.F.
- ⑪ CHROME FAUCET FINISH
- ⑫ STRAINER
- ⑬ 8.0 GPH OF 50°F TEMP DELIVERY
- ⑭ 8.0 GPH OF AMBIENT TEMP DELIVERY
- ⑮ SPLIT-LEVEL
- ⑯ HEAT TAPE
- ⑰ WEATHERPROOF GFI RECEPTACLE IN COVER
- ⑱ BRONZE 2-PIECE BALL VALVE
- ⑲ 2 GALLON EXPANSION TANK
- ⑳ NON-TRAFFIC RATED
- ㉑ PORCELAIN COATED INTERIOR
- ㉒ EXISTING WATER HEATER TO BE RE-USED LOCATED ABOVE CEILINGS IN RESTROOMS
- ㉓ 20 AMP BREAKER

PLUMBING GENERAL NOTES:

PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA PLUMBING CODE EDITION AND LOCAL CODES. ALL WORK SHALL BE COORDINATED AND PERFORMED WITH PRIOR APPROVAL FROM THE GENERAL CONTRACTOR AND OWNER TO SUIT THE OWNER'S OPERATING CONDITIONS.

PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE GENERAL CONTRACTOR OF ANY DEVIANCIES FROM THE CONTRACT DRAWINGS PRIOR TO STARTING ANY WORK.

THE PLUMBING CONTRACTOR SHALL COORDINATE WITH OTHER TRADES INVOLVED IN THIS PROJECT PRIOR TO INSTALLATION OF HIS EQUIPMENT, SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND ALLOW FOR OPTIMUM WORKING SPACE AND MAINTENANCE. THINK OF OTHER CONTRACTORS AND THEIR REQUIREMENTS IN VERTICAL CHASES AND WALL MOUNT SPACE. ALL CONTRACTORS TO FOLLOW THIS ORDER OF PRIORITY:

1. STORM AND SANITARY SEWER LINES
2. DUCTWORK AND HVAC SYSTEMS
3. HOT AND COLD WATER LINES
4. RIGID CONDUIT
5. CABLE

THE PLUMBING CONTRACTOR TO ORGANIZE HIS PIPING IN ATTIC SPACES, CRAWL SPACES, AND ABOVE CEILINGS. MAKE RUNS PARALLEL, PERPENDICULAR, AND GROUPED TOGETHER WHERE POSSIBLE. LOCATE MAJOR GROUPINGS OVER HALLWAYS AND AREAS OF PUBLIC ACCESS IF POSSIBLE. FREE RUNS OF PIPING IS NOT ACCEPTABLE.

THE PLUMBING CONTRACTOR SHALL LAY OUT AND INSTALL HIS WORK IN ADVANCE OF POURING CONCRETE FLOORS OR WALLS. HE SHALL FURNISH ALL SLEEVES TO THE GENERAL CONTRACTOR FOR OPENINGS THROUGH POURED MASONRY FLOORS, OR WALLS, ABOVE GRADE REQUIRED FOR PASSAGE OF ALL PIPES TO SUPPORT HIS EQUIPMENT.

HORIZONTAL DRAINAGE AND WASTE PIPE SHALL HAVE A MINIMUM SLOPE OR FALL OF 1/8 INCH PER FOOT. ALL CHANGE OF HORIZONTAL DIRECTIONS IN SOIL WASTE PIPE SHALL BE MADE WITH LONG RADIUS FITTINGS WITH "Y" BRANCHES AND 1/8 OR 1/16 BENDS.

COLD AND HOT WATER PIPING ABOVE GRADE SHALL BE TYPE "L" HARD DRAWN COPPER TUBING CONFORMING TO ASTM B-88 WITH SWEAT JOINTS AND WROUGHT OR CAST VALVES AND FITTINGS (UNIONS, STRAINERS, ETC.). JOINT SHALL BE MADE WITH LEAD FREE SOLDER. PEX PIPING MAY BE USED WITH OWNERS APPROVAL.

ALL HOT WATER PIPING SHALL BE INSULATED WITH 1 INCH THICK SECTIONAL INSULATION OR FIBROUS GLASS MATERIALS WITH FACTORY APPLIED COVER. COVER SHALL BE EMBOSSED VAPOR BARRIER, LAMINATED WITH PRESSURE SEALING CAP ADHESIVE.

ALL COLD WATER PIPING SHALL BE INSULATED WITH 1/2 INCH THICK SECTIONAL INSULATION OR FIBROUS GLASS MATERIALS WITH FACTORY APPLIED COVER. COVER SHALL BE EMBOSSED VAPOR BARRIER, LAMINATED WITH PRESSURE SEALING CAP ADHESIVE.

SANITARY HORIZONTAL WASTE, VENT PIPING, AND FITTINGS ABOVE GRADE SHALL BE SCHEDULE 40 PVC-DIW PIPE-CELLULAR CORE FROM CHARLOTTE PIPE AND FOUNDRY COMPANY OR APPROVED EQUAL, AND MUST MEET OR EXCEED THE REQUIREMENTS OF ASTM F-891, NSF STANDARD NO. 14, AND IAPMO UPC.

ALL WASTE STACK PIPING SHALL BE CAST IRON AND INSULATED FOR SOUND IN WALLS.

ALL WASTE AND STORM PIPING ABOVE CEILING, VERTICAL CHASES, WALLS SHALL BE INSULATED WITH 1/2 INCH THICK SECTIONAL INSULATION OR FIBROUS GLASS MATERIALS WITH FACTORY APPLIED COVER. COVER SHALL BE EMBOSSED VAPOR BARRIER, LAMINATED WITH PRESSURE SEALING CAP ADHESIVE. NO INSULATION REQUIRED IN CRAWL SPACE OR BELOW FLOOR SLAB OF ANY WASTE AND STORM PIPING.

IN LIEU OF FIBERGLASS INSULATION, THE PLUMBING CONTRACTOR IS ALLOWED TO USE CLOSED CELL INSULATION, 1/2 INCH THICK ARMSTRONG/ARMAFLEX II ON ALL COLD WATER PIPES, RIGID URETHANE FOAM INSULATION, 1 INCH THICK ARMSTRONG/ARMAKOK II ON ALL HOT WATER PIPING.

ALL PLUMBING EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

ALL FIXTURES, DRAINS, TRAPS, ETC. SHALL BE SET PLUMB AND LEVEL.

ALL HANDICAPPED FIXTURES AND TRIM SHALL BE INSTALLED IN ACCORDANCE WITH THE 2018 NORTH CAROLINA PLUMBING CODE EDITION.

CHROME PLATED ESCUTCHEONS SHALL BE PROVIDED AT EACH WALL PENETRATION.

ESCUTCHEONS SHALL BE CHROME PLATED, SPRING TYPE, ON ALL PIPES PASSING THROUGH WALLS AND CEILINGS IN FINISHED AREAS. FLOOR ESCUTCHEONS SHALL BE CAST BRASS, CHROME PLATED, WITH SET SCREW.

ESCUTCHEONS SHALL BE OF SUFFICIENT SIZE TO COVER OUTSIDE DIAMETER OF THE PIPE OR THE INSULATION OF THE PIPE.

FLASHING FOR VENTS THROUGH THE ROOF SHALL BE TWO-PIECE TYPE, 16 OUNCE COPPER COUNTER FLASHING AND BASE FLASHING, OR A TWO-PIECE TYPE, 4 POUND LEAD COUNTER FLASHING AND BASE FLASHING. THE BASE FLASHING SHALL BE INSTALLED BY THE GENERAL CONTRACTOR WITH THE ROOF SYSTEM.

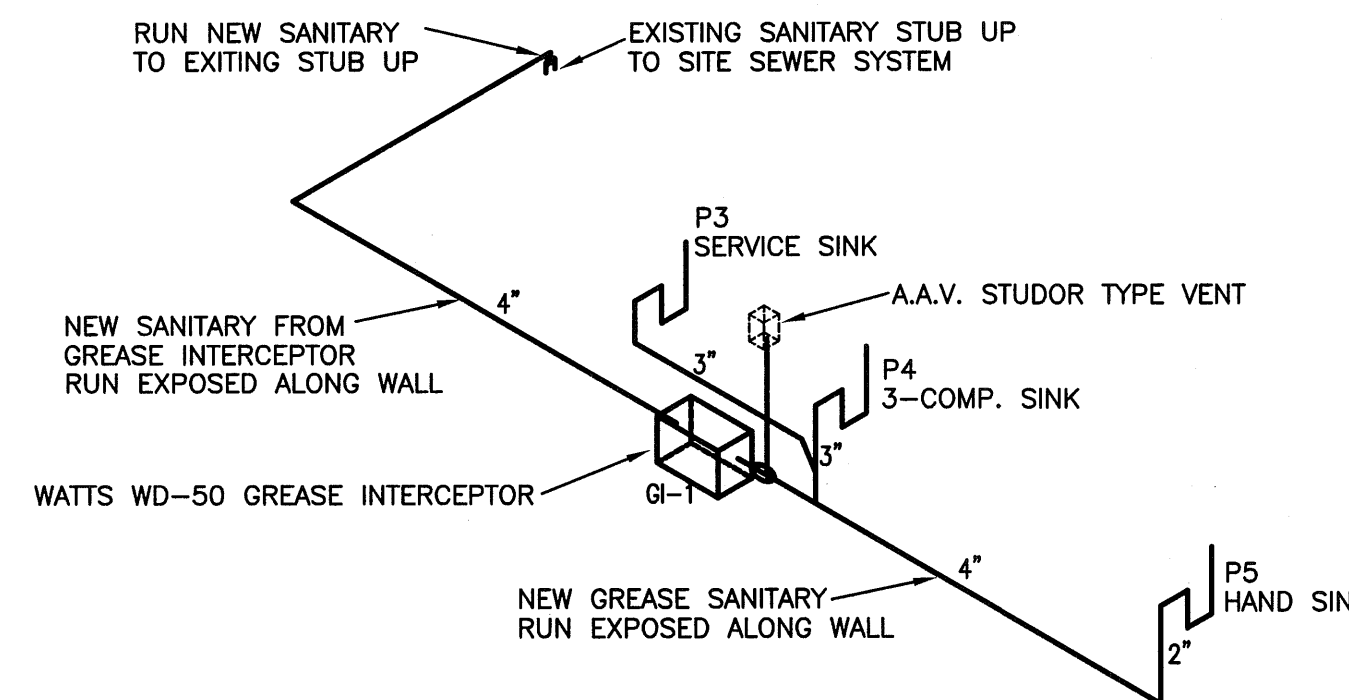
VENT FLASHING SHALL EXTEND DOWN AT LEAST 4 INCHES FROM THE TOP OF THE PIPE. FLASHING SHALL EXTEND AT LEAST 12 INCHES IN ALL DIRECTIONS FROM THE PIPE AND SHALL BE PARALLEL TO THE ROOF LINE.

ALL EQUIPMENT AND INSTALLED MATERIALS SHALL BE THOROUGHLY CLEAN AND FREE OF ALL DIRT, OIL, GRIT, GREASE, AND ETC.

ALL PLUMBING SYSTEMS AND EQUIPMENT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING FROM THE OWNER.

WATER CALCULATIONS				
QTY.	ITEM	C.W. FIXTURE UNITS	WATER SUPPLY FIXTURE UNITS EACH	WATER SUPPLY FIXTURE UNITS TOTAL
1	3 COMPARTMENT SINK	4.0	4.0	4.0
1	HAND SINK	1.5	2.0	2.0
1	MOP SINK	2.25	3.0	3.0
1	TOILET	5.0	5.0	5.0
1	LAVATORY	1.5	2.0	2.0
TOTAL WATER SUPPLY FIXTURE UNITS				16.0

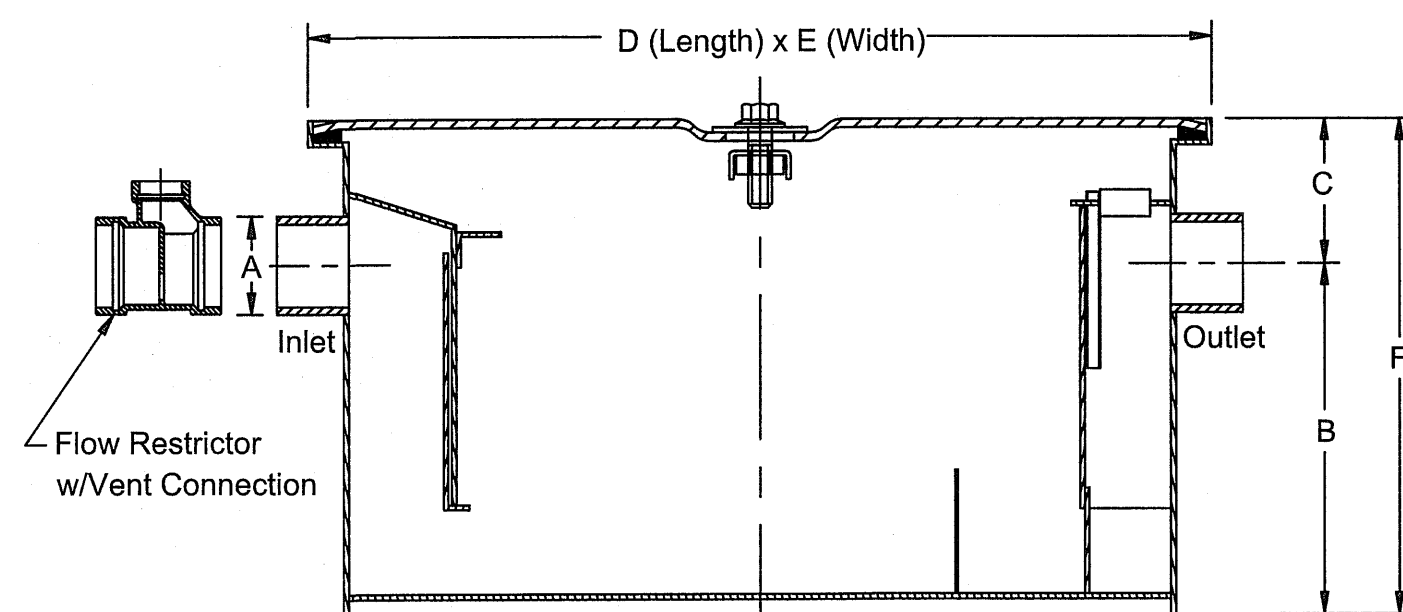
DRAINAGE CALCULATIONS			
QTY.	ITEM	DRAINAGE FIXTURE UNITS	DRAINAGE FIXTURE UNITS TOTAL
1	HAND SINK	2.0	2.0
1	MOP SINK	3.0	3.0
1	LAVATORY	1.0	1.0
1	WATER CLOSET	4.0	4.0
TOTAL DRAINAGE FIXTURE UNITS			10.0



NOTE: ALL FIXTURES AND PLUMBING SHOWN ON THIS RISER ARE NEW UTILIZING EXISTING SANITARY SERVICE

NOTE: EXISTING RESTROOM FIXTURES TO REMAIN AS-IS ON EXISTING SANITARY

1 PLUMBING - GREASE RISER
P1 N.T.S.



NOTE: GREASE INTERCEPTOR SPECIFIED IS: WATTS WD-50, SEE HIGHLIGHTED BELOW

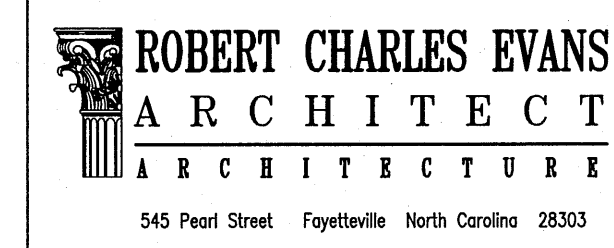
Interceptor Catalog Number	Flow Rate GPM	Grease Capacity Lbs.	A Inlet & Outlet	B Base to Center	C Top to Center	D Length	E Width	F Height
WD-4	4	8	2"(51)	7-3/4"(197)	3-1/4"(83)	16"(406)	10"(254)	11"(279)
WD-7	7	14	2"(51)	8-1/2"(216)	3-1/2"(89)	18"(457)	13"(330)	12"(305)
WD-10	10	20	2"(51)	8-1/2"(216)	3-1/2"(89)	21-3/4"(552)	14"(356)	12"(305)
WD-15	15	30	2"(51)	10-1/2"(267)	3-1/2"(89)	22"(559)	15"(381)	14"(356)
WD-20	20	40	3"(76)	11-1/2"(292)	3-1/2"(89)	24"(610)	15-3/4"(400)	15"(381)
WD-25	25	50	3"(76)	12"(305)	4-1/2"(114)	26"(660)	16-1/2"(419)	16-1/2"(419)
WD-35	35	70	3"(76)	14"(356)	5"(127)	30"(762)	18"(457)	19"(483)
WD-50	50	100	4"(102)	16"(406)	5-1/2"(140)	32"(813)	22"(559)	21-1/2"(546)

GREASE INTERCEPTOR SIZING CALCULATIONS

QTY.	ITEM	SIZE (INCHES)			NUMBER OF COMPARTMENTS	CUBIC INCHES = a*b*c*d	CAPACITY/GALS = e/2.31	DRAINAGE LOAD = f*0.75	PEAK FLOW = g/2
		LENGTH (a)	WIDTH (b)	DEPTH (c)					
1	MOP SINK	18	18	14	1	4,536	19.6	14.7	7.3 GPM
1	3 COMP. SINK	24	18	14	3	18,144	78.54	58.95	29.4 GPM
1	HAND SINK	14	14	6	1	1,176	5.09	3.81	1.9 GPM
TOTAL GPM/2 MINUTE DRAINAGE									38.6 GPM

NOTE: INSTALL 50 GPM GREASE INTERCEPTOR INSIDE UNDER THE 3 COMPARTMENT SINK

2 GREASE INTERCEPTOR DETAILS
P1 N.T.S.



Burney's Sweets & More

Drawing Name:
PLUMBING NOTES/
SCHEDULE & RISER
Project Name:
Renovations for:
Burney's Sweets & More
Project Location:
2668 NC 24/87
Brinkley Commons
Cameron
North Carolina 28326

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DRAWN BY: MAW
DATE: 12.20.22
REVISIONS:

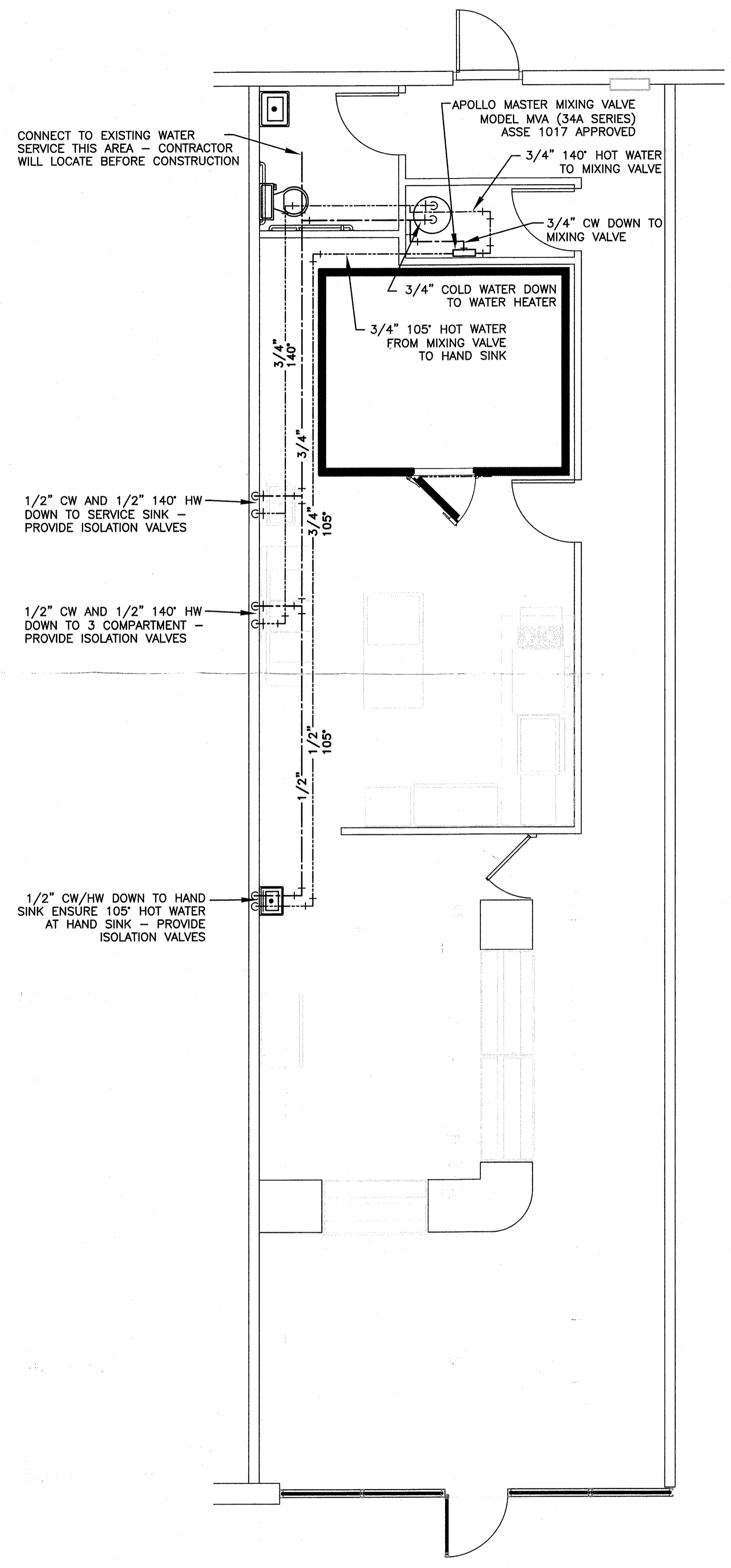
SHEET NO:

P1

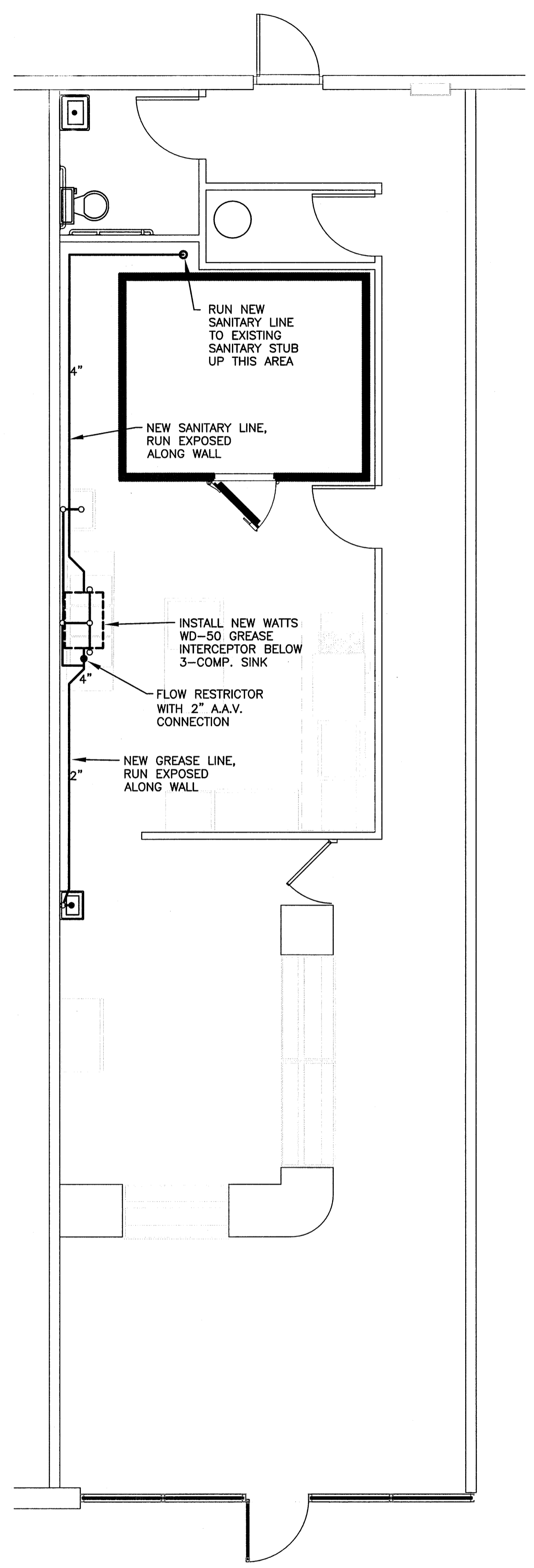
12.20.22



Burney's Sweets & More



PLAN NORTH TRUE NORTH
 1 PLUMBING - WATER PLAN
 P2
 SCALE: 1/4" = 1'-0"



2 PLUMBING - WASTE PLAN
 P2
 SCALE: 1/4" = 1'-0"

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PLUMBING SCOPE OF WORK:
 WILL BE INSTALLING ONE (1) HAND SINK, 3-COMPARTMENT SINK, WATER HEATER AND MOP SINK. WILL INSTALL A GREASE INTERCEPTOR BELOW THE 3-COMPARTMENT SINK AND WILL RUN THE GREASE LINE ALONG WITH THE NEW SANITARY LINE EXPOSED ALONG THE WALL TO AN EXISTING SANITARY STUB UP. EXISTING RESTROOM WILL REMAIN AS-IS WITH NO WORK REQUIRED.

Drawing Name:
PLUMBING PLAN - WATER/WASTE

Project Name:
Renovations for: Burney's Sweets & More

Project Location:
**2668 NC 24/87
 Brinkley Commons
 Cameron
 North Carolina 28326**



12.20.22

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PROJECT NO: 20-155	SHEET NO: P2
DRAWN BY: MAW	
DATE: 12.20.22	
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