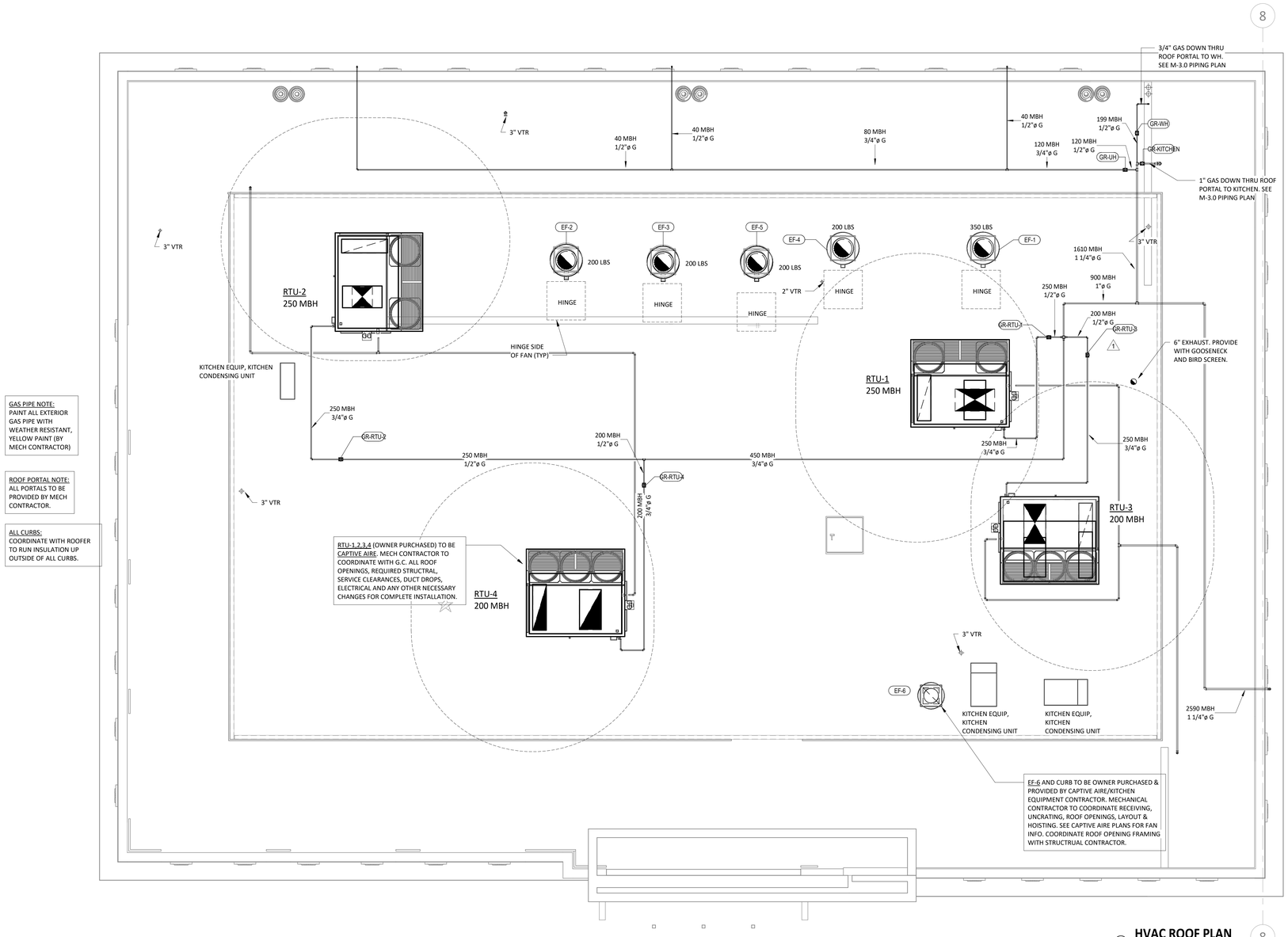
City of Stafford
PUBLIC WORKS
APPROVED



GAS PIPE NOTE:
PAINT ALL EXTERIOR GAS PIPE WITH WEATHER RESISTANT, YELLOW PAINT (BY MECH CONTRACTOR)

ROOF PORTAL NOTE:
ALL PORTALS TO BE PROVIDED BY MECH CONTRACTOR.

ALL CURBS:
COORDINATE WITH ROOFER TO RUN INSULATION UP OUTSIDE OF ALL CURBS.

GAS PIPING ON ROOF IS SIZED AT 2 PSI, 1 PSI PRESSURE DROP, AND 175' TOTAL LENGTH PER INTERNATIONAL PLUMBING CODE TABLE 402.4(5) UP STREAM OF PROVIDED REGULATORS.

GAS PIPING FROM REGULATORS TO ROOFTOP EQUIPMENT IS SIZED AT <2 PSI, 0.5" WC PRESSURE DROP, AND 10' TOTAL LENGTH PER INTERNATIONAL PLUMBING CODE TABLE 402.4(2).

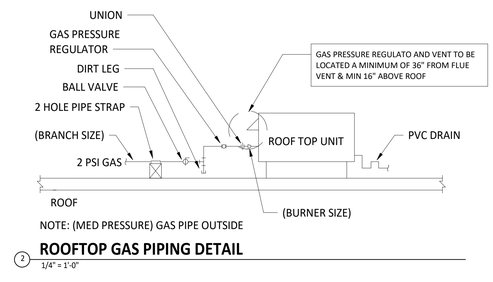
GAS PIPING FOR KITCHEN GAS EQUIPMENT IS SIZED AT <2 PSI, 0.5" WC PRESSURE DROP, AND 100' TOTAL LENGTH PER INTERNATIONAL PLUMBING CODE TABLE 402.4(2) AFTER PROVIDED GAS REGULATOR.

QTY-3 ROOF MOUNTED KITCHEN EQUIPMENT & RAILS FURNISHED & INSTALLED BY KITCHEN EQUIP CONTRACTOR. EQUIPMENT SHOWN TO COORDINATE LOCATION WITH HVAC EQUIPMENT. PORTALS FURNISHED & INSTALLED BY MECH. CONTRACTOR FINAL LOCATION BY K.E.C.

VERIFY REFRIGERATION PIPE PORTAL LOCATION WITH KITCHEN EQUIPMENT CONTRACTOR PRIOR TO INSTALLATION. PORTALS PROVIDED & INSTALLED BY M.C. (TYP-3 KITCHEN CONDENSING UNITS)

RTU FRESH AIR INTAKES: VERIFY WITH OTHER TRADES THAT ALL CONTAMINANT SOURCES INCLUDING PLUMBING VENTS, TO BE LOCATED A MIN. 10'-0" FROM ANY RTU INTAKE.

1 HVAC ROOF PLAN
1/4" = 1'-0"



2 ROOFTOP GAS PIPING DETAIL
1/4" = 1'-0"

PM DESIGN

PROJECT CONTACT:
PHONE:
EMAIL:

SEAL:

TBPE FIRM REGISTRATION
F - 8396

STATE OF TEXAS
AFSAR HASAN
102100
LICENSED
PROFESSIONAL ENGINEER

10.03.2024

CONSULTANT:

THE DIMENSION GROUP
10755 SANDHILL ROAD
DALLAS, TEXAS 75238
O: 214-343-9400
dimensiongroup.com

Portillo's HOT DOGS · BEEF · BURGERS · SALADS

PROJECT NAME:
PORTILLO'S RESTAURANT PROTOTYPE
STORE #: 23005

PROJECT ADDRESS:
US-59 FRONTAGE HWY. & NEXUS AVE
STAFFORD, TX 77477

REVISION SCHEDULE

REV.	DATE	DESCRIPTION	Issued by
1	06.12.2024	City Comments	

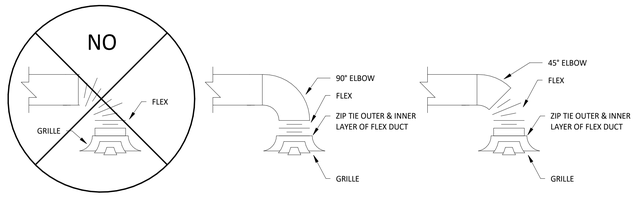
ISSUE DATE: 10.03.2024
DRAWN BY: TS
CHECKED BY: AH

PROJECT #:
PHD23001.0

SHEET TITLE:
HVAC ROOF PLAN

SHEET NUMBER:
M1-0

City of Stafford
PUBLIC WORKS
APPROVED



4 HARD ELBOW FLEX DUCT TO DIFFUSER (LAY IN CEILING)
1/4" = 1'-0"

KITCHEN HOOD/ENCLOSURES, FANS EF 1-5 & DUCTWORK SHALL BE RECEIVED UNCRATED & INSTALLED BY M.C., PROVIDED BY KITCHEN FRYER UDS FOR HOOD #2 TO BE INSTALLED BY M.C. SEE CAPTIVE AIR PLANS.

ALL KITCHEN HOODS AND ASSOCIATED ROOF FANS (EF-1, 2, 3, 4, 5) AND DUCTWORK ARE PROVIDED BY CAPTIVE AIR DIRECTLY TO OWNER. LAYOUT, ROOF OPENINGS & INSTALLATION BY MECHANICAL CONTRACTOR. COORDINATE RECEIVING WITH G.C. SEE KITCHEN PLANS FOR HOOD INFO.

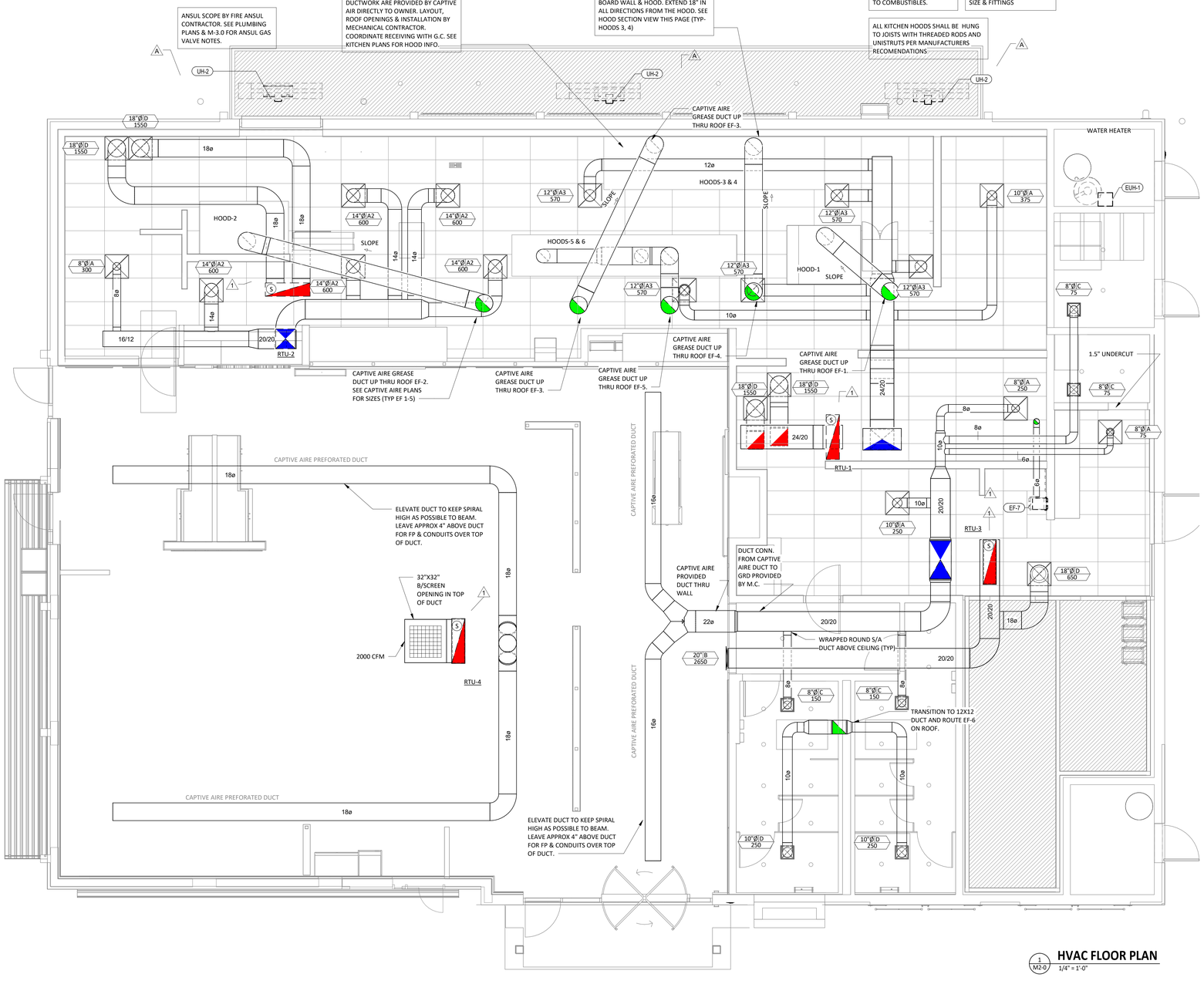
EXTEND 26 GA SHEET METAL ALONG BACK & SIDE WALL BETWEEN CEMENT BOARD WALL & HOOD. EXTEND 18" IN ALL DIRECTIONS FROM THE HOOD. SEE HOOD SECTION VIEW THIS PAGE (TYP-HOODS 3, 4)

ALL TYPE 1 HOODS TO HAVE A MIN OF 18" CLEARENCE TO COMBUSTIBLES.

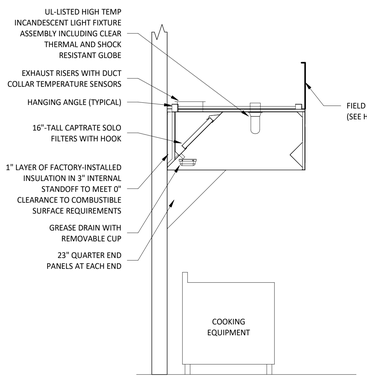
SEE CAPTIVE AIR DRAWINGS FOR HOOD DUCT ROUTING, SIZE & FITTINGS

ALL KITCHEN HOODS SHALL BE HUNG TO JOISTS WITH THREADED RODS AND UNISTRUTS PER MANUFACTURERS RECOMENDATIONS

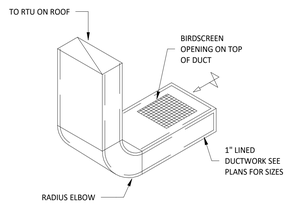
ANSUL SCOPE BY FIRE ANSUL CONTRACTOR. SEE PLUMBING PLANS & M-3.0 FOR ANSUL GAS VALVE NOTES.



1 HVAC FLOOR PLAN
M2-0 1/4" = 1'-0"



2 HOOD SECTION VIEW
1/2" = 1'-0"



3 RTU 3 R/A DUCTWORK DETAIL
1/8" = 1'-0"

PM DESIGN
PROJECT CONTACT:
PHONE:
EMAIL:

SEAL:

TBPE FIRM REGISTRATION
F - 8396
STATE OF TEXAS
AFSAR HASAN
102100
LICENSED
PROFESSIONAL ENGINEER

10.03.2024

CONSULTANT:

THE DIMENSION GROUP
10755 SANDHILL ROAD
DALLAS, TEXAS 75238
O: 214-343-9400
dimensiongroup.com

Portillo's HOT DOGS · BEEF · BURGERS · SALADS

PROJECT NAME:
PORTILLO'S RESTAURANT PROTOTYPE
STORE #: 23005

PROJECT ADDRESS:
US-59 FRONTAGE HWY. & NEXUS AVE
STAFFORD, TX 77477

REVISION SCHEDULE

REV:	DATE	DESCRIPTION	Issued by
1	10/1/2024	City Comments	
2	10/15/2024	Rev 1 - PC	

ISSUE DATE: 10.03.2024
DRAWN BY: TS
CHECKED BY: AH

PROJECT #:
PHD23001.0

SHEET TITLE:
HVAC PLAN

SHEET NUMBER:
M2-0

City of Stafford
PUBLIC WORKS
APPROVED

GAS KITCHEN EQUIPMENT SCHEDULE

ITEM #	QTY	DESCRIPTION	GAS CONN. SIZE (IN.)	LOAD (MBH)	ROUGH IN HEIGHT
25	1	BAINE MAIRE	3/4"	25 MBH	18"
32	1	TWO BURNER RANGE	3/4"	50 MBH	18"
35	1	CHARBROILER, GAS	3/4"	105 MBH	18"
39	1	PASTA COOKER, GAS	3/4"	111 MBH	18"
88	2	FRYER, GAS	3/4"	100 MBH EACH	8"
89	2	FRYER, GAS	3/4"	125 MBH EACH	8"
97	1	BROILER	3/4"	70 MBH	UNDER TABLE
100	2	FRYER, GAS	3/4"	110 MBH EACH	12"
105	13	STEAM TABLE WELL		20 MBH EACH	
			TOTAL:	1291 MBH	

SEE FOOD SERVICE DRAWINGS FOR DIMENSIONS TO ALL GAS ROUGH IN LOCATIONS

GAS SUMMARY

EQUIPMENT	MBH
KITCHEN EQUIPMENT	1291 MBH
RTU-1	250 MBH
RTU-2	250 MBH
RTU-3	200 MBH
RTU-4	200 MBH
UNIT HEATER	199 MBH
WATER HEATER	199 MBH
TOTAL:	2590 MBH

1.) CONFIRM ROUGH-IN HEIGHTS & LOCATIONS WITH KITCHEN PLANS.

2.) SEE M-5.0 FOR GAS REGULATOR SCHEDULE

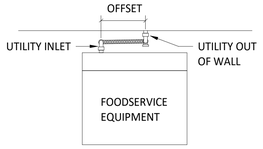
GENERAL NOTES:

HVAC CONTRACTOR SHALL FURNISH SHUT OFF VALVE AT ALL KITCHEN EQUIPMENT LOCATIONS. FLEXIBLE CONNECTOR AND FINAL CONNECTIONS ARE BY KITCHEN EQUIPMENT SCHEDULE. SEE FOOD SERVICE PLUMBING ROUGH IN DRAWINGS FOR FURTHER DETAIL.

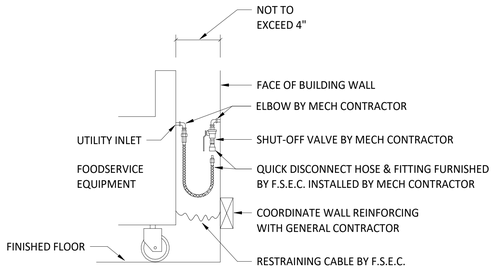
GAS PIPING PLAN DRAWING NOTES:

KITCHEN HOOD FIRE PROTECTION GSA SHUT-OFF VALVE CONTRACTOR SHALL INSTALL GAS VALVE IN ACCESSIBLE LOCATION AS REQUIRED BY CODE. ONE ELECTRONIC GAS VALVE TO BE PROVIDED BY CAPTIVE AIRE AND INSTALLED BY MECH CONTRACTOR. 120V POWER FROM CAPTIVE AIRE HOOD#3 CONTROL PANEL BY E.C.

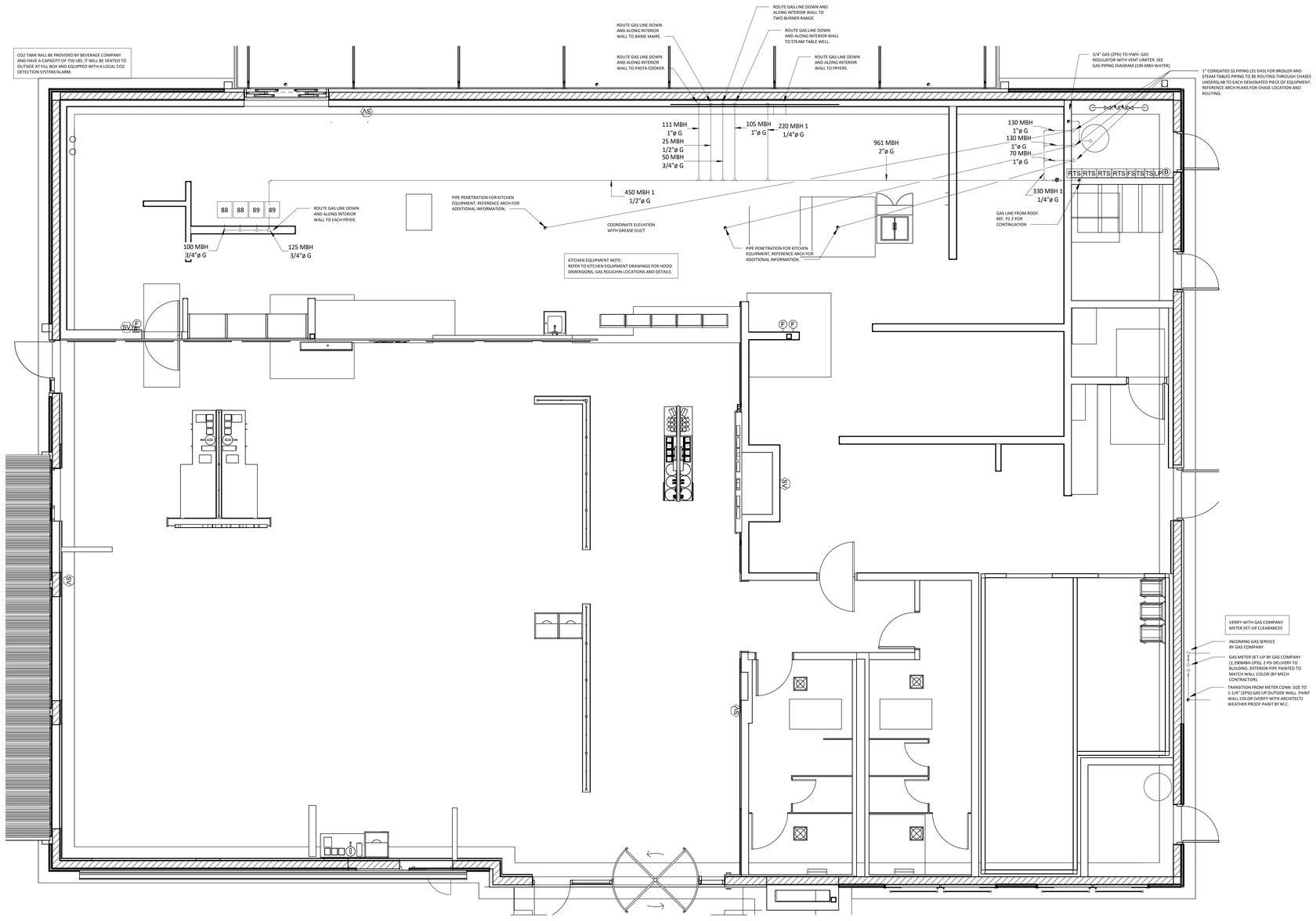
MECHANICAL CONTRACTOR TO PROVIDE A TAG ON CEILING TO DESIGNATE LOCATION OF ANSUL VALVE ABOVE CEILING GRID.



② **EQUIP GAS CONN PLAN VIEW**
1/4" = 1'-0"



③ **EQUIP GAS CONN SECTION VIEW**
1/4" = 1'-0"



① **HVAC PIPING PLAN**
1/4" = 1'-0"

PM DESIGN

PROJECT CONTACT:
PHONE:
EMAIL:

SEAL:

TBPE FIRM REGISTRATION
F - 8396
STATE OF TEXAS
AFSAR HASAN
102100
LICENSED
PROFESSIONAL ENGINEER

10.03.2024

CONSULTANT:

THE DIMENSION GROUP
10755 SANDHILL ROAD
DALLAS, TEXAS 75238
O: 214-343-9400
dimensiongroup.com

Portillo's HOT DOGS · BEEF · BURGERS · SALADS

PROJECT NAME:
PORTILLO'S RESTAURANT PROTOTYPE
STORE #: 23005

PROJECT ADDRESS:
US-59 FRONTAGE HWY. & NEXUS AVE
STAFFORD, TX 77477

REV.	DATE	DESCRIPTION	Issued by
1	08/15/2024	Rev. 1 - PC	

REVISION SCHEDULE

ISSUE DATE: 10.03.2024
DRAWN BY: TS
CHECKED BY: AH

PROJECT #:
PHD23001.0

SHEET TITLE:
HVAC PIPING PLAN

SHEET NUMBER:
M3-0