

### GENERAL NOTES:

THIS SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH:

- NFPA 17A
- THE LOUISIANA STATE FIRE MARSHAL'S OFFICE
- THE MANUFACTURER'S SPECIFICATIONS
- ALL NOZZLES PROVIDED WITH NOZZLE CAPS
- HOOD CANOPY NEW
- DRAWING NOT TO SCALE
- UTILIZING 13 OF 15 FLOW POINTS
- ALL SUPPLY LINE TO BE 3/8" BLACK SCHEDULE 40 PIPE
- ALL BRANCH LINE TO BE 3/8" BLACK SCHEDULE 40 PIPE

**PYRO CHEM  
PCL 460  
WET CHEMICAL  
LL 300 LISTED**

**SYSTEM  
DETAIL**

### BILL OF MATERIALS

QTY. NAME

#### BILL OF MATERIALS

- QTY. NAME
- 1 ASCO GAS SHUT-OFF VALVE
  - 1 RPS PULL STATION
  - 2 1H PLENUM 10" HORZL
  - 5 AUTOMATIC DETECTOR
  - 1 1H GRIDDL 36"X30" @ 24"-48"
  - 2 2L RANGE 28"X28" @ 34"-48"
  - 1 2H FRYER 27.75"X18" @ 24"-48"
  - 1 PYRO CHEM PCL 460
  - 1 PYRO CHEM NMHH-3 CONTROLHEAD
  - 2 20 DUCT LESS THAN 100" MAX

**GONZO'S SMOKEHOUSE  
13899 RIVER ROAD  
LULING, LA 70070**



**FIRE AND SAFETY  
COMMODITIES  
245 WOODLAND DR  
LAPLACE LA 70068  
(504) 465-5994  
MACE@FIRESAFETYINC.NET  
FIRM: F58  
LIC. #: E383**

**LIFE-SAFETY INFORMATION**

**APPLICABLE CODES**  
 NFPA 101 LIFE-SAFETY CODE 2015  
 OCCUPANCY A-2, ASSEMBLY USES INTENDED FOR FOOD AND DRINK CONSUMPTION (RESTAURANTS); CONSTRUCTION TYPE V B ASSEMBLY (CHAPTER 13)

**MIXED OCCUPANCY** (REFERENCE CHAPTER 6)  
**OCCUPANT LOAD FACTOR** (REFERENCE TABLE 7.3.1.2)

DINING	966 S.F. NET	ASSEMBLY WITHOUT FIXED SEATS - UNCONCENTRATED (TABLES AND CHAIRS) - 15 NET PER OCCUPANT =	64 OCCUPANTS
KITCHEN AREA	503 S.F.	100 S.F. / PERSON	5 OCCUPANTS

TOTAL OCCUPANTS = 69

**CLASSIFICATION OF HAZARD OF CONTENTS**  
 REFERENCE: OCCUPANCY CHAPTER AND 8.2.2: SPECIFY LOW, ORDINARY, OR HIGH

**CONSTRUCTION TYPE(S)** (REFERENCE: CHAPTERS, TABLE A.5.2.1.2 AND COMMENTARY TABLE 8.1 IN HANDBOOK)  
 CONST. TYPE: 5(000)

**MINIMUM EXIT SEPARATION DISTANCE FOR REMOTELY LOCATED EXITS**  
 REFERENCE: SECTION 7.5; SPECIFY 1/2 OR 1/3 DIAGONAL DISTANCE OF AREA SERVED)

1/2 DIAGONAL DINING =	83.75 FT / 2 =	41.88 FT
1/3 DIAGONAL KITCHEN =	65.5 FT / 2 =	32.75 FT

**MAXIMUM DEAD-END CORRIDORS** (REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)  
**MAXIMUM COMMON PATH OF TRAVEL DISTANCE** (REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)  
**MAXIMUM TRAVEL DISTANCE TO EXITS** (REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)

MAIN ENTRANCE MUST BE SIGNED TO ACCOMMODATE 1/2 OCCUPANT LOAD OF BUILDING

**EXTINGUISHMENT REQUIREMENTS** SPRINKLER (NOT REQUIRED)  
**DETECTION, ALARM, AND COMMUNICATION SYSTEMS** NO  
**ALLOWABLE HEIGHT AND BUILDING AREA** PER IBC EQUIVALENT CONSTRUCTION TYPE

**BUILDING CODE INFORMATION**

**APPLICABLE CODES**  
 IBC 2021

OCCUPANCY A-2, ASSEMBLY USES INTENDED FOR FOOD AND DRINK CONSUMPTION (RESTAURANTS) (IBC 2015 CHAPTER 10)

**OCCUPANT LOAD CALCULATIONS** (TABLE 1004.1.2)

ASSEMBLY - UN-CONCENTRATED (TABLES AND CHAIRS)	966 S.F. NET	15 NET / OCCUPANT	64 OCCUPANTS
SERVING AREA	503 S.F. GROSS	100 S.F. GROSS / OCCUPANT	5 OCCUPANTS

TOTAL OCCUPANTS = 69

**CONSTRUCTION TYPE(S)** (TABLE 503)  
 V B (SECTION 503)

**ALLOWABLE HEIGHT AND BUILDING AREA LIMITED BY TYPE OF CONSTRUCTION**

MAXIMUM HEIGHT IN FEET (SECTION 503 & 504, TABLE 503)	40
MAXIMUM AREA IN SQUARE FEET (SECTION 503, 506 & 507, TABLE 503)	MULTI STORY NON-SPRINKLED 6,000 S.F.
ALLOWABLE BUILDING AREA WITH FRONTAGE INCREASE	8,160 S.F.

**WIND SPEED DESIGN REQUIREMENTS**

IMPROVEMENTS TO THIS BUILDING SHALL BE DESIGNED WITH IBC SEC 1609 AS A FULLY ENCLOSED BLDG USING THE FOLLOWING INFORMATION:

**WIND DESIGN DATA:**

DETERMINATION OF WIND LOADS SHALL BE IN ACCORDANCE WITH IBC SEC 1609.3 (A), (B), OR (C) DEPENDING ON THE RISK CATEGORY

ULTIMATE WIND SPEED =	138MPH (IBC FIG 1609C)	NOMINAL WIND SPEED =	V <sub>98d</sub> = 105 MPH
RISK FACTOR =	CATEGORY 2	SURFACE ROUGHNESS =	C
TOPOGRAPHIC FACTOR =	1	EXPOSURE =	C

INTERNAL PRESSURE COEFFICIENT (ASCE 7-10 TABLE 26.11-1): ± 0.18

**LIVE LOADS (IBC SEC 1607)**

DINING ROOMS AND RESTAURANTS (IBC TABLE 1607.1):	100 PSF
ASSEMBLY PLATFORMS (IBC TABLE 1607.1):	100 PSF
ROOF LIVE LOADS (IBC TABLE 1607.1):	20 PSF UNIFORM, 300 LB CONCENTRATED
SNOW LOADS (IBC TABLE 1608):	
GROUND SNOW LOAD (IBC FIG 1608.2):	5 PSF

**FLOOD ZONE INFORMATION**

BASED ON THE LSU AGRICULTURE FLOOD MAP THIS PROPERTY IS NOT IN A FLOOD ZONE

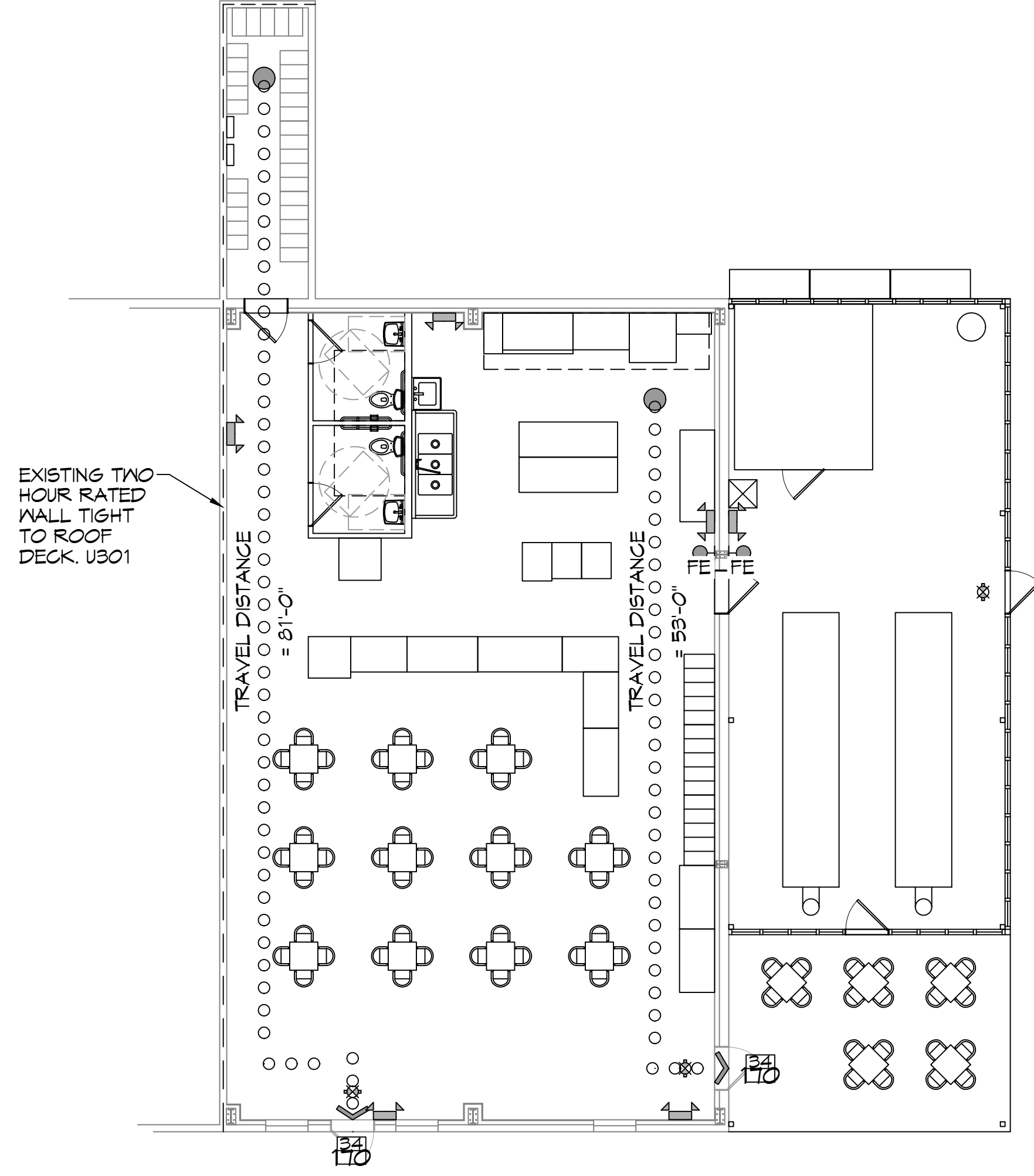
FIRM, COMMUNITY NO. 22089C135D DATE: 11/09/2012

FLOOD ZONE: N/A BASE FLOOD ELEVATION: N/A

ELEVATIONS REFER TO NGVD 1929 DATUM

**LIFE-SAFETY LEGEND**

SYMBOL	DESCRIPTION
>	EXITS
(45)	DOOR FIRE RATINGS (MINUTES)
(36/170)	DOOR WIDTH/EGRESS CAPACITY
☒	EXIT LIGHT
• FE	FIRE EXTINGUISHER W/ WALL MTD BRACKET
—	COMMON PATH OF TRAVEL
••••••••••	TRAVEL DISTANCE
●	DECISION POINT



**LIFE-SAFETY PLAN**  
 SCALE: 1/8" = 1'-0"

**VICINITY MAP**



**SHEET INDEX**

SHEET #	SHEET TITLE
G101	COVER PAGE
G102	ADAAG INFORMATION
C101	EXISTING SITE PLAN
S101	FOUNDATION PLAN
D101	DEMO PLAN
A101	FLOOR PLAN
A102	BUILDING ELEVATIONS
A103	REFLECTED CEILING PLAN
P101	PLUMBING PLAN AND DETAILS
M101	MECHANICAL PLAN
M102	MECHANICAL SCHEDULES AND DETAILS
E101	ELECTRICAL POWER PLAN
E102	ELECTRICAL LIGHTING PLAN
E103	PANEL SCHEDULE RISER

**SCOPE OF WORK**

1. THIS IS AN EXISTING SUITE THAT WILL BE UTILIZED AS RESTAURANT WITH OUTDOOR SEATING. NEW COOKING EQUIPMENT WITH DISPLAYS, CABINETS AND SINKS WILL BE INSTALLED TO MEET THE HEALTH DEPARTMENT REQUIREMENTS. TOTAL SQ. FT. = 9,467

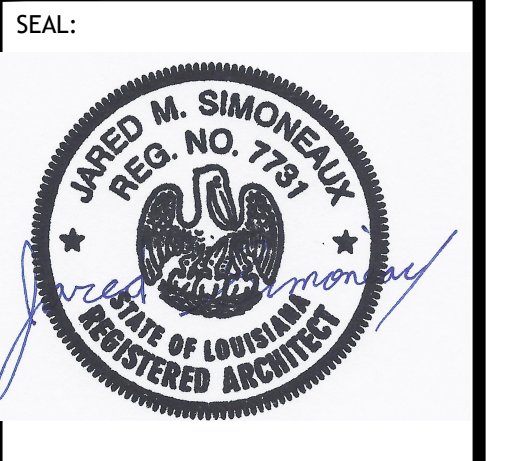
**GENERAL NOTES**

- ALL MATERIALS AND WORK, INCIDENTAL TO THE CONSTRUCTION OF THIS PROJECT, SHALL CONFORM TO ALL GOVERNING CODES, AND REGULATIONS OF AGENCIES IN AUTHORITY.
- CONTRACTOR SHALL PROVIDE ALL PUBLIC PROTECTIONS NECESSARY AS REQUIRED BY LAW.
- THE DRAWINGS AND ANY SUBSEQUENTLY ISSUED ADDENDA, AMENDMENTS OR SUCH CHANGE ORDERS APPROVED BY THE OWNER AND THE CONTRACTOR ARE PART OF THESE CONTRACT DOCUMENTS.
- DO NOT SCALE DRAWINGS. CONSULT WITH THE ENGINEER REGARDING ANY ITEMS IN THE CONTRACT DOCUMENTS THAT REQUIRE CLARIFICATION.
- TRASH SHALL BE REMOVED FROM THE SITE NOT LESS THAN TWICE MONTHLY.
- THE GENERAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND REPORT ANY AND ALL DISCREPANCIES TO THE ARCHITECT.
- CONTRACTOR VEHICLES AND EQUIPMENT NECESSARY FOR CONSTRUCTION MAY BE PARKED ON THE SITE. OTHER VEHICLES PARKED ON THE SITE REQUIRE THE OWNER'S PERMISSION.
- ALL MATERIALS/EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. WORK NOT CONSISTENT WITH MANUFACTURER'S RECOMMENDATIONS WILL BE REJECTED.

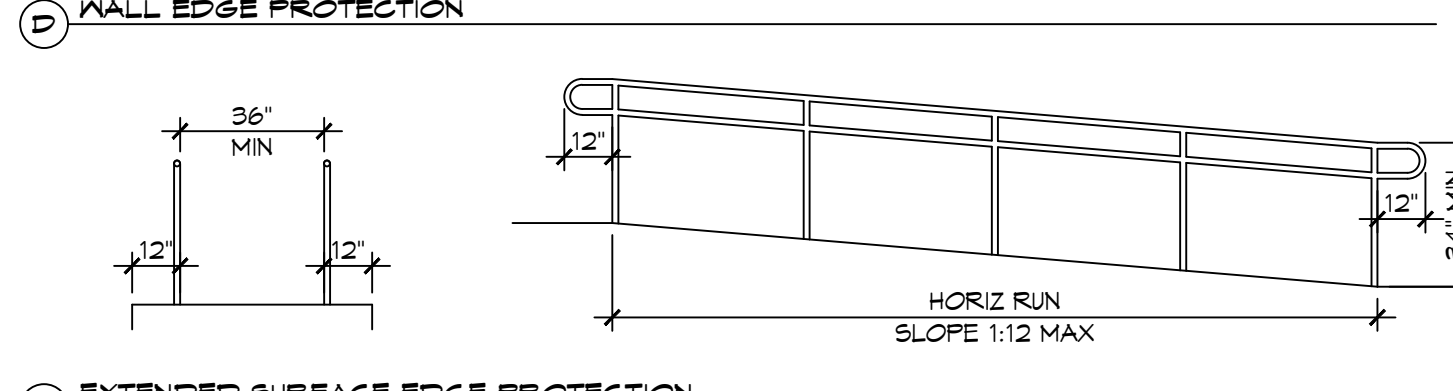
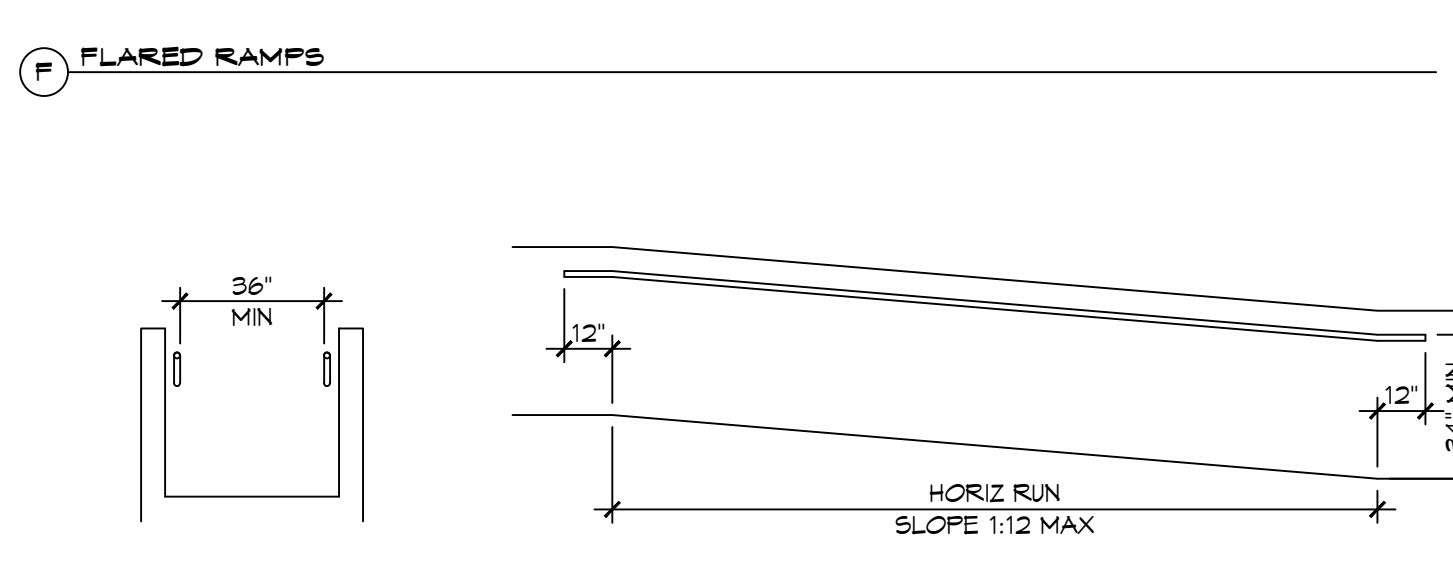
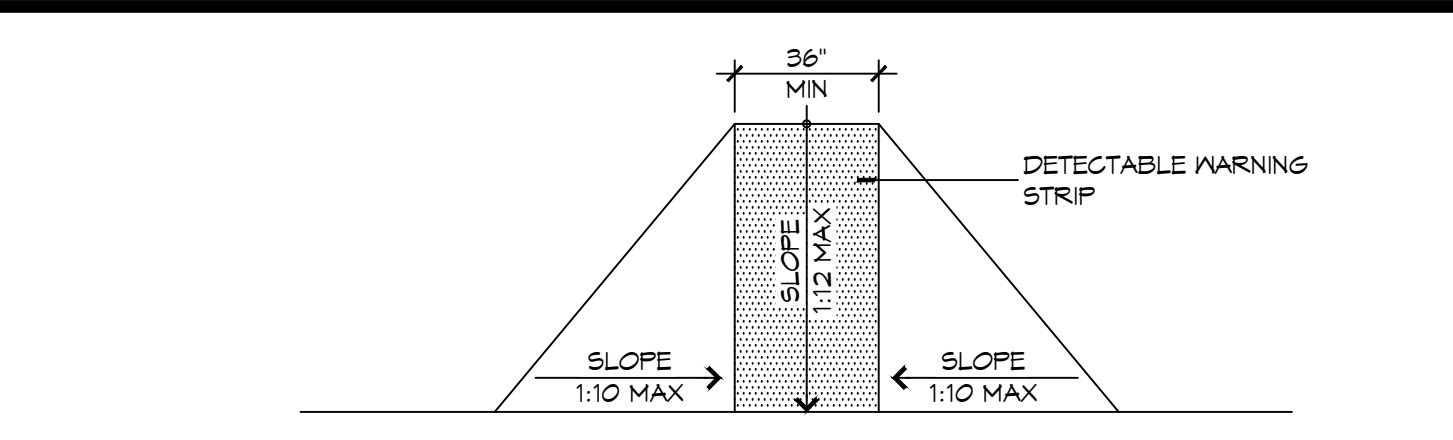
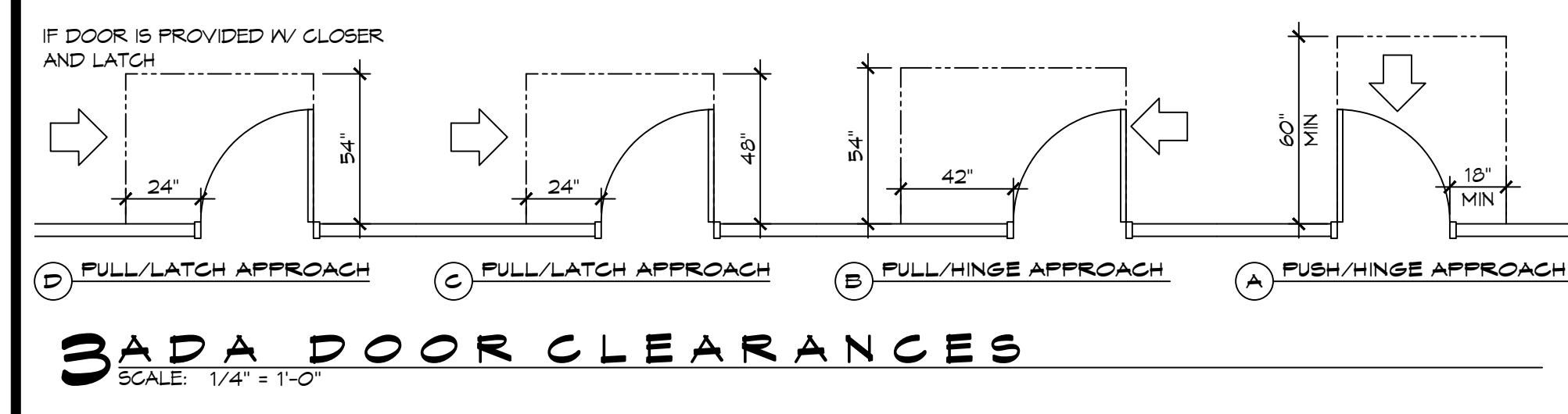
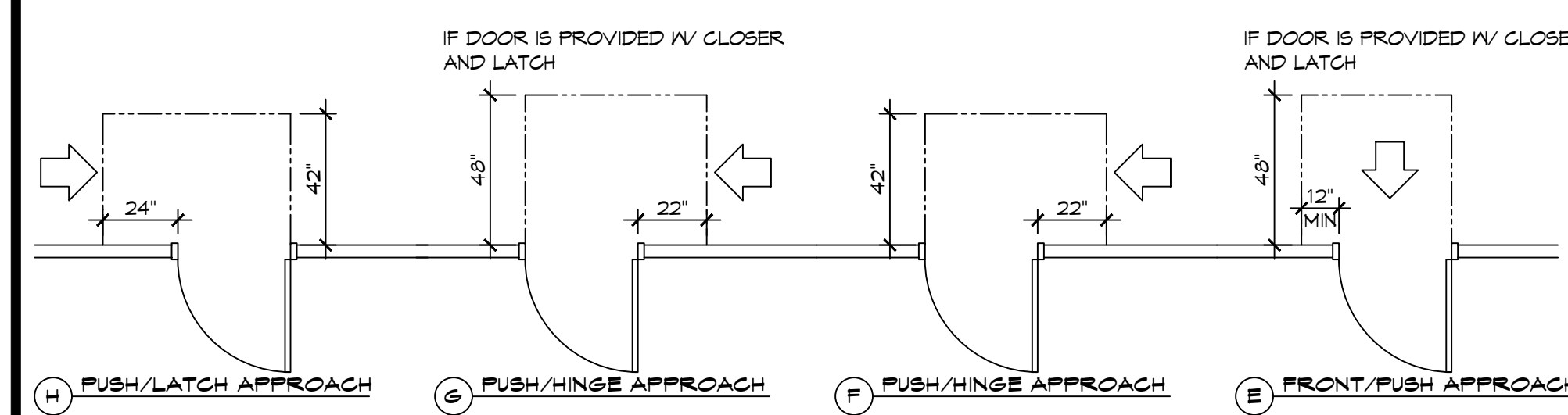
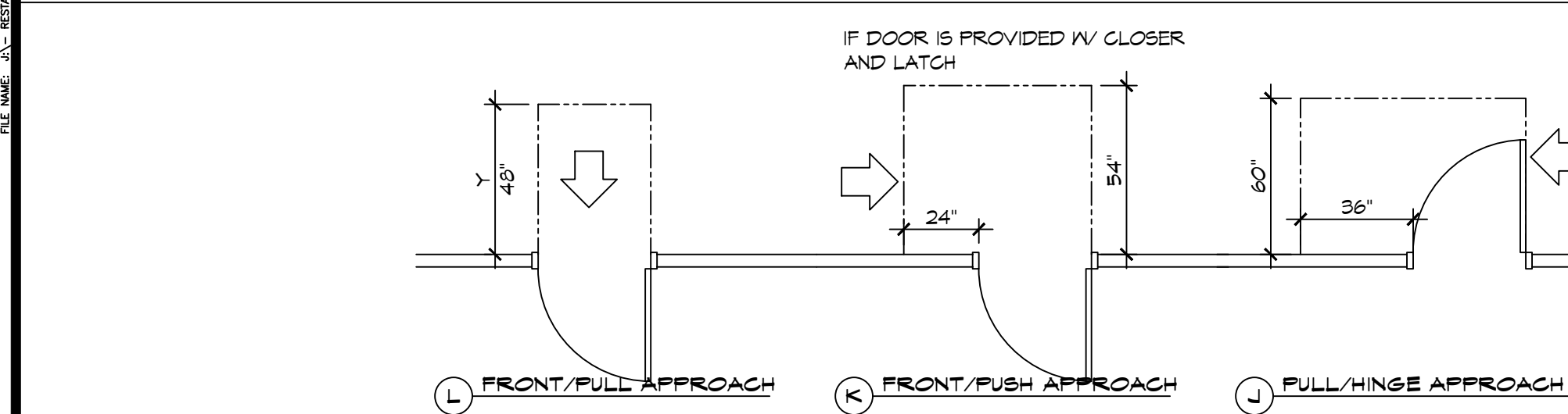
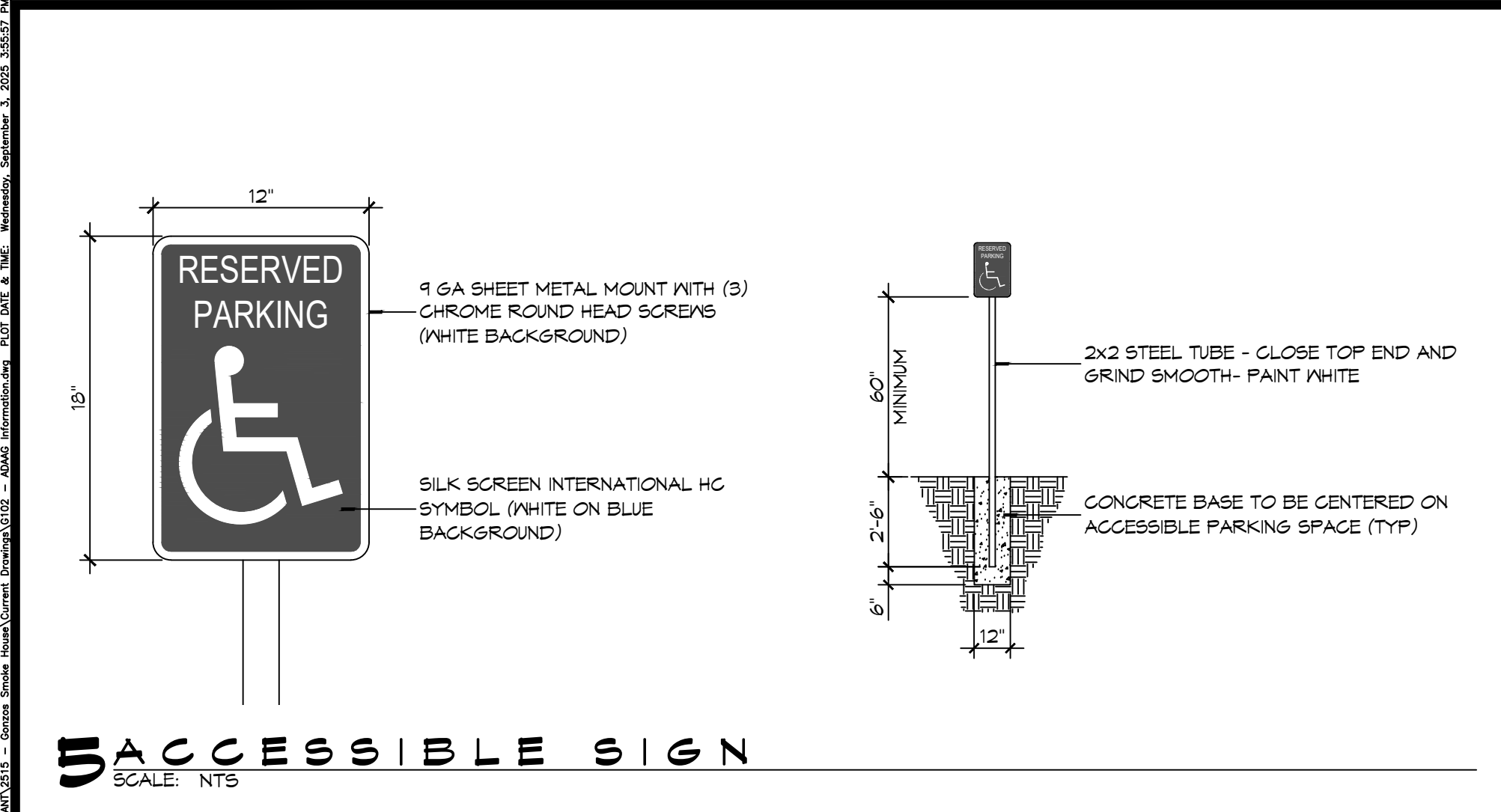
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**REVISIONS**

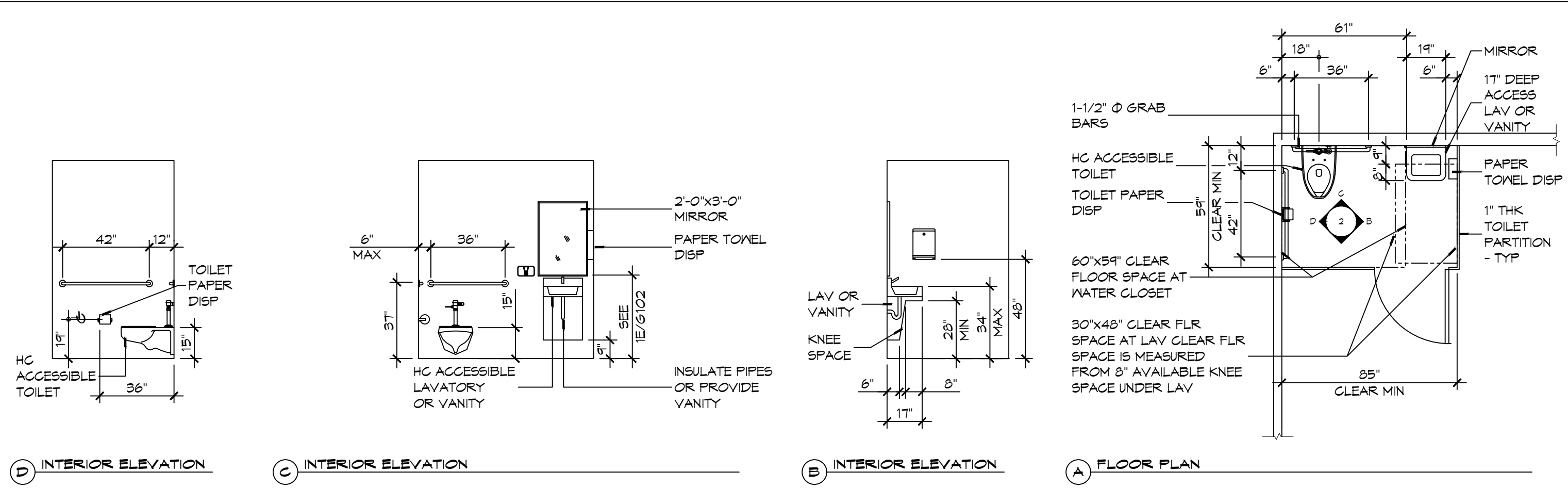
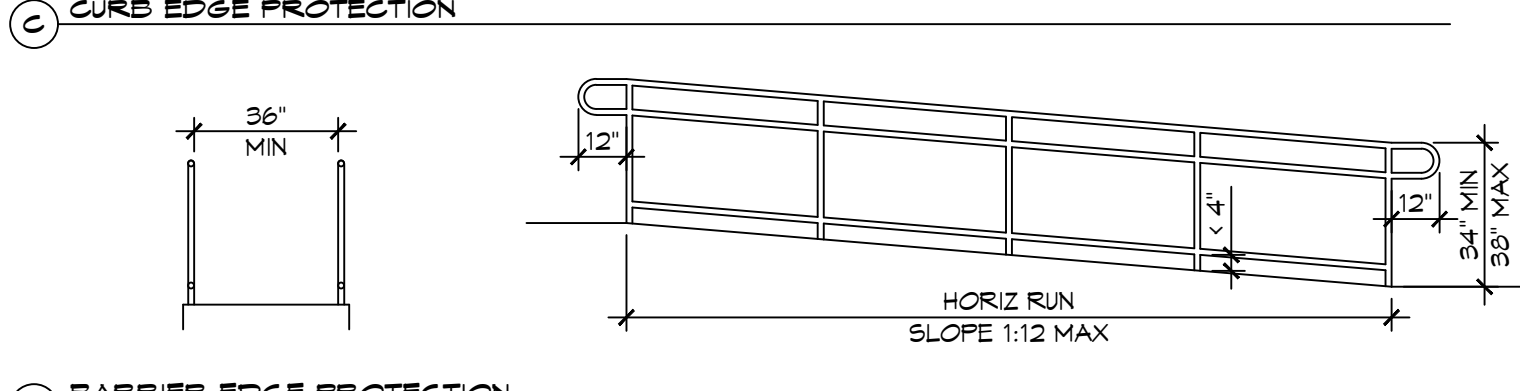
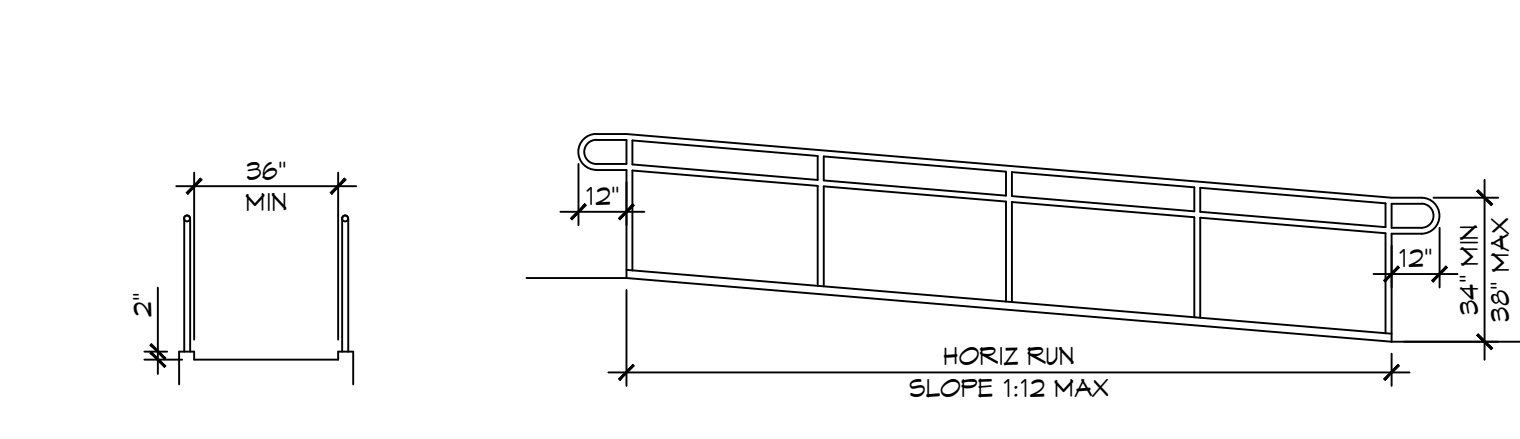
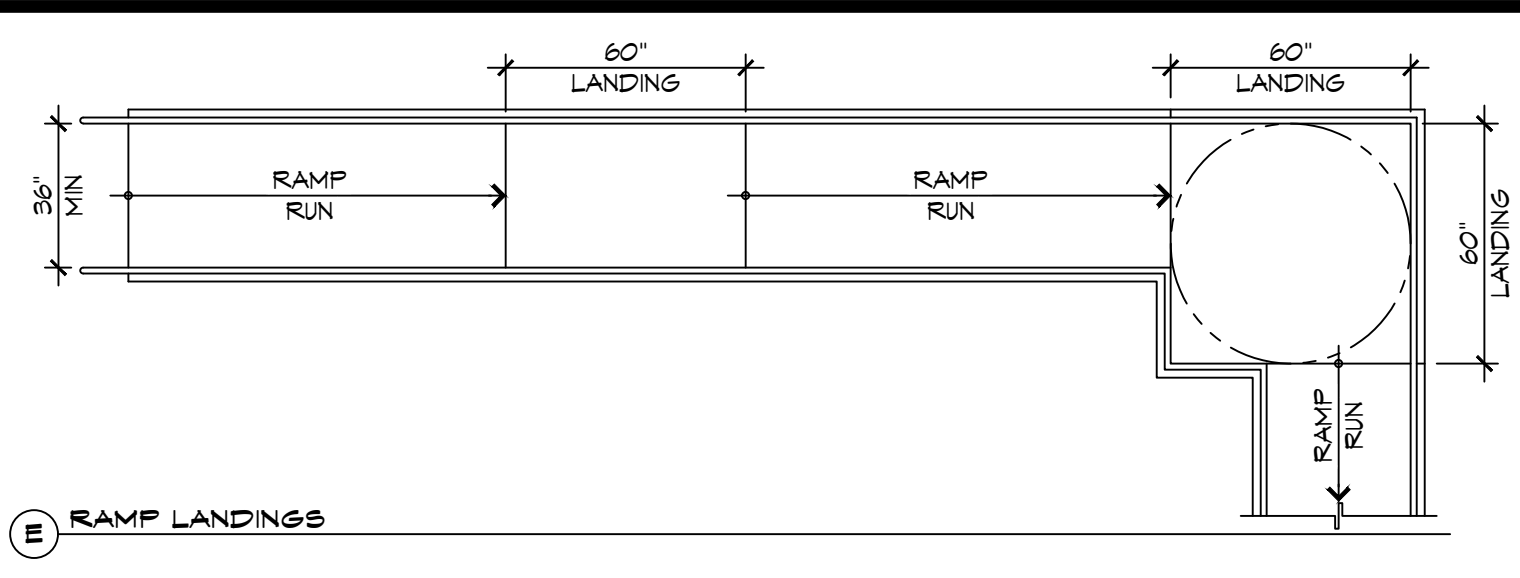
#	DESCRIPTION	DATE



**RESTAURANT**  
**GONZOS SMOKEHOUSE & BBQ**  
 13948 RIVER RD  
 LULING, LA 70070  
 JOB NO.:  
 DATE: 04/03/2025  
 DRAWN BY: JMS  
 CHECKED BY: CKD  
**GENERAL INFORMATION SHEET**  
 DRAWING NUMBER:  
**G101**  
 SHEET No: 1 of 14



**4 ACCESSIBLE RAMPS**  
SCALE: 1/4" = 1'-0"



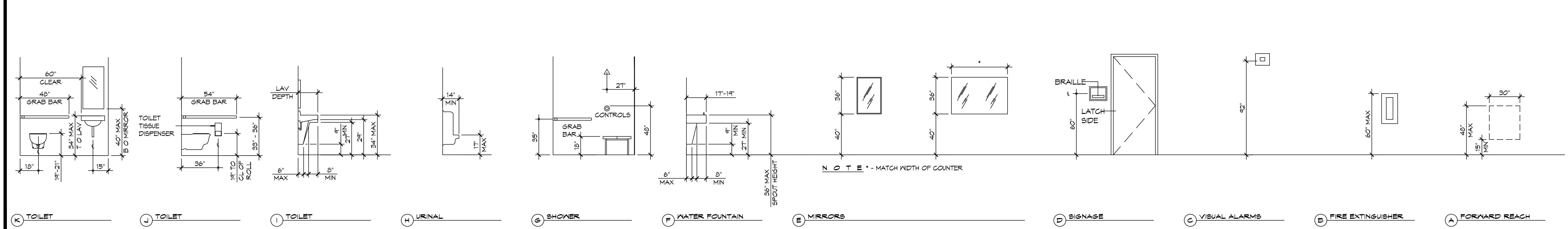
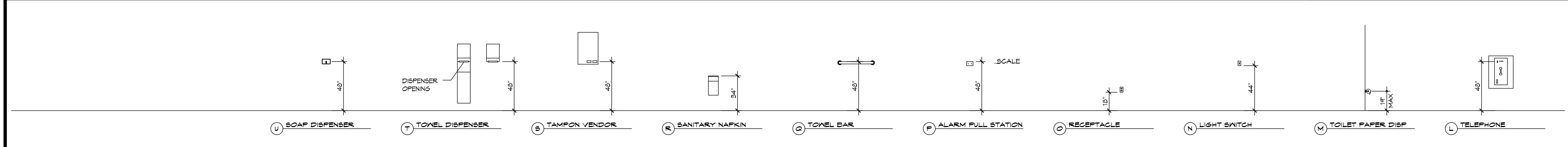
**ACCESSIBILITY NOTES**

**DOOR CLEARANCE NOTES**  
ALCOVES SHALL COMPLY WITH THE CLEARANCES FOR FRONT APPROACHES, 3/6102 - 3K/6102.  
DOOR HARDWARE SHALL BE LEVER TYPE.  
MAX DOOR OPENING FORCE:  
INTERIOR HINGED DOORS: 5 LBF  
EXTERIOR HINGED DOORS: 8.5 LBF  
SLIDING OR FOLDING DOORS: 5 LBF  
FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.  
HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" AND NOT LESS THAN 34" ABOVE FINISHED FLOOR.  
THE FLOOR OR GROUND AREA WITHIN THE REQUIRED CLEARANCES SHALL BE LEVEL AND CLEAR.  
THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 3/4" IN HEIGHT FOR EXTERIOR SLIDING DOORS OR 1/2" FOR OTHER TYPES OF DOORS. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.  
DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32" WITH THE DOOR OPEN 90°, MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP. OPENINGS MORE THAN 24" IN DEPTH SHALL MAINTAIN 32" MIN CLEARANCE.

**RAMP NOTES**  
THE CLEAR SPACE BETWEEN THE HANDRAIL AND THE WALL SHALL BE MIN 1-1/2" CLEAR.  
GRIPPING SURFACES SHALL BE CONTINUOUS AND UNOBSTRUCTED. ENDS OF HANDRAILS SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO FLOOR, WALL, OR POST.  
HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.  
THE CROSS SLOPE OF RAMP SURFACES SHALL BE NO GREATER THAN 1:50.  
OUTDOOR RAMPS AND THEIR APPROACHES SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.  
RAMPS AND LANDINGS WITH DROP-OFFS SHALL HAVE CURBS, WALLS, RAILINGS, OR PROJECTING SURFACES THAT PREVENT PEOPLE FROM SLIPPING OFF THE RAMP. CURBS SHALL BE A MINIMUM OF 2" HIGH.  
HANDRAILS SHALL BE PROVIDED ALONG BOTH SIDES OF RAMP SEGMENTS. THE INSIDE HANDRAIL ON SWITCHBACK OR DOGLEG RAMPS SHALL ALWAYS BE CONTINUOUS.  
RAMP LANDINGS SHALL BE AT LEAST AS WIDE AS THE RAMP RUN LEADING TO IT.

**GENERAL SITE ACCESSIBILITY NOTES**

1. ACCESSIBILITY SIGNAGE SHALL COMPLY WITH ADAAG 2010 GUIDELINES SECTION 303.7.
2. SEE SHEET 0003 FOR ACCESSIBLE RAMP AND HANDRAIL DESIGNS WHERE THEY OCCUR.
3. ALL ACCESSIBLE PARKING SPACES AND AISLES THAT SERVE THEM SHALL COMPLY WITH ADAAG 2010 GUIDELINES SECTIONS 302.4 AND 302.5.
4. OPENINGS IN GROUND SURFACES SHALL COMPLY WITH ADAAG 2010 GUIDELINES SECTION 302.3.
5. VERTICAL CHANGES IN ELEVATION ALONG ALL ACCESSIBLE ROUTES SHALL COMPLY WITH ADAAG 2010 GUIDELINES SECTIONS 303.2, 303.3, AND 303.4.
6. PARKING SPACES DESIGNATED AS ACCESSIBLE SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH ADAAG 2010 GUIDELINES SECTIONS 303.2.1 AND 302.6.
7. ALL ACCESSIBLE PARKING SPACES AND ROUTES SERVING THEM SHALL HAVE A ROUGH, SLIP-RESISTANT SURFACE OR LIGHT BROOM FINISH IN COMPLIANCE WITH ADAAG 2010 GUIDELINES SECTION 302.1.



**1 MOUNTING HEIGHTS**  
SCALE: 1/4" = 1'-0"

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REVISIONS

#	DESCRIPTION	DATE

SEAL:

**RESTAURANT**  
GONZOS SMOKEHOUSE & BBQ

13048 RIVER RD  
LULING, LA 70070  
JOB No: 2515  
DATE: 04/05/2025  
DRAWN BY: JME  
CHECKED BY: CKD

SHEET TITLE:  
ACCESSIBILITY INFORMATION

DRAWING NUMBER:  
**G102**

SHEET No: 2 of 14







### FINISH SCHEDULE

ROOM	FLOOR	BASE	WALLS				CEILING	NOTES
			NORTH	EAST	SOUTH	WEST		
STORAGE	CONCRETE	6" RUBBER	5/8" MR SHEETROCK	5/8" MR SHEETROCK	5/8" MR SHEETROCK	5/8" MR SHEETROCK	2' X 2' PVC TILES	NON ABSORBENT
HALLWAY	CONCRETE	6" RUBBER	5/8" MR SHEETROCK	5/8" MR SHEETROCK	5/8" MR SHEETROCK	5/8" MR SHEETROCK	OPEN CEILING	
INDOOR DINING	CONCRETE	6" RUBBER	5/8" MR SHEETROCK	5/8" MR SHEETROCK	5/8" MR SHEETROCK	5/8" MR SHEETROCK	OPEN CEILING	
KITCHEN	TILE	6" RUBBER	-	FRP	FRP	FRP	2' X 2' PVC TILES	NON ABSORBENT
PREPPING ZONE	TILE	6" RUBBER	-	FRP	FRP	FRP	2' X 2' PVC TILES	NON ABSORBENT
WOMENS RESTROOM	TILE	6" RUBBER	5/8" MR SHEETROCK	5/8" MR SHEETROCK	5/8" MR SHEETROCK	5/8" MR SHEETROCK	5/8" MR SHEETROCK	PAINT WALLS WITH TWO PART EPOXY
MENS RESTROOM	TILE	6" RUBBER	5/8" MR SHEETROCK	5/8" MR SHEETROCK	5/8" MR SHEETROCK	5/8" MR SHEETROCK	5/8" MR SHEETROCK	PAINT WALLS WITH TWO PART EPOXY

NOTE - (MR) MOLD RESISTANT  
NOTE - (FRP) FIBRE-REINFORCED PLASTIC

### GENERAL NOTES

- INSULATION AND INSULATION ASSEMBLIES SHALL MEET THE REQUIREMENTS OF IBC 2012 SECTION 711.
  - A. CONCEALED INSULATION SHALL HAVE A FLAME SPREAD OF 0-25 AND SMOKE DEVELOPED INDEX OF 0-450, EXCEPT THAT IN COMBUSTIBLE (WOOD FRAME) CONSTRUCTION.
  - B. FACING SHALL COMPLY WITH IBC 2021.
- ALL MATERIALS SHALL BE NEW AND UL LISTED.
- NO WORK SHALL BE CONCEALED UNTIL APPROVED BY LOCAL INSPECTORS.
- CONSTRUCTION SHALL COMPLY WITH ALL PARISH, STATE, AND LOCAL CODES.
- CONTRACTOR TO GUARANTEE WORK FOR ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
- CONTRACTOR SHALL FURNISH WATER AND POWER FROM EXISTING SOURCES.
- EXTERIOR CAULKING SHALL BE THICK CAULK.
- PAINT SHALL BE SHERWIN WILLIAMS OR EQUIVALENT AND APPROPRIATE FOR THE SUBSTRATE TO WHICH IT IS APPLIED AS RECOMMENDED BY PAINT MANUFACTURER. ALL WORK TO RECEIVE THREE COATS (ONE PRIMER COAT, TWO FINISH COATS) UNLESS OTHERWISE RECOMMENDED BY PAINT MANUFACTURER. COLORS TO BE SELECTED BY OWNER.
- PROVIDE CLEANUP ON A REGULAR BASIS. NO TRASH SHALL BE STORED INSIDE BUILDING PREMISES.
- ALL BATT INSULATION SHALL HAVE A CLASS "A" (0-25) FLAME SPREAD IN COMPLIANCE WITH IBC 2012.
- USE 2X6 STUDS, OR TWO 2X4 STAGGERED STUDS WITH 2X6 SILL PLATE AT ALL WALLS WHERE 4" PIPE IS INDICATED. SEE PLUMBING RISER DIAGRAM FOR PIPE SIZE.
- PROVIDE GALVANIZED METAL PAN WITH DRAIN AT ALL WATER HEATERS.
- ALL FLOORING SHALL MEET OR EXCEED ADA GUIDELINES REQUIREMENTS FOR SLIP RESISTANCE.
- INTERIOR LOCKS ON DOORS IN MEANS OF EGRESS SHALL NOT REQUIRE THE USE OF A KEY, SPECIAL KNOWLEDGE, OR SPECIAL DEVICE TO OPEN IN THE DIRECTION OF EGRESS. ALL DOORS SHALL HAVE LEVER TYPE HANDLES.
- INTERIOR WALLS AND CEILING SHALL HAVE A FLAME SPREAD OF 0-200 AND A SMOKE DEVELOPMENT RATING OF 0-450.
- ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES COVERING THE TYPE OF WORK BEING PERFORMED.
- PROVIDE PORTABLE FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 101. SEE APPENDIX "E" OF NFPA 101 FOR DISTRIBUTION OF EXTINGUISHERS.
- ALL FIRE WALLS SHALL EXTEND TIGHT TO ROOF DECK AND BE SEALED WITH AN APPROVED FIRE CAULK.
- ALL ELECTRICAL, MECHANICAL, AND PLUMBING MATERIALS PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)
- SERVICE COUNTERS SHALL HAVE AN ACCESSIBLE WRITING SURFACE IN COMPLIANCE WITH ADAAG ACCESSIBILITY GUIDELINES 2010, SECTION 402.3.

UL Product iQ<sup>®</sup>  
 BXUVC.U301 - Fire-resistance Ratings  
 BXUVC - Fire-resistance Ratings

Design No. U301  
 February 12, 2019  
 Assembly Rating - 2 h  
 Load Restricted - Assembly evaluated in accordance with Working Stress Design methods.  
 for use under Limit States Design methods; refer to information under Guide BXUVC.

Bearing Wall - Combustible Construction  
 (Finish Rating - 66 minutes)

- Nailheads - Exposed or covered with joint finisher.
- Joints - Exposed or covered with tape and joint finisher.
- Nails - 51 mm, cement-coated nailhead.
- Gypsum Board - (Gypsum Board) 15.9 mm thick applied in two layers. Base layer placed vertically with joints butted over studs and nailed to studs 150 mm OC. Face layer applied horizontally with joint finisher cement and nailed 300 mm OC temporarily to base layer until cement sets. All joints in face layer staggered with joints in base layer and with joints on opposite side.

OR

UL System Board - 15.9 mm thick two layers applied either horizontally or vertically. All joints in face layers are staggered.

### DOOR SCHEDULE

MK	WIDTH	HEIGHT	THK	DOOR MAT	FRAME	FR	REMARKS
DO1	3'-0"	6'-8"	1-3/4"	ALUM	ALUM	NR	EXISTING STORE FRONT DOOR TO REMAIN
DO2	3'-0"	6'-8"	1-3/4"	MTL	MTL	NR	EXISTING DOOR TO BE ROTATED
DO3	3'-0"	6'-8"	1-3/4"	WOOD	WOOD	NR	INTERIOR DOOR W/CLOSURE
DO4	3'-0"	6'-8"	1-3/4"	MTL	MTL	NR	EXTERIOR DOOR W/CLOSURE
DO5	3'-0"	6'-8"	1-3/4"	WOOD	WOOD	NR	SCREEN DOOR W/CLOSURE

### WINDOW SCHEDULE

MK	WIDTH	HEIGHT	TYPE	FRAME	FR	REMARKS
WO1	3'-0"	6'-6"	STORE FRONT	ALUM	NR	EXISTING TO REMAIN

NOTE: DOORS IN A REQUIRED MEANS OF EGRESS SERVING ANY ASSEMBLY AREA HAVING AN OCCUPANT LOAD OF 50 OR MORE PERSONS SHALL NOT BE EQUIPPED WITH A LATCH OR LOCK OTHER THAN PANIC HARDWARE OR FIRE EXIT HARDWARE.

NOTE: ALL EXTERIOR DOORS ASSEMBLES TO BE RATED FOR 135 MPH WINDS AND SHALL BE MISSILE IMPACT RESISTANT.

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#	DESCRIPTION	DATE
1	CHANGED TO NON RATED WALL	02-28-25

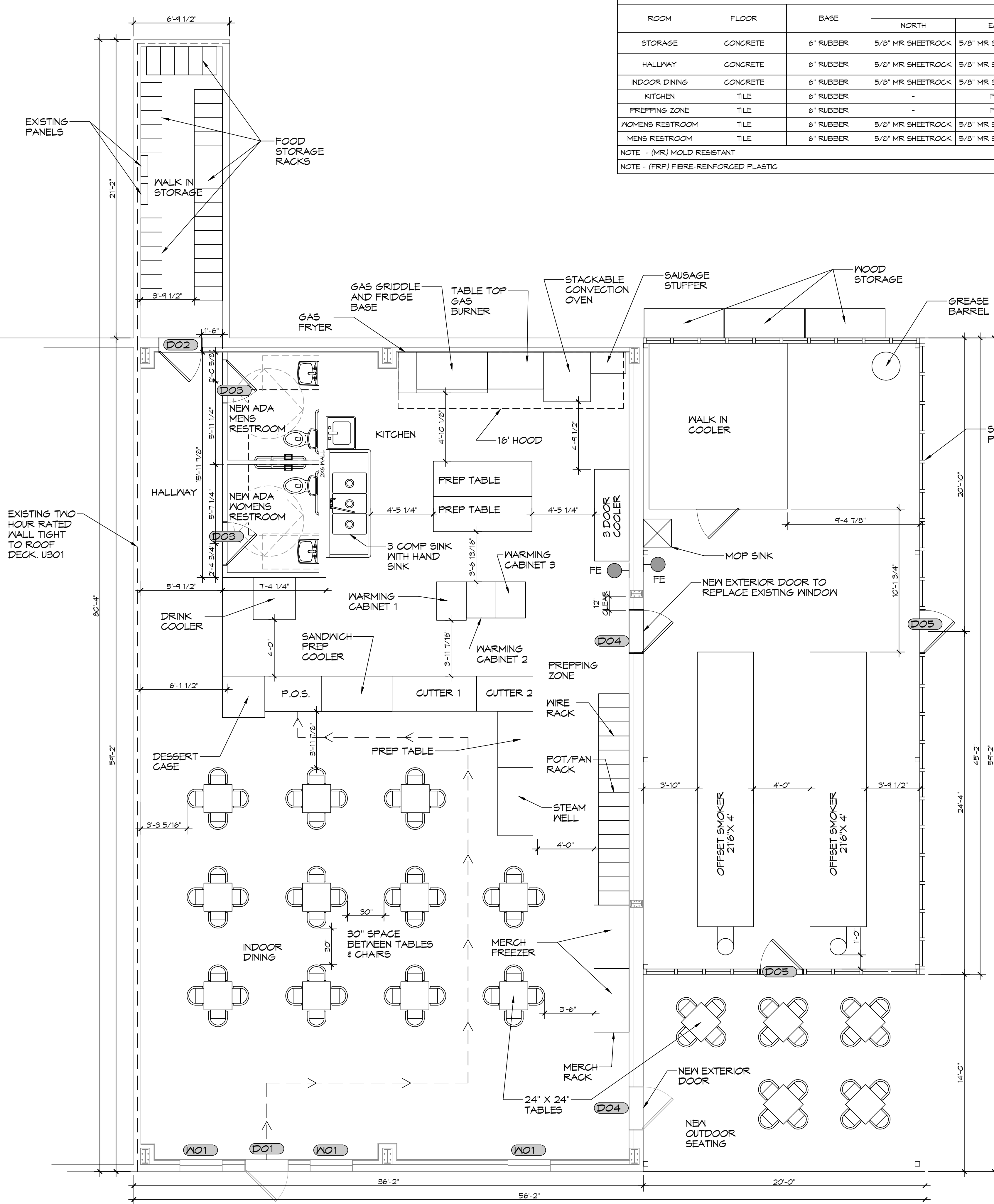
SEAL:

RESTAURANT  
 GONZOS SMOKEHOUSE & BBQ  
 1939F RIVER RD  
 LULING, LA 70070  
 JOB No: 2515  
 DATE: 09/03/2025  
 DRAWN BY: JMS  
 CHECKED BY: TNT  
 SHEET TITLE: PROPOSED FLOOR PLAN  
 DRAWING NUMBER:

### DESIGN CRITERIA

THE CONSTRUCTION FOR SAID BUILDING, WHERE VUL WIND SPEED IS 135 MILES PER HOUR AND VBS3 WIND SPEED IS 105 MPH, WIND EXPOSURE ZONE C, IS DESIGNED IN ACCORDANCE WITH: AMERICAN FOREST AND PAPER ASSOCIATION (AF&PA) WOOD FRAME CONSTRUCTION MANUAL FOR ONE AND TWO FAMILY DWELLINGS (WFCM) 2001 EDITION AS WELL AS THE INTERNATIONAL RESIDENTIAL CODE (IRC) 2021 EDITION, STRUCTURE SHALL BE BUILT TO THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE (2021 IECC) AND STATE AMENDMENTS ADOPTED JULY 1, 2023.

**A101**  
 SHEET No: 6 of 14

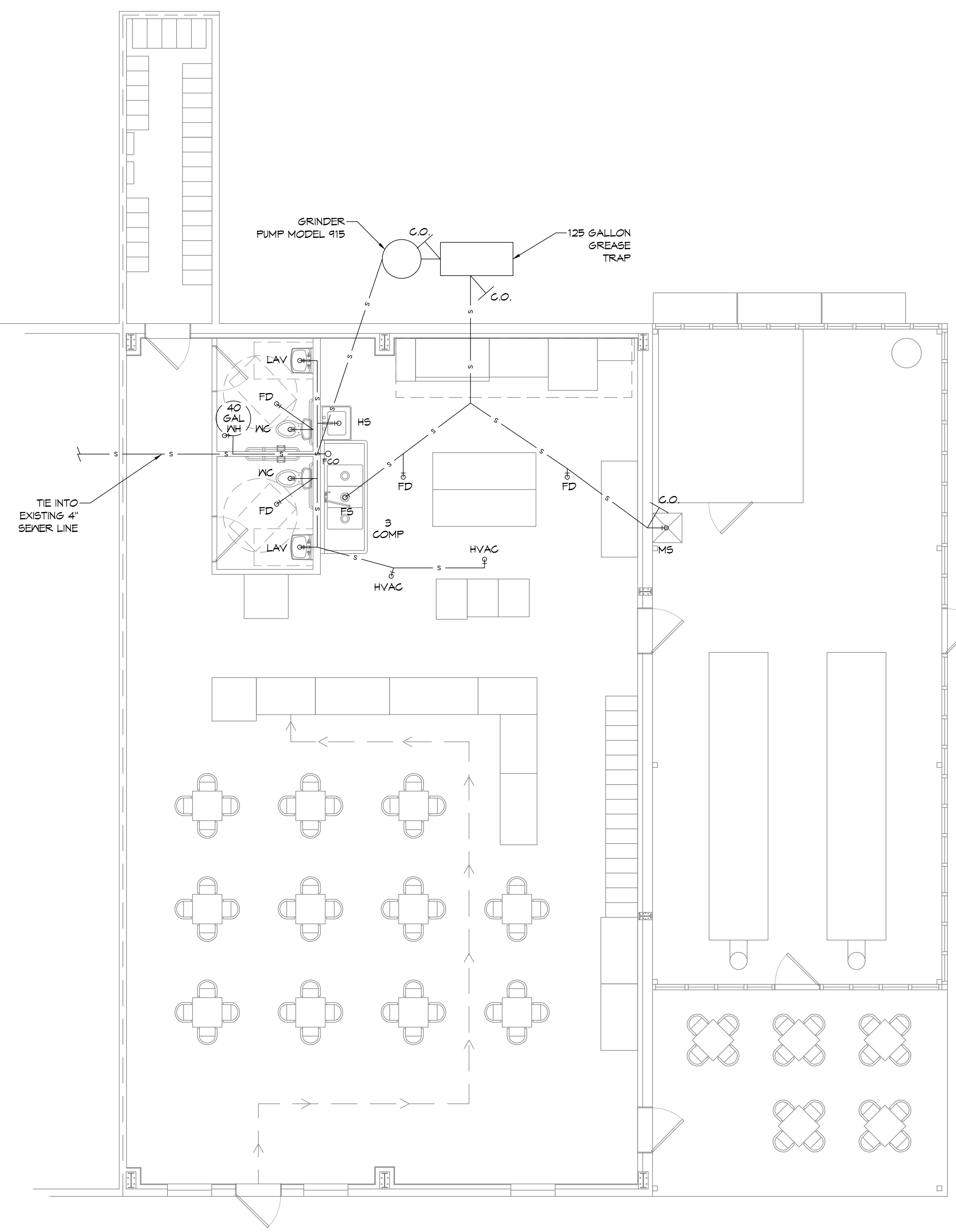


**4 PROPOSED FLOOR PLAN**  
 SCALE: 1/4" = 1'-0"

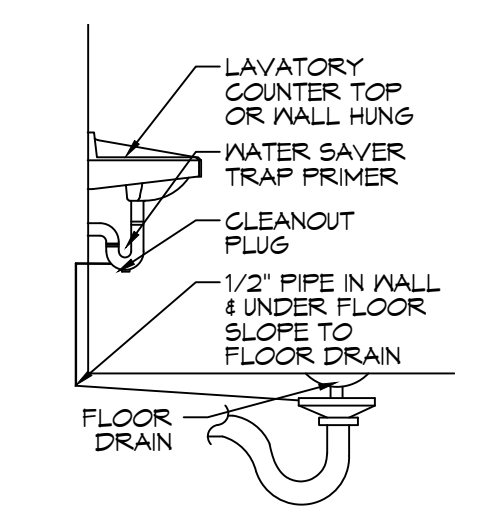




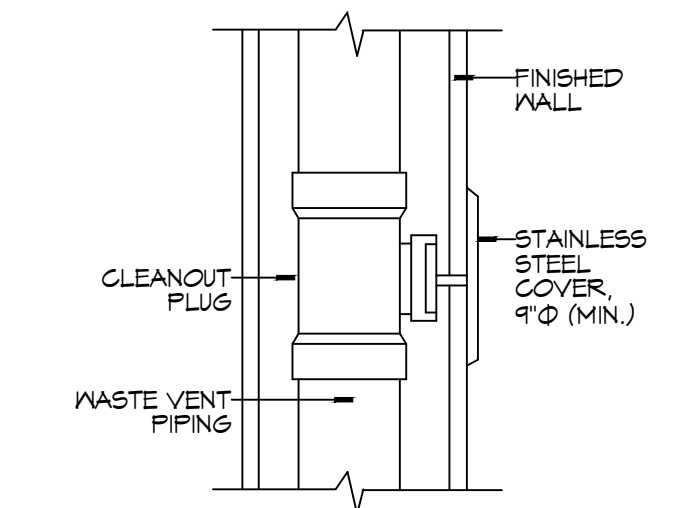
PLUMBING PLAN AND DETAILS  
 15048 RIVER RD  
 LULING, LA 70070  
 JOB No: 2515 DATE: 04/03/2025  
 DRAWN BY: CKD CHECKED BY: BAM



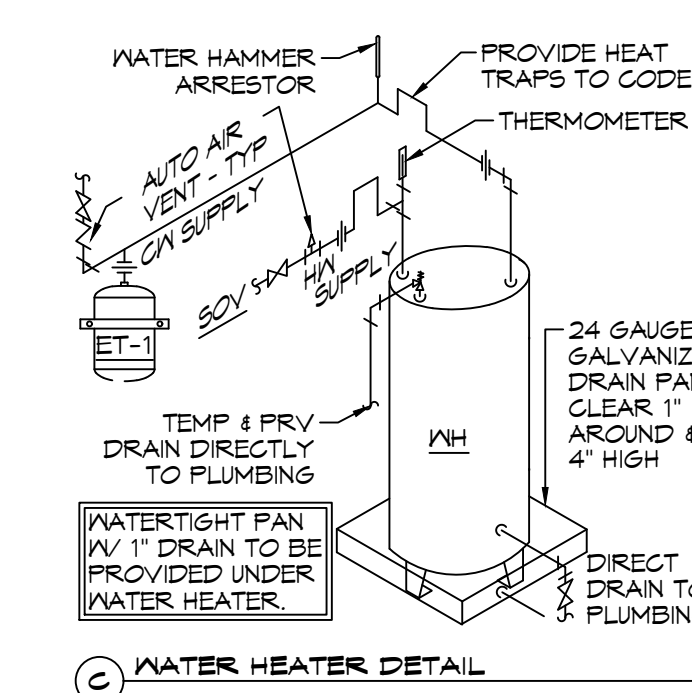
**9 PLUMBING PLAN**  
SCALE: 1/4"=1'-0"



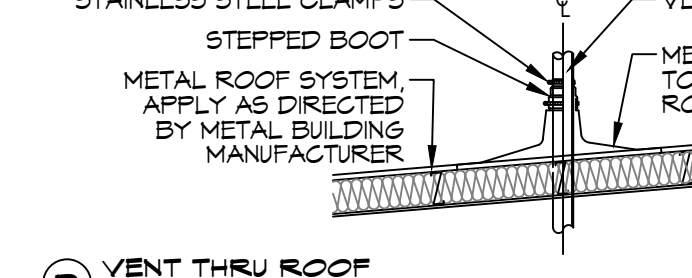
**(A) FLOOR DRAIN**



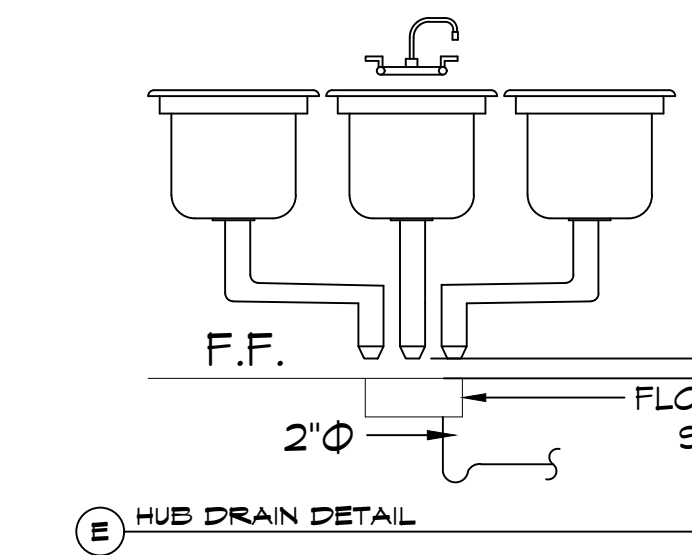
**(B) WALL CLEANOUT W/ ACCESS PANEL**



**(C) WATER HEATER DETAIL**

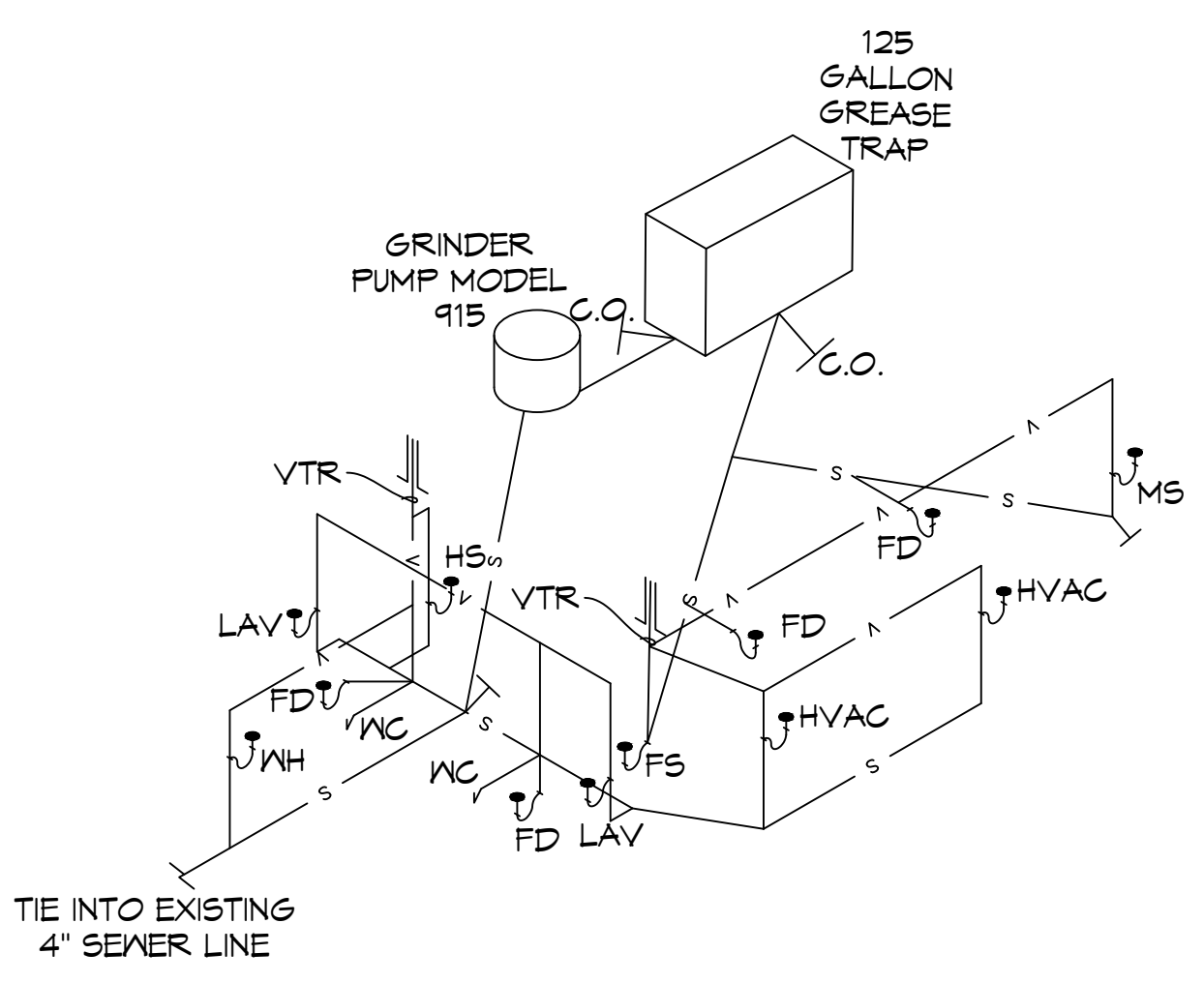


**(D) VENT THRU ROOF**



**(E) HUB DRAIN DETAIL**

**10 TYPICAL PLUMBING DETAILS**  
SCALE: NTS



**11 PLUMBING RISER DIAGRAM**  
SCALE: 3/16"=1'-0"

**GENERAL PLUMBING NOTES**

- PLUMBING LINES SHOWN ARE DRAWN DIAGRAMMATIC IN NATURE AND REPRESENT CONCEPTUAL ROUTING ONLY. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL ACTUAL CONDITIONS.
- PROVIDE ALL LABOR, MATERIAL, TRANSPORTATION, SUPERVISION, CLEAN-UP SERVICES, AND EQUIPMENT FOR A COMPLETE OPERATING SYSTEM. THE SYSTEM SHALL INCLUDE HOT AND COLD WATER PIPING, SEWER AND VENT PIPING, INSULATION, WATER HEATER, HANGERS, VALVES, SUPPORTS WITHOUT ANY RESTRICTIONS TO VOLUME, CUT AND PATCH AS REQUIRED TO INSTALL PIPES.
- ALL WORK AND MATERIAL SHALL CONFORM STRICTLY TO THE LATEST LOCAL CITY, PARISH, STATE AND NATIONAL GOVERNING CODES. MUST MEET LA STATE PLUMBING CODE 2019 REQUIREMENTS.
- CONTRACTOR IS TO FIELD VERIFY ALL EXISTING UTILITY LOCATIONS, ELEVATIONS AND SIZES PRIOR TO COMMENCING ANY WORK. CONTRACTOR SHALL PAY NECESSARY FEES FOR THE UTILITIES CONNECTIONS.
- CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXISTING INVERTS AND SET NEW INVERTS OF SEWERAGE AND DRAINAGE PIPES.
- SEWERAGE LINES 3-INCH AND SMALLER SHALL BE SLOPED 1/4" PER FOOT AND LINES 4-INCH AND LARGER SHALL BE 1/8" PER FOOT.
- TEST ALL PIPING AT REQUIRED PRESSURE.
- ALL PLUMBING SHALL BE CLOSELY COORDINATED WITH STRUCTURAL, MECHANICAL SYSTEM AND ELECTRICAL SYSTEMS TO INSURE NO TRADES WILL CONFLICT WITH EACH OTHER.
- DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DOORS, WINDOWS, WALLS, FIXTURES, ETC.
- ALL WATER MAINS AND PIPING NOT SHOWN FOR CLARITY, ALL LOCATIONS FIELD VERIFIED.
- DOMESTIC HOT AND COLD WATER PIPING AND FITTINGS UNDER SLAB SHALL BE ASTM B88 COPPER WATER TUBE, TYPE K, SOFT ANNEALED. NO JOINTS SHALL BE ALLOWED UNDER THE SLAB.
- DOMESTIC WATER PIPING AND FITTINGS ABOVE THE SLAB SHALL BE ASTM B88 COPPER WATER TUBE, TYPE L, HARD DRAWN WITH COPPER PRESSURE TYPE FITTINGS, ANSI B16.22. THE JOINTS SHALL BE SOLDERED TYPE USING ASTM B32, ALLOY GRADE 95A (95-5) SOLDER OR PEX PIPING.
- SOIL, WASTE, VENT PIPING AND FITTINGS ABOVE THE SLAB SHALL BE SERVICE WEIGHT CAST IRON PIPE WITH BELL AND SPIGOT ENDS AND ONE PIECE NEOPRENE INSERT TYPE GASKET, USE PVG SCHEDULE 40 OR ABS DRY PIPE AND FITTINGS WHERE PERMITTED BY CODE.
- ALL WATER PIPING AND FITTINGS ABOVE THE FLOOR SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS INSULATION AND JACKET.
- ALL ELECTRICAL, MECHANICAL AND PLUMBING ELEMENTS PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)
- ALL VENTS THROUGH ROOF (VTR) SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY MECHANICAL OR NATURAL AIR INTAKE.

**GENERAL PLUMBING FIXTURE NOTES**

- ALL WORK SHALL CONFORM TO INTERNATIONAL PLUMBING CODE
- PROVIDE TRAP PRIMERS ON ALL FLOOR DRAINS.
- PROVIDE ACCESS PANELS IN WALLS FOR ALL CLEANOUTS.
- SIZE WATER PIPING FOR EACH FIXTURE GROUP PER SCHEDULE.
- PROVIDE BALL VALVES AT ALL FIXTURE GROUPS TO ISOLATE WATER SUPPLIES.
- PROVIDE AIR CHAMBERS ON HOT & COLD WATER AT EACH FIXTURE GROUP.
- SIZE SEWER AND VENT PIPING PER PLUMBING FIXTURE TABLES.
- MINIMUM VENT THRU ROOF SHALL BE 2"
- PROVIDE 3/4" COLD WATER TO EACH ICE MACHINE, COFFEE MACHINE, AND DRINK MACHINES WITH WALL BOX AND SHUT OFF VALVE.
- MINIMUM WATER PIPING SIZE TO SHOWER SHALL BE 1-1/4"
- MINIMUM WATER PIPING SHALL BE 3/4"
- MINIMUM SEWER FOR WATER CLOSET GROUP SHALL BE 4"
- MINIMUM VENT FOR WATER CLOSET GROUP SHALL BE 3"

**PLUMBING FIXTURE SCHEDULE**

MARK	DESCRIPTION	TYPE	ROUGH - IN - SIZE				NOTES
			WASTE	VENT	COLD	HOT	
WC	WATER CLOSET	VALVE	4"	3"	1-1/2"	-	3
LAV	LAVATORY	WALL HUNG	2"	2"	3/4"	3/4"	1,2,3
FD	FLOOR DRAIN	-	3"	2"	-	-	4
FS	FLOOR SINK	-	3"	2"	-	-	1
HS	HAND SINK	-	3"	2"	3/4"	3/4"	1,2,3
MS	MOP SINK	-	3"	2"	3/4"	3/4"	-
WH	WATER HEATER	-	3/4"	2"	3/4"	3/4"	-
AHU	AIR HANDLER DRAIN	-	3/4"	2"	-	-	-

- NOTES:
- INSULATE PIPING FOR HANDICAP FIXTURE.
  - PROVIDE CHAIR CARRIER FOR WALL HUNG FIXTURE.
  - HANDICAP FIXTURE
  - INSTALL CONTINUOUS DRIP VALVE ON ALL FLOOR DRAINS.
  - PROVIDE ASSE 1016 COMPLIANT VALVE

ALL SANITARY SEWER ARE DIAGRAMMATICALLY DRAWN FOR CLARITY.

**SYMBOLS & ABBREVIATIONS**

- C.O. LINE CLEAN OUT
- VTR VENT THRU ROOF
- V VENTILATION LINE
- S SEWAGE LINE

**DAMMON ENGINEERING, INC.**  
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554 Old Spanish Trail  
Shreveport, LA 71458  
PH: 985.649.8832

#	DESCRIPTION	DATE
1	ADDED DRAIN, COLD/HOT WATER TO DUMPSTER	01-31-24

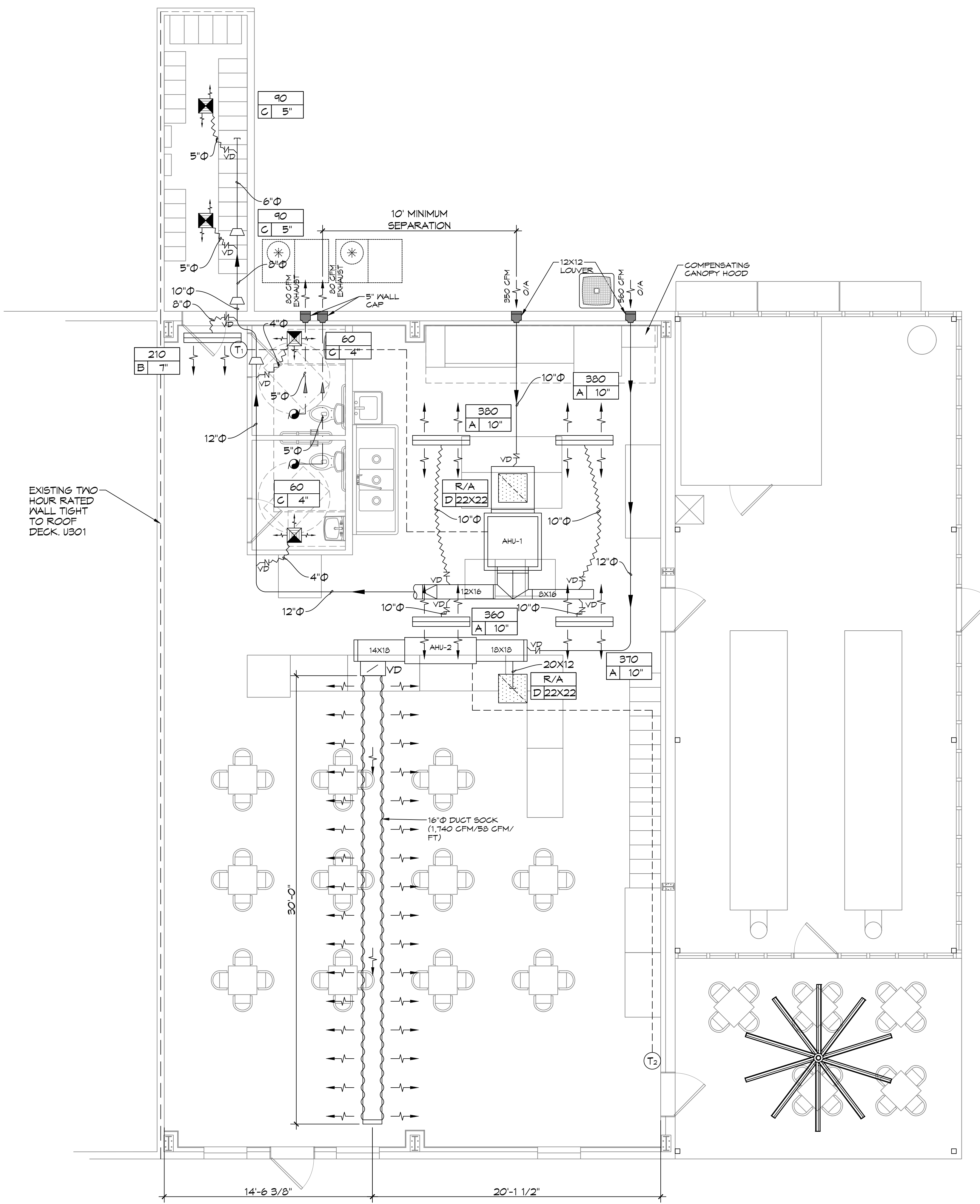


**RESTAURANT**  
**GONZOS SMOKEHOUSE & BBQ**  
15048 RIVER RD  
LULING, LA 70070  
JOB No: 2515 DATE: 04/03/2025  
DRAWN BY: CKD CHECKED BY: BAM

SHEET TITLE:  
**PLUMBING PLAN AND DETAILS**

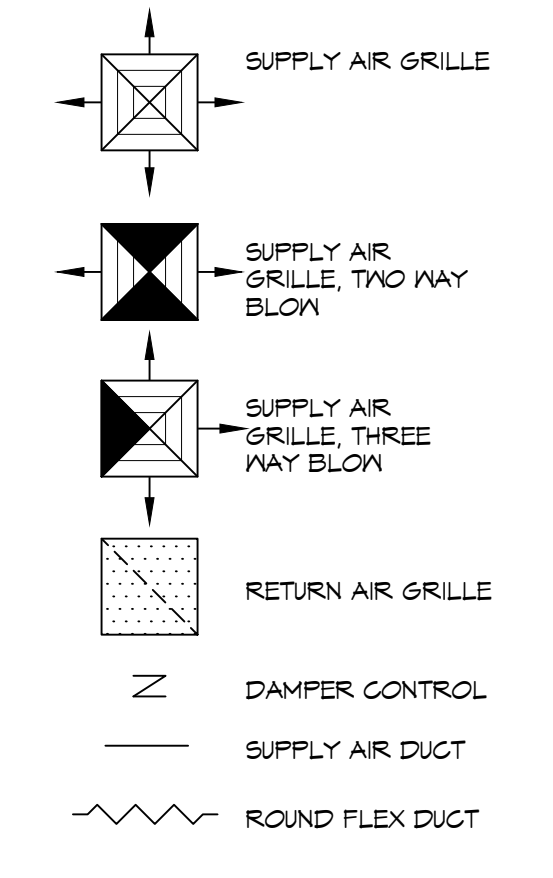
DRAWING NUMBER:  
**P101**

FILE NAME: A:\12MECH\12M101 - GONZOS SMOKEHOUSE MECHANICAL PLAN.dwg PLOT DATE: 08/26/2025 PLOT TIME: 10:02:34 AM



**12MECHANICAL PLAN**  
SCALE: 1/4" = 1'-0"

**MECHANICAL LEGEND**



**GENERAL HVAC NOTES**

1. CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL WRAPPED WITH FIBROUS GLASS DUCT WRAP WITH FSK VAPOR BARRIER, MIN R-6. INSTALLED PER SMACNA STANDARDS. DUCT WORK IMMEDIATELY DOWNSTREAM FROM RTU SHALL BE LINED FOR SOUND ATTENUATION.
2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
3. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
4. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
5. IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 12E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
6. PROVIDE UL LISTED 125 F° FIRESTAT IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
7. PROVIDE UL RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES AND EXHAUST FANS.
8. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
9. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
10. ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
11. EXHAUST FAN SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCH(S). PROVIDE BACK DRAFT DAMPER.
12. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
13. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS AT THE REGISTER.
14. LOCATE OUTDOOR UNITS AS SHOWN ON ARCHITECTURAL DRAWINGS.
15. REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
16. FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
17. ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E8-14).
18. ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMMATICALLY. CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
19. FLEXIBLE DUCTWORK LENGTH NOT TO EXCEED 12'-0". SUPPORT FLEX DUCT TO PREVENT SAGGING.
20. REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
21. FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
22. PROVIDE AND INSTALL SMOKE DETECTORS AS APPROVED BY LOCAL AHJ'S. PLACE NEAR R/A AND S/A OPENINGS OF AHU AND PROVIDE, WITH ACCESS PANEL, WIRING BY ELECTRICAL CONTRACTOR.
23. FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING.
24. PROVIDE BIRD SCREENS AT ALL EXTERIOR MECHANICAL PENETRATIONS.
25. COORDINATE WALL MOUNTED THERMOSTAT LOCATIONS WITH ALL OWNER FURNISHED ITEMS EITHER WALL MOUNTED OR FLOOR MOUNTED AGAINST PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS.
26. SEE ROOF PLAN FOR ALL ROOF PENETRATIONS.
27. PROVIDE MIN 18 GA GALVANIZED SHEET METAL TO BLANK-OFF GABLE VENTS WHERE INTAKE/EXHAUST DUCTS OCCUR.
28. LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS OF SUPPLY AND RETURN DUCTS OPERATING AT A STATIC PRESSURE LESS THAN OR EQUAL TO 2 INCHES WATER GAUGE SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS, MASTIC-PLUS-EMBEDDED FABRIC SYSTEMS OR TAPES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. PRESSURE CLASSIFICATIONS SPECIFIC TO THE DUCT SYSTEM SHALL BE CLEARLY INDICATED ON THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE.

**THIS WORK SHALL MEET ALL HVAC CODES**

1. IMC2021 EDITION OF THE IMC
2. IECC2021 IECC ENERGY CODE

**DAMMON ENGINEERING, INC.**  
LOUISIANA & MISSISSIPPI  
 Chief Engineer: Brian Mistich, PE  
 554 Old Spanish Trail  
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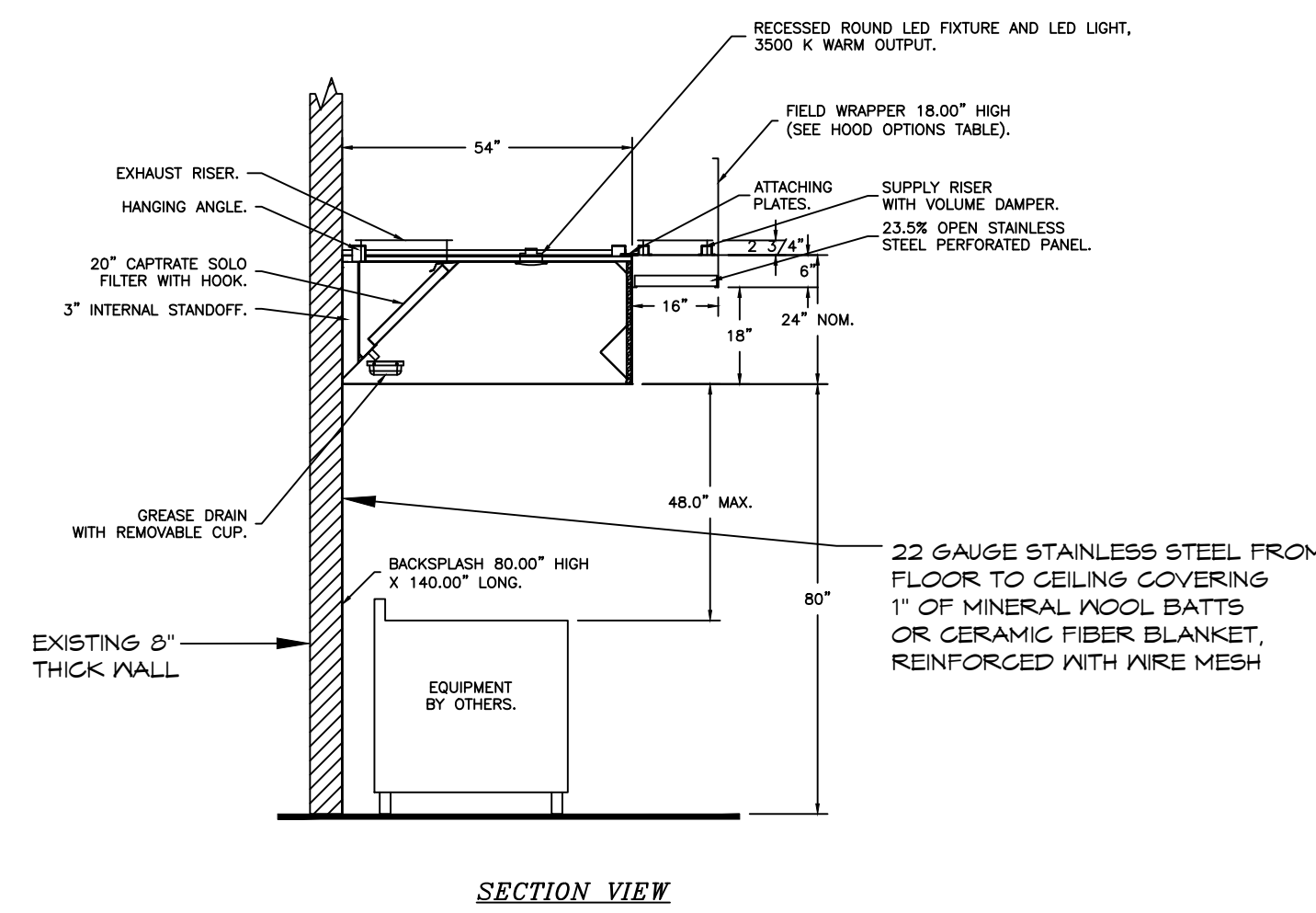
#	DESCRIPTION	DATE
1	REVISED EXHAUST FOR PLATFORM	07-31-24



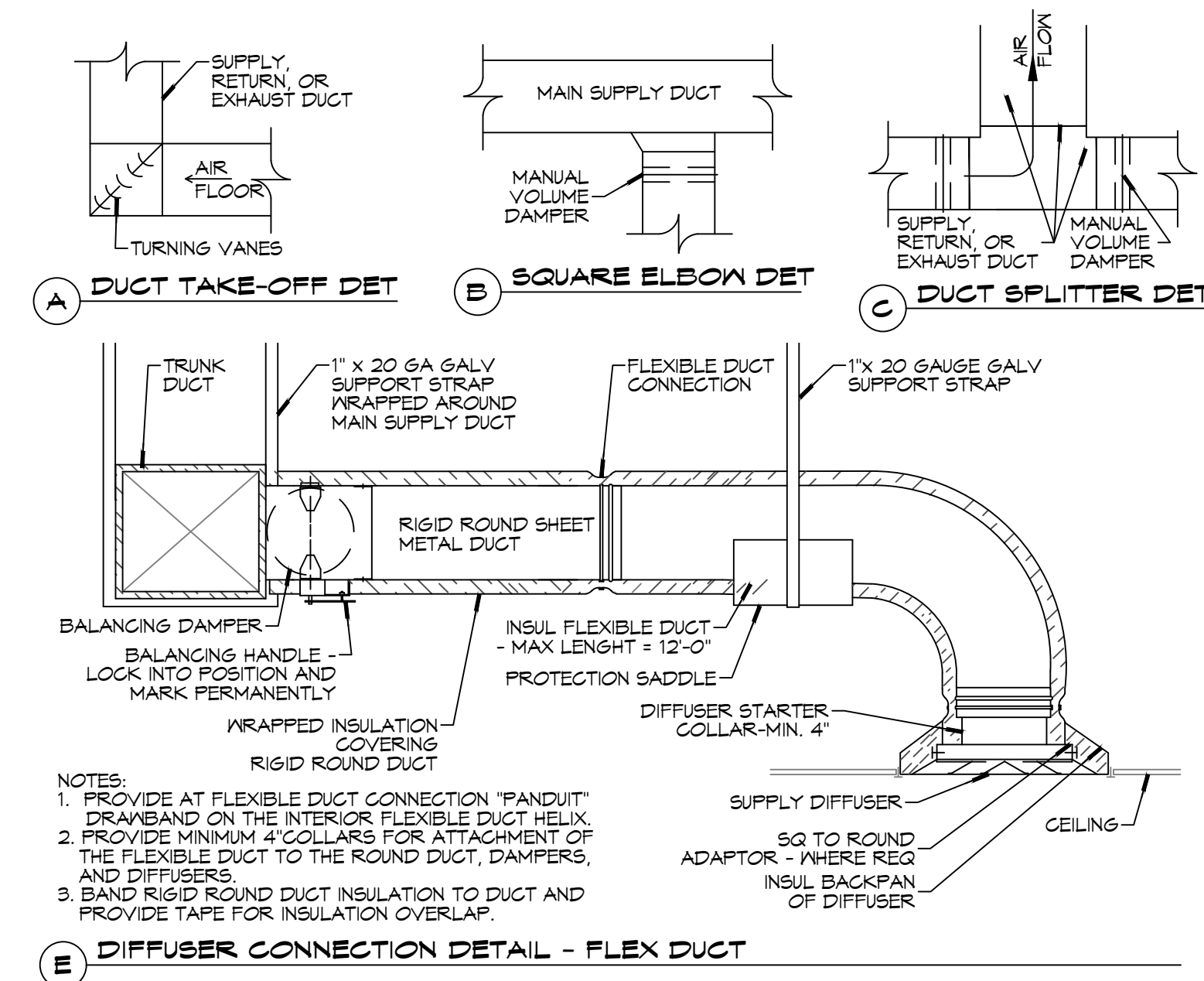
**RESTAURANT**  
**GONZOS SMOKEHOUSE & BBQ**  
 13048 RIVER RD  
 LULING, LA 70070  
 JOB No: 2515 DATE: 04/05/2025  
 DRAWN BY: BAK CHECKED BY: GKD

SHEET TITLE:  
MECHANICAL PLAN  
 DRAWING NUMBER:  
**M101**  
 SHEET No: 10 of 14

FILE NAME: A:\PROJECTS\2023\Gonzos Smoke House\Gonzos Smoke House.dwg, PLOT DATE: 8/28/2025, PLOT TIME: 10:02:30 AM, PLOT SCALE: 1/8"=1'-0", PLOT SHEET: 1 OF 14



D HOOD SECTION VIEW



NOTES:  
 1. PROVIDE AT FLEXIBLE DUCT CONNECTION "FANDUIT" DRAWBAND ON THE INTERIOR FLEXIBLE DUCT HELIX.  
 2. PROVIDE MINIMUM 4 COLLARS FOR ATTACHMENT OF THE FLEXIBLE DUCT TO THE ROUND DUCT, DAMPERS, AND DIFFUSERS.  
 3. BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

13 TYPICAL DETAILS  
 SCALE: NTS

EXHAUST FAN SCHEDULE									
Tag	Fan			Power			Make / Model	Remarks	
	Airflow (CFM)	TSP (" wc)	Amps	RPM	Volts	Phase			Hz
EF-1	60	0.2	0.12	1030	120	1	60	Panasonic FV-0511VKS2	1, 2
EF-2	60	0.2	0.12	1030	120	1	60	Panasonic FV-0511VKS2	1, 2

1. Install per Manufacturer's recommendations.
2. Furnish with grille, speed control and backdraft damper.

AIR BALANCE SCHEDULE										
Space	Service	Supply Air (CFM)	Return Air (CFM)	Ventilation Air (CFM)	General Exhaust		Compensating Hood		Transfer Air for Hood (CFM)	REMARKS
					Air Flow (CFM)	Description	Exhaust Air Flow (CFM)	Make-Up Air Flow (CFM)		
Food Preparation Area	AHU-1	2000	1650	350	120	Restrooms	3562	2850		1, 2
Dining Area	AHU-2	1740	1180	560		None		362		1, 2, 3

- Notes:
1. Ventilation based on ASHRAE 62 standard for food and beverage (7.5 CFM/occupant, 0.18 CFM/Ft2 for dining area & 0.12 CFM/Ft2 for food prep).
  2. Total Ventilation air: 910 CFM; Total Hood Make-Up air: 2,850 CFM; Total Exhaust air: 3,682 CFM; Total exfiltration: 78 CFM.
  3. Transfer air to kitchen area for compensating canopy hoods.

DX SPLIT SYSTEM SCHEDULE																					
AHU											HEAT PUMP										
TAG	MAKE	MODEL	NOMINAL TONS	TOTAL CFM	O/A CFM	REQ'D COOLING		Motor HP	ESP (" WC)	AUX. HEAT ( Kw)	POWER			TAG	NOMINAL TONS	MAKE	MODEL	POWER			REMARKS
						TMBH	SBH				VAC	PH	MCA					VAC	PH	MCA	
AHU-1	Trane	TWE072K3BA	6	2000	350	66.8	47.6	3/4	0.5	3.8	208	3	22	CU-1	6	Trane	TWA072K3DA	208	3	35	1, 2
AHU-2	Trane	TAMXBOC	5	1740	560	60.1	37.2	1	0.6	5.8	208	1	44	CU-2	5	Trane	5TWW8060	208	1	36	1, 2

- NOTES:
- 1 Provide inlet filter box, single point power connection, expansion valve, time delay relay, condensate overflow switch & programmable 7/24 thermostat.
  - 2 Cooling capacities to be rated in accordance with AHRI standard 210/290 for ASHRAE standard design weather conditions in New Orleans, LA.

14 SCHEDULES  
 SCALE: NTS

**DAMMON ENGINEERING, INC.**  
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REVISIONS	DATE
# DESCRIPTION	



RESTAURANT  
**GONZOS SMOKEHOUSE & BBQ**  
 13048 RIVER RD  
 LULING, LA 70070  
 JOB No: 2515 DATE: 09/02/2025  
 DRAWN BY: BAK CHECKED BY: GKD

SHEET TITLE:  
 MECHANICAL SCHEDULES & DETAILS

DRAWING NUMBER:

**M102**







FOR QUESTIONS, CALL THE  
 Louisiana Office  
 REGION 27  
 PHONE: (985) 781 - 4107  
 EMAIL: reg27@econair.com

**HOOD INFORMATION - JOB#8180079**

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)						TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL			SP	END TO END	ROW
1		5424 EX-2-PSP-F	ECON-AIR	7' 11"	600 DEG	I	HEAVY	225	1781			4'	14'	1781	1666	-0.379'	1425	430 SS WHERE EXPOSED	LEFT	ALONE
2		5424 EX-2-PSP-F	ECON-AIR	7' 11"	600 DEG	I	HEAVY	225	1781			4'	14'	1781	1666	-0.379'	1425	430 SS WHERE EXPOSED	RIGHT	ALONE

**HOOD INFORMATION**

HOOD NO	TAG	FILTER(S)						LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT	
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM		ELECTRICAL	SWITCHES			
												TYPE	SIZE	MODEL #	QUANTITY			
1		SS BAFFLE WITH HANDLES	5	20"	16'	30%	3	L55 SERIES E26	NO								NO	434 LBS
2		SS BAFFLE WITH HANDLES	5	20"	16'	30%	3	L55 SERIES E26	NO								NO	434 LBS

**HOOD OPTIONS**

HOOD NO	TAG	OPTION
1		LEFT END STANDOFF (FINISHED) 1' WIDE 54' LONG INSULATED. WRAPPER CHANNEL - FRONT.
2		RIGHT END STANDOFF (FINISHED) 1' WIDE 54' LONG INSULATED. WRAPPER CHANNEL - FRONT.

**PERFORATED SUPPLY PLENUM(S)**

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)				
							WIDTH	LENG	DIA	CFM	SP
1		Front	96'	16'	6'	MUA	12"	28"		712	0.191'
						MUA	12"	28"		712	0.191'
2		Front	96'	16'	6'	MUA	12"	28"		712	0.191'
						MUA	12"	28"		712	0.191'



JOB Gonzo  
 LOCATION La Place, LA,  
 DATE 8/18/2025 JOB # 8180079  
 DWG # 1 DRAWN BY HMB  
 REV. SCALE 3/8" = 1'-0"



### GREASE DUCT & CHIMNEY SPECIFICATIONS:

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

PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "EDW" 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 ECON-AIR MODEL "EDW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

### PATENT NUMBERS

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

ECON-AIR 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

### 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

\_\_\_' - \_\_\_"

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

### CUSTOMER APPROVAL TO MANUFACTURE:

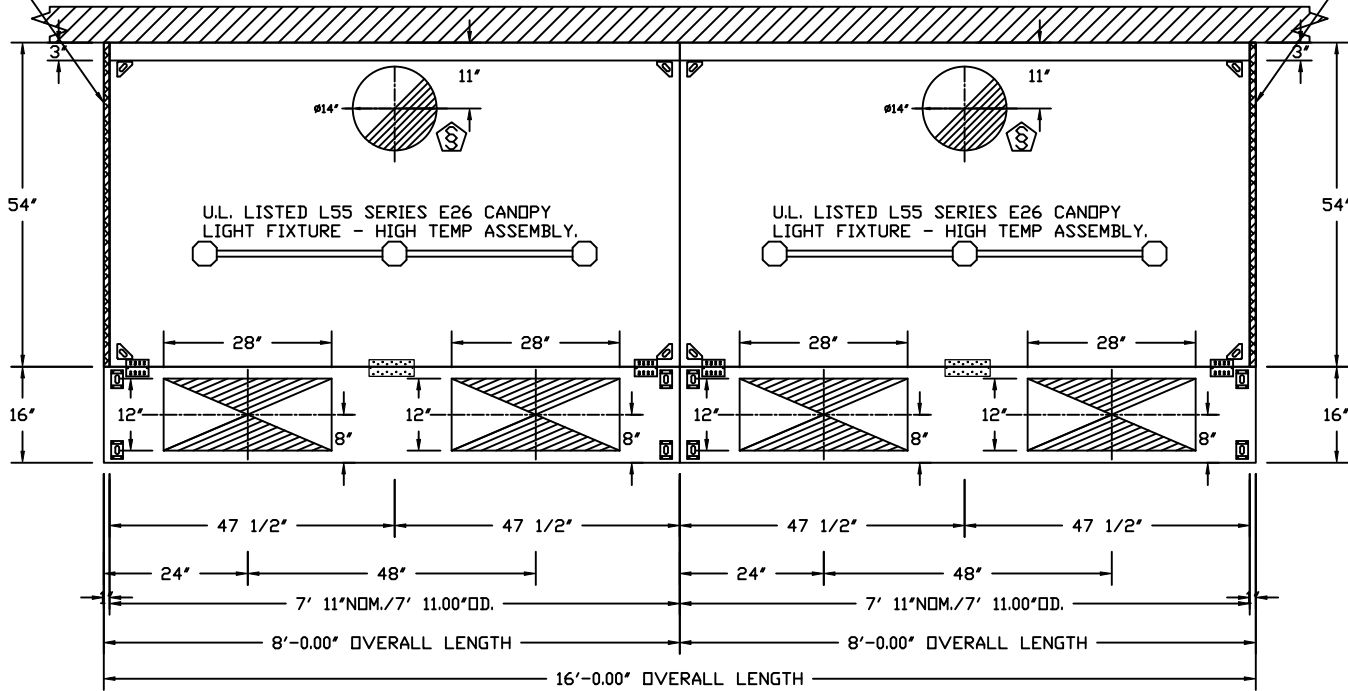
APPROVED AS NOTED   
 APPROVED WITH NO EXCEPTION TAKEN   
 REVISE AND RESUBMIT   
 SIGNATURE \_\_\_\_\_  
 YOUR TITLE \_\_\_\_\_ DATE \_\_\_\_\_



JOB Gonzo	
LOCATION La Place, LA,	
DATE 8/18/2025	JOB # 8180079
DWG # 2	DRAWN BY HMB
REV.	SCALE 3/8" = 1'-0"

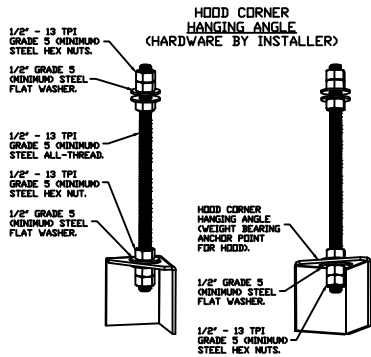
1' LAYER OF INSULATION  
FACTORY INSTALLED IN  
1.00" END STANDOFF MEETS  
0" REQUIREMENTS CLEARANCE  
TO COMBUSTIBLE SURFACES.

1' LAYER OF INSULATION  
FACTORY INSTALLED IN  
1.00" END STANDOFF MEETS  
0" REQUIREMENTS CLEARANCE  
TO COMBUSTIBLE SURFACES.



PLAN VIEW - HOOD #1  
7' 11.00" LONG 5424EX-2-PSP-F

PLAN VIEW - HOOD #2  
7' 11.00" LONG 5424EX-2-PSP-F

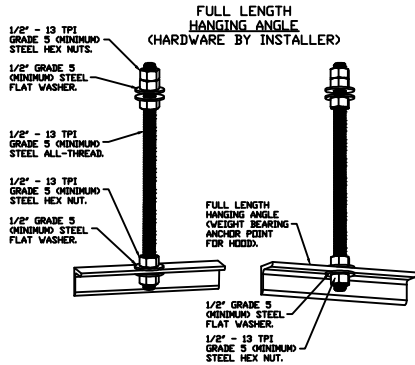


**ASSEMBLY INSTRUCTIONS**

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 HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

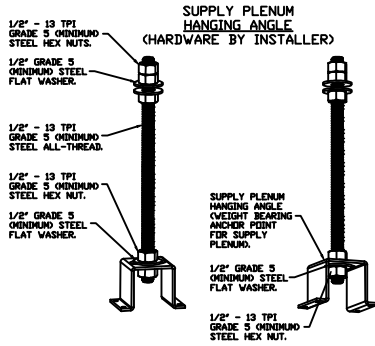


JOB Gonzo	
LOCATION La Place, LA,	
DATE 8/18/2025	JOB # 8180079
DWG # 3	DRAWN BY HMB
REV.	SCALE 3/8" = 1'-0"



**ASSEMBLY INSTRUCTIONS**

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 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.



**ASSEMBLY INSTRUCTIONS**

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 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.

**CLEARANCE TO COMBUSTIBLES**

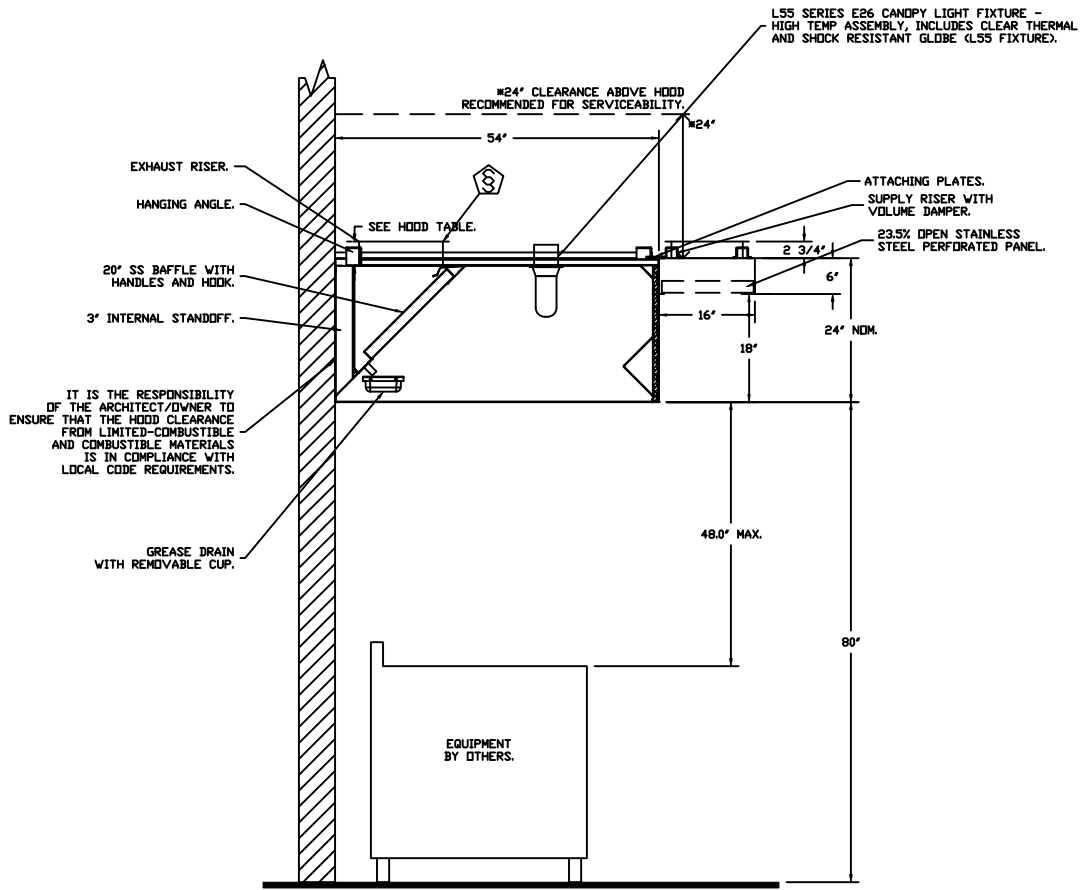
HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	18"
	RIGHT	0"
2	TOP	18"
	FRONT	0"
	BACK	18"
	RIGHT	0"

- \*0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.



JOB Gonzo	
LOCATION La Place, LA,	
DATE 8/18/2025	JOB # 8180079
DWG # 4	DRAWN BY HMB
REV.	SCALE 3/8" = 1'-0"





**SECTION VIEW - MODEL 5424EX-2-PSP-F  
HOOD - #2**



<i>JOB</i> Gonzo	
<i>LOCATION</i> La Place, LA,	
<i>DATE</i> 8/18/2025	<i>JOB #</i> 8180079
<i>DWG #</i> 6	<i>DRAWN BY</i> HMB
<i>REV.</i>	<i>SCALE</i> 3/8" = 1'-0"

**EXHAUST FAN INFORMATION - JOB#8180079**

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1		1	EADU180H	ECON-AIR	1781	1.000	971	DDP,PREMIUM	1.000	0.6230	3	208	3.8	411 FPM	156	9.6
2		1	EADU180H	ECON-AIR	1781	1.000	971	DDP,PREMIUM	1.000	0.6230	3	208	3.8	411 FPM	156	9.6

**MUA FAN INFORMATION - JOB#8180079**

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MDCP	WEIGHT (LBS)	SONES
3		1	EA-A2-20D	20MF-2-MDD	A2	1500	2850	0.500	1064	DDP,PREMIUM	1.500	0.7120	3	208	6.6	8.3A	15A	411	10.2

**FAN ACCESSORIES**

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MDUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MDUNT
1		YES						
2		YES						



<i>JOB</i> Gonzo	
<i>LOCATION</i> La Place, LA,	
<i>DATE</i> 8/18/2025	<i>JOB #</i> 8180079
<i>DWG #</i> 7	<i>DRAWN BY</i> HMB
<i>REV.</i>	<i>SCALE</i> 3/8" = 1'-0"

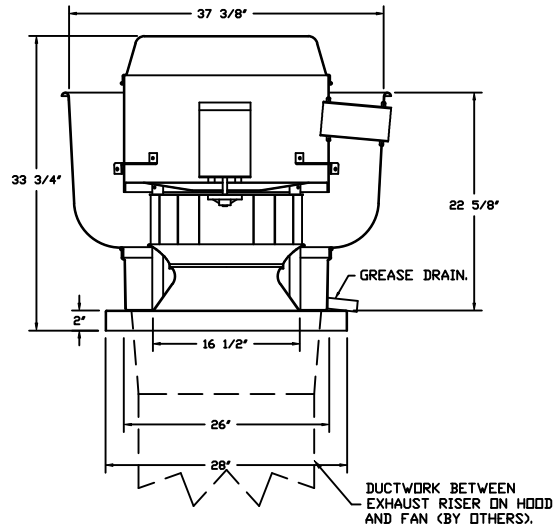
**FAN OPTIONS**

FAN UNIT NO	TAG	QTY	DESCRIPTION
1		1	GREASE BOX
		1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	2 YEAR PARTS WARRANTY
2		1	GREASE BOX
		1	HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS
		1	2 YEAR PARTS WARRANTY
3		1	SIZE 2 UNTEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	2 YEAR PARTS WARRANTY



<i>JOB</i> Gonzo	
<i>LOCATION</i> La Place, LA,	
<i>DATE</i> 8/18/2025	<i>JOB #</i> 8180079
<i>DWG #</i> 8	<i>DRAWN BY</i> HMB
<i>REV.</i>	<i>SCALE</i> 3/8" = 1'-0"

FANS #1, #2 - FADUI80H EXHAUST FAN



**FEATURES:**

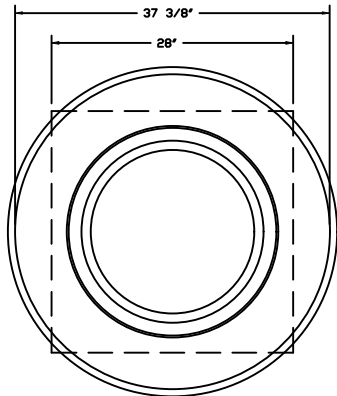
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

**NORMAL TEMPERATURE TEST**  
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

**ABNORMAL FLARE-UP TEST**  
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

**OPTIONS**

- GREASE BOX.
- HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS.
- 2 YEAR PARTS WARRANTY.



TOP VIEW

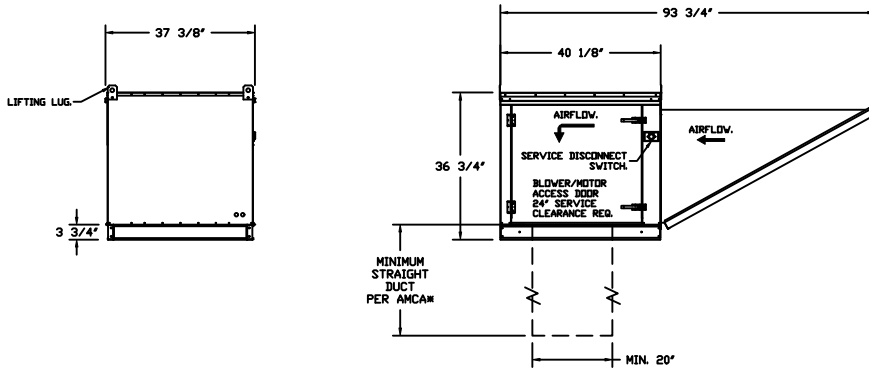
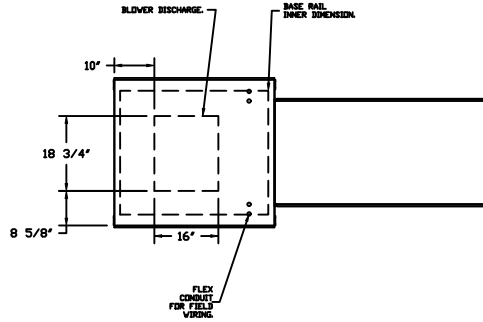


JOB Gonzo	
LOCATION La Place, LA,	
DATE 8/18/2025	JOB # 8180079
DWG # 9	DRAWN BY HMB
REV.	SCALE 3/8" = 1'-0"

FAN #3 EA-A2-20D - SUPPLY FAN

1. UNTEMPERED SUPPLY UNIT WITH 20' MIXED FLOW DIRECT DRIVE FAN IN SIZE #2 HOUSING.
2. INTAKE HOOD WITH EZ FILTERS.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. DOWN DISCHARGE CONSTRUCTION FOR SIZE 2 UNTEMPERED DIRECT DRIVE AHUS.
5. HINGED DOUBLE WALL INSULATED DDDR ASSEMBLY (BURNER/BLOWER SECTION).
6. 2 YEAR PARTS WARRANTY.

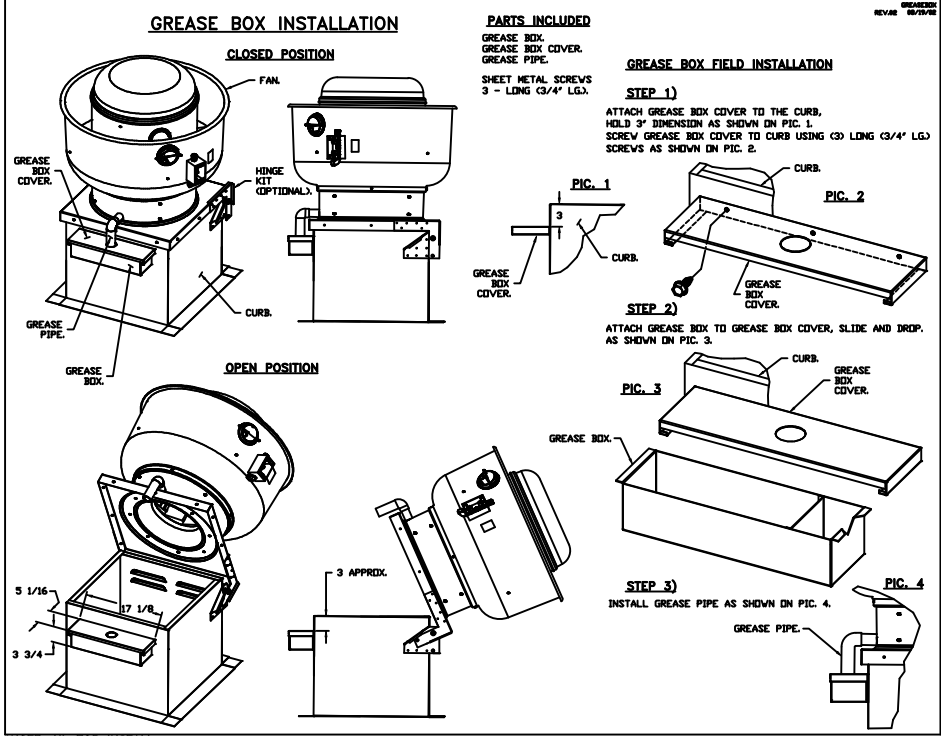
NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 20" x 20".



**GREASE DUCT & CHIMNEY SPECIFICATIONS:**  
 PROVIDE GREASE DUCT EQUAL TO ECON-AIR MODEL 'EDW' ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL 'EDW' IS LISTED TO UL-1978 AND IS INSTALLED USING 'V' CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL 'EDW' DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURER'S INSTALLATION GUIDE.  
 PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURER'S LISTING MODEL 'EDW' 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 ECON-AIR MODEL 'EDW- 2R, 2R TYPE HT, 3R, OR 3Z' ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

**CUSTOMER APPROVAL TO MANUFACTURE:**

APPROVED AS NOTED	<input type="checkbox"/>
APPROVED WITH NO EXCEPTION TAKEN	<input type="checkbox"/>
REVISE AND RESUBMIT	<input type="checkbox"/>
SIGNATURE _____	DATE _____
YOUR TITLE _____	



NOTE: UL 705 INSTALL.

		JOB Gonzo	
		LOCATION La Place, LA,	
		DATE 8/18/2025	JOB # 8180079
		DWG # 10	DRAWN BY HMB
		REV.	SCALE 1/4" = 1'-0"

# Exhaust Fan Wiring

JOB 8180079 - Gonzo

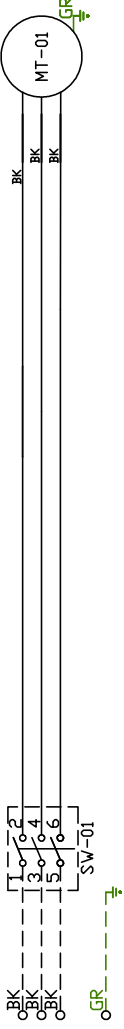
DRAWING NUMBER EXH8180079-1

SHIP DATE 8/18/2025

MODEL RADU180H

Installed Options

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23



Label	Component Description	Location
MT-01	Fan Motor	[3]
SV-01	Main disconnect switch	[3]

MOTOR INFO  
 EXHAUST 10HP-208V-3P-3.8FLA  
 VFD PART: ESV751N02YXB571

ELECTRICAL INFORMATION  
 MOTOR SIZE: 48A  
 MOTOR/CTRL MOP: 15A

NOTES  
 - - - - DENOTES FIELD WIRING  
 \_\_\_\_\_ DENOTES INTERNAL WIRING

WIRE COLOR  
 BK - BLACK YW - YELLOW  
 BL - BLUE GR - GREEN  
 BR - BROWN GY - GRAY  
 OR - ORANGE PR - PURPLE  
 RD - RED PK - PINK  
 WH - WHITE

# Exhaust Fan Wiring

JOB 8180079 - Gonzo

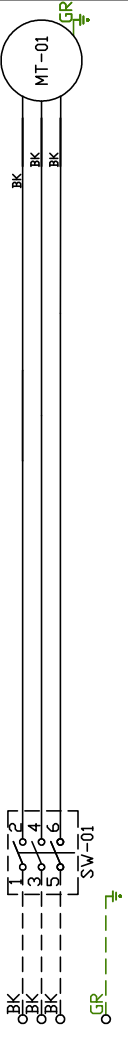
DRAWING NUMBER EXH8180079-2

SHIP DATE 8/18/2025

MODEL RADU180H

Installed Options

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18
- 19
- 20
- 21
- 22
- 23



Label	Component Description	Location
MT-01	Fan Motor	[3]
SV-01	Main disconnect switch	[3]

MOTOR INFO  
 EXHAUST 10HP-208V-3P-3.8FLA  
 VFD PART: ESV751N02YXB571

ELECTRICAL INFORMATION  
 MOTOR SIZE: 48A  
 MOTOR/CTRL MOP: 15A

NOTES  
 - - - - DENOTES FIELD WIRING  
 \_\_\_\_\_ DENOTES INTERNAL WIRING

WIRE COLOR  
 BK - BLACK YW - YELLOW  
 BL - BLUE GR - GREEN  
 BR - BROWN GY - GRAY  
 OR - ORANGE PR - PURPLE  
 RD - RED PK - PINK  
 WH - WHITE

# AirHandler Wiring

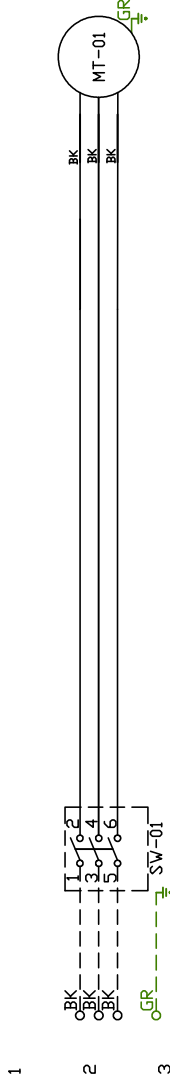
JOB 8180079 - Gonzo

DRAWING NUMBER A8180079-3

SHIP DATE 8/18/2025

MODEL EA-A2-20D

ATTENTION ELECTRICIAN!  
 DROP FOR DISCONNECT CONNECTION  
 IS FACTORY SUPPLIED  
 CONNECT POWER TO THE DROP



Label	Component Description	Location	Installed Options
MT-01	Supply motor	[2]	
SW-01	Main disconnect switch	[2]	
SUPPLY VFD PART:	MOTOR_INFD 1.5HP-208V-3P-6FLA ESV152N02YXB571		
MOTORS / CTRL MOTOR / CTRL MOTOR / CTRL MOTOR	ELECTRICAL INFORMATION MOTOR / CTRL MOTOR MOP: 83A MOTOR / CTRL MOTOR MOP: 15A		
<p>NOTES</p> <p>--- DENOTES FIELD WIRING</p> <p>— DENOTES INTERNAL WIRING</p> <p>WIRE COLOR</p> <p>BK-BLACK YW - YELLOW RD - RED</p> <p>BL-BLUE GR - GREEN WH - WHITE</p> <p>BR - BROWN GY - GRAY PK - PINK</p> <p>OR - ORANGE PR - PURPLE</p>			

**ELECTRICAL PACKAGE – JOB#8180079**

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	Φ	HP	VOLT	FLA
1		SC-32111002	WALL MOUNT IN SS BOX	FACE MOUNT LEFT SIDE OF HOOD	1 LIGHT	SMART CONTROLS BASIC	EXHAUST	3	1,000	208	3.8
				HOOD # 1	1 FAN		EXHAUST	3	1,000	208	3.8
							SUPPLY	3	1,500	208	6.6



<i>JOB</i> Gonzo	
<i>LOCATION</i> La Place, LA,	
<i>DATE</i> 8/18/2025	<i>JOB #</i> 8180079
<i>DWG #</i> 14	<i>DRAWN BY</i> HMB
<i>REV.</i>	<i>SCALE</i> 3/8" = 1'-0"

JOB NO  
8180079

MODEL NUMBER  
SC-32111002

DRAWN BY  
INSTALL

DESCRIPTION OF OPERATION:  
3 Phase w/ control for 2 Exhaust Fans, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, INVERTER DUTY 3 PHASE  
MOTOR REQUIRED FOR USE WITH VFD.

JOB NAME  
Gonzo

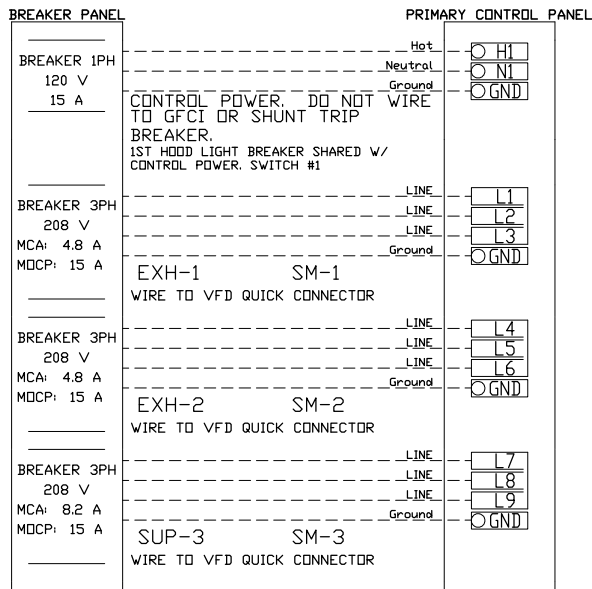
DATE  
8/18/2025

DWG NO  
ECP #1-1

### BREAKER PANEL TO PRIMARY CONTROL PANEL

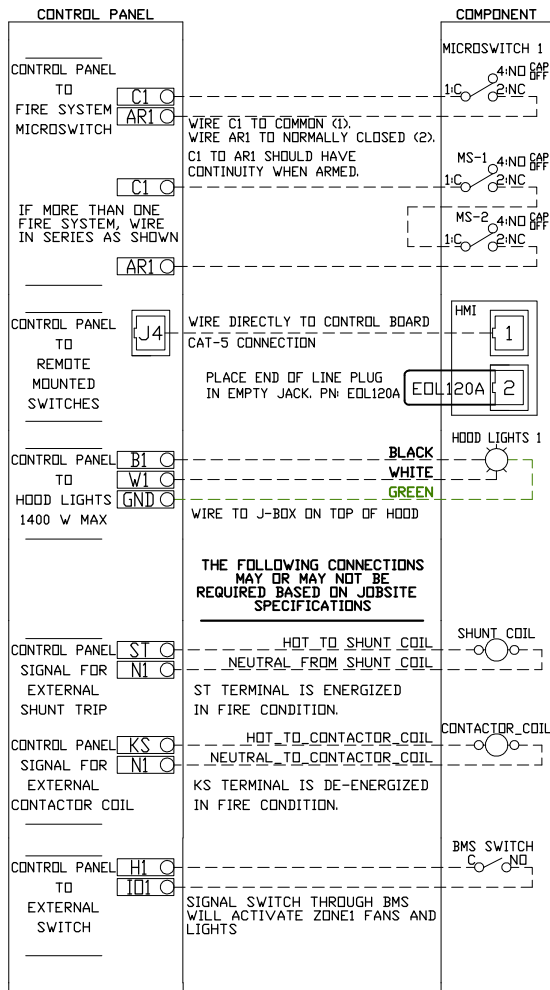
Responsibility: Electrician

BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED



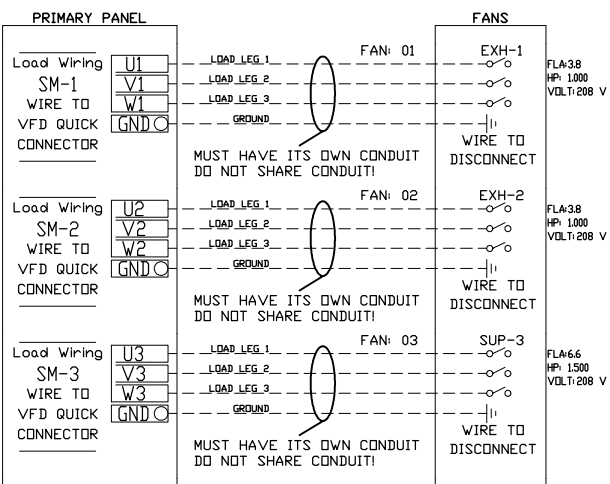
### CONTROL PANEL TO ACCESSORY ITEMS

Responsibility: Electrician

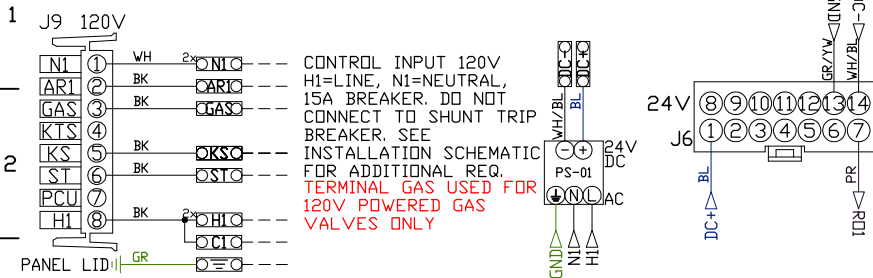


### CONTROL PANEL TO FANS

Responsibility: Electrician



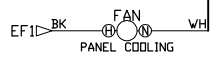
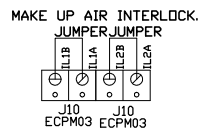
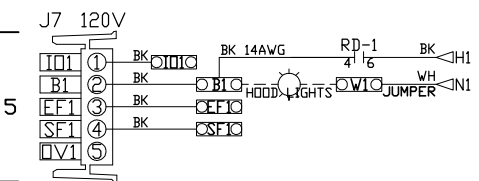
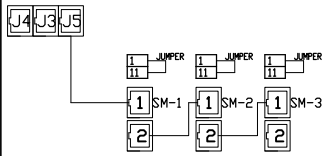
UNLESS SPECIFIED OTHERWISE, ALL FACTORY AC WIRING 16 AWG. ALL FACTORY DC WIRING 18 AWG.



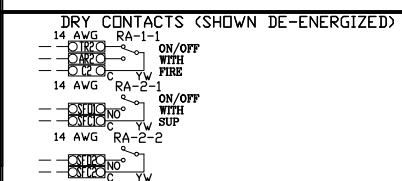
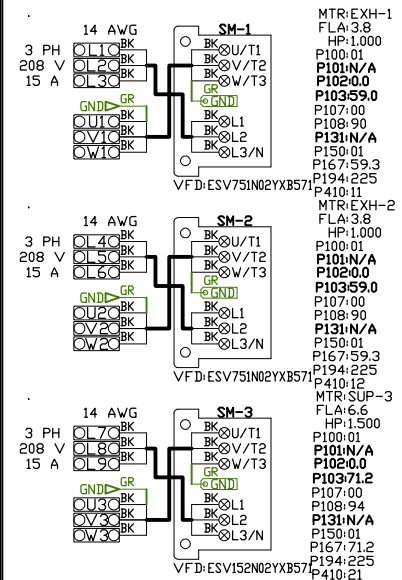
3

NOTE: All items on ECPM03 J5 line to be daisy chained from one component to the next, with EDL120A at end of line. Place PN EDL120A in empty RJ45 port.

ECPM03/DAISY CHAIN



MOTOR POWER CIRCUIT



FACTORY WIRING SCHEMATIC CIRCUIT BOARDS

RA-x	RD-x
120 VAC	24 VDC
RELAY	RELAY
NO 4 3	NO 4 3
NC 2 1	NC 2 1
COIL 8 7	COIL 8 7
COM 6 5	COM 6 5

COMPONENT LIST

LABEL	DESCRIPTION
ST-X	Starter varies
DL-X	Overload varies
C-X	Contactors varies
PS-1	Power Sup. 24VDC MDP18-24A-1C
RA-x	120V Relay DPDT 34.1100840
RD-x	24VDC Light Relay 34.1100880

LEGEND

---	FIELD WIRING
---	FACTORY WIRING
BK-	BLACK
BL-	BLUE
BR-	BROWN
OR-	ORANGE
WH-	WHITE
YW-	YELLOW
GY-	GREY
PR-	PURPLE
RD-	RED
GR-	GREEN
DR/BL-	DR/BL STRIPE
BL/RD-	BL/RD STRIPE
RD/GN-	RD/GN STRIPE
WH/BL-	WH/BL STRIPE

JOB NAME

Gozto

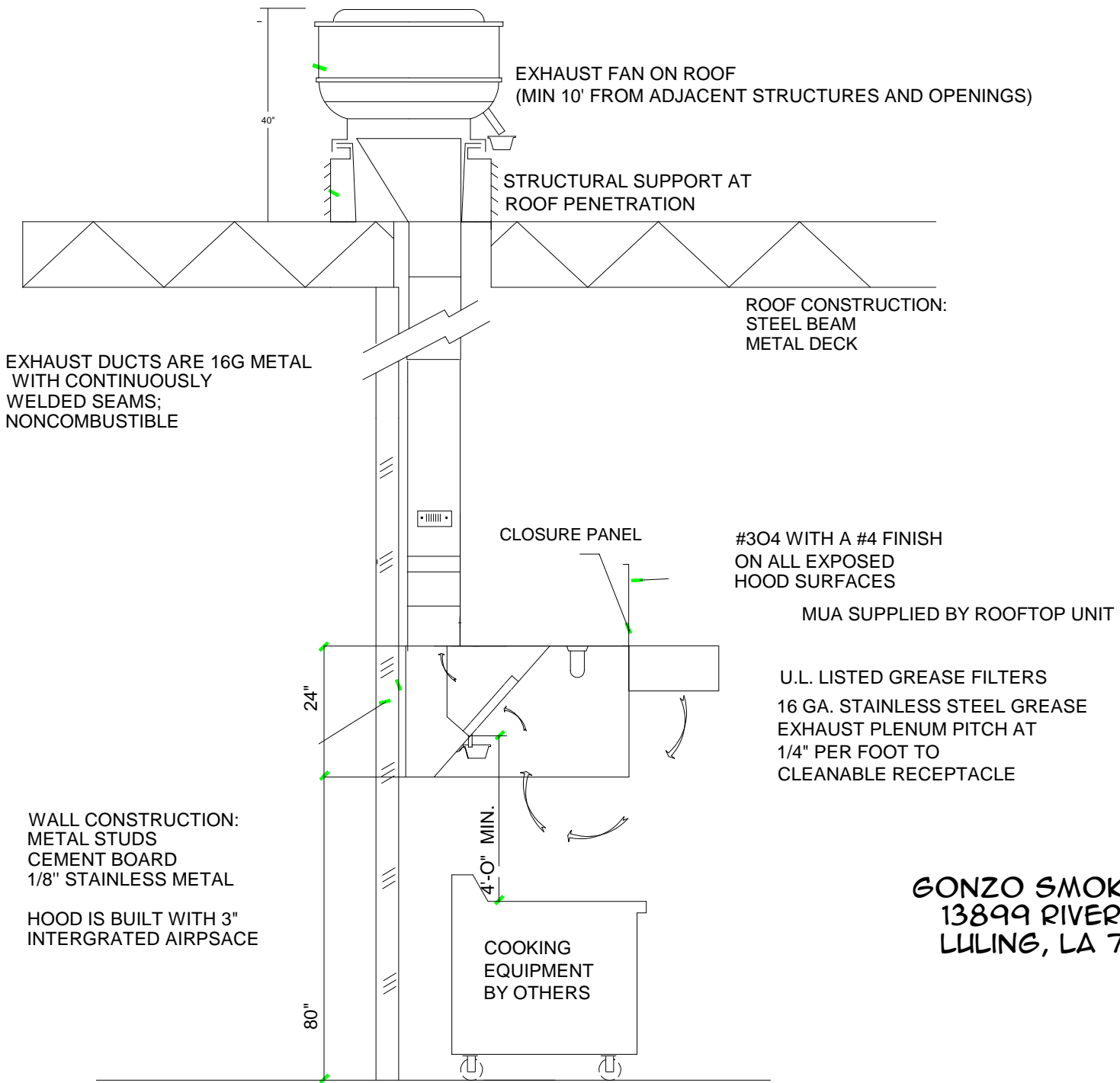
DRAWING TITLE

SC-3211002

DESCRIPTION OF OPERATION

3 Phase w/ control for 2 Exhaust Fans, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, INVERTER DUTY 3 PHASE MOTOR REQUIRED FOR USE WITH VFD.

JOB NO	DRAWN BY
8180079	
TYPE	DATE
FACTORY	8/18/2025
DWG NO ECP	#1-2



EXHAUST FAN ON ROOF  
(MIN 10' FROM ADJACENT STRUCTURES AND OPENINGS)

STRUCTURAL SUPPORT AT  
ROOF PENETRATION

ROOF CONSTRUCTION:  
STEEL BEAM  
METAL DECK

EXHAUST DUCTS ARE 16G METAL  
WITH CONTINUOUSLY  
WELDED SEAMS;  
NONCOMBUSTIBLE

CLOSURE PANEL

#304 WITH A #4 FINISH  
ON ALL EXPOSED  
HOOD SURFACES

MUA SUPPLIED BY ROOFTOP UNIT

U.L. LISTED GREASE FILTERS  
16 GA. STAINLESS STEEL GREASE  
EXHAUST PLENUM PITCH AT  
1/4" PER FOOT TO  
CLEANABLE RECEPTACLE

WALL CONSTRUCTION:  
METAL STUDS  
CEMENT BOARD  
1/8" STAINLESS METAL

HOOD IS BUILT WITH 3"  
INTERGRATED AIRSPACE

COOKING  
EQUIPMENT  
BY OTHERS

**GONZO SMOKEHOUSE**  
13899 RIVER ROAD  
LULING, LA 70070



**PYRO-CHEM KITCHEN KNIGHT II  
PCL-160/300/460/600 NOZZLE COVERAGE/PIPE VOLUMES  
CONVERSION SUMMARY SHEET**

Appliance	Nozzle Type	Flow Points	Width in. (mm) Max. Side	Length or Area in. or in. <sup>2</sup> (mm or m <sup>2</sup> )	Min. Height in. (mm)	Max. Height in. (mm)
Deep Fat Fryer – Vat	2H	2	19 1/2 in. (495 mm)	19 in. (483 mm)	24 (610)	48 (1.22)*
Deep Fat Fryer (Low Proximity) – Vat	2L				13 (330)	24 (610)
Deep Fat Fryer – Drip Pan (Vat 18 in. x 18 in. max. (457 mm x 457 mm))	2H	2	27 3/4 (705)	500 in. <sup>2</sup> (0.323m <sup>2</sup> )*	24 (610)	48 (1.22)*
Deep Fat Fryer (Low Proximity) – Drip Pan (Vat 18 in. x 18 in. max. (457 mm x 457 mm))	2L				13 (330)	24 (610)
Deep Fat Fryer – Drip Pan (Vat 19 1/2 in. x 19 in. max. (495 mm x 483 mm))	2H	2	25 3/8 (645)	495 (0.319)*	24 (610)	48 (1.22)*
Deep Fat Fryer (Low Proximity) – Drip Pan (Vat 19 1/2 in. x 19 in. max. (495 mm x 483 mm))	2L				13 (330)	24 (610)
Two Burner Range	1H	1	12 (305)	28 (711)	40 (1.02)*	50 (127)
Two Burner Range (Low Proximity)	1L				13 (330)	24 (610)
Two Burner – Back Shelf (High Proximity)	2L	2	28 (711)	336 (0.217)*	24 (610)	35 (889)
Four Burner Range	2L	2	28 (711)	28 (711)	34 (864)	48 (1.22)*
Small Wok	1H	1	24 dia. (610)	6 depth (152)	24 (610)	48 (1.22)*
Small Wok (Low Proximity)	1L				13 (330)	24 (610)
Large Wok	2H	2	30 dia. (762)	8 depth (203)	24 (610)	48 (1.22)*
Large Wok (Low Proximity)	2L				13 (330)	24 (610)
Small Griddle	1H	1	36 (914)	1,080 (0.697)*	24 (610)	48 (1.22)*
Small Griddle (Low Proximity)	1L				10 (254)	24 (610)
Large Griddle	2H	2	48 (1.22)*	1,440 (0.929)*	24 (610)	48 (1.22)*
Large Griddle (Low Proximity)	2L				10 (254)	24 (610)
Gas Radiant Char-Broiler	1H	1	26 (660)	624 (0.403)*	24 (610)	48 (1.22)*
Gas Radiant Char-Broiler (Low Proximity)	1L				13 (330)	24 (610)
Large Gas Radiant Char-Broiler	2H	2	36 (914)	864 (0.557)*	36 (914)	48 (1.22)*
Large Gas Radiant Char-Broiler (Low Proximity)	2L				13 (330)	36 (914)
Lava Rock Char-Broiler	2L	2	26 (660)	624 (0.403)*	15 (381)	35 (889)
Natural Charcoal Char-Broiler (max. fuel depth 6 in. (152 mm))	1H	1	24 (610)	480 (0.310)*	24 (610)	35 (889)
Natural Charcoal Char-Broiler (Low Proximity)	1L				15 (381)	24 (610)
Mesquite Char-Broiler (max. fuel depth 6 in. (152 mm))	1H	1	24 (610)	480 (0.310)*	24 (610)	35 (889)
Mesquite Char-Broiler (Low Proximity)	1L				15 (381)	24 (610)
Upright/Salamander Broiler	1L	1	36 (914)	29.5 deep (749)	Front edge: above the grate	
Salamander Broiler (Internal Chamber)	1H	1	31 (787)	15.5 (394)	Centered 12–14 in. (305–356 mm) in front of broiler and positioned 16–18 in. (406–457 mm) above top of broiler; nozzle aimed at center of opening	
Chain Broiler (Internal Chamber)	1L	1	27 (686)	38 deep (965)	Front edge: 1–3 in. (25–76 mm) above chain	
Tilt Skillet/Braising Pan	Coverage limitations are based on fryer sizes including the drip boards. <b>Exception:</b> Tilt Skillets and Braising Pans may exceed maximum of 6 ft <sup>2</sup> (0.56 m <sup>2</sup> ).					

\*Note: Where millimeters equal or exceed 1,000 mm, meters or square meters are used.





**PYRO-CHEM KITCHEN KNIGHT II  
PCL-160/300/460/600 NOZZLE COVERAGE/PIPE VOLUMES  
CONVERSION SUMMARY SHEET**

Plenum	Nozzle Type	Flow Points	Width ft (m)	Length ft (m)	Nozzle Placement (See manual for more detail)
Single Bank/V Bank	1H	1	4 (1.2)	10 (3.0)	0-6 in. (0-0.15 m) from end of plenum
Duct	Nozzle Type	Flow Points	Max. Side in. (m)	Perimeter in. (m)	Diameter in. (m) Length
Rectangle/Circular	1L	1	16 3/4 (0.43)	50 (1.27)	16 (0.41) Unlimited
Rectangle/Circular	2D	2	34 (0.86)	100 (2.54)	31 7/8 (0.81) Unlimited
Rectangle	Multiple 2D	—	—	—	—

Volume Chart	1/4 in. pipe = 20.5 ml/ft	3/8 in. pipe = 37.5 ml/ft	1/2 in. pipe = 59.8 ml/ft	3/4 in. pipe = 105 ml/ft
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Cylinder Size	Flow Points	Total Pipe Vol. (ml)	1st Nozzle to Last Nozzle (ml)	Total Pipe Maximum Length								From 1st Nozzle to Last Nozzle Maximum Pipe Length							
				1/4 in.		3/8 in.		1/2 in.		3/4 in.		1/4 in.		3/8 in.		1/2 in.		3/4 in.	
				ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)	ft	(m)
PCL 160	5	1,500	600	73.1 (22.3)	40.0 (12.2)	25.0 (7.6)	—	29.2 (8.9)	16.0 (4.9)	10.0 (3)	—								
PCL 300	10	1,910	1,125	93.2 (28.4)	50.9 (15.5)	31.9 (9.7)	18.2 (5.5)	54.9 (16.7)	30.0 (9.1)	18.8 (5.7)	10.7 (3.4)								
PCL 460	14	3,400	3,000	165.9 (50.6)	90.7 (27.6)	56.9 (17.3)	32.4 (9.9)	146.3 (44.6)	80.0 (24.4)	50.2 (15.3)	28.6 (8.7)								
PCL 460	15	2,600	2,000	126.8 (38.7)	69.3 (21.1)	43.5 (13.3)	24.8 (7.6)	97.6 (29.7)	53.3 (16.3)	33.4 (10.2)	19.1 (5.8)								
PCL 600	19	4,215	1,688/side	205.6 (62.7)	112.4 (34.25)	70.5 (21.5)	40.1 (12.2)	82.3 (25.1)	45.0 (13.7)	28.2 (8.6)	16.1 (4.9)								
PCL 600	20	3,465	1,313/side	169.0 (51.5)	92.4 (28.1)	57.9 (17.6)	33.0 (10)	64.0 (19.5)	35.0 (10.7)	22.0 (6.7)	12.5 (3.8)								

Pipe Length ft (m)	Volume (ml) of Agent per Pipe Length/Size			
	1/4 in.	3/8 in.	1/2 in.	3/4 in.
1 (0.30)	20.5	37.5	59.8	105
2 (0.61)	41	75	119.6	210
3 (0.91)	61.5	112.5	179.4	315
4 (1.22)	82	150	239.2	420
5 (1.52)	102.5	187.5	299	525
6 (1.83)	123	225	358.8	630
7 (2.13)	143.5	262.5	418.6	735
8 (2.44)	164	300	478.4	840
9 (2.74)	184.5	337.5	538.2	945
10 (3.05)	205	375	598	1050
11 (3.35)	225.5	412.5	657.8	1155
12 (3.66)	246	450	717.6	1260
13 (3.96)	266.5	487.5	777.4	1365
14 (4.27)	287	525	837.2	1470
15 (4.57)	307.5	562.5	897	1575
16 (4.88)	328	600	956.8	1680
17 (5.18)	348.5	637.5	1016.6	1785
18 (5.49)	369	675	1076.4	1890
19 (5.80)	389.5	712	1136.2	1995
20 (6.10)	410	750	1196	2100

**Minimum Pipe Volumes for a Fryer, Range, and Wok**

Cylinder	Entire System	At or before appliance
PCL 160	239 ml - 1 Flow Pt	180 ml - 1 Flow Pt
PCL 300	300 ml - 4 Flow Pts	239 ml - 2 Flow Pts
PCL 460	660 ml - 10 Flow Pts	180 ml - 2 Flow Pts
PCL 600	960 ml - 14 Flow Pts	120 ml - 2 Flow Pts

**General Rules:**

- Measurements taken from fittings centerline (All SCH. 40 Pipe).
- Maximum difference in elevation from valve outlet to any nozzle is 10 ft (3.05 m).
- Largest diameter pipe must be used first and decrease in size as installation moves away from the tank.
- No traps in the piping.
- Limited up to two elbows at the nozzle.
- Elbow(s) or swivel adapters located at the nozzles do not have to be counted in the 25 elbow maximum requirement.
- Maximum of 25 elbows.
- Maximum of 5 elbows between nozzle and preceding tee.
- Maximum flows for 1/4 in. pipe = 6 flows.
- Maximum volume allowed for 1/4 in. pipe from tee to nozzle is 410 ml (20 ft or 6.10 m).

**Additional rules for PCL 600:**

- Split piping must be used with a maximum of 14 flows on a side.
- No nozzles before the split.
- Minimum 1/2 in. pipe must be used to the first split.