ELECTRICAL LEGEND

- RACEWAY CONCEALED IN CEILING CAVITY, SLAB, OR WALL.
- RACEWAY HOMERUN TO PANEL, ONE ARROWHEAD PER CIRCUIT.
- RACEWAY WITH 3 WIRES #12 AWG IN CONDUIT AND #12 AWG GROUNDING CONDUCTOR. NOTE: NUMBER OF CROSS HATCHES INDICATES NUMBER OF #12 AWG CONDUCTORS SHORT CROSS HATCH = PHASE CONDUCTOR. LONG CROSS HATCH NEUTRAL CONDUCTOR. DOT INDICATES GROUNDING CONDUCTOR AND SMALL HATCHES AFTER NEUTRAL CONDUCTOR REPRESENT SWITCHED CONDUCTORS. NO CROSS HATCHES INDICATES 2 #12 AWG AND #12 AWG GROUNDING CONDUCTOR.
- WALL SWITCH, SINGLE POLE, SINGLE THROW. MOUNT 48" AFF.
- WALL SWITCH, 3-WAY, SINGLE POLE, DOUBLE THROW. MOUNT 48" AFF.
- WALL VACANCY SENSOR SWITCH, SINGLE POLE, MOUNT 48" AFF.
- DISCONNECT SWITCH, SIZE/POLES/FUSE/ENCLOSURE TYPE IF OTHER THAN NEMA 3R. MOUNT 48" AFF. "NF" INDICATES NON-FUSED TYPE (30/3/20/3R).
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE - BOTTOM HALF SWITCHED
- DUPLEX RECEPTACLE - FLOOR MOUNTED
- RECEPTACLE - 220V
- DUPLEX RECEPTACLE - GROUND FAULT INTERRUPT
- DUPLEX RECEPTACLE - WEATHER PROOF AND GROUND FAULT INTERRUPT
- SMOKE DETECTOR - WIRED IN SERIES
- CARBON MONOXIDE DETECTOR
- COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR.
- EXHAUST FAN MOTOR
- EXHAUST FAN MOTOR WITH LIGHT
- JUNCTION BOX, ABOVE CEILING.
- JUNCTION BOX, WALL-MOUNTED.
- PANELBOARD, SURFACE-MOUNTED MOUNT AT 6'-0" TO TOP.
- UTILITY SERVICE METER
- DOOR BELL PUSH BUTTON.
- DOOR BELL.
- CEILING FAN 1 PHASE, 120 VOLT, SINGLE POLE, 60HZ.

GENERAL

A. ALL ELECTRICAL WORK SHALL CONFORM TO NEC 2017 AND VIRGINIA RULES AND REGULATION.
B. ALL EQUIPMENT SHALL BE NEW AND UL. APPROVED.
C. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. SIZE AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS. FINAL LOCATIONS OF OUTLETS AND EQUIPMENT SHALL BE SHOWN IN ENLARGED DETAILS OR AS APPROVED BY THE ARCHITECT OR HIS REPRESENTATIVE.
D. IT IS NOT WITHIN THE SCOPE OF DRAWINGS TO SHOW ALL THE NECESSARY BENDS, OFFSETS, PULLBOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE, MAINTAIN HEAD-ROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
E. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND SHALL COMPARE THE DRAWINGS WITH EXISTING ELECTRICAL INSTALLATIONS, AND SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS WITHIN THE SCOPE OF HIS WORK. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL HAVE DEEMED TO HAVE MADE SUCH EXAMINATION AND TO HAVE ACCEPTED SUCH CONDITIONS AND TO HAVE MADE ALLOWANCE THEREFORE.
F. IN PREPARING HIS BID, CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ALL TRADES AND ELECTRICAL REFERENCES ON ARCHITECTURAL DRAWINGS.
G. VERIFY LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND INTERIOR DETAILS AND FINISHES. IN CENTERING OUTLETS AND LOCATING BOXES AND OUTLETS, ALLOW FOR OVERHEAD PIPES, DUCTS, AND MECHANICAL EQUIPMENT, VARIATIONS IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIM, PANELING, HUNG CEILINGS AND THE LIKE, AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT EXPENSE TO OWNER.
H. FURNISH AND INSTALL WIRING FOR EQUIPMENT FURNISHED BY OTHERS, AS SHOWN ON DRAWINGS. COORDINATE WITH OTHER TRADES OR DETAILS FOR INSTALLATION. THE TERM "WIRING", AS USED HEREIN, INCLUDES FURNISHING AND INSTALLING CONDUIT, WIRE JUNCTION BOXES, DISCONNECTS AND MAKING CONNECTIONS, BE RESPONSIBLE FOR PROPER WIRING AND NECESSARY ELECTRICAL ADJUSTMENTS TO EQUIPMENT TO CONFORM TO SPECIFIED REQUIREMENTS OF THE EQUIPMENT.
I. SECURE AND PAY ALL PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK.
J. THE CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF THE EXISTING CONSTRUCTION WORK WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP, AND FINISH AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.
K. AFTER COMPLETION OF WORK UNDER THIS SECTION, CLEAN UP RESULTANT DEBRIS FROM THIS WORK AND REMOVE FROM THE SITE.
L. CODE REQUIREMENTS ARE MINIMUM AND SHALL BE COMPLIED WITH AT NO ADDITIONAL COST TO THE OWNER. WHERE REQUIREMENTS OF THESE DRAWINGS EXCEED CODE REQUIREMENTS, WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE DRAWINGS.
M. DEVIATION FROM MATERIALS, METHODS AND PROCEDURES SET FORTH HEREIN MUST BE APPROVED IN WRITING. APPROVAL WILL NOT BE GIVEN UNLESS THE PROPOSED SYSTEM IS EQUAL IN PERFORMANCE, DURABILITY LONGEVITY, AND RELIABILITY TO THAT SPECIFIED.

LIGHTING FIXTURES

A. INSTALL LIGHTING FIXTURES AS SHOWN ON THE ELECTRICAL DRAWINGS. VERIFY EXACT LOCATIONS OF FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLANS. COORDINATE FIXTURE HOUSINGS AND TRIMS WITH CEILING TYPE. PROVIDE REQUIRED ACCESSORIES FOR CEILING TYPES.
B. ALL RECESSED LIGHTING FIXTURES SHALL BE LED.
C. ALL BULBS ARE DIMMABLE LED.
D. NUMBER OF BULBS DETERMINED BY FIXTURE CHOSEN BY CUSTOMER.
E. IC-RATED RECESSED LIGHT FIXTURES SHALL BE SEALED AT HOUSING/INTERIOR FINISH AND LABELED TO INDICATE
F. 2.0 CFM LEAKAGE AT 75# PA. (2018 VA ENERGY CODE) 75# LAMPS IN PERMANENT FIXTURES OR 75# PERMANENT FIXTURES SHALL BE USE HIGH EFFIC LAMPS. (2018 VA ENERGY CODE)

DISTRIBUTION EQUIPMENT

A. ALL PANELBOARDS SHALL BE ENCLOSED TYPE, FLUSH OR SURFACE MOUNTED AS REQUIRED, IN STEEL CABINETS CODE GAUGE, WITH STEEL TRIM CONCEALED HINGES, DOORS AND FLUSH TYPE LOCKS. MANUFACTURER SHALL BE SQUARE D, CUTLER HAMMER, GE, ITE, OR APPROVED EQUIVALENT.
B. ALL BUSSES, INCLUDING NEUTRAL AND GROUND BUS, SHALL BE MINIMUM 98% CONDUCTIVITY, HARD DRAWN COPPER, SILVER OR TIN-PLATED JOINTS, AND SIZED ON THE BASIS OF 1000 AMPERES PER SQUARE INCH CROSS-SECTIONAL AREA. BUSSES SHALL BE ARRANGED FOR SEQUENCING PHASING. EXCEPTION: ALUMINUM BUSSING IS PERMITTED FOR RESIDENTIAL LOAD CENTER PANELBOARDS.
C. PANELBOARDS SHALL BE EQUIPPED WITH PLUG-ON MOLDED CASE CIRCUIT BREAKERS OF THE TYPE, NUMBER OF POLES, TRIP SIZES, AS SHOWN IN DRAWINGS AND INTERRUPTING CAPACITY AS PER BUILDING REQUIREMENTS. EXCEPTION:RESIDENTIAL UNITS SHALL BE EQUIPPED WITH PLUG-IN TYPE MOLDED CASE CIRCUIT BREAKERS F THE TYPE, NUMBER OF POLES, TRIP SIZES, AS SHOWN IN DRAWINGS AND INTERRUPTING CAPACITY AS PER BUILDING REQUIREMENTS. GROUP AND LACE ALL CONDUCTORS WITHIN PANEL ENCLOSURE DO NOT SPLICE CONDUCTORS WITHIN PANEL ENCLOSURE.
D. SEAL EXISTING PANEL KNOCKOUTS NOT RE-USED.
E. DISCONNECT SWITCHES SHALL BE SQUARE-D CLASS 3110 TYPE FUSED OR NON-FUSED, OR APPROVED EQUIVALENT.

DEVICES

DUPLEX RECEPTACLES FOR WALL AND FLOOR CONVENIENCE OUTLETS SHALL BE 2 POLE, 3 WIRE, GROUNDED, 15 AMPERE, NEMA CONFIGURATION 5-20R, COLOR BY ARCHITECT.
ALL RECEPTACLES SHALL BE TAMPER RESISTANT.

DUPLEX GFI RECEPTACLE SHALL BE 2 POLE, 3 WIRE, GROUNDED, 20 AMPERE, NEMA CONFIGURATION 5-20R, COLOR BY ARCHITECT.

SINGLE POLE SWITCHES AND 3-WAY SWITCHES SHALL BE SPECIFIGSATION GRADE. COLOR BY ARCHITECT. DEVICE SHALL BE MOUNTED UNDER COMMON COVERPLATE WHERE MULTIPLE DEVICES ARE INDICATED.
AC-DC SMOKE AND CARBON MONOXIDE DETECTOR SHOULD BE INSTALLED ACCORDING TO NFPA 72.
AC/BATTERY: THESE SHOULD CONFORM TO THE NFPA 72, SECTION 24.6 ALARMS HAVE TWO POWER SUPPLIES 120- VOLT AC FOR THE PRIMARY SOURCE OF POWER AND BATTERY BACKUP FOR THE SECONDARY SOURCE.

CONDUCTORS

A. ALL BRANCH CIRCUIT CONDUCTOR'S SHALL BE COPPER UNLESS OTHERWISE NOTED. ALL #8 AWG WIRE AND LARGER SHALL BE STRANDED.
B. ALL #10 AWG WIRE AND SMALLER SHALL BE SOLID.
C. VOLTAGE RATING OF INSULATION SHALL BE 600 VOLTS.
D. FACTORY COLOR CODING FOR WIRE AND CABLE SHALL BE AS FOLLOWS: 120/208V - BLACK, RED, BLUE AND WHITE, FOR PHASES A, B AND NEUTRAL,RESPECTIVELY. GROUND WIRES SHALL BE GREEN.
E. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS.
F. LIGHTING AND POWER WIRING FOR CIRCUITS LESS THAN 100 FEET SHALL BE #12 AWG, UNLESS NOTED. WIRE SIZES SHALL BE #10 FOR CIRCUITS GREATER THAN 100 FEET.

NONMETALLIC CABLE (NM):

A. TYPE NM CABLE SHALL BE PERMITTED PER NFPA-70 ARTICLE 334.10. ALL OTHER LOCATIONS SHALL USE TYPE MC AS A SUBSTITUTE FOR CONDUIT.

OUTLET JUNCTION AND PULL BOXES

A. ALL OUTLET BOXES SHALL BE PLASTIC RATED FOR RESIDENTIAL USE.
B. OUTLET BOXES FOR RECEPTACLES AND SWITCHES IN DRY WALL PARTITION SHALL BE 4" SQUARE, BY 1-1/2" MINIMUM DEPTH AND SHALL BE FITTED WITH DEVICE COVERS AND DEPTH EQUAL TO THE DRY WALL THICKNESS.
C. SECTIONAL BOXES ARE NOT ACCEPTABLE.
D. SET BOXES SQUARE AND TRUE WITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING.
E. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS INSTALL SWITCH, IN SIDE OPPOSITE HINGE, VERIFY FINAL DOOR HINGE LOCATION IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
F. LOCATION INDICATED FOR LOCAL WALL SWITCHES, CONTROLLERS, EMERGENCY PUSH BUTTONS, RECEPTACLE, ETC. ARE SUBJECT TO MODIFICATIONS.
G. HEIGHTS OF OUTLET FROM FINISHED FLOOR TO CENTERLINE OF OUTLETS, AS PER ELECTRICAL DRAWINGS. EXCEPTIONS: AT JUNCTION OF DIFFERENT WALL MATERIALS, MOLDING OR BREAK IN WALL SURFACE IN VIOLATION OF CODE REQUIREMENTS.

GROUNDING

A. GROUND ALL CONDUITS, CABINETS, MOTORS, PANELS, AND OTHER EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT IN ACCORDANCE WITH ALL PROVISIONS OF THE NATIONAL ELECTRICAL CODE, OR LOCAL CODES THAT MAY APPLY.

SLEEVES

A. ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR PARTITIONS SHALL BE SEALED TO PREVENT THE SPREAD OF SMOKE AND FIRE THROUGH THEM. THE FIRE RATING OF THE PENETRATION SEAL SHALL BE AT LEAST THAT OF THE FLOOR OR WALL INTO WHICH IT IS INSTALLED BY ARTICLE #300-21 OF THE NATIONAL ELECTRICAL CODE.
B. THE FOAM SEALANT SHALL MEET ALL OF THE FIRE TEST AND HOSE STREAM TEST REQUIREMENTS OF ASTM E-119-73 AND SHALL BE U.L. CLASSIFIED AS A WALL OPENING PROTECTIVE DEVICE, AS MANUFACTURED BY CHASE TECHNOLOGY CORPORATION, OR APPROVED EQUIVALENT.

HVAC CONTROLS

A. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL CONTROL WIRING INCLUDING CONDUITS, RELAYS, TIME CLOCK, CONTROL TRANSFORMERS, ETC., FOR ALL HVAC EQUIPMENT, UNLESS OTHERWISE NOTED.
B. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ONLY POWER WIRING WITH DISCONNECTS, AS SHOWN IN ELECTRICAL DRAWINGS.

TEST AND GUARANTEES

A. UPON COMPLETION OF ALL ELECTRICAL WORK, CONTRACTOR SHALL TEST FOR GROUNDS AND SHORTS, TO ENSURE PROPER OPERATION OF ELECTRICAL EQUIPMENT.
B. GUARANTEE FOR TWO YEARS AFTER FINAL ACCEPTANCE BY OWNER OF ALL WORKMANSHIP AND MATERIALS FURNISHED.
C. SMOKE DETECTOR TEST SHOULD BE DONE IN ACCORDANCE WITH NFPA-72.

ELECTRICAL ABBREVIATIONS

AIC	AMPERES INTERUPTING CURRENT
AFF/ARF	ABOVE FINISHED FLOOR/ ABOVE RAISED FLOOR
ARCH	ARCHITECT/ARCHITECTURAL
AT	AMPERE TRIP
AF	AMPERE FRAME
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
EC	EMPTY CONDUIT
EMT	ELECTRICAL METALLIC TUBING
EX	EXISTING
F	FUSED
FFL	FINISHED FLOOR
FLR	FLOOR
G	GROUND
GF	GROUND FAULT CIRCUIT INTERUPTER
HID	HIGH INTENSITY DISCHARGE
J, JB	JUNCTION BOX
kcmil	THOUSAND CIRCULAR MILLS
MC	METAL-CLAD CABLE
MCB	MAIN CIRCUIT BREAKER
MH	METAL HALIDE
MLO	MAIN LUG ONLY
NF	NONFUSIBLE
PH	PHASE
PVC	POLYVINYL CHLORIDE CONDUIT
RECP	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
SYM	SYMMETRICAL
TEL	TELEPHONE
V	VOLT
VA	VOLT-AMPERE
W	WIRE OR WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER
CLG	CEILING GROUND FAULT CIRCUIT INTERRUPTER(GFCI).
A-X	A IS THE NAME OF ELECTRICAL PANEL BOARD AND X IS THE NUMBER OF CIRCUIT.

LIGHTING FIXTURE SCHEDULE

SYMBOL	FIXTURE DESCRIPTION	MOUNTING	VOLTS	INPUT WATTS	MANUFACTURER	PART #	ITEM #	REMARK
D	5.5" LED DOWNLIGHT, WHITE PAINTED FLANGE, 0-10V DIMMING, 65 DEG BEAM SPREAD	RECESS CEILING	120	12.5	PROGRESS LIGHTING FIXTURES	--	P810007-028-30K	OR EQUIVALENT APPROVED BY OWNER
K	KEYLESS CEILING MOUNTED EXPOSED LED BULB	SURFACE CEILING	120	17	SPECIFIED BY OWNER FIXTURE ALLOWANCE	--	--	OR EQUIVALENT APPROVED BY OWNER
	EXTERIOR WALL MOUNT LED BULB	SURFACE WALL	120	17	PROGRESS LIGHTING FIXTURES	L0434623	P5674-31	OR EQUIVALENT APPROVED BY OWNER
	CLOSE TO CEILING, BOWL GLASS, LED LAMPS	SURFACE WALL	120	30	PROGRESS LIGHTING FIXTURES	L0478474	P300160-009	OR EQUIVALENT APPROVED BY OWNER
P	PENDANT FIXTURE, LED LAMPS	SURFACE CEILING	120	100	PROGRESS LIGHTING FIXTURES	L478483	P500125-009	OR EQUIVALENT APPROVED BY OWNER
	LIGHT FIXTURE - UNDER CABINET LED LIGHT	SURFACE CEILING	120	7	PROGRESS LIGHTING FIXTURES	L0368834	P100000-028-30	OR EQUIVALENT APPROVED BY OWNER

1. ALL BULBS DIMMABLE LED. LUMINARIES SHALL BE SUPPORTED IN ACCORDANCE WITH NEC ARTICLE 410.
2. SPECIFIED LIGHT FIXTURES SHALL BE USED AS A BASIS OF DESIGN. ARCHITECT/OWNER SHALL APPROVE EXACT LIGHTING FIXTURE PACKAGE PRIOR TO BID SUBMITTAL.
3. RECESSED FIXTURES INSTALLED WITHIN FIRE RATED CEILINGS SHALL BE A UL RATED FIRE RATED HOUSING OR PROVIDED WITH FIRE RATED TENTING ASSEMBLY AROUND PERIMETER OF HOUSING. COORDINATE WITH ARCHITECTURAL FOR RATED CEILING AREAS.
4. ALL NEW LED LUMINARIES SHALL BE EQUIPPED WITH ENERGY SAVING DRIVERS.

ELECTRICAL DRAWING LIST

DRAWING	TITLE
E000	ELECTRICAL GENERAL NOTES, SYMBOLS, & ABBREVIATIONS
E100	ELECTRICAL BASEMENT FLOOR PLAN
E101	ELECTRICAL FIRST FLOOR PLAN
E102	ELECTRICAL SECOND FLOOR PLAN
E500	ELECTRICAL GROUNDING DETAILS
E600	ELECTRICAL PANEL SCHEDULE

ENGINEER'S TEAM
430 E 8TH ST STE 8017
HOLLAND MI 49423
SUPPORT@ENGRTEAM.COM
ENGRTEAM.COM

PROJECT:
NEW DIX RESTAURANT PLANS

2212 SOUTH CLAIBORNE AVENUE NEW ORLEANS, LOUVISIANA 70125

For City Stamps:

Project No:
Drawn by:
Date: 7/24/25
Sheet Name: GENERAL NOTE FOR ELECTRICAL PLAN

Drawing Number: E000

Npote:
This Electrical Layout Plan complies with the latest codes and standards for New Orleans, Louisiana, including:

National Electrical Code (NEC) 2023 – Primary electrical safety and installation standards.

Louisiana State Electrical Code – Amendments and local regulations.

NFPA 70B – Maintenance and inspection requirements.

City of New Orleans Electrical Permit Requirements – Local permitting and inspection protocols.

Key Design Parameters:

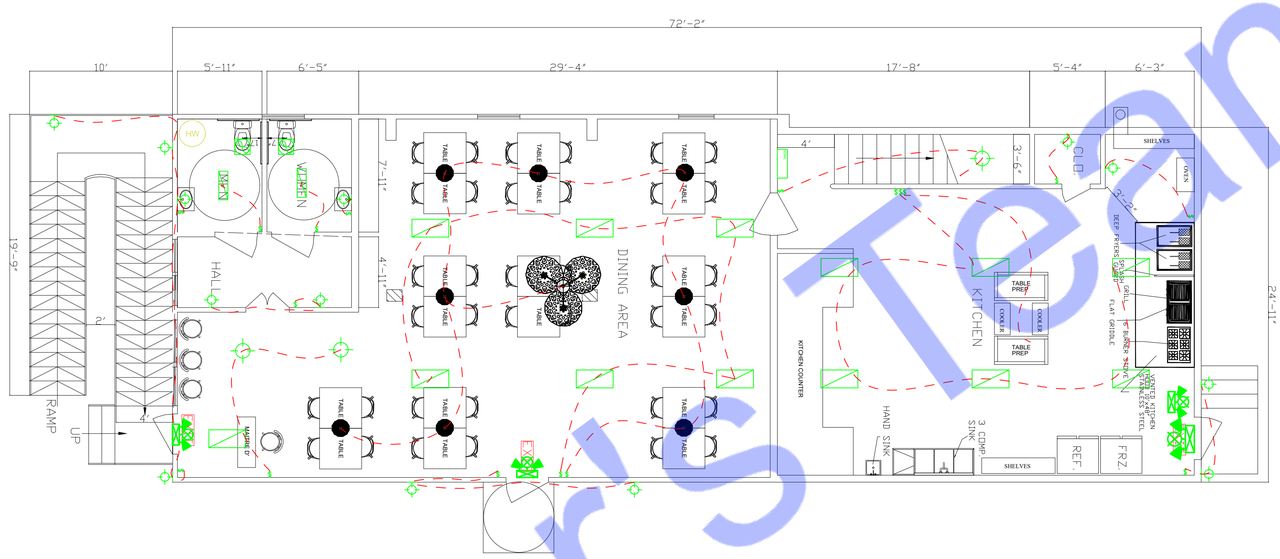
Main Panel:
Voltage: 208V, 3-Phase
Main Breaker: 200A MCCB (10k AIC)
Connected Load: 56,581W
Demand Load: 47,819W (157A)

Sub Panel:
Voltage: 120/208V, 1-Phase
Main Breaker: 100A MCCB
Connected Load: 7,055W
Demand Load: 6,780W (58.8A)

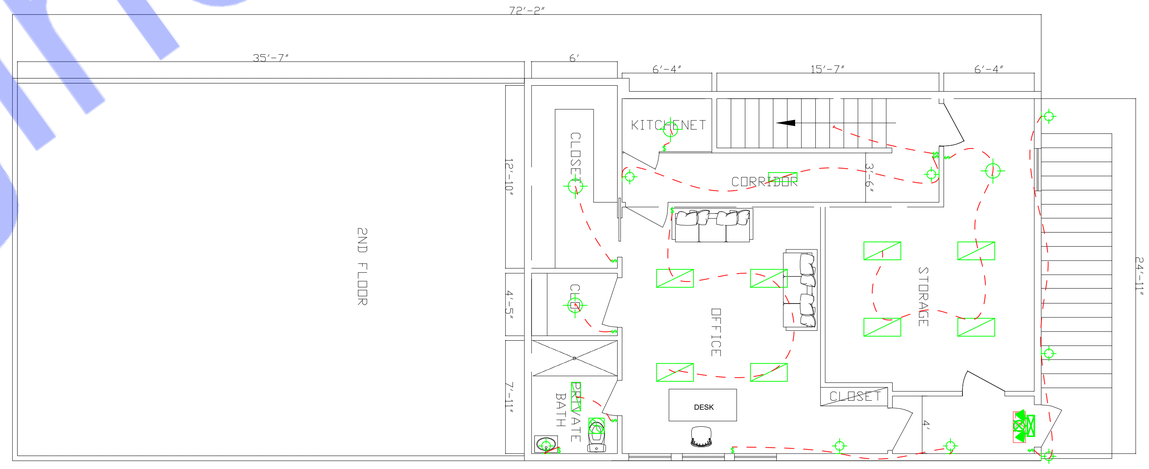
Product Approvals (Louisiana, USA):
All equipment and materials meet:
UL Listing (U.S.)

NEMA Certification (for panels and breakers).

1 NEW 1st. FLOOR PLAN
1/4" = 1'-0"



2 NEW 2nd. FLOOR PLAN
1/4" = 1'-0"



ELECTRICAL LEGEND

- 20W CEILING MOUNT LED LIGHT
- 20W HANGING LED LIGHT
- SMOKE DETECTOR
- 20W LED TUBE LIGHT 1'x4'
- 40W LED LIGHT 2'X4'
- ONE WAY SWITCH 220V
- TWO WAY SWITCH 220V
- MULTI SOCKET OUTLET 220V
- 10W WALL MOUNTED LED LIGHT
- 60W CEILING FAN 220V
- SUB DISTRIBUTION BOARD
- MAIN DISTRIBUTION BOARD
- 40W BATHROOM EXHAUST FAN
- CALLING BELL
- EXIT LIGHT WITH EXIT TEXT & EMERGENCY LIGHT

ENGINEER'S TEAM
430 E 8TH ST STE 8017
HOLLAND MI 49423
ENGRTEAM.COM
SUPPORT@ENGRTEAM.COM

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For City Stamps:

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Date: 7/24/25
Sheet Name:
ELECTRICAL LIGHTING PLAN

Drawing Number:
E001

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430 E 8TH ST STE 8017
HOLLAND MI 49423
SUPPORT@ENGRTEAM.COM
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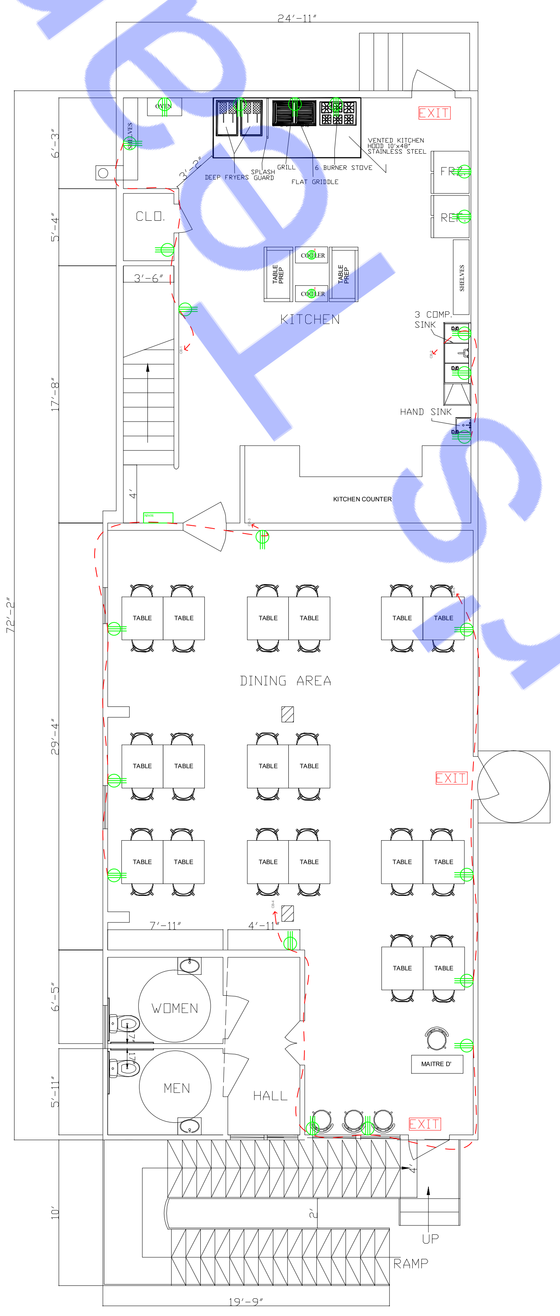
PROJECT:
NEW DIX RESTAURANT PLANS
2212 SOUTH CLAIBORNE AVENUE NEW ORLEANS, LOUVISIANA 70125

For City Stamps:

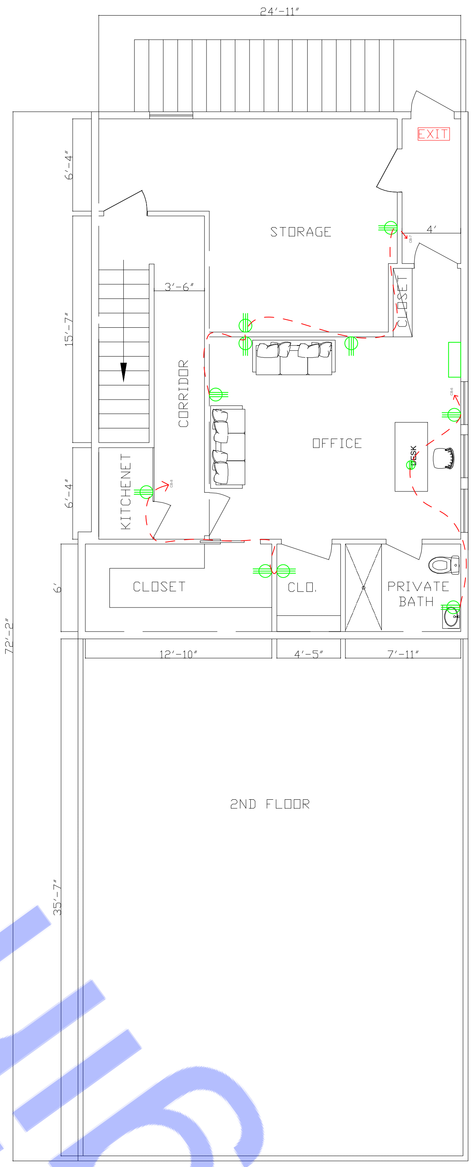
Project No:
Drawn by:
Date: 7/24/25
Sheet Name: ELECTRICAL POWER PLAN

Drawing Number: E002

ELECTRICAL LEGEND	
MULTI SOCKET OUTLET 120V	
GFCI SOCKET OUTLET 120V	GFCI
GFCI WEATHER PROOF SOCKET OUTLET 120V	WP GFCI
SUB DISTRIBUTION BOARD	SUB
MAIN DISTRIBUTION BOARD	MAIN
ELECTRIC WIRE	
FLOOR MULTI SOCKET OUTLET 120V	



1 NEW 1st. FLOOR PLAN
1/4" = 1'-0"



2 NEW 2nd. FLOOR PLAN
1/4" = 1'-0"

MAIN DISTRIBUTION BOARD

Panel Location-

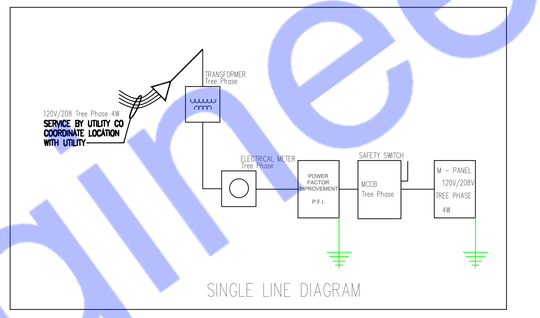
Voltage (Phase-Ground/Phase-Phase)	120	208	Source of Supply-From Service Disconnect/Meter
Phase- 3			Wire- 5
Rated Amps- 157			AIC- 10k
MCCB 3-Phase 200 Amps MCCB			Mounting- Wall Surface

Circuit	Description	New/ Existing	Load Type	Breaker Size	Poles	Wire Size	A		B		C		Wire Size	Poles	Breaker Size	Load Type	New/ Existing	Description	Circuit
1	LIGHTING LOAD	N		15	1	#14	1850	2000					#12	1	20		N	WATER HEATER	2
3	DEEP FRYER	N		20	1	#12			2000	3000			#10	1	30		N	GRILL	4
5	DEEP FRYER 2	N	--	20	1	#12					2000	800	#12	1	20		N	FREEZE 1	6
7	COOLER 1	N		20	1	#12	1200	800					#12	1	20		N	FREEZE 2	8
9	COOLER 2	N		20	1	#12			1200	2500			#10	1	25		N	OVEN	10
11	CB-1	N		20	1	#12					300	400	#12	1	20		N	CB-2	12
13	CB-3	N		20	1	#12	400	400					#12	1	20		N	CB-4	14
15	CB-5	N		20	1	#12			300	26376			#3/0 1		220		N	HVAC	16
17	SUB DIS. BOARD	N	--	60	1	#3					7055	4000	#8	1	35		N	FLAT GRIDDLE	18
19	SPARE	--	--	--	--	--	0	0					--	--	--	--	--	SPARE	20

	A	B	C	Total
Connected Load (W)	6650	35376	14555	56581
Divided by 3-phase multiplayer (1.732) and line to line voltage 208 V		157		
Connected Amps		157		
Main Type and Amps Rating		3-Phase 200 Amps MCCB		

Demand Load Calcultion

Load Classification	Connected Load	Demand Factor	Estimated Demand
Lighting - Dwelling Unit	1850	125%	2312.5
Water Heater - Dwelling Unit	2000	100%	2000
Receptacle	26355	65%	17130.75
Cooling	26376	100%	26376
Pump	0	125%	0
Other	0	100%	0
Demand Load	56581		47819.25
Demand Amps			133



SINGLE LINE DIAGRAM

SUB DISTRIBUTION BOARD

Panel Location-

Voltage (Phase-Ground/Phase-Phase)	120	208	Source of Supply-From Service Disconnect/Meter
Phase- 1			Wire- 3
Rated Amps- 58.79166667			AIC- 10k
MCCB MCCB 100 A			Mounting- Wall Surface

Circuit	Description	New/ Existing	Load Type	Breaker Size	Poles	Wire Size	A		Wire Size	Poles	Breaker Size	Load Type	New/ Existing	Description	Circuit
1	LIGHITING LOAD	N		15	1	#12	580	500	#12	1	20		N	CB-7	2
3	CB-6	N		20	1	#12	400	5275	#06	1	45		N	HAVC 2	4
5	CB-8	N		20	1	#12	300	0	--	--	--		--	SPARE	6
7	SPARE	--	--	--		--	0	0	--	--	--		--	SPARE	8
9	SPARE	--	--	--		--	0	0	--	--	--		--	SPARE	10

	A
Connected Load (W)	7055
Divided by 3-phase multiplayer (1.732) and line to line voltage 208 V	58.79166667
Connected Amps	58.79166667
Main Type and Amps Rating	MCCB 100 A

Demand Load Calcultion

Load Classification	Connected Load	Demand Factor	Estimated Demand
Lighting - Dwelling Unit	580	125%	725
Water Heater - Dwelling Unit	0	100%	0
Receptacle	1200	65%	780
Cooling	5275	100%	5275
Pump	0	125%	0
Other	0	100%	0
Demand Load	7055		6780
Demand Amps			19

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For City Stamps:

Project No:
Drawn by:
Date: 7/24/25
Sheet Name:
ELECTRICAL LOAD SCHEDULE & SLD

Drawing Number:
E003

GENERAL NOTES:

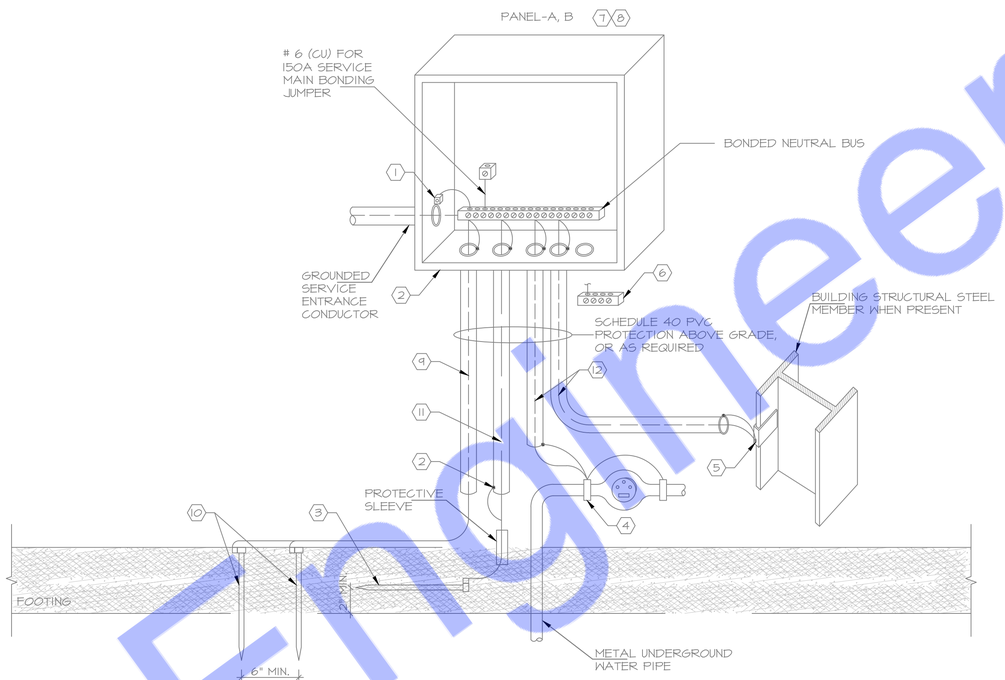
1. A LISTED INTERSYSTEM BONDING TERMINATION PROVIDING THE REQUIRED NUMBER OF TERMINALS (MINIMUM OF THREE) FOR CONNECTING OTHER BUILDING SYSTEMS TO THE GROUNDING SYSTEM OF THE ELECTRICAL POWER SUPPLY (NEC250.94).

KEY NOTES: (#)

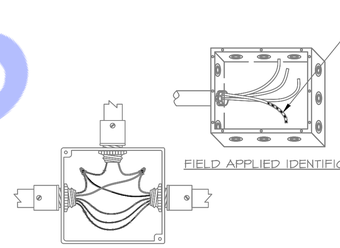
1. ALL METAL CONDUITS ENCLOSING ANY SERVICE SHALL BE FITTED WITH A "BONDING BUSHING".
2. ALL METAL CONDUITS ENCLOSING ANY GROUNDING ELECTRODE CONDUCTOR SHALL BE FITTED WITH A "BONDING BUSHING" AT EACH END.
3. PROVIDE GROUNDING ELECTRODE PER NEC. ELECTRODE SHALL BE IN THE FORM OF A 20'-0" x 1/2" COPPER CLAD GROUND ROD LAID AT LEAST 2" OFF THE BOTTOM OF A CONCRETE FOOTING. SECURE THE GROUND ROD TO THE REBAR WITH STEEL TIE WRAPS. IF THE REBAR BEING USED IN THE FOOTING IS SMALLER THAN 1/2" (#4), THEN USE 20' OF BARE SOLID #4 COPPER WIRE IN PLACE OF THE GROUND ROD. IN REMODEL PROJECTS THAT WILL NOT HAVE NEW FOOTINGS INSTALLED, THIS SUPPLEMENTAL ELECTRODE SHALL BE PER NOTE #4 BELOW OR OTHER ELECTRODE PER NEC 250.52.
4. FOR CONNECTION TO COLD WATER MAIN. CONNECT WITHIN 5 FT. OF CONTACT OF EARTH.
5. IF STRUCTURAL STEEL MEMBER OR REBARS ARE AVAILABLE, BOND IT TO THE SERVICE USING A UL LISTED IRREVERSIBLE CLAMP OR WELDING LUG.
6. PROVIDE A INTERSYSTEM BONDING TERMINATION PER NEC 250.94.

INTERSYSTEM BONDING TERMINATION SHALL:
6.1. BE ACCESSIBLE FOR CONNECTION AND INSPECTION.
6.2. CONSIST OF A SET OF TERMINALS (LISTED AS GROUNDING AND BONDING EQUIPMENT) WITH THE CAPACITY OF NOT LESS THAN THREE INTERSYSTEM BONDING CONDUCTORS.
6.3. BE SECURELY MOUNTED AND ELECTRICALLY CONNECTED TO SERVICE EQUIPMENT, METER ENCLOSURE, OR EXPOSED NON METALLIC SERVICE RACEWAY, OR BE MOUNTED ON ONE OF THESE ENCLOSURES AND BE CONNECTED TO THE ENCLOSURE OR GROUNDING ELECTRODE CONDUCTOR WITH A MINIMUM #6 CU CONDUCTOR.
6.4. BE SECURELY MOUNTED TO THE BUILDING'S DISCONNECTING MEANS, OR BE MOUNTED AT THE DISCONNECTING MEANS AND BE CONNECTED TO THE METALLIC ENCLOSURE OR GROUNDING ELECTRODE CONDUCTOR WITH A MINIMUM #6 CU CONDUCTOR.

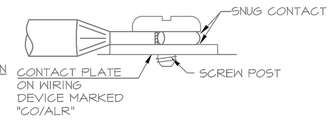
7. ALL BRANCH CIRCUIT AND FEEDER CONDUITS ARE TO HAVE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR REGARDLESS OF THE CONDUIT MATERIAL.
8. WHEN THE SERVICE CONSISTS OF MULTIPLE DISCONNECTING MEANS IN SEPARATE ENCLOSURES, CONNECT A TAP CONDUCTOR FROM THE MAIN GROUNDING ELECTRODE CONDUCTOR TO EACH DISCONNECTING MEANS. SIZE THIS TAP BASED ON THE LARGEST SERVICE CONDUCTOR IN THAT SERVICE DISCONNECT ENCLOSURE.
9. #6 COPPER GROUNDING ELECTRODE CONDUCTOR.
10. INSTALL #6 CU TO TWO 5/8"x 8' MIN. GROUND RODS AS SHOWN.
11. #4 COPPER GROUNDING ELECTRODE CONDUCTOR.
12. COPPER GROUNDING ELECTRODE CONDUCTOR. PROVIDE #6 COPPER.



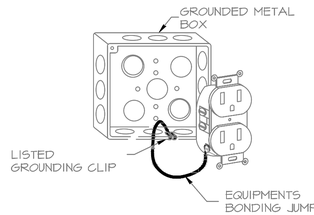
1 E500 GROUNDING ELECTRODE SYSTEM DIAGRAM
SCALE: NOT TO SCALE



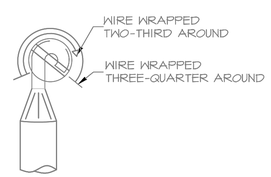
TYPICAL CONNECTION OF WIRES IN JUNCTION BOX



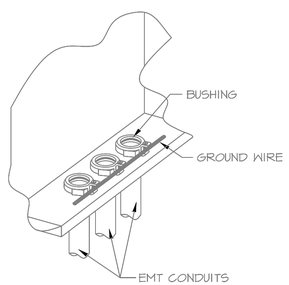
TIGHTEN SCREW TO FULL CONTACT



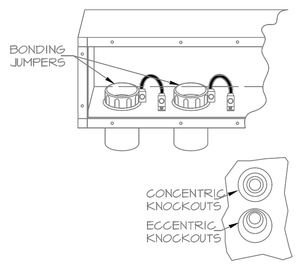
OUTLET BACK BOX & JUNCTION BOX



STRIP INSULATION AND WRAP WIRE



BONDING THE KNOCKOUTS



GROUNDING INSULATION THE BUSHING

2 E500 BOUNDING DETAILS
SCALE: NOT TO SCALE

ENGINEER'S TEAM
430 E 8TH ST STE 8017
HOLLAND MI 49423
SUPPORT@ENGRTEAM.COM
ENGRTEAM.COM

PROJECT:
NEW DIX RESTAURANT PLANS

2212 SOUTH CLAIBORNE AVENUE NEW ORLEANS, LOUVISIANA 70125

For City Stamps:

Project No:
Drawn by:
Date: 7/24/25
Sheet Name:
ELECTRICAL INSTALLATION

Drawing Number:
E003

ENGINEER'S TEAM
430 E 8TH ST STE 8017
HOLLAND MI 49423
SUPPORT@ENGRTEAM.COM
ENGRTEAM.COM

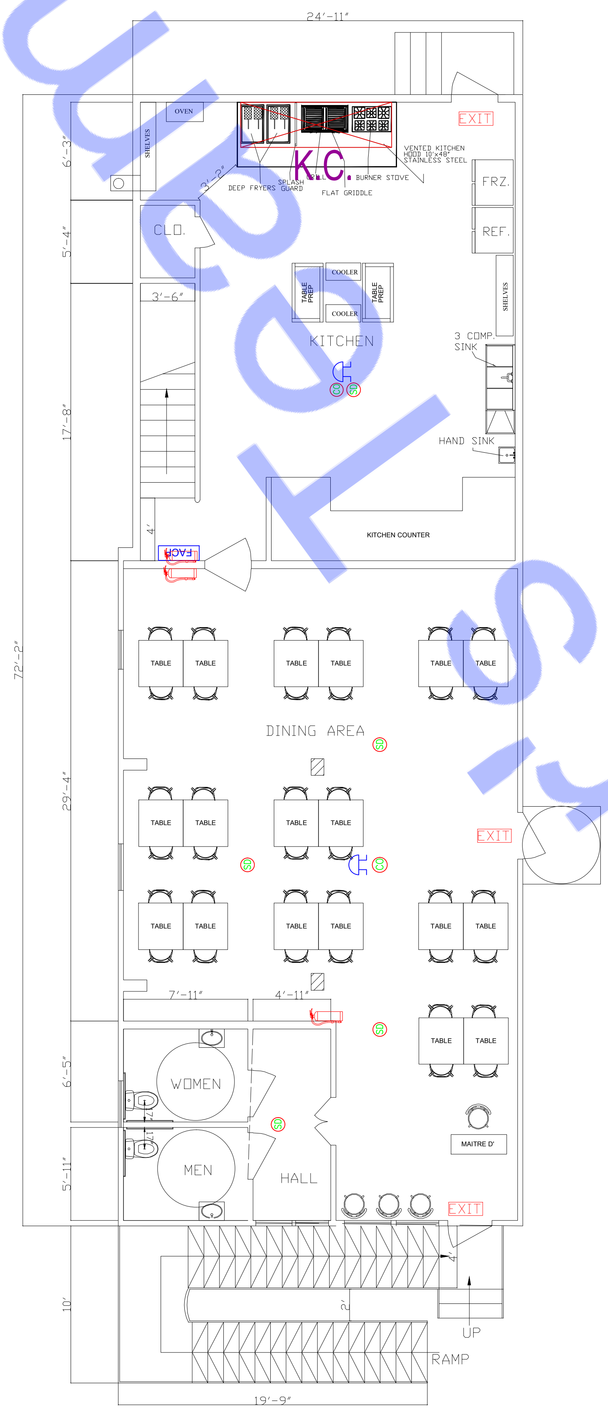
PROJECT:
NEW DIX RESTAURANT PLANS
2212 SOUTH CLAIBORNE AVENUE NEW ORLEANS, LOUVISIANA 70125

For City Stamps:

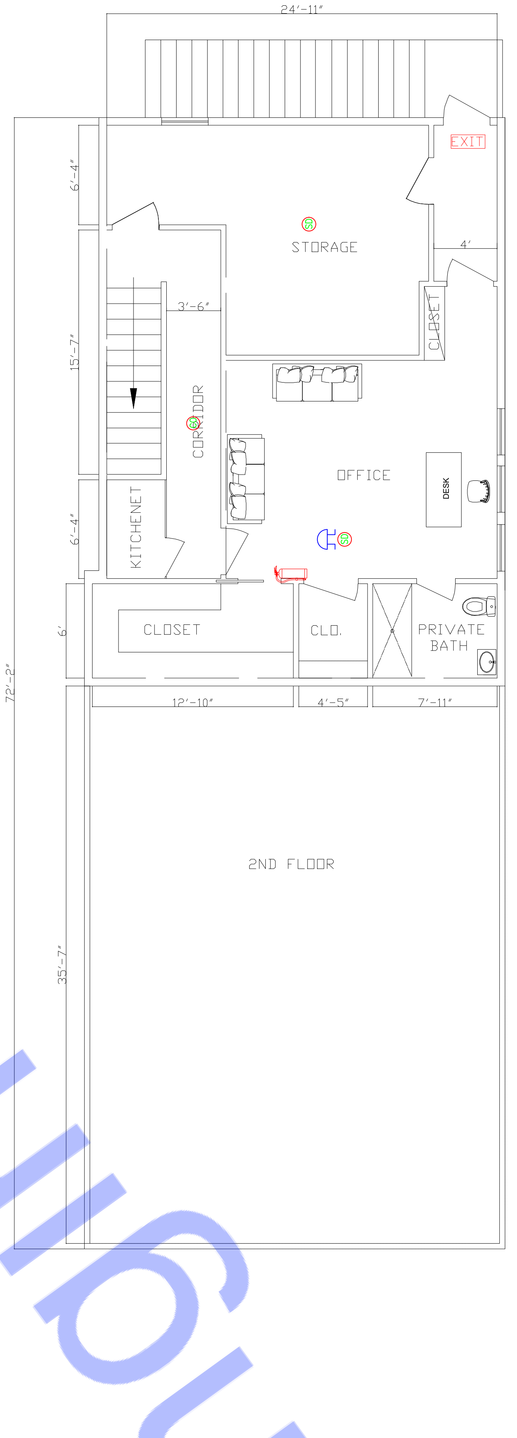
Project No:
Drawn by:
Date: 7/24/25
Sheet Name: FIRE SAFETY PLAN

Drawing Number: F001

FIRE PROTECTION LEGENDS	DESCRIPTION
SYMBOLS	SMOKE DETECTOR- HARDWIRED & INTERCONNECTED
	SOUNDER
	MANUAL CALL POINT
	HEAT DETECTOR
FACP	FIRE ALARM CONTROL PANEL
EXIT	WHITE LED EXIT & EMERGENCY LIGHT
	FIRE EXTINGUISHERS
	FIRE SPRINKLER
	CARBON MONOXIDE DETECTOR



1 NEW 1st. FLOOR PLAN
1/4" = 1'-0"



2 NEW 2nd. FLOOR PLAN
1/4" = 1'-0"

1. GENERAL SYSTEM DATA

	20 bar
	17 – 22,2 bar
	0 °C to 50 °C
	Nitrogen (N2)
	Max. Capacity: 45 litres Max. Area: 0,5 x 0,6 m (0,3 m2)
	Max. 7 fryers or kitchen equipment
	Max. 10
	2 litres / Nozzle
	35 – 45 seconds
	Max 4 m for kitchen hood length
	Max 800 mm
	Ø 10 x 1 mm (Inner diameter of fittings Ø8 mm)

*Overlapping of the spray cones

System limits regarding the protected project:

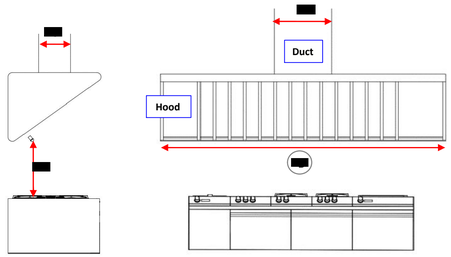


Fig. 1 –Duct and kitchen hood dimensions

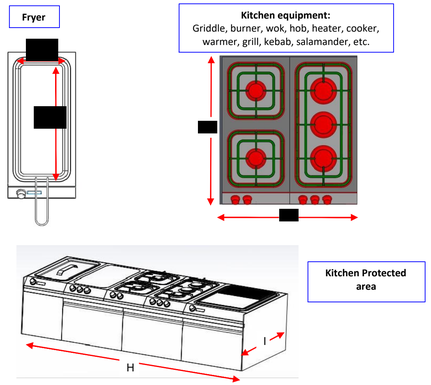


Fig. 2 – Fryers and Kitchen equipment dimensions

	Distance between the extinguishing nozzles and the surface to be protected	900 – 1350 mm	
	Length extractor hood (Full protection)	Max. 5600 mm	
	Length extractor hood (Zone protection)	Max. 8000 mm	
	Cross-section extractor duct	Max. 500 x 500 mm	
	Max Length deep fat fryer basin	500 mm	**For max. total surface area 0.3 m²**
	Max Width deep fat fryer basin	600 mm	
	Max Length of each kitchen equipment	800 mm	**For max. total surface area 1.6 m²**
	Max Width of each kitchen equipment	800 mm	
	Protected kitchen area	Max 4.48 m² (5,6 x 0,8)	

SYSTEM DESIGN AND CALCULATIONS

FULL protection (Protection of the complete kitchen surface)

To reach a full protection of the kitchen surface, a distance between the fryer nozzles of maximum 800 mm must be kept. When this distance enlarges, there will be no overlapping of the spray cones.

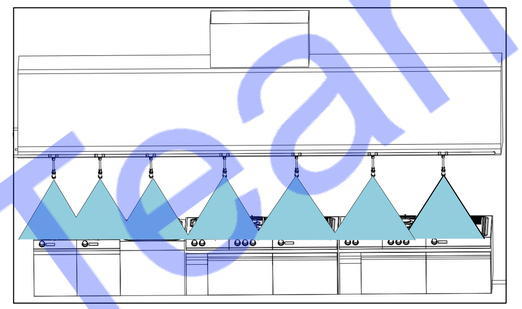


Fig. 3 – Nozzle configuration for FULL PROTECTION

Nozzle Quantity Calculation

Nozzle calculations for FULL PROTECTION

Nq	Required Nº Nozzles for the system design
W	Round up (Length of protected area / 0,8)
X	Round up (Width of protected area / 0,8)
Y	Round up (Length of protected Hood / 4)
Z	Number of protected ducts
Nq = W * X + Y + Z	

Extinguishing agent quantity calculation

2 * Quantity of Nozzles	=	Agent Quantity Needed in Litre

Cylinder size Selection

6 Litre	**11,8 Litres**	**11,5 Litres**
8 Litre	**034313**	**034303**
10 Litre	**15,9 Litres**	**15,6 Litres**
12 Litre	**034314**	**034304**
14 Litre	**25,3 Litres**	**25,0 Litres**
16 Litre		
18 Litre	**034315**	**034305**
20 Litre		

034303	**11,5 litres/ 8 litres**	190 mm	475 mm	Steel alloy red painted (RAL 3000) with internal plastic coat
034304	**15,6 litres/ 12 litres**	190 mm	620 mm	
034305	**25 litres/ 20 litres**	293 mm	460 mm	

LPCB approved cylinders:

034313	**11,8 litres/ 8 litres**	190 mm	475 mm	Stainless Steel Body: AISI 304 Neck: AISI 316
034314	**15,9 litres/ 12 litres**	190 mm	620 mm	
034315	**25,3 litres/ 20 litres**	293 mm	460 mm	

Limitations for Easydetect tube and piping system

		System P "Piccolo"		System M "Mezzo"			System G "Grande"		
		ARFCHEF06C	ARFCHEF08C	ARFCHEF10C	ARFCHEF12C	ARFCHEF14C	ARFCHEF16C	ARFCHEF18C	ARFCHEF20C
P	Cylinder capacity [Litres]	11,5		15,6		25	25		
	Total amount of extinguishing agent [Litres]	6	8	10	12	14	16	18	20
	Total amount of pressurizing gas (N2) per cylinder volume [Litre]	5,5	3,5	5,6	3,6	11	9	7	5
QS	Maximum Number of Nozzles Short reach	3	4	5	6	7	8	9	10
QL	Maximum Number of Nozzles Long reach	1	1	2	2	2	2	2	2
QT	Total Number of Nozzles	3	4	5	6	7	8	9	10
R	Maximum length of extractor hood with zone protection [mm]	4000		8000			8000		
U	Maximum Length of the kitchen surface to be protected for complete protection [mm]	800	1600	2400	3200	4000	4800	5600	
V	Maximum Width of the worktop surface to be protected [mm]	800	800	800	800	800	800		
T	Max Length Easydetect Tube [m]	10		20			30		
S	Max. Quantity of fitting	6		6			8		
-	Max. Line length of pipe [m]	7		2 x 7 (14)			20		
-	Max. Line valve - Last nozzle [m]	5		7			10		

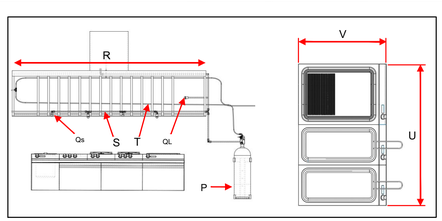


Fig. 4 – Installation features

ENGINEER'S TEAM
430 E 8TH ST STE 8017
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SUPPORT@ENGRTEAM.COM
ENGRTEAM.COM

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For City Stamps:

Project No:
Drawn by:
Date: 7/24/25
Sheet Name:
Hood Fire Suppression System

Drawing Number:
F002

PLUMBING SPECIFICATIONS

1. BASIC MATERIALS & METHODS

   A. ALL WORK SHALL CONFORM TO 2018 VIRGINIA PLUMBING CODE, 2018 VIRGINIA RESIDENTIAL CODE, 2018 VIRGINIA FUEL GAS CODE. PROVIDE A COMPLETE PLUMBING SYSTEM, LEFT IN PROPER WORKING ORDER. PROVIDE HEREIN MEANS INSTALLED COMPLETELY, INCLUDING LABOR AND MATERIALS. CONTRACTOR RESPONSIBLE FOR ALL COST FOR REDESIGNS, REINSPECTIONS, ETC., CAUSED OR CREATED BY THE CONTRACTOR. SECURE AND PAY FOR ALL FEES, LICENSES, PERMITS, AND INSPECTIONS. COORDINATE AND VERIFY ALL DETAILS OF THE UTILITIES. MEET AND COMPLY WITH ALL FEDERAL, STATE, COUNTY, AND CITY CODES AND REGULATIONS.

   B. THE INSTALLING CONTRACTOR PROVIDING FOR THIS WORK SHALL BE A FIRM LICENSED FOR THIS TYPE OF WORK AND SHALL PROVIDE COPIES OF LICENSES, BUSINESS LICENSES, BONDING LIMITS, AND INSURANCE COVERAGE. THE CONTRACTORS FIELD PERSONNEL SHALL BE UNDER THE DIRECT SUPERVISON OF A LICENSED PLUMBER(S).

   C. PROVISIONS INCLUDE LABOR, SUPPLIES AND MATERIALS, TOOLS EQUIPMENT, ETC. PROVIDE COMPLETE SUBMITTALS AND SHOP DRAWINGS ON ALL ITEMS. PRIOR APPROVAL IS REQUIRED FOR ANY SUBSTITUTIONS. PROVIDE FINAL CONNECTIONS TO ALL ITEMS. COORDINATE WITH OTHER TRADES PRIOR TO ROUGH IN AND PROVIDE ANY NECESSARY ADJUSTMENTS. CONTRACTOR IS RESPONSIBLE FOR MATERIAL SHIPPING, DELIVERY, RECEIVING, STORAGE & PROTECTION, EXCAVATION, BACKFILLING, CUTTING PATCHING AND CLEANING. ALL WORK AND MATERIALS SHALL BE GUARANTEED FOR TWO YEARS, PLUS ANY EXTENDED MANUFACTURER'S WARRANTIES. PROVIDE COMPLETE PARTS, MAINTENANCE AND SERVICE MANUALS, ALONG WITH THE NECESSARY TRAINING OF OWNER'S PERSONNEL.

   D. ALL MATERIALS SHALL BE NEW, AND CURRENTLY MANUFACTURED. ALL MATERIALS SHALL BE U.L. LABELED, AND MEET ALL INDUSTRY STANDARDS. PROVIDE PIPE LABELING FOR ALL POTABLE WATER AND OTHER LINES.

2. GENERAL PIPING REQUIREMENTS

   A. DRAWINGS ARE DIAGRAMMATIC TO INDICATE THE REQUIRED PLUMBING SYSTEM. EVERY FITTING AND DETAIL IS NOT NECESSARILY INDICATED. THE CONTRACTOR SHALL PROVIDE AND INSTALL A COMPLETE AND PROPERLY FUNCTIONING SYSTEM(S) IN A PROFESSIONAL MANNER. ALL WORK SHALL BE INSTALLED SO THAT VALVES AND OTHER WORKING COMPONENTS ARE ACCESSIBLE FOR SERVICE.

   B. CONTRACTOR SHALL CHECK AND VERIFY THE UTILITY SOURCE WATER PRESSURE. IF THE PRESSURE EXCEEDS 80 PSI THE CONTRACTOR SHALL PROVIDE A LINE SIZE PRESSURE REDUCING VALVE, WATTS MODEL 223SB TYPE OR OTHER AS APPROVED BY BUILDER

   C. ALL VENT, WATER, AND WASTE PIPING SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS, UNLESS NOTED OTHERWISE. ANY PIPING ROUTED THROUGH COUNTER WORK SHALL BE LOCATED OUT-OF-THE-WAY TO THE REAR OF THE COUNTER AND WELL SECURED. COORDINATE CAREFULLY WITH THE COUNTER MANUFACTURER AND ARCHITECT FOR ROUTING OF ANY PIPING.

   D. THE CONTRACTOR SHALL PROVIDE FINAL FIELD COORDINATION AND VERIFICATION OF THE EXACT LOCATION OF STUB-UP AND STUB-OUT LOCATION PRIOR TO ROUGH IN. FLOOR SLAB PENETRATIONS SHALL FIRST BE CHECKED AND VERIFIED WITH STRUCTURAL PLANS TO AVOID STRUCTURAL DAMAGE. WHERE REQUIRED BY CODE, PENETRATIONS SHALL BE SLEEVED AND SEALED.
   SLOPE FLOOR TO DRAIN PER ARCHITECTURAL REQUIREMENTS. ANY ROOF PENETRATIONS SHALL BE MADE AS DIRECTED BY OWNER'S ROOFING INSTALLER TO MAINTAIN ROOF WARRANTY. PROVIDE ALL NECESSARY ROOF FLANGES, ETC.

   E. PIPING SUPPORT - PROVIDE PIPE HANGERS & SUPPORTS WITH WIDE SADDLES THAT SUPPORT BOTH THE INSULATION AND PIPING WITHOUT CRUSHING THE INSULATION. SPACE HANGERS TO PROVIDE NO MOVEMENT OR SAGGING BETWEEN SUPPORTS. ALL PIPING PENETRATING WALLS, CEILINGS AND OTHER FINISHED SURFACES SHALL HAVE CHROME-PLATED ESCUTCHEONS. ALL PIPING PENETRATING EXTERIOR WALLS, ROOFS, ETC, SHALL BE FLASHED AND SEALED IN AN APPROVED MANNER. THE SANITARY WASTE AND VENT SYSTEM DESIGN IS BASED ON 1/4 INCH SLOPE PER FOOT.

   G. PERFORM SYSTEM TESTS PRIOR TO COVERING UP ANY PIPING, IN ACCORDANCE WITH THE CODE. ALL TESTING SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. ANY DEFECTIVE MATERIALS SHALL BE REPLACED WITH NEW MATERIALS AND THE SYSTEM RE-TESTED. ONCE ALL WORK IS COMPLETED THEN EACH SYSTEM SHALL BE SANITIZED IN ACCORDANCE WITH THE CODE AND THEN FLUSHED CLEAN WITH POTABLE WATER.

3. WATER PIPING SYSTEM MATERIALS

   WATER SERVICE UNDERGROUND - COPPER, ALTERNATIVE - SHALL BE "ENDPOLY PE-4710 HIGH DENSITY POLYETHYLENE WATER SERVICE TUBING.

   H. WATER PIPING IN GRADE - COPPER. ALTERNATIVE - SHALL BE "EDNPOLY PE-4710 HIGH DENSITY POLYETHYLENE WATER SERVICE TUBING.

   I. WATER PIPING ABOVE GRADE - CPVC OR PEX TUBE. SOLDER JOINT FITTINGS AND CONNECTORS. COPPER TO CPVC OR PEX CONNECTIONS SHALL UTILIZE INSULATING UNIONS. CAPITOL MANUFACTURING OR EQUAL APPROVED BY BUILDER.

   J. GATE VALVES - PROVIDE LINE SIZE, BRASS OR BRONZE BODY, RATED FOR 125 PSI SHOCK WATER PRESSURE, CRANE, NIBCO, WATTS, OR HAMMOND. TAG OR LABEL EACH VALVE.

   K. HOSE BIBBS - PROVIDE BRASS OR BRONZE CASING WITH BRONZE INTERIOR PARTS, REPLACEABLE SEAT AND SEAT WASHER. HOSE BIBBS SHALL HAVE VACUUM BREAKER FEATURE.

   L. HAMMER ARRESTORS-SHALL BE PROVIDED AND INSTALLED AS PER P.D.I STANDARDS. UTILIZE J.R.SMITH HYDROTOL WATER HAMMER ARRESTOR, OR OTHER AS APPROVED BY BUILDER.

   M. TESTING - ALL PIPING SYSTEM(S) SHALL BE PRESSURE TESTED, BEFORE INSULATED & CONCEALED, AT 125 PSI AND HOLD THIS PRESSURE WITH NO LOSS FOR 24 HOURS.

   N. DISINFECTION - THE COMPLETE PIPING SYSTEM(S) SHALL BE DISINFECTED IN ACCORDANCE WITH THE CODE, THEN FLUSHED CLEAN. ALL FIXTURES SHALL BE CLEANED PRIOR TO DISINFECTION.

4. SOIL, WASTE & VENT PIPING SYSTEM MATERIALS

   A. SOIL, WASTE & VENT PIPING - SHALL BE PVC SCHEDULE 40, FOAM CORE (NONE PRESSURE PIPE).
   B. P-TRAPS - PROVIDE ALL FIXTURES WITH P-TRAP SIZED IN ACCORDANCE WITH CODE.
   C. CLEANOUTS SHALL BE PROVIDED PER CODE. WALL CLEANOUTS SHALL BE PVC

GENERAL PLUMBING NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING APPLIANCES. REFER TO RISER DIAGRAMS FOR PIPE SIZES, FITTINGS, ACCESSORIES NOT SHOWN ON PLANS.

2. CONTRACTOR SHALL COORDINATE LOCATION OF PIPING PENETRATION THROUGH SLAB AND ROUTING OF SANITARY PIPING BELOW FLOOR WITH DUCTWORK AND PIPING LOCATED IN CEILING SPACE OF FLOOR BELOW.

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
SAN	SANITARY, SOIL OR WASTE PIPE
V	VENT PIPE
G	GAS
RW	RAIN WATER/STORM WATER
	CONNECT TO EXISTING
	P-TRAP
F BFP	BACK FLOW PREVENTER
"A" SA	SHOCK ARRESTOR
VR	VACUUM RELIEF
	PIPE CAP OR PLUG
	PIPE CONTINUES
	STOP VALVE
	UNION
DN	ELBOW DOWN
UP	ELBOW UP
D	INDIRECT DRAIN
FD	FLOOR DRAIN
HD	HUB DRAIN
HB	HOSE BIBB
	SHOWERHEAD
	WATER PRESSURE REDUCING VALVE
	BACKWATER VALVE
	GAS PRESSURE REGULATOR

ABBREVIATIONS

A/C:	ABOVE CEILING
A.F.F.:	ABOVE FINISHED FLOOR
A.F.G:	ABOVE FINISHED GRADE
AAV:	AIR ADMITTANCE VALVE
AHU:	AIR HANDLING UNIT
B/F:	BELOW FLOOR
B.F.F.:	BELOW FINISHED FLOOR
BFP:	BACKFLOW PREVENTOR
CFH:	CUBIC FEET PER HOUR
C.O.:	CLEAN OUT
C.W.:	COLD WATER
ET:	EXPANSION TANK
FD:	FLOOR DRAIN
GD:	GARBAGE DIPOSAL
HB:	HOSE BIB
HD:	HUB DRAIN
HW:	HOT WATER
MBH:	BTU PER HOUR
PRV:	PRESSURE REDUCING VALVE
S:	SOIL
SA:	HAMMER ARRESTOR
TDL:	TOTAL DEVELOPED LENGTH
TP:	TRAP PRIMER
V:	VENT
VTR:	VENT THROUGH ROOF
W:	WASTE

PLUMBING DRAWING LIST

DRAWING	TITLE
P000	PLUMBING GENERAL NOTES, SYMBOLS, & ABBREVIATIONS
P100	BASEMENT SANITARY, WASTE & VENT PLUMBING PLAN
P101	FIRST FLOOR SANITARY, WASTE & VENT PLUMBING PLAN
P102	SECOND FLOOR SANITARY, WASTE & VENT PLUMBING PLAN
P103	ROOF SANITARY, WASTE & VENT PLUMBING PLAN
P200	BASEMENT FLOOR DOMESTIC WATER & NATURAL GAS PLUMBING PLAN
P201	FIRST FLOOR DOMESTIC WATER & NATURAL GAS PLUMBING PLAN
P202	SECOND FLOOR DOMESTIC WATER & NATURAL GAS PLUMBING PLAN
P500	SANITARY, WASTE & VENT RISER DIAGRAM
P600	DOMESTIC WATER RISER DIAGRAM
P700	NATURAL GAS RISER DIAGRAM
P800	PLUMBING SCHEDULES
P900	PLUMBING DETAILS

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For City Stamps:

Project No:
Drawn by:
Date: 7/24/25
Sheet Name:
GENERAL NOTE FOR PLUMBING PLAN

Drawing Number:
P000

Npote:
This Plumbing Layout Plan complies with the latest codes and standards for New Orleans Louisiana, including:

International Plumbing Code (IPC) 2021 – Primary plumbing and sanitation standards.

Louisiana State Plumbing Code – Local amendments and regulations.

New Orleans Safety & Permits Requirements – Municipal permitting and inspections.

ANSI/ASSE Standards – Backflow prevention, fixture requirements, and pipe sizing.

Key Design Parameters
Water Supply System:
Main Water Service:

- # Pipe Size: [Specify, e.g., 1.5" Copper Type L]
- # Pressure: [Specify, e.g., 60 PSI minimum]

Backflow Prevention: RPZ Assembly (ASSE 1013) for kitchen/bar.

Fixture Requirements:

1. Restaurant Sinks: 2-compartment (min.) with grease interceptor.
2. ADA-Compliant Restrooms: Lavatories, toilets per IPC 403 & 405.

Drainage & Venting:
Sanitary Sewer:

1. Pipe Material: [Specify, e.g., PVC Schedule 40]
2. Grease Trap: 1,000-gallon capacity (per City of New Orleans requirements).
3. Vent Stack Sizing: Per IPC Chapter 9.

Gas Piping (if applicable):
Natural Gas Line:

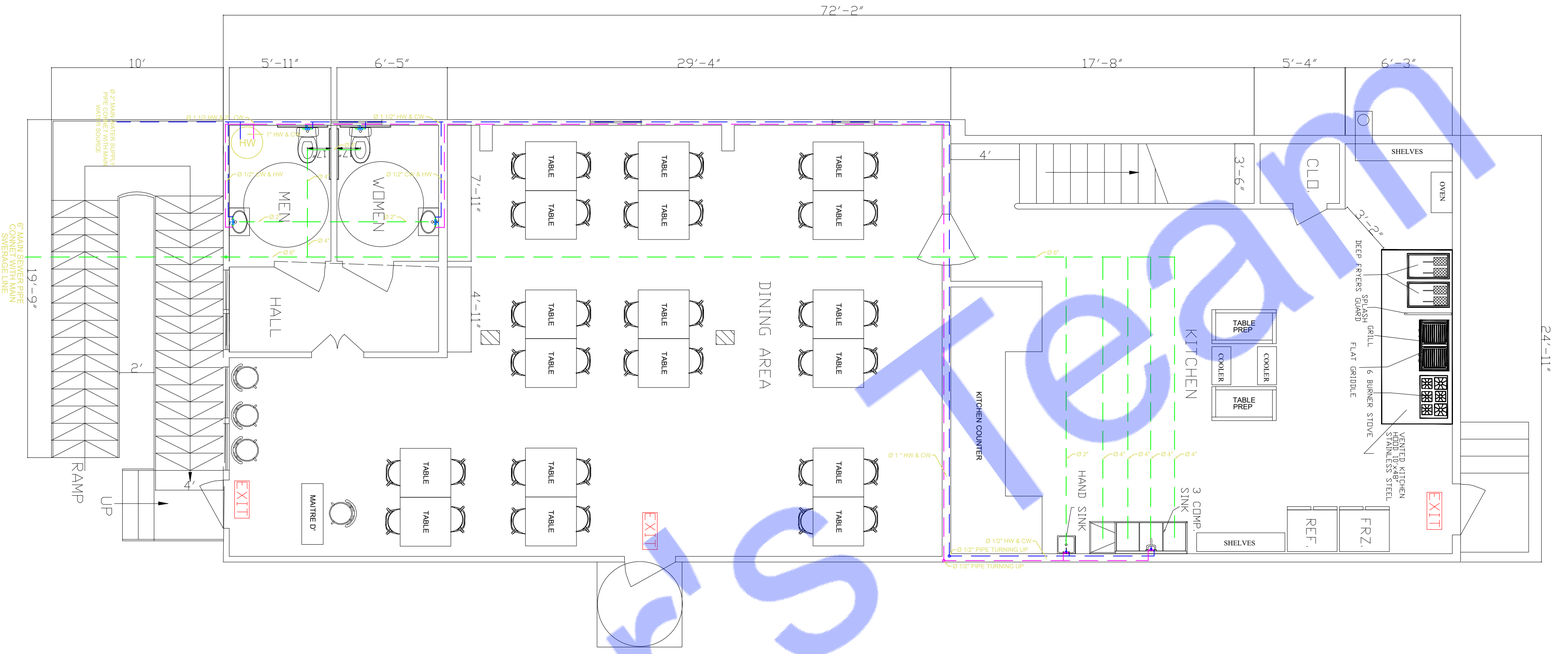
- # Material: Black Steel (ASTM A53)
- # Pressure Test: 10 PSI for 15 minutes (per IPC 1211.2).

Product Approvals (Louisiana, USA)
All plumbing materials and fixtures meet:

NSF/ANSI 61 (Potable Water Standards)

UPC/IAPMO Listing (for fixtures and valves).

1 NEW 1st. FLOOR PLAN
1/4" = 1'-0"



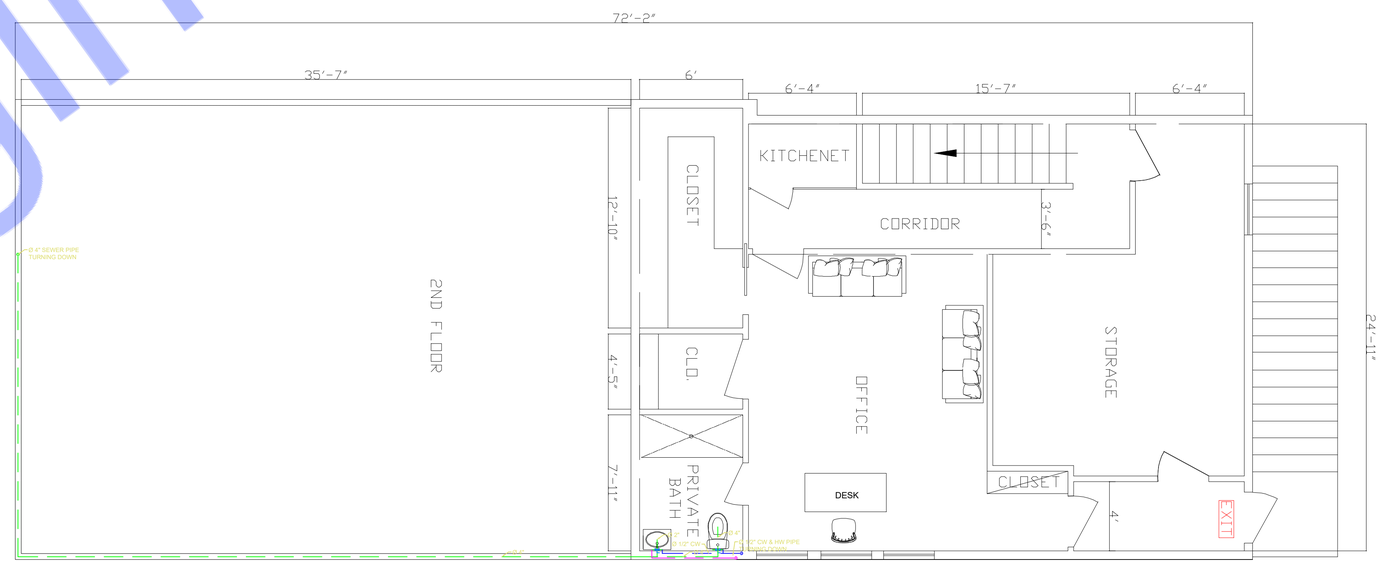
PLUMBING LEGEND

	BALL VALVE (BV)
	GATE VALVE (GV)
	MIXING VALVE (MV)
	FLOOR CLEAN OUT (FCO)
	FLOOR DRAIN (FD)
	HUB DRAIN (HD)
	FLOOR SINK (FS)
	PIPE TURNING UP
	PIPE TURNING DOWN
	EXISTING PIPE
	NEW PIPE

LINES TYPE LEGEND

	COLD WATER LINE (CW)
	HOT WATER LINE (HW)
	SEWER LINE (S)
	GAS LINE (G)

2 NEW 2nd. FLOOR PLAN
1/4" = 1'-0"



ENGINEER'S TEAM
430 E 8TH ST STE 8017
HOLLAND MI 49423
ENGRTEAM.COM
SUPPORT@ENGRTEAM.COM

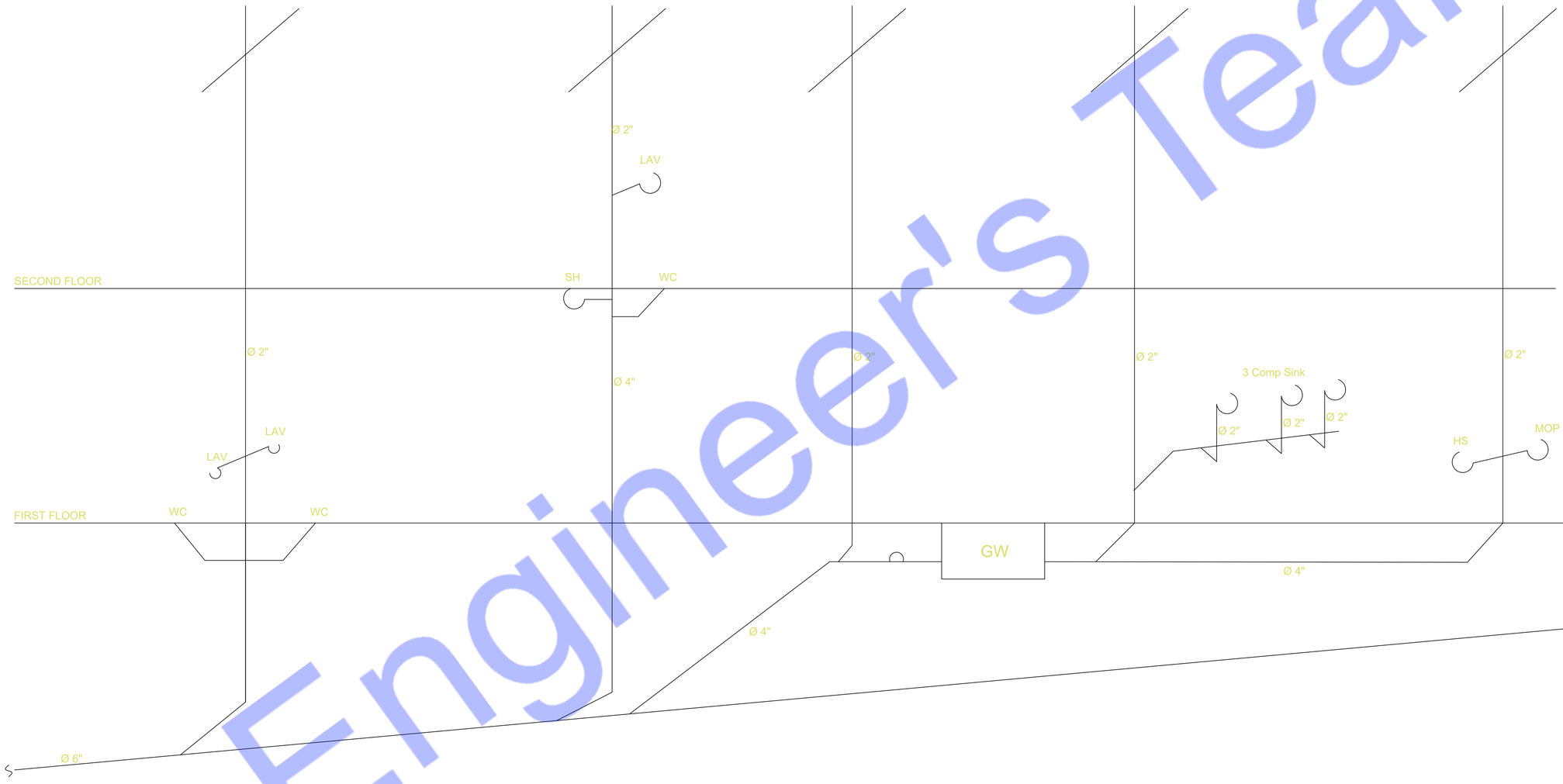
PROJECT:
NEW DIX RESTAURANT PLANS

2212 SOUTH CLAIBORNE AVENUE NEW ORLEANS, LOUVISIANA 70125

For City Stamps:

Project No:
Drawn by:
Date: 7/24/25
Sheet Name:
PLUMBING PLAN

Drawing Number:
E001



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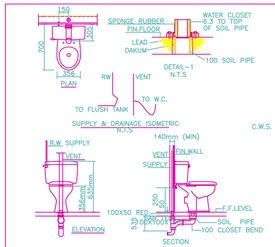
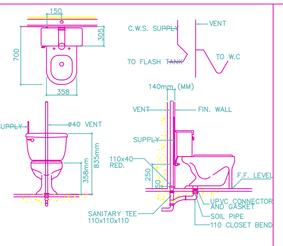


1 WESTERN WATER CLOSET DETAIL



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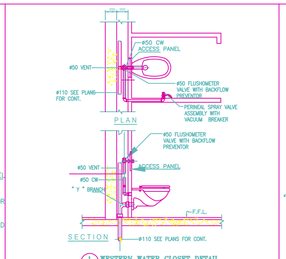
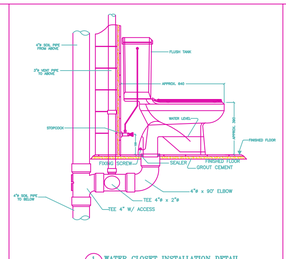
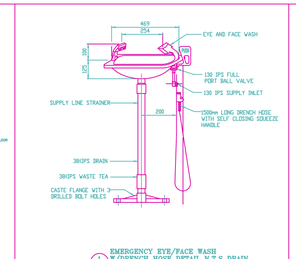


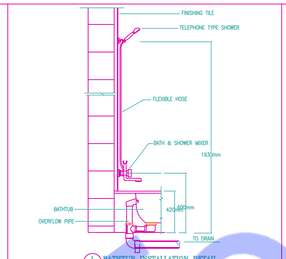
1 WESTERN WATER CLOSET DETAIL



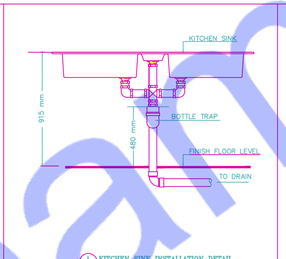
1 WATER CLOSET INSTALLATION DETAIL



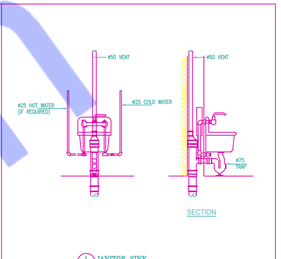
EMERGENCY EYE/FACE WASH W/DRENCH HOSE DETAIL N.T.S DRAIN



1 BATHTUB INSTALLATION DETAIL



1 KITCHEN SINK INSTALLATION DETAIL



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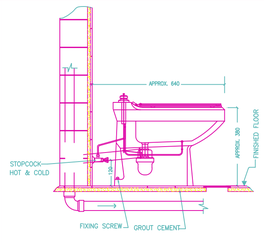

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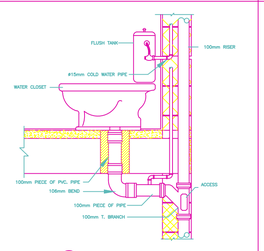
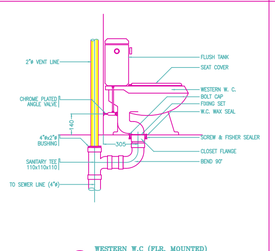
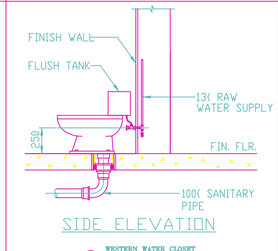


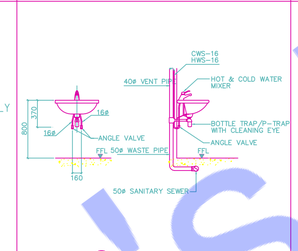
1 WESTERN WATER CLOSET DETAILS



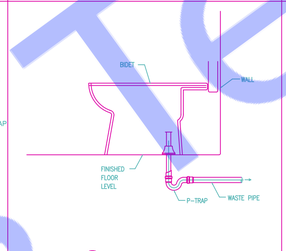
1 WESTERN W.C (FLR. MOUNTED) DRAINAGE INSTALLATION DETAILS



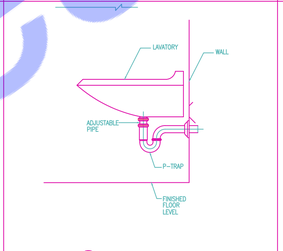
1 WESTERN WATER CLOSET INSTALLATION DETAIL



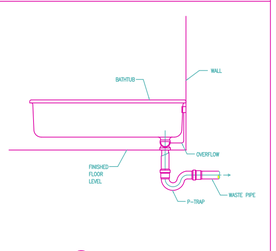
1 WASH BASIN



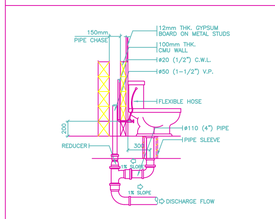
1 BIDET CONNECTION DETAIL



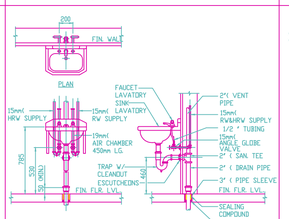
1 LAVATORY CINNECTION DETAIL



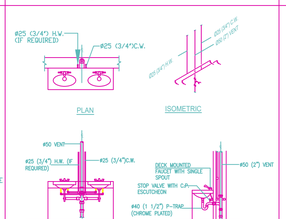
1 BATH TYB CONNECTION DETAIL



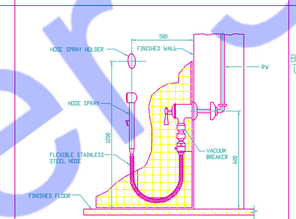
1 WATER CLOSET PIPING INSTALLATION DETAIL



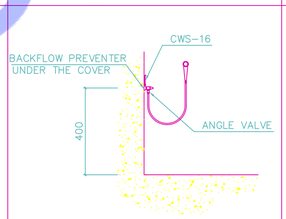
1 LAVATORY INSTALLATION DETAIL



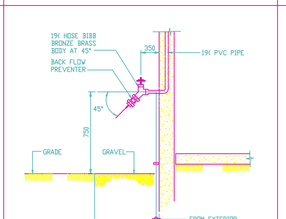
1 STAFF LAVATORY (L-1)



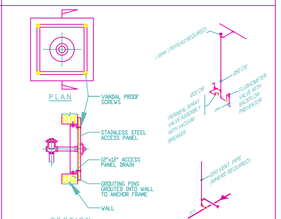
1 PERENNIAL HOSE SPRAY INSTALLATION DETAIL



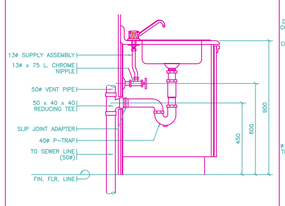
1 HAND SHOWER FOR ABLUTION



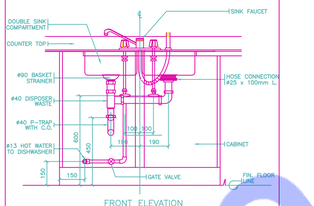
1 HOSE BIBB INSTALLATION DETAIL



1 WESTERN TOILET (T-2)



1 KITCHEN SINK INSTALLATION DETAIL



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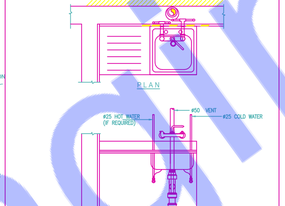
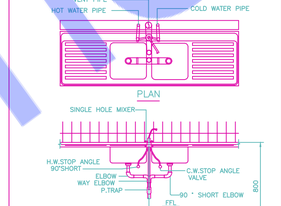
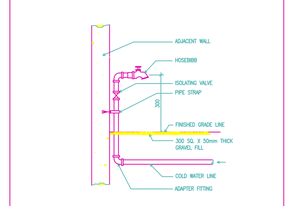


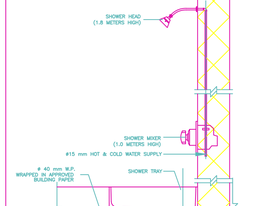
1 KICTHEN SINK



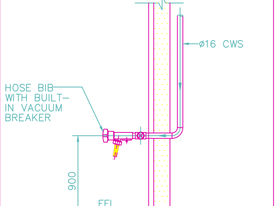
1 TWO COMPARTMENT SINK DETAIL



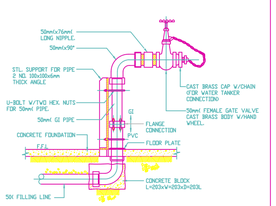
1 HOSEB IBB DETAIL



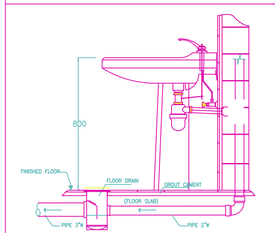
1 TYPICAL DETAIL OF SHOWER TRAY



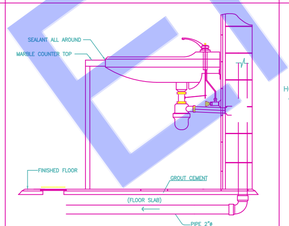
1 HOSE BIB INSTALLATION (HB)



1 FILL TRUCK COUPLING INSTALLATION DETAIL



1 LAVATORY INSTALLATION DETAIL



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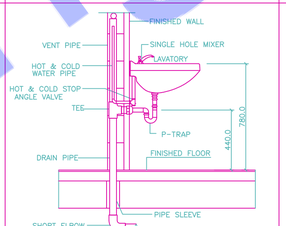
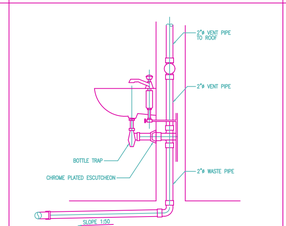
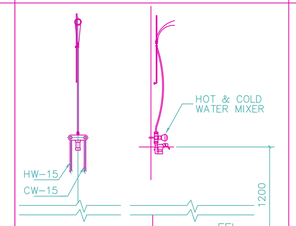


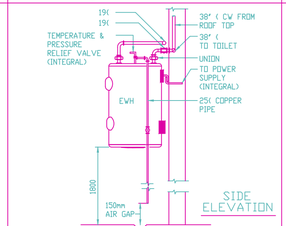
1 LAVATORY DETAILS



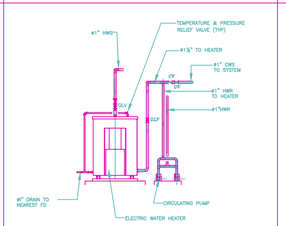
1 LAVATORY DRAIN PIPING DETAILS



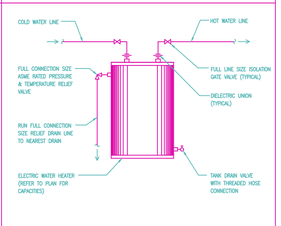
1 SHOWER



1 EWH INSTALLATION DETAIL (WALL MOUNTED)



1 CENTRAL ELECTRIC WATER HEATER



1 EWH INSTALLATION DIAGRAM

ENGINEER'S TEAM
430 E 8TH ST STE 8017
HOLLAND MI 49423
ENGRTEAM.COM
SUPPORT@ENGRTEAM.COM

PROJECT:
NEW DIX RESTAURANT PLANS

2212 SOUTH CLAIBORNE AVENUE NEW ORLEANS, LOUVISIANA 70125

For City Stamps:

Project No:
Drawn by:
Date: 7/24/25
Sheet Name:
PLUMBING INSTALLATION

Drawing Number:
P002

MECHANICAL GENERAL NOTES

1. ALL WORK SHALL CONFORM TO VRC 2018, VECC 2018, AND LOCAL RULES AND REGULATIONS.

2. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND TAXES AND OBTAIN, SCHEDULE, AND PAY FOR REQUIRED INSPECTIONS BY THE AUTHORITY HAVING JURISDICTION (AHJ). SCHEDULE AND CONDUCT INSPECTIONS REQUIRED BY AHJ TO OBTAIN FINAL CERTIFICATE OF OCCUPANCY (COO). INSPECTIONS AND APPROVALS BY THE AHJ ARE REQUIRED IN ADDITION TO ANY INSPECTIONS OR REVIEWS BY THE ARCHITECT AND ENGINEER. POST AND COMPLETE FORMS ASSOCIATED WITH THE PERMITS AND REQUIRED TO BE SIGNED BY THE AHJ; PROVIDE WRITTEN NOTIFICATION TO THE ARCHITECT AT LEAST TWO DAYS PRIOR TO EACH INSPECTION BY AHJ TO ALLOW FOR THE ARCHITECT OR ENGINEER TO OBSERVE THE INSPECTION.

3. MAKE NO CHANGES WITHOUT THE WRITTEN PERMISSION FROM THE ENGINEER.

4. ALL MATERIAL AND EQUIPMENT INDICATED ON THE PLANS AND DESCRIBED IN THE SPECIFICATIONS SHALL BE PROVIDED BY THE CONTRACTOR NEW AND THE BEST PRODUCTS OF REPUTABLE MANUFACTURERS AND SHALL BE IN NEW CONDITION AT ACCEPTANCE OF WORK.

5. THIS CONTRACTOR SHALL GUARANTEE ALL MATERIALS, LABOR, AND EQUIPMENT FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE. COMPRESSORS SHALL HAVE A FULL FIVE-YEAR WARRANTY. CONTRACTOR SHALL PAY FOR ANY REPAIRS OR REPLACEMENTS CAUSED BY DEFECTIVE WORKMANSHIP OR FAULTY MATERIALS AS CONSTRUED HEREIN WITHIN THE PERIOD COVERED BY THE GUARANTEE.

6. SCAFFOLDING, RIGGING, AND HOISTING: UNLESS OTHERWISE SPECIFIED, CONTRACTOR SHALL FURNISH ALL SCAFFOLDING, RIGGING, HOISTING, AND SERVICES NECESSARY FOR ERECTION AND DELIVERY INTO THE PREMISES OF ANY EQUIPMENT AND APPARATUS FURNISHED, AND REMOVAL OF SAME FROM PREMISES WHEN NO LONGER REQUIRED.

7. LOCATION OF EQUIPMENT, PIPING, AND OTHER MECHANICAL WORK IS INDICATED DIAGRAMMATICALLY BY THE DRAWINGS. DETERMINE EXACT LOCATIONS ON THE JOB SITE, SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF OTHER CONTRACTORS.

8. CONTRACTOR ASSUMES RESPONSIBILITY FOR PROPER ARRANGEMENT OF PIPES, DUCTS, ETC., TO CONNECT APPROVED EQUIPMENT IN A PROPER AND APPROVED MANNER. FOLLOW EQUIPMENT MANUFACTURER'S DETAILED INSTRUCTIONS AND THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT BEFORE PROCEEDING. NO EQUIPMENT INSTALLATION OR CONNECTIONS SHALL BE MADE IN A MANNER THAT VOIDS THE MANUFACTURER'S WARRANTY.

9. SEE ARCHITECTURAL DRAWINGS FOR THE LOCATION OF ROOF PENETRATIONS.

10. UNLESS OTHERWISE NOTED, ALL SPECIFIED EQUIPMENT IS LESS THAN 200 POUNDS. SEE ARCHITECTURAL DRAWINGS FOR SUPPORT DETAILS OF ALL EQUIPMENT GREATER THAN 200 LBS.

11. INSTALL EACH ITEM OF EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

12. INSTALL ALL WORK IN A NEAT AND WORKMANLIKE MANNER, USING ONLY WORKMEN THOROUGHLY QUALIFIED IN THE TRADE OF DUTIES THEY ARE TO PERFORM. ROUGH WORK WILL BE REJECTED.

13. CUTTING AND PATCHING SHALL BE DONE BY THE APPROPRIATE TRADE UNLESS OTHERWISE REQUIRED BY TRADE CUSTOM OR SPECIFIED UNDER ANOTHER SECTION OF THE SPECIFICATIONS. CONTRACTOR SHALL FURNISH SKETCHES SHOWING THE LOCATIONS AND SIZES OF ALL OPENINGS, CHASES, ETC. REQUIRED. CONTRACTOR IS LIABLE FOR CUTTING OR PATCHING MADE NECESSARY BY HIS FAILURE TO MAKE PROPER ARRANGEMENTS IN THIS RESPECT.

14. DO NOT CUT STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ARCHITECT AND ALL SUCH CUTTING SHALL BE DONE IN A MANNER AS DIRECTED BY THEM.

15. MAINTAIN CLEAN WORK AREA AT ALL TIMES DURING CONSTRUCTION. AFTER COMPLETING INSTALLATIONS OF DUCTWORK, CONTRACTOR SHALL CLEAN ENTIRE SYSTEM OF RUBBISH, PLASTER, DIRT, AND ANY OTHER DEBRIS.

16. TEST ALL SYSTEMS. SYSTEMS SHALL OPERATE SATISFACTORILY AS DESIGNED AND INTENDED. REPORT ANY DEFICIENCIES TO ARCHITECT.

SHOP DRAWINGS

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE HVAC LAYOUT.

2. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF MECHANICAL EQUIPMENT, DUCTWORK ROUTING, LOCATION OF SYSTEM

INSTALLATION, DUE TO DEVIATIONS FROM THE MECHANICAL EQUIPMENT'S "BASIS OF DESIGN" OR "PROTOTYPE" ELECTRICAL DATA, SHALL BE AT A COST TO THE MECHANICAL CONTRACTOR.

EQUIPMENT

1. GENERAL:

A. REFER TO EQUIPMENT SCHEDULES FOR ADDITIONAL REQUIREMENTS.

2. AIR DEVICES:

A. STEEL CONSTRUCTION WITH ENAMEL FINISH WHITE.
B. ACCEPTABLE MANUFACTURERS: HARTY & COOLEY, TITUS, PRICE, NAILOR, OR EQUIVALENT APPROVED BY NVR, INC.

3. FANS:

A. EACH FAN SHALL BE AMCA CERTIFIED AND LABELED.
B. EACH FAN SHALL BE UL LISTED AND LABELED.
C. ALL WIRING PROVIDED AS PART OF THE UNIT SHALL BE IN ACCORDANCE WITH NEC.
D. ACCEPTABLE MANUFACTURERS: BROAN OR EQUIVALENT APPROVED BY NVR, INC.
E. SUBMIT SAMPLE MODEL FOR ARCHITECTURAL REVIEW AND APPROVAL.

4. AIR HANDLING UNITS:

A. PACKAGED, FACTORY ASSEMBLED, PRE-WIRED AND PRE-PIPED WITH MICROPROCESSOR CONTROL SYSTEM AND ALL OPTIONS AS SCHEDULED. UL LISTED.
B. ACCEPTABLE MANUFACTURERS: GOODMAN OR EQUIVALENT APPROVED BY NVR, INC.

5. ACCESS PANELS: PROVIDE ACCESS PANELS IN DUCTWORK IN A LOCATION TO SERVICE DAMPERS. ACCESS PANELS SHALL BE OF THE INSULATED DOOR TYPE ON ALL INSULATED DUCTS AND SHALL NOT BE COVERED BY DUCT INSULATION. ACCESS PANELS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. MINIMUM SIZE OF ACCESS PANELS SHALL BE 12" X 12" EXCEPT WHERE DUCT IS LESS THAN 14" WIDE IN WHICH CASE ONE DIMENSION SHALL BE 12" AND THE OTHER SHALL BE 2" LESS THAN THE DUCT WIDTH. ACCESS DOOR SHALL BE ACCESSIBLE.

PIPING

1. CONDENSATE DRAIN PIPING: TYPE SCHEDULE 40 PVC PIPING WITH GLUE TYPE FITTINGS. SLOPE ALL CONDENSATE PIPING TOWARDS DRAIN AT 1/8" PER FOOT.

2. REFRIGERANT PIPING: TYPE ACR HARD COPPER WITH STREAMLINE FITTINGS JOINTED WITH SPECIAL REFRIGERATION SOLDER SUCH AS SIL-FOS. RUN, SIZE, AND TRAP REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. REFRIGERANT PIPING IN CONCEALED LOCATIONS MAY BE ANNEALED SOFT TEMPERED ACR TUBING ASSEMBLED WITH "STAYBRITE NO. 8" SOLDER. PIPE, PIPE FITTINGS AND COMPONENTS SHALL BE CAPABLE OF WITHSTANDING THE PRESSURES AND TEMPERATURES OF THE SERVICE THEY ARE HANDLING. PRE-CHARGED OR PREFABRICATED LINES BY EQUIPMENT MANUFACTURER MAY BE USED. TUBING, USED FOR REFRIGERANT SERVICE SHALL BE CLEANED, SEALED, CAPPED OR PLUGGED PRIOR TO BEING SHIPPED FROM THE MANUFACTURER'S PLANT.

3. IDENTIFICATION: ALL PIPING SHALL BE IDENTIFIED BY NAME AND DIRECTIONAL FLOW ARROWS IN ACCORDANCE WITH ASME AND ANSI STANDARDS.

4. FINAL DRAIN AND REFRIGERANT LINES SHALL NOT BLOCK SERVICE ACCESS TO FAN OR AIR FILTER REMOVAL AT THE AHU.

PIPING SPECIALTIES

1. PROVIDE TRAPS FOR CONDENSATE DRAIN LINES AT ALL HVAC EQUIPMENT THAT IS NOT INTERNALLY TRAPPED.

INSULATION

1. ALL DUCT AND PIPE INSULATION AND COVERINGS SHALL HAVE A FIRE AND SMOKE HAZARD RATING AS TESTED UNDER PROCEDURE ASTM-E-84, NFPA 255 AND UL 723 NOT EXCEEDING A FLAME SPREAD RATING OF 25 AND A SMOKE DEVELOPED RATING OF 50.

2. PIPING: INSULATE ALL HEATING AND COOLING SYSTEM PIPING THAT CONVEYS FLUIDS THAT HAVE A DESIGN OPERATING RANGE OF LOWER THAN 55 DEGREES F OR GREATER THAN 105 DEGREES F. INSULATION SHALL HAVE A CONDUCTIVITY NOT EXCEEDING 0.27 BTU PER INCH/H*FT²*DEGREE F AT 75 DEGREE F MEAN TEMPERATURE.

A. REFRIGERANT SUCTION: FOR PIPING SIZES 1-1/2" OR LESS, INSULATE WITH 1" THICK ARMAFLEX FIRE RATED INSULATION OR APPROVED ON EQUAL, WITH

INSULATION SHALL BE SLIPPED OVER THE TUBING AS FULL CYLINDER. INSULATION OF PIPING SHALL BE VAPOR TIGHT AND CONTINUOUS THROUGH HANGERS, WALLS, ETC. PROVIDE GALVANIZED SHEET METAL SADDLES AT HANGERS.

B. REFRIGERANT LIQUID AND HOT GAS PIPING WITHIN THE BUILDING: INSULATE WITH 1/2" THICK ARMAFLEX FIRE RATED INSULATION OR APPROVED EQUAL.

5. INSULATION OF DUCTWORK AND PIPING PASSING THROUGH NON-RATED WALLS SHALL BE CONTINUOUS THROUGH THE WALL PENETRATION.

6. WHEREVER PIPES, DUCTWORK OR OTHER ITEMS PASS THROUGH FIRE RATED WALLS AND FLOORS, THE CONTRACTOR SHALL ADEQUATELY FIRE STOP THE SPACE BETWEEN THE ITEMS AND THE MASONRY OR THE SPACE BETWEEN THE ITEM AND SLEEVE. FIRE STOP SHALL BE A NON-COMBUSTIBLE, NON-MELTING, APPROVED MATERIAL.

DUCTWORK

1. GENERAL: CONSTRUCT ALL DUCTWORK AND ACCESSORIES IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA STANDARDS FOR 2" PRESSURE CLASS AND SEAL CLASS B.

2. METAL DUCTWORK: UNLESS OTHERWISE NOTED, FABRICATE ALL DUCTWORK, HOUSING, DAMPERS, AND ALL OTHER DUCT RELATED ACCESSORIES FROM GALVANIZED STEEL SHEETS. EXHAUST DUCTWORK AND ACCESSORIES SERVING SHOWER ROOMS SHALL BE CONSTRUCTED FROM ALUMINUM SHEETS.

3. INSTALL ALL DUCTWORK ABOVE CEILING AND HOLD TIGHT TO UNDERSIDE OF STRUCTURE ABOVE UNLESS OTHERWISE INDICATED.

4. ALL ROUND DUCTWORK RUNOUTS TO A SINGLE CEILING DIFFUSER SHALL BE SAME SIZE AS DIFFUSER NECK.

5. INSTALL OUTSIDE AIR INTAKES, INCLUDING CONCENTRIC VENTS, A MINIMUM OF 10'-0" FROM ANY EXHAUST OR PLUMBING VENT.

6. INSTALL CEILING AIR DEVICES AS CLOSE AS POSSIBLE TO LOCATION SHOWN ON PLAN. COORDINATE LOCATION WITH LIGHT FIXTURES AND SPRINKLER HEADS.

7. CHANGES TO DUCT DUE TO FIELD CONDITIONS SHALL BE MADE ONLY IF THE DUCT SIZE FREE AREA IS MAINTAINED AND SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.

8. FLEXIBLE CONNECTORS: PROVIDE FLEXIBLE CONNECTORS AT THE INLET AND OUTLET CONNECTION FOR EACH FAN AND AIR HANDLING UNIT. EACH FLEXIBLE CONNECTOR SHALL ALLOW 1" OF FREE MOVEMENT AND SHALL BE COMPLETELY AIR TIGHT. PROVIDE NEOPRENE COATED GLASS FABRIC MATERIAL, MINIMUM 30 OZ. PER SQUARE YARD. CONTRACTOR SHALL BRACE DUCTWORK (AS REQUIRED) AT ALL FLEXIBLE CONNECTORS TO ENSURE THAT DUCTWORK IS KEPT IN ALIGNMENT.

9. LEAKAGE

A. ALL EXPOSED DUCT JOINTS SHALL BE SEALED WITH HARDCAST 601.
B. LEAKAGE TESTING FOR ALL DUCTWORK SHALL BE BY PHYSICAL SENSATION AND SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.
C. PERFORM ALL TESTING AFTER THE SEALS HAVE CURED COMPLETELY AND BEFORE COVERING WITH INSULATION OR CONCEALING IN MASONRY.
D. ALL DUCT JOINTS ABOVE CEILING SHALL BE SEALED WITH MASTIC.

LEAKAGE TESTING

1. POST CONSTRUCTION TEST: TOTAL DUCT LEAKAGE SHALL BE LESS THAN OR EQUAL TO 6 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA WHEN TESTED AT A PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. (25 PA) ACROSS THE ENTIRE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTER BOOTS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST.
2. ROUGH-IN TEST: TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 5 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA WHEN TESTED AT PRESSURE DIFFERENTIAL OF 0.1 INCHES W.G. (25 PA) ACROSS THE SYSTEM, INCLUDING THE MANUFACTURER'S AIR HANDLER ENCLOSURE. ALL REGISTERS SHALL BE TAPED OR OTHERWISE SEALED DURING THE TEST. IF THE AIR HAN-DLER IS NOT INSTALLED AT THE TIME OF THE TEST, TOTAL LEAKAGE SHALL BE LESS THAN OR EQUAL TO 5 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA.
3. A WRITTEN REPORT OF THE TEST RESULTS SHALL BE SIGNED BY THE PARTY CONDUCTING THE TEST AND PROVIDED TO THE CODE OFFICIAL UPON REQUEST.

TEMPERATURE CONTROL

1. THERMOSTAT LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS. MOUNT THERMOSTATS 4'-0" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.
2. PROVIDE INITIAL SETUP AND PROGRAMMING OF ALL CONTROLS AND DEMONSTRATE TO OWNER.
3. CONTROL WIRING LOCATED IN PLENUM SPACE NOT INSTALLED IN CONDUIT SHALL BE PLENUM RATED CABLE.
4. THERMOSTATIC CONTROLS SHALL COMPLY WITH 2015 VIRGINIA ENERGY CONSERVATION CODE SECTION C403.2.4.1

BUILDING ENVELOPE AIR LEAKAGE

1. THE AIR LEAKAGE OF THE BUILDING SHALL BE TESTED PER 2018 VIRGINIA ENERGY CONSERVATION CODE TO COMPLY WITH THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE OF 5.0 AIR CHANGES PER HOUR.

REFRIGERANT PIPING INSULATION

1. APPLICATION:

A. INSULATION SHALL BE A FLEXIBLE, CLOSED-CELL ELASTOMERIC PIPE INSULATION: AP ARMAFLEX, AC ACCOFLEX OR SIMILAR. ADHESIVE SHALL BE ARMAFLEX 520, 520 BLACK OR 520 BLV ADHESIVE OR SIMILAR. R-3 INSULATION MINIMUM. THE INSULATION MUST CONFORM TO ASTM C534 GRADE 1, TYPE I.
B. ALL LIQUID AND SUCTION LINES SHALL BE INSULATED CONTINUOUSLY FROM A POINT 6" INSIDE THE DISPLAY CASE TO THE SUCTION SERVICE VALVE AT THE COMPRESSOR.
C. ALL LOW TEMPERATURE LINES (+10°F AND BELOW) SHALL BE INSULATED WITH A MINIMUM OF 1" WALL THICKNESS.
D. ALL MEDIUM AND HIGH TEMPERATURE LINES (ABOVE +10°F) SHALL BE INSULATED WITH A MINIMUM OF 3/4" WALL THICKNESS.
E. HEAT RECLAIM LINES SHALL BE INSULATED FROM THE CONDENSING UNIT TO THE HEAT RECLAIM UNITS WITH 3/4" THICKNESS.

2. INSTALLATION:

A. ALL REFRIGERANT COPPER LINES MUST BE FREE OF EXTRANEOUS CHEMICALS SUCH AS CORROSIVE CLEANERS OR BUILDING MATERIALS' DUST PRIOR TO THE INSTALLATION OF THE INSULATION. THE INSULATION MUST BE CLEAN AND DRY PRIOR TO INSTALLATION.
B. REFRIGERANT PIPE SHALL BE SEALED WHILE SLIPPING ON INSULATION TO PREVENT FOREIGN MATTER FROM ENTERING THE TUBE.
C. ALL BUTT JOINTS AND MITERED SEAMS SHALL BE ADHERED WITH FULL COVERAGE OF ADHESIVE ON BOTH SURFACES. INSULATION SHALL NOT BE STRETCHED WHEN ADHERING.
D. SADDLES SHALL BE INSTALLED UNDER ALL INSULATED LINES AT UNISTRUT CLAMPS, CLEVIS HANGERS, OR LOCATIONS WHERE INSULATION MAY BE COMPRESSED.
E. ALL INSULATION EXPOSED TO SUNLIGHT OR INSTALLED OUTDOORS SHALL BE PROTECTED WITH TWO COATS OF WB ARMAFLEX FINISH OR WEATHER RESISTANT COATING.

ABBREVIATIONS

ABV	ABOVE
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
BD	BALANCE DAMPER
BDD	BACK DRAFT DAMPER
BLW	BELOW
CA	COMBUSTION AIR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CG	CEILING GRILLE
CR	CEILING REGISTER
CU	CONDENSING UNIT
DN	DOWN
EA	EXHAUST AIR
EF	EXHAUST FAN
ERV	ENERGY RECOVERY
ESP	EXTERNAL STATIC PRESSURE
FD	FIRE DAMPER
FLR	FLOOR
FR	FLOOR REGISTER
HP	HEAT PUMP
HSW	HIGH SIDE WALL
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
INS	INSULATION
INT	INTERIOR
LSW	LOW SIDE WALL
MBH	THOUSAND BTU PER HOUR
MUA	MAKE UP AIR
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OBD	OPPOSED BLADE DAMPER
OPT	OPTIONAL
PDR	POWDER INSULATION
R-6	R-6 INSULATION
R-8	R-8 INSULATION
R/A	RETURN AIR
REF	REFRIGERANT LINE
RG	RETURN GRILLE
RM	ROOM RETURN
RR	REGISTER
SR	SUPPLY REGISTER
S/A	SUPPLY AIR
TD	TRANSFER DUCT
TG	TRANSFER GRILLE
TV	TURNING VANES
VD	VOLUME DAMPER
W/C	WALL CAP
WMS	WIRE MESH SCREEN

MECHANICAL LEGEND

T	THERMOSTAT	VD	VOLUME DAMPER
	EXHAUST FAN	BD	BAROMETRIC OR BYPASS DAMPER
	LIGHT / EXHAUST FAN	ZD-#	MOTOR OPERATED ZONE DAMPER
	S/A REGISTER UP OR OVAL RIGID WALL STACK		RETURN DUCT SECTIONS
	FLOOR REGISTER		SUPPLY DUCT SECTIONS
	CEILING REGISTER		DISTRIBUTION BOX
	OPTIONAL S/A REGISTER UP	14x8	RECTANGULAR METAL DUCTWORK
	OPTIONAL FLOOR REGISTER	14x8	INSULATED RECTANGULAR DUCTWORK
	OPTIONAL CEILING REGISTER	7"	ROUND METAL DUCTWORK
	TRANSFER (COMBUSTION) AIR GRILLE	7"	FLEX DUCTWORK
	LOW SIDE WALL (LSW) OR HIGH SIDE WALL (HSW) REGISTER		INSULATED R/A FLEX DUCTWORK
	LSW OR HSW R/A GRILLE		RIGID & FLEX SUPPLY DUCT
	TWO WAY HSW REGISTER OR LSW REGISTER		
BFD	BACK FLOW DAMPER		
R	REFRIGERANT PIPING		

ENGINEER'S TEAM
430 E 8TH ST STE 8017
HOLLAND MI 49423
SUPPORT@ENGRTEAM.COM
ENGRTEAM.COM

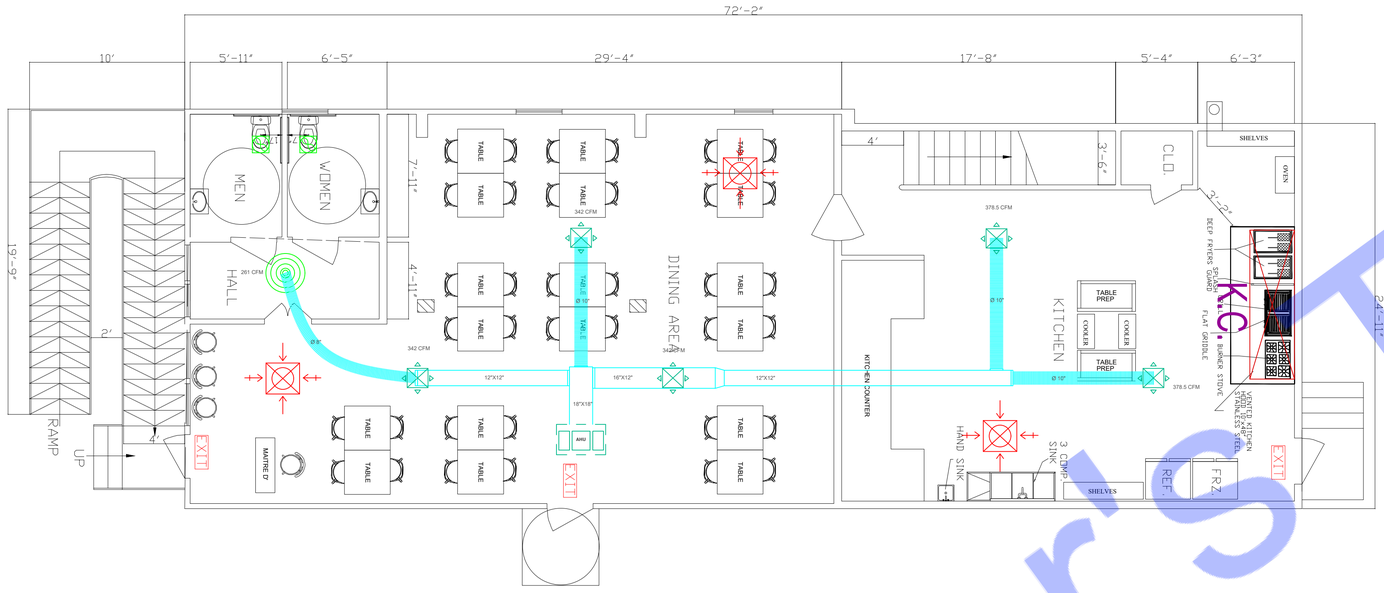
PROJECT:
NEW DIX RESTAURANT PLANS

2212 SOUTH CLAIBORNE AVENUE NEW ORLEANS, LOUVISIANA 70125

For City Stamps:

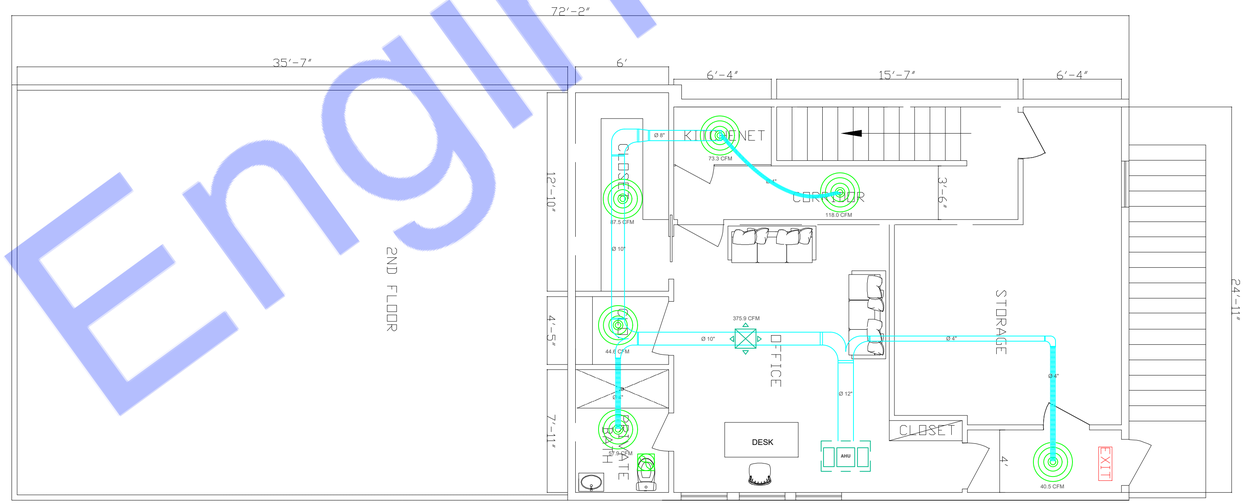
Project No:
Drawn by:
Date: 7/24/25
Sheet Name:
GENERAL NOTE FOR HVAC PLAN

Drawing Number:
H000



1 NEW 1st. FLOOR PLAN

1/4" = 1'-0"



2 NEW 2nd. FLOOR PLAN

1/4" = 1'-0"

Mechanical Legends	
AHU	AIR HANDLING UNIT
RTU	ROOF TOP UNIT
	OUTDOOR CONDENSER
	SUPPLY AIR DIFFUSER
	RETURN AIR DIFFUSER
K.C.	KITCHEN CHIMNEY / HOOD
	EXHAUST FAN
	SUPPLY AIR DUCT

Npote:
This HVAC System Design adheres to:

International Mechanical Code (IMC) 2021 – System safety and performance.

ASHRAE 90.1-2022 – Energy efficiency standards.

Louisiana Mechanical Code – Local amendments.

NFPA 90A/B – Air conditioning and ventilation fire safety.

Key Design Parameters:

HVAC-1 (Main Dining/Kitchen):

Cooling Load: 7.2 Tons (86.1 MBH)

Heating Load: 44.4 MBH

Airflow: 2,043 CFM

Ventilation: 644 CFM (0.37 CFM/ft²)

HVAC-2 (Office/Support Areas):

Cooling Load: 1.5 Tons (18.6 MBH)

Heating Load: 12.7 MBH

Airflow: 798 CFM

Equipment Compliance:

All units meet AHRI Performance Ratings and UL/CSA Safety Standards.

EXHAUST FAN SCHEDULE

MARK	SERVING	CFM	SP	WATTS	RPM	VOLTAGE	MAKE MODEL	NOTES	FAN TYPE
EF-1	BATHROOM	50	-	50	460	120/60/1	Broan-NuTone 688		IN-LINE
EF-2	KITCHEN	375	-	78	460	120/60/1	Broan-NuTone BCSQ130SS		IN-LINE

NOTES
1. COMPLETE W/BACKDRAFT DAMPER.
2. PROVIDE THERMOSTATIC CONTROL DEVICES
3. INTERLOCK TO OPERATE WHENEVER RTU'S OPERATE.
4. MAINTAIN A MINIMUM CLEARANCE OF 10'-0" FROM ALL INTAKE AIR FANS AND ALL ROOF TOP UNITS OUTSIDE AIR INTAKE OPENINGS.

ENGINEER'S TEAM
430 E 8TH ST STE 8017
HOLLAND MI 49423
ENGRTEAM.COM
SUPPORT@ENGRTEAM.COM

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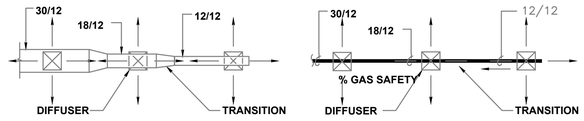
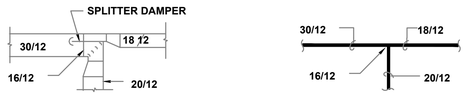
DUCTWORK SYMBOLS LEGEND

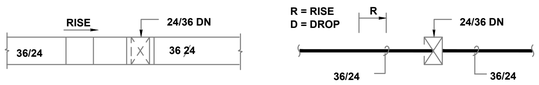
TRANSITIONS



MAIN BRANCH TAKE-OFFS

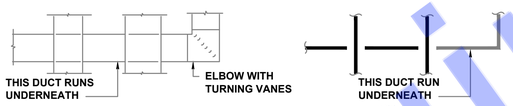


RISERS

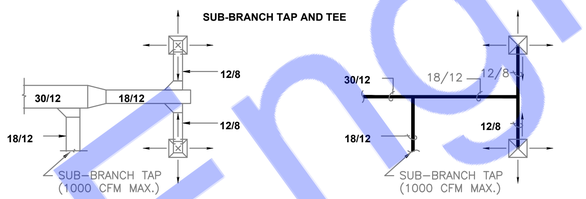


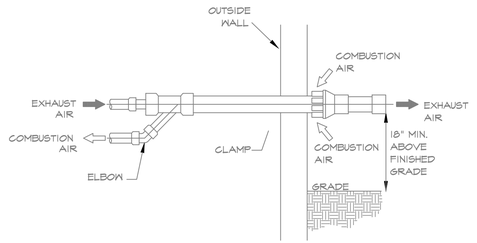
SIDEWALL REGISTERS

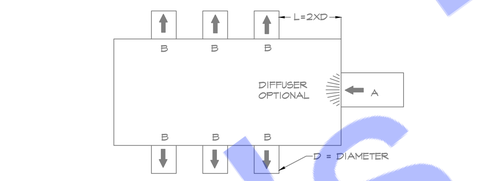
DUCT CROSSOVERS



SUB-BRANCH TAP AND TEE

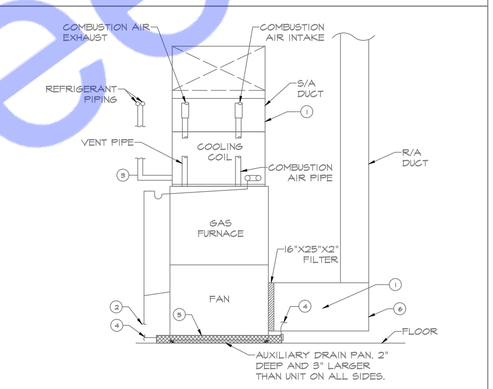






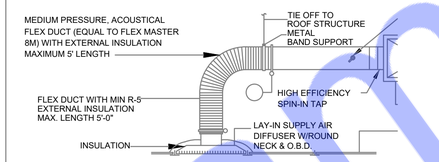
NOTES:

1. ENTRANCE (A) HAS A DIFFUSER FITTING THAT RECOVERS VELOCITY PRESSURES AND PREVENTS SWIRLS (OPTIONAL)
2. STRAIGHT APPROACH (A) AND STRAIGHT EXITS (B).
3. EXITS OPENING ON SIDE (NO TOP OR BOTTOM EXITS).
4. EXIT OPENING AT LEAST TWO DIAMETERS FROM ENTRANCE (L)
5. MAKE BOX AS SMALL AS POSSIBLE BY COMPLYING WITH L = 2 X D

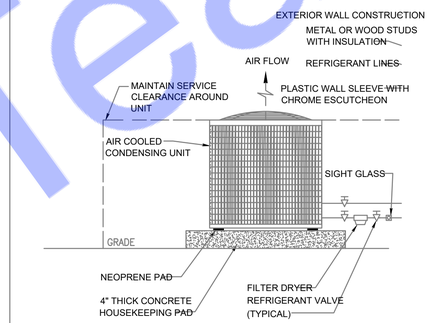


NOTES:

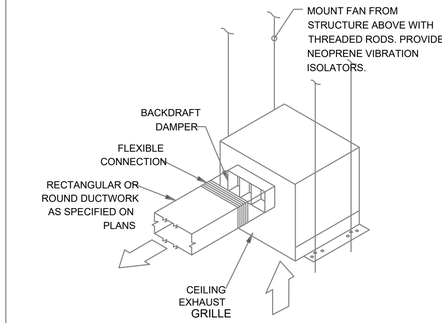
1. INTERNALLY LINED SUPPLY AND RETURN SHEET METAL PLENUMS THAT EXTENDS 10 FEET ON EITHER SIDE OF AHU, FULL SIZE OF UNIT OPENING.
2. 3/4" CONDENSATE DRAIN LINE, ROUTE BEHIND R.A. DUCT AND DOWN TO FLOOR DRAIN. TRAP FOR CONDENSATE IF UNIT HAS NO INTERNAL TRAP.
3. INSTALL REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS AND CODE REQUIREMENTS.
4. PROVIDE EMERGENCY DRAIN PAN WITH FLOAT SWITCH BELOW THE AHU TO DE-ENERGIZE THE AHU PRIOR TO OVERFLOW OF THE PAN. PROVIDE SECONDARY 3/4" CPVC CONDENSATE DRAIN LINE FOR THE EMERGENCY DRAIN PAN THAT DAYLIGHTS INTO ADJACENT HUB DRAIN.
5. EMERGENCY DRAIN PAN: A MINIMUM DEPTH OF 1.5" AND FOOTPRINT NOT LESS THAN 3" LARGER THAN THE UNIT IN WIDTH AND LENGTH. EMERGENCY DRAIN PAN SHALL BE MADE OF CORROSION-RESISTANT MATERIAL WITH MINIMUM THICKNESS AS DEFINED BY CODE REQUIREMENTS.
6. RETURN PLENUM BOX TO MATCH THE SIZE OF UNIT'S RETURN OPENING DUCT.



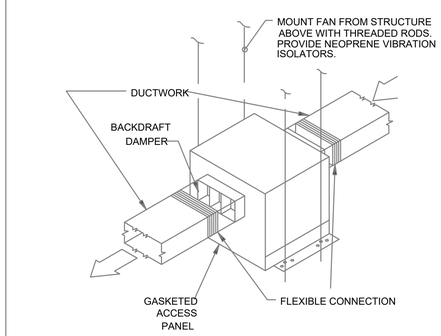
SUPPLY AIR DIFFUSER CONNECTION



OUTSIDE AIR CONDITIONER



CEILING EXHAUST FAN DETAIL



IN-LINE FAN DETAIL

ENGINEER'S TEAM
430 E 8TH ST STE 8017
HOLLAND MI 49423
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SUPPORT@ENGRTEAM.COM

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