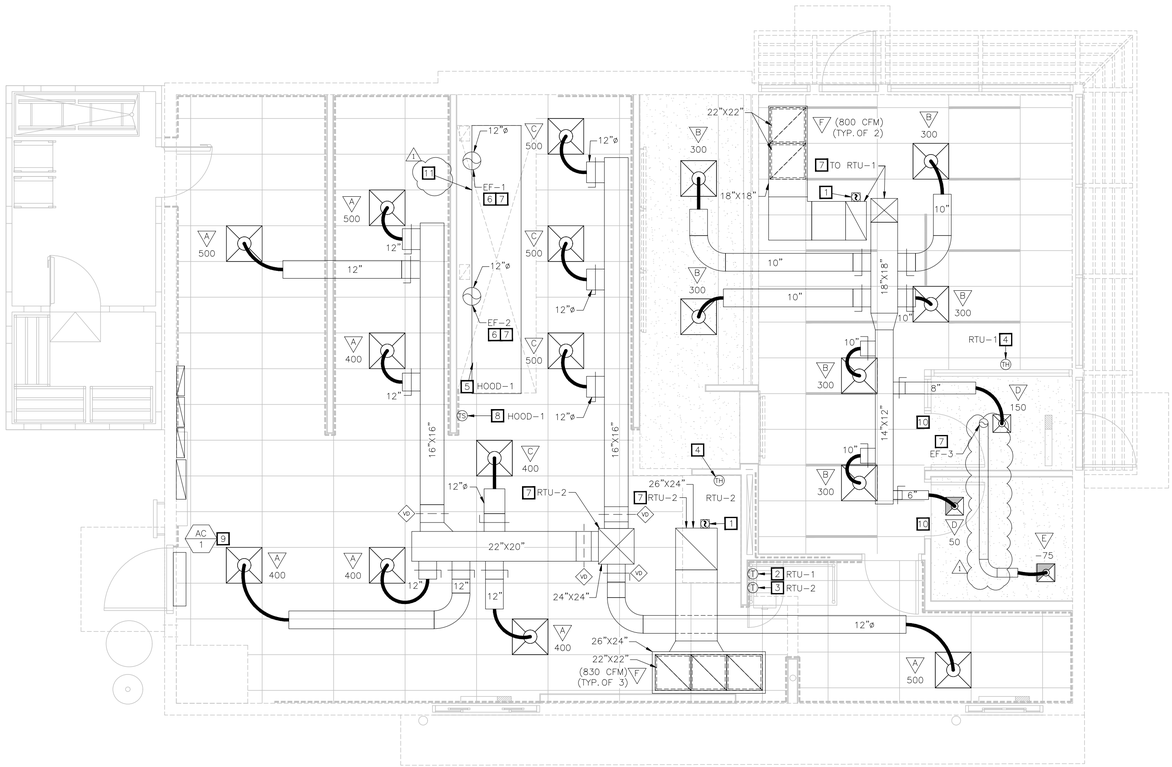


01 MECHANICAL PLAN
1/4"=1'-0"

MECHANICAL KEY NOTES

1. PROVIDE DUCT MOUNTED SMOKE DETECTOR. TIE IN AUDIO-VISUAL ANNUNCIATOR. UPON DETECTION OF SMOKE, ROOFTOP UNIT SHALL SHUT DOWN AND ACTIVATE ALARM. COORDINATE INSTALLATION LOCATION WITH ACCESS REQUIREMENTS.
2. PROVIDE HONEYWELL VISION PRO 8000 TOUCHSCREEN 7-DAY PROGRAMMABLE THERMOSTAT WITH AUTO-CHANGEOVER AND AUTOMATIC START CAPABILITY. MOUNT THERMOSTAT 48" ABOVE FINISHED FLOOR. COORDINATE FINAL INSTALLATION LOCATION OF THERMOSTAT WITH OWNER'S REPRESENTATIVE.
3. PROVIDE MICROPROCESSOR REMOTE INTERFACE. MOUNT MICROPROCESSOR REMOTE INTERFACE 48" ABOVE FINISHED FLOOR. COORDINATE FINAL INSTALLATION LOCATION OF MICROPROCESSOR REMOTE INTERFACE WITH OWNER'S REPRESENTATIVE.
4. PROVIDE COMBINATION TEMPERATURE/HUMIDITY SENSOR. MOUNT SENSOR 48" ABOVE FINISHED FLOOR. HUMIDITY SENSOR SHALL OPERATE REFRIGERATION SYSTEM AND INITIATE HOT GAS REHEAT AS REQUIRED TO MAINTAIN SPACE HUMIDITY AT 55% RH.
5. INSTALL OWNER FURNISHED TYPE I GREASE EXHAUST HOOD. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE TRAPEZE HANGERS FOR ALL THREAD SUPPORT UNDER DUCTWORK AS REQUIRED. REFER TO HOOD DRAWING SET ON SHEET M3.1-M3.4 FOR HOOD SPECIFICATION AND ADDITIONAL INFORMATION.
6. INSTALL OWNER FURNISHED UL-2221 LISTED DOUBLE-WALL GREASE DUCT, EQUAL TO FRANKE SYSTEMS MODEL FRDW-2R ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL FROM HOOD COLLAR EXHAUST FAN ON ROOF. INSTALL EXHAUST DUCT PER MANUFACTURER'S INSTRUCTIONS. PROVIDE CLEANOUTS AT EVERY CHANGE OF DIRECTION IN THE DUCT AND/OR EVERY 10 FEET WITH MINIMUM OF 3 FEET OF CLEARANCE IN FRONT OF CLEAN-OUT.
7. DUCT UP TO EQUIPMENT ON ROOF. REFER TO SHEET M1.2 FOR EQUIPMENT LOCATION.
8. INSTALL ROOM TEMPERATURE SENSOR FOR HOOD THERMOSTATIC CONTROL. SEE HOOD DRAWING SET ON M3.1-M3.4 FOR HOOD SPECIFICATIONS AND ADDITIONAL INFORMATION.
9. PROVIDE AIR CURTAIN. MOUNT UNIT ON WALL DIRECTLY ABOVE DOOR PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
10. UNDERCUT DOOR BY 3/4" FOR AIR TRANSFER
11. PULL STATION & TENSION CABLE FOR KITCHEN HOOD FIRE SUPPRESSION SYSTEM ACTIVATION TO BE PROVIDED BY FIRE SUPPRESSION SUBCONTRACTOR. GENERAL CONTRACTOR TO COORDINATE WITHE ELECTRICAL CONTRACTOR FOR JUNCTION BOX AND CONDUIT TO PULL STATION. LINE-SIZED MECHANICAL (OR ELECTRICAL) GAS SHUT OFF VALVE PROVIDED BY HOOD VENDOR. FIRE SUPPRESSION SUBCONTRACTOR SHALL VERIFY APPROVED LOCATION WITH LOCAL AUTHORITY AND COORDINATE THE COMPLETE INSTALLATION WITH ALL OTHER TRADES

GENERAL NOTES

A. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.

B. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE DUCT RISES AND DROPS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.

C. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

D. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.

E. SUPPORT NEW MECHANICAL SYSTEMS WITH SEISMIC RESTRAINTS IN ACCORDANCE WITH SEISMIC HAZARD LEVEL 'A' OF THE SEISMIC RESTRAINT MANUAL, AS PUBLISHED BY SMACNA, AND IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE, LATEST EDITION.

AIR DISTRIBUTION SIZING - ROUND DUCT

UNLESS NOTED OTHERWISE ON PLANS, THE FOLLOWING CHART SHALL APPLY TO ROUND DUCT SIZES FOR SUPPLY AIR*, EXHAUST AIR, AND RETURN AIR.

SUPPLY AND EXHAUST AIR CFM RANGE	DUCT SIZE	RETURN AIR CFM RANGE
0-100	6"ø	0-70
105-200	8"ø	75-155
205-395	10"ø	160-285
400-605	12"ø	290-465
610-920	14"ø	470-710
925-1200	16"ø	715-1015

* DIFFUSER NECK SIZES SHALL MATCH SUPPLY AIR DUCT SIZING.

Digitally signed by Afsar Hasan PE Lic No_ 41082 NC
DN: C=US, OU=MEP Unit, O=The Dimension Group, CN=Afsar Hasan PE Lic No_ 41082 NC, _
E=ahasan@dimensiongrp.com
Reason: I am the author of this document
Date: 2023-08-02 21:36:51
Foxit PhantomPDF Version: 9.7.5

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description
1	8/01/2023	RESPONSE TO CITY

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

NORTH CAROLINA PROFESSIONAL SEAL 41082 ENGINEER AFSAR HASAN

8.2.2023

Company Logo

THE DIMENSION GROUP
ARCHITECTURE · CIVIL ENGINEERING · MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensiongrp.com

Project

LOUISIANA KITCHEN 19 72
POPEYES

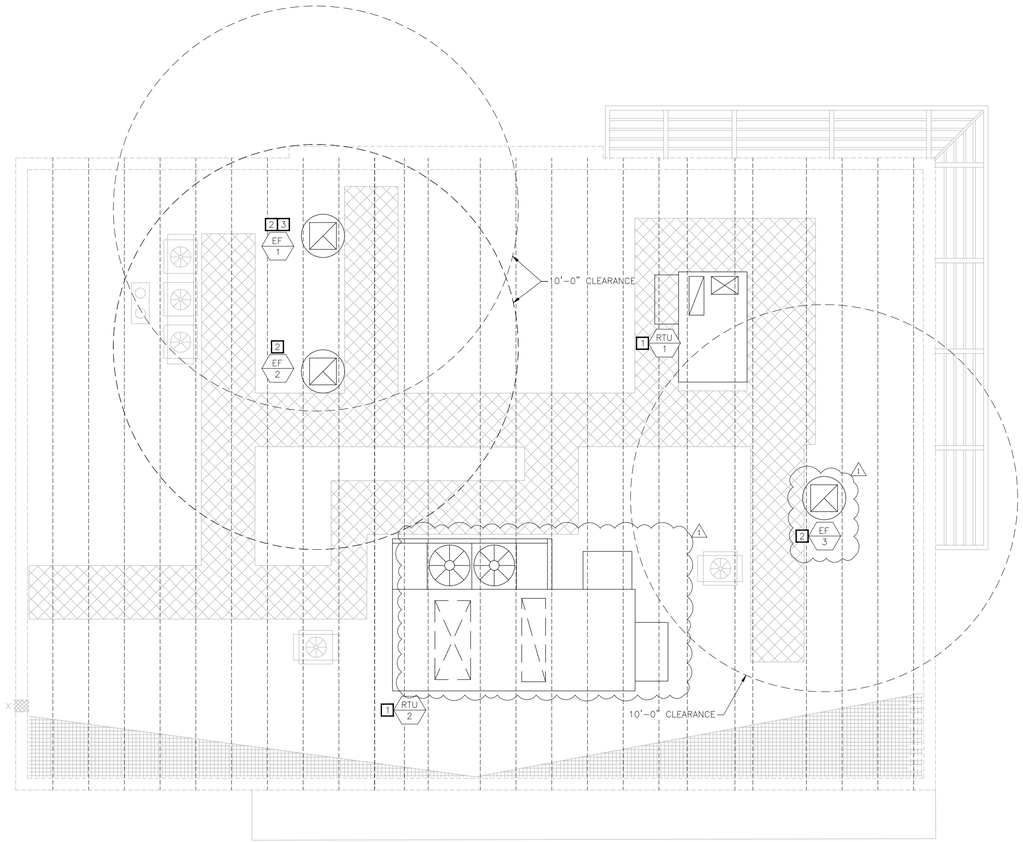
Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
MECHANICAL PLAN

Drawn	Checked
NI	AH
Scale	**Date**
1/4" = 1'-0"	JUNE 2023
Project No.	**Drawing No.**
C22-129	M1.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



01 MECHANICAL ROOF PLAN
1/4"=1'-0"

MECHANICAL KEY NOTES

1. PROVIDE ROOFTOP UNIT AND CURB. COORDINATE UNIT WITH STRUCTURE. SHIM UNIT AND CURB LEVEL FOR PROPER CONDENSATE DRAINAGE. PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AND RETURN AIR DUCT CONNECTIONS. TRANSITION TO DUCT SIZES SHOWN ON SHEET M1.1.
2. INSTALL OWNER FURNISHED ROOF MOUNTED EXHAUST FAN AND CURB.
3. INSTALL OWNER FUNISHED WIND BAND EXTENSION FOR GREASE EXHAUST FAN. EXHAUST TERMINATION MUST BE EQUAL OR HIGHER THAN ANY WALL OR PARAPET WITHIN 5'-0" OF FAN. VERIFY REQUIRED HEIGHT PRIOR TO BID AND COORDINATE WITH HOOD MANUFACTURER FOR ADDITION TO EQUIPMENT PRIOR TO BID.

GENERAL NOTES

A. SEAL ALL ROOF PENETRATIONS WATER TIGHT. COORDINATE ALL PENETRATIONS WITH GENERAL CONTRACTOR AND ROOFING CONTRACTOR.

B. ALL OUTDOOR INTAKES SHALL BE LOCATED AT LEAST 10 FEET FROM EXHAUST OUTLETS, APPLIANCE FLUES AND PLUMBING VENTS.

C. MAINTAIN ALL CODE AND MANUFACTURER'S RECOMMENDED CLEARANCES AROUND ALL ROOF EQUIPMENT.

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

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No.	Date	Description
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DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

NORTH CAROLINA PROFESSIONAL SEAL 41082 ENGINEER ANDREW HUGHSON

8.2.2023

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10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensiongrp.com

Project

LOUISIANA KITCHEN 1972
POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
MECHANICAL ROOF PLAN

Drawn	Checked
NI	AH
Scale	**Date**
1/4" = 1'-0"	JUNE 2023
Project No.	**Drawing No.**
C22-129	M1.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

2018 INTERNATIONAL MECHANICAL CODE - TABLE 403.3.1.1 VENTILATION SUMMARY

OCCUPANCY CATEGORY	PEOPLE OUTDOOR AIR RATE - (Rp) (CFM/PERSON)	AREA OUTDOOR AIR RATE - (Ra) (CFM/SQ.FT.)	OCCUPANCY DENSITY P/1,000 SQ.FT.	OCCUPANCY CLASSIFICATION P/1,000 SQ.FT.	CALCULATED OCCUPANCY DENSITY	ZONE OCCUPANCY OVERRIDE	PEOPLE EXPECTED TO OCCUPY THE ZONE - (Pz)	Rp*Pz	Ra*Az	AREA - (Az) SQ.FT.	ZONE AIR DISTRIBUTION EFFECTIVENESS - Ez	BREATHING ZONE OUTDOOR AIRFLOW - (Vbz) CFM	ZONE OUTDOOR AIRFLOW (Voz) Voz=Vbz/Ez	ZONE PRIMARY AIRFLOW (Vpz)	PRIMARY OUTDOOR AIR FRACTION (Zp) Zp=Voz/Vpz	OCCUPANT DIVERSITY RATIO (D)	UNCORRECTED OUTDOOR AIR INTAKE (Vou) CFM	SYSTEM VENTILATION EFFICIENCY Ev	CORRECTED OUTDOOR AIRFLOW (Vot) CFM	PROVIDED OUTDOOR AIRFLOW CFM
RTU-1																				
DINING	7.5	0.18	70	DINING	26	—	26	194	67	370	0.8	261	326	1400	0.23		261		284	
SALES	7.5	0.12	20	KITCHEN	3	—	3	20	16	130	0.8	35	44	400	0.11		35		35	
VESTIBULE	—	0.06	—	CORRIDOR	—	—	—	—	2	40	0.8	2	3	150	0.02		2		3	
RESTROOM	—	—	—	RESTROOM	—	—	—	—	—	55	0.8	—	—	50	—		—		—	
	SYSTEM POPULATION INCLUDING DIVERSITY (Ps) =						26							MAX. Zp =	0.23	1.00	298	0.92	324	400
DOAS-1																				
KITCHEN	7.5	0.12	20	KITCHEN	4	—	4	32	25	210	0.8	57	71	1600	0.04		57		57	
BOH	7.5	0.12	20	KITCHEN	14	—	14	107	85	710	0.8	192	240	2800	0.09		192		192	
DRIVE THRU	7.5	0.12	20	KITCHEN	2	—	2	17	13	110	0.8	30	37	400	0.09		30		30	
	SYSTEM POPULATION INCLUDING DIVERSITY (Ps) =						21							MAX. Zp =	0.09	1.00	278	1.00	278	2,500

ROOFTOP UNIT SCHEDULE

MARK (RTU- #)	1	2	
MANUFACTURER	CARRIER	GREENHECK	
MODEL	50GCBK06	RV-45-15	
AIR FLOW (CFM)	2,000	5,000	
OA FLOW (CFM)	400	2,500	
AMBIENT OAT (*F)	95.5	95.5	
EXTERNAL STATIC (IN. W.C.)	0.60	1.00	
DX COOLING COIL			
EAT (*FDB/WB)	80/67	80/67	
TOTAL (BTU/HR)	59,000	202,000	
SENSIBLE (BTU/HR)	46,800	141,100	
ELECTRIC HEAT			
FUEL	ELECTRIC (332A)	ELECTRIC	
ELECTRIC HEAT (KW)	18.4	57.4	
WINTER SA TEMP (°F)	87	81	
FLA (Amps)	51.1	159.3	
ELECTRICAL			
VOLTS/Ø/HZ	208-230/3/60	208/3/60	
UNIT MCA	83	181.3	
MOCP AMPS	90	200	
APPROX. WEIGHT (LBS)	844	3,012 (±5%)	
EER (SEER)	12.8 (17.4)	11	
NOTES	1-14	1-11,13-15	

NOTES:
1) PROVIDE FACTORY FABRICATED 14" HIGH ROOF CURB. CURB SHALL MATCH SLOPE OF ROOF. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION
2) PROVIDE FACTORY MOUNTED WEATHERHOOD AND BIRDSCREEN AT OUTSIDE AIR INTAKE.
3) PROVIDE FACTORY INSTALLED LOW-LEAK DRY BULB ECONOMIZER WITH FAULT DETECTION AND DIAGNOSTICS.
4) PROVIDE UNIT WITH LOUVERED HAIL GUARDS.
5) PROVIDE 5 MINUTE COMPRESSOR RESTART TIME DELAY.
6) PROVIDE FILTER RACK AND 2 SETS OF MERV 8 FILTERS.
7) PROVIDE FACTORY MOUNTED AND WIRED DISCONNECT SWITCH.
8) CONTRACTOR SHALL INSTALL ALL COMPONENTS SHIPPED LOOSE TO THE FIELD.
9) PROVIDE WITH FACTORY CONDENSATE OVERFLOW SWITCH, FOIL FACED INSULATION, AND HINGED ACCESS PANELS.
10) SET MINIMUM OUTSIDE AIR AS SPECIFIED ABOVE. FIELD SET 2 MINIMUM POSITIONS TO MAINTAIN SCHEDULED OUTSIDE AIR FLOW RATE AT SUPPLY FAN MINIMUM AND MAXIUM SPEEDS. OUTSIDE AIR DAMPER SHALL FULLY CLOSE UPON UNIT SHUTDOWN
11) PROVIDE POWERED GFCI CONVENIENCE OUTLET. OUTLET TO BE POWERED BY LINE SIDE OF DISCONNECT.
12) PROVIDE FAN WITH 2-SPEED FAN CONTROL.
13) PROVIDE FACTORY MOUNTED POWER EXHAUST.
14) PROVIDE HOT GAS REHEAT COIL FOR DEHUMIDIFICATION WITH HUMIDISTAT SET TO 55% R.H.
15) PROVIDE FACTORY MOUNTED SINGLE ZONE VAV AND DIGITAL SCROLL COMPRESSOR.

1

AIR BALANCE SCHEDULE

	RTU-1	RTU-2	EF-1	EF-2	EF-3	TOTALS
OUTSIDE AIR FLOW (CFM)	400	2,500	0	0	0	2,900
RETURN AIR FLOW (CFM)	1,600	2,500	0	0	0	4,100
SUPPLY AIR FLOW (CFM)	2,000	5,000	0	0	0	7,000
EXHAUST AIR FLOW (CFM)	0	0	1,230	1,230	75	2,535
BUILDING PRESSURE (CFM)	400	2,500	-1,230	-1,230	-75	365
RESULTING BUILDING PRESSURIZATION (CFM)						365

EXHAUST AND VENTILATION FAN SCHEDULE - OWNER FURNISHED

MARK (EF-#)	1	2	3	
MANUFACTURER	FRANKE	FRANKE	FRANKE	
MODEL	FR-DU50HFA	FR-DU50HFA	FR-DR10HFA	
TYPE	UPBLAST	UPBLAST	DOWNBLAST	
DRIVE TYPE	DIRECT	DIRECT	DIRECT	
PERFORMANCE				
AIR FLOW (CFM)	1,230	1,230	75	
EXT. STATIC (IN W.C.)	0.8	0.8	0.125	
FAN SPEED (RPM)	1,500	1,500	1,015	
ELECTRICAL				
VOLTS/Ø/HZ	120/1/60	120/1/60	120/1/60	
FAN MOTOR HP	1/2	1/2	1/8	
ACCESSORIES	GDC,RC,WB	GDC,RC	BD,BS,DS,RC,SC	
APPROX. WEIGHT (LBS)	120	120	75	
SERVES	HOOD	HOOD	RESTROOM	
NOTES	1,2,3	1,2,3	3,4	

ACCESSORIES:
BD-BACKDRAFT DAMPER, BS-BIRD SCREEN, DS-DISCONNECT SWITCH, GDC-GREASE DRAIN AND CUP,
RC-ROOF CURB PER HOOD PACKAGE SPECIFICATION, SC-FACTORY MOUNTED AND WIRED SPEED CONTROL,
WB-WIND BAND EXTENSION, WP-NEMA 3R DISCONNECT SWITCH

NOTES:
1) FAN SHALL BE CONTROLLED BY SWITCH AT KITCHEN HOOD. INTERLOCK RTU-1 AND RTU-2 TO OPERATE IN OCCUPIED MODE WHILE HOOD EXHAUST FAN IS ENERGIZED. SEE HOOD PACKAGE ON M3.x SHEETS FOR MORE INFORMATION.
2) PROVIDE WITH VARIABLE SPEED CONTROLLER.
3) COORDINATE WITH MANUFACTURER FOR FINAL SELECTION.
4) ELECTRICAL CONTRACTOR SHALL INTERLOCK FAN WITH TIMECLOCK.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

MARK	A	B	C
MANUFACTURER	TITUS	TITUS	TITUS
MODEL	TMS-AA	TMS-AA	PAR-AA
TYPE	SQUARE CONE DIFFUSER	SQUARE CONE DIFFUSER	PREFORATED FACE DIFFUSER
NECK SIZE (L"XW")	PER PLAN	PER PLAN	PER PLAN
FACE SIZE (L"XW")	24"X24"	24"X24"	24"X24"
FRAME TYPE	LAY-IN	LAY-IN	LAY-IN
FINISH	WHITE	WHITE	WHITE
NOISE CRITERIA LEVEL	<30	<30	<30
ACCESSORIES		TRM	

MARK	D	E	F
MANUFACTURER	TITUS	TITUS	TITUS
MODEL	TMS-AA	355FL	50F
TYPE	SQUARE CONE DIFFUSER	LOUVERED EXHAUST GRILLE	EGGCRATE GRILLE
NECK SIZE (L"XW")	PER PLAN	10"X10"	22"X22"
FACE SIZE (L"XW")	12"X12"	12"X12"	24"X24"
FRAME TYPE	LAY-IN	SURFACE	LAY-IN
FINISH	WHITE	WHITE	WHITE
NOISE CRITERIA LEVEL	<30	<30	<30
ACCESSORIES	TRM	STR	

ACCESSORIES:
STR-SQUARE TO ROUND TRANSITION (AS REQUIRED), TRM-RAPID MOUNT SHEETROCK FRAME

AIR CURTAIN SCHEDULE

MARK (AC-#)	1	
MANUFACTURER	MARS	
MODEL	LPV236-1UA-OB	
AIR FLOW (CFM)	900	
ELECTRICAL		
VOLTS/Ø/HZ	115	
MOTOR QUANTITY	1	
MOTOR HP	1/6	
MCA (AMPS)	3	
MOCP (AMPS)	15	
FINISH	OBSIDIAN BLACK	
APPROX. WEIGHT (LBS)	32	
NOTES	1-3	

NOTES:
1) PROVIDE WITH INTREGRAL DISCONNECT SWITCH.
2) PROVIDE WITH DOOR MICRO-SWITCH.
3) PROVIDE WITH FILTER.
4) PROVIDE MOUNTING HARDWARE REQUIRED BY MANUFACTURER FOR COMPLETE INSTALLATION.

ISSUE TABLE

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N
PROJECT NORTH

NORTH CAROLINA PROFESSIONAL SEAL 41082 ENGINEER AFSAR HASAN

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8.2.2023

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10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensiongrp.com

Project

LOUISIANA 19 72 KITCHEN
POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

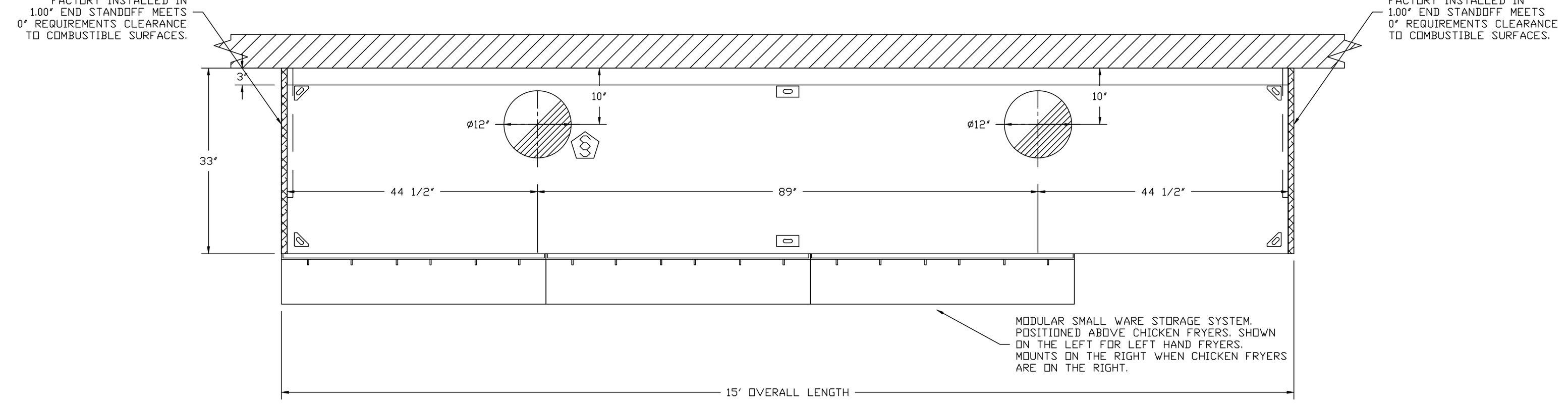
Location
1517 NC 24-87
CAMERON, NC

Drawing Title
MECHANICAL SCHEDULES

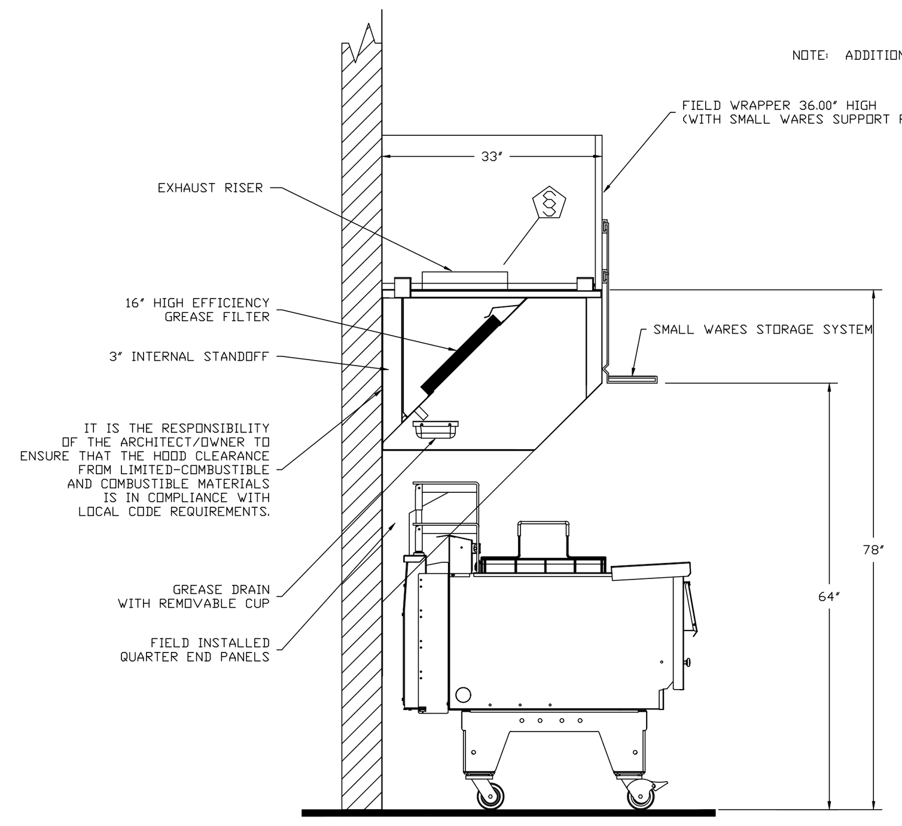
Drawn	Checked
NI	AH
Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	M2.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

EXHAUST HOOD DETAIL

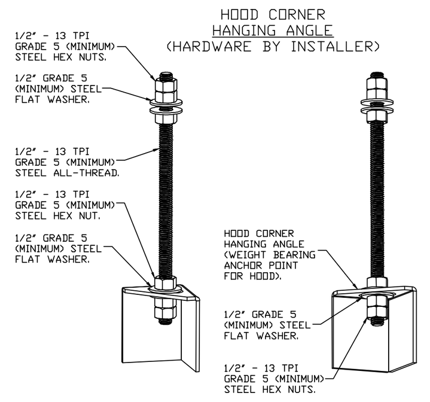


PLAN VIEW – HOOD #1
15' LONG 3347FR-BD-2
NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.



SECTION VIEW – MODEL 3347FR-BD-2
HOOD – #1

HOOD CORNER
HANGING ANGLE
(HARDWARE BY INSTALLER)



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.

1/1 EXHAUST HOOD DETAIL
SCALE: NO SCALE

FRANKE

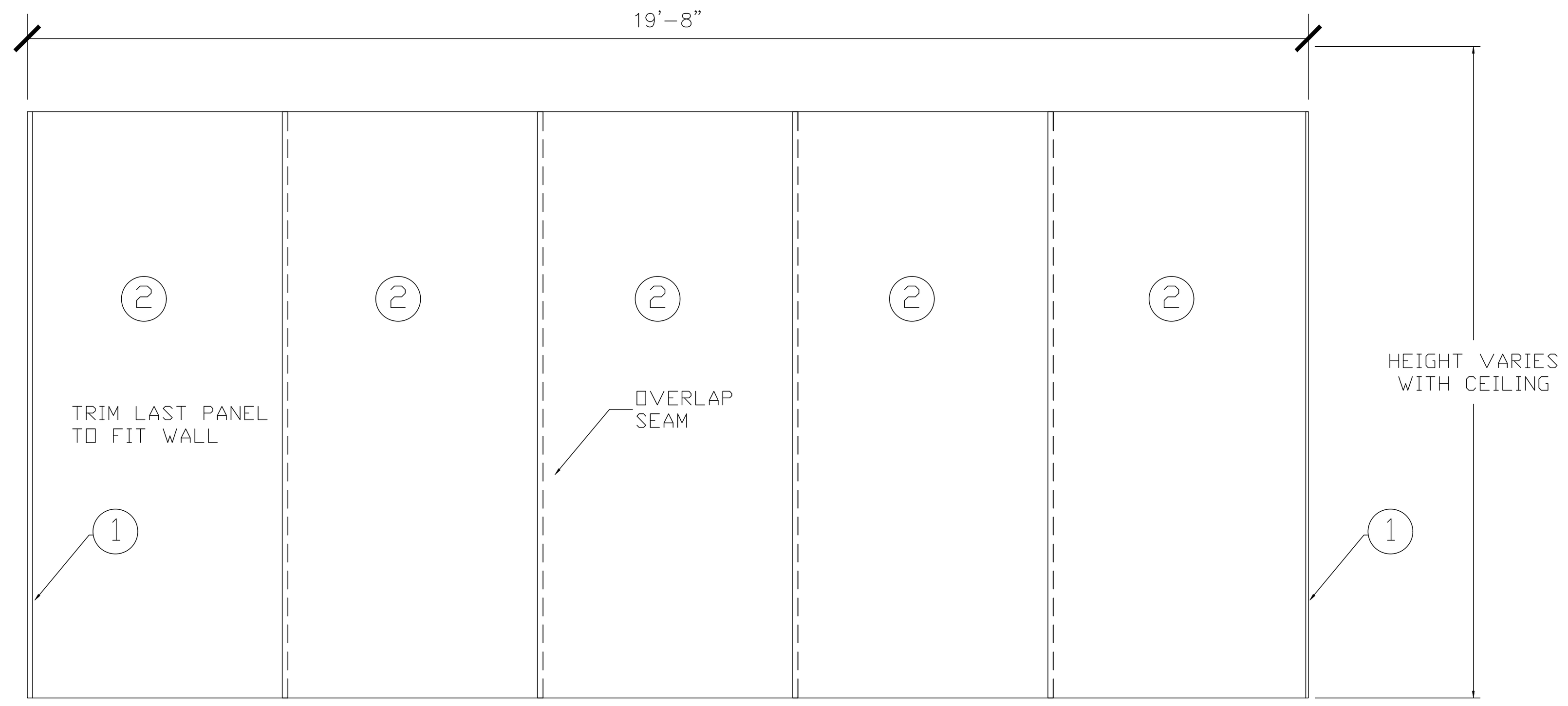
PLK 2112
15' HOOD PACKAGE

FRANKE FOODSERVICE SYSTEMS AMERICAS, INC.

800 AVIATION PARKWAY
SMYRNA, TN USA 37167

PHONE: 1-800-877-5178
WWW.FRANKESUPPLY.COM
FS-BKSALES.US@FRANKE.COM

FRYER HOOD DETAIL



COVERS ENTIRE WALL BEHIND HOOD

ITEM	QTY	DESCRIPTION
1	2	S/S CAP STRIP
2	5	WALL FLASHING 48" WIDE

2/1 BACKSPLASH DETAIL
SCALE: NO SCALE

Revision #	Date	Description	By
A	10/01/20	INITIAL ISSUE	AM029
-	-	-	

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

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No.	Date	Description

PROJECT NORTH

NORTH CAROLINA PROFESSIONAL SEAL 41082 ENGINEER AFSAR HASAN
[illegible]
8.2.2023

FRANKE

Franke Foodservice Systems Americas, Inc.

800 Aviation Parkway
Smyrna, TN USA 37167

Tel. +800 472-2954
fs_customerservice.us@franke.com
www.frankesupply.com

Account: POPEYES
Restaurant # PLK 2112
Title WALL MOUNTED INSTALLATION DETAIL
Site ID -
Operator -
Site Address -
City -
State - Zip Code - Country -
Region -
Building Type -
Electrical Service -
Gas Service -
Market Manager -
Franke Project Number -
Created by: HP033
Date Issued 10/01/20
Modified By: AM029
Drawing Scale AS NOTED
Units INCHES
Revision A
Drawing Number -
Sheet Name 1 OF 4

Company Logo

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ARCHITECTURE • CIVIL ENGINEERING • MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensiongrp.com

Project

LOUISIANA 19 72 KITCHEN
POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
MECHANICAL HOOD DRAWINGS

Drawn	Checked
NI	AH
Scale: 1/4" = 1'-0"	Date: JUNE 2023
Project No.: C22-129	Drawing No.: M3.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

EXHAUST FAN DATA

EXHAUST FAN INFORMATION – PLK 2136 PROTO

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF-LEFT	1	FR-DU50HFA	FRANKE FOODSERVICE	1231	0.800	1501	TEAO-ECM	0.500	0.3500	1	115	6.3	468 FPM	78	15.9
2	EF-RIGHT	1	FR-DU50HFA	FRANKE FOODSERVICE	1231	0.800	1501	TEAO-ECM	0.500	0.3500	1	115	6.3	468 FPM	78	15.9

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-LEFT	1	GREASE BOX.
		1	EXHAUST FAN HEAT BAFFLE.
		1	ECM WIRING PACKAGE – PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION.
2	EF-RIGHT	1	GREASE BOX.
		1	EXHAUST FAN HEAT BAFFLE.
		1	ECM WIRING PACKAGE – PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION.

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-LEFT	YES						
2	EF-RIGHT	YES						

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-LEFT	34 LBS	CURB	19.500"W X 19.500"L X 24.000"H HINGED.
2	# 2	EF-RIGHT	34 LBS	CURB	19.500"W X 19.500"L X 24.000"H HINGED.

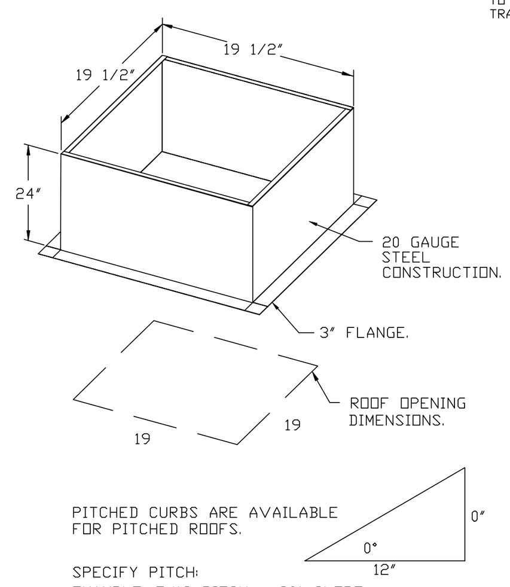
FEATURES:

- 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.

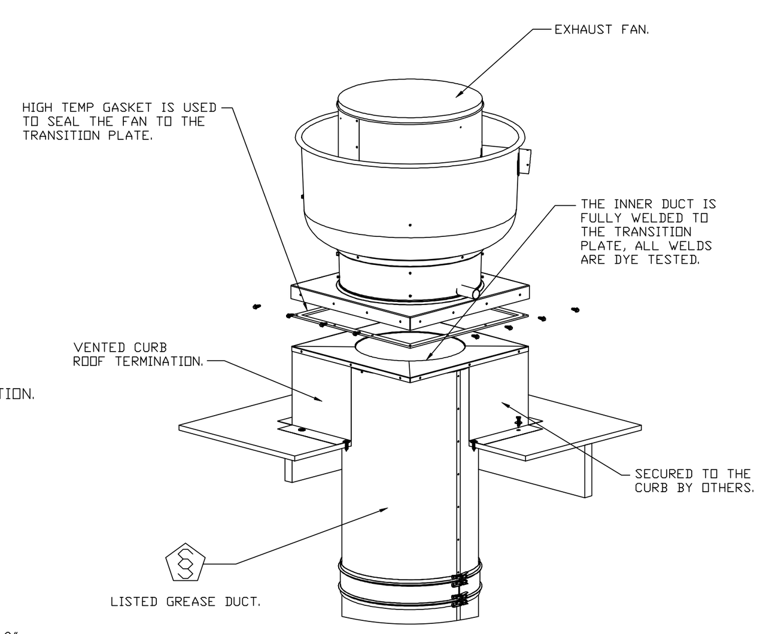
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS
GREASE BOX.
EXHAUST FAN HEAT BAFFLE.
FAN BASE CERAMIC SEAL – SHIP LOOSE – FOR GREASE DUCTS.
ECM WIRING PACKAGE – MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION.

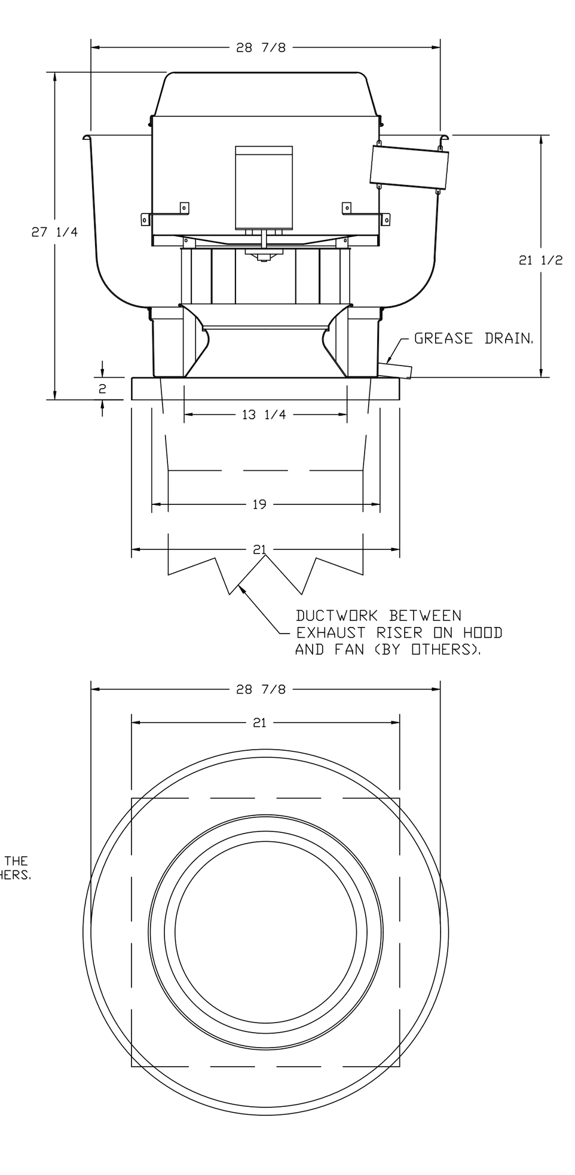


PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.



FANS #1 (EF-LEFT), #2 (EF-RIGHT) – FR-DU50HFA EXHAUST FAN



4 / 2 EXHAUST FAN DATA
SCALE: NO SCALE

EXHAUST HOOD DATA

HOOD INFORMATION – PLK 2136 PROTO

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1		3347 FR-BD-2	FRANKE FOODSERVICE	14' 10"	450 DEG	I	MEDIUM	166	2462			4"	12"	1231	1567	-0.734"	430 SS WHERE EXPOSED	ALONE	ALONE
												4"	12"	1231	1567	-0.734"			

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S) FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		HIGH EFFICIENCY	11	16"	16"	>70%	0									YES	449 LBS

(S) GREASE DUCT & CHIMNEY SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO FRANKE FOODSERVICE SYSTEMS MODEL "FRDW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "FRDW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "FRDW" 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 "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

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

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

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 ________

3 / 2 EXHAUST HOOD DATA
SCALE: NO SCALE

RESTROOM EXHAUST FAN DATA

EXHAUST FAN INFORMATION – JOB PLK PROTO

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
3	RESTROOM	1	FR-DR10HFA	75	0.25	1015	TEAO-ECM	0.166	0.02	1	115	1.9		50	1.9

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
3	RESTROOM		YES					

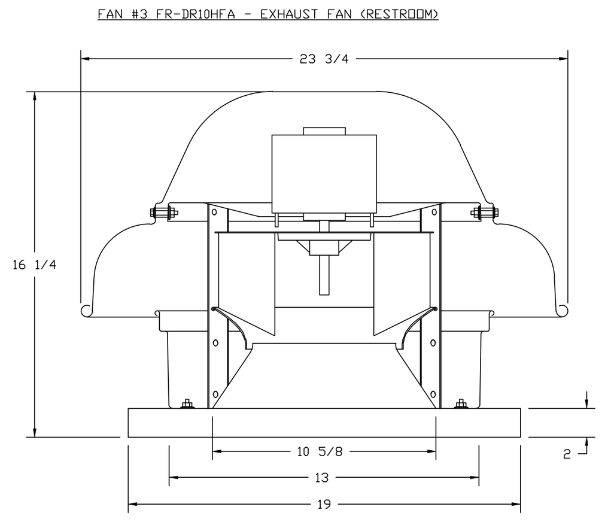
FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
3	RESTROOM	1	I 12-BDD DAMPER.
		1	ECM WIRING PACKAGE – MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION.

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
3	# 3	RESTROOM	25 LBS	CURB	17.500"W X 17.500"L X 20.000"H .

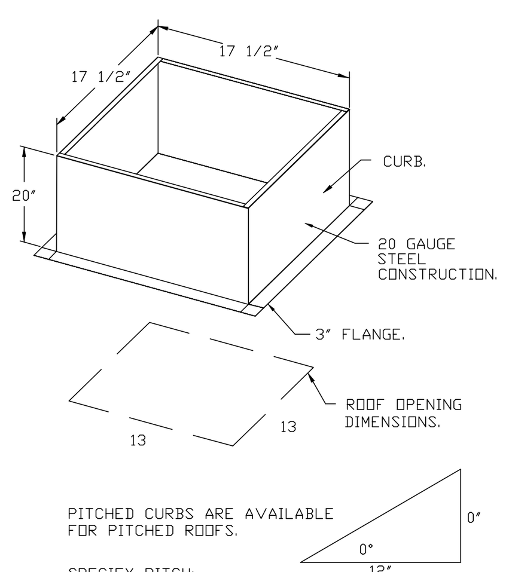
FAN #3 FR-DR10HFA – EXHAUST FAN (RESTROOM)



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.

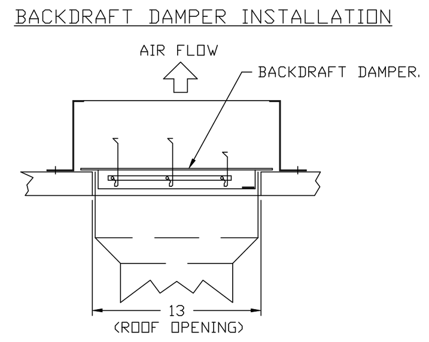
OPTIONS
I 12-BDD DAMPER.
ECM WIRING PACKAGE – MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE.

BACKDRAFT DAMPER INSTALLATION



CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED ☐
APPROVED WITH NO EXCEPTION TAKEN ☐
REVISE AND RESUBMIT ☐
SIGNATURE ________
YOUR TITLE ________ DATE ________

5 / 2 RESTROOM EXHAUST FAN DATA
SCALE: NO SCALE

Revision #	Date	Description	By
A	10/01/20	INITIAL ISSUE	AM029
-	-	-	

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description
1	8/01/2023	RESPONSE TO CITY

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE POPEYES LOUISIANA KITCHEN REPRESENTATIVE PRIOR TO COMMENCING WORK. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS INDICATED BY POPEYES LOUISIANA KITCHEN AS "ISSUED FOR CONSTRUCTION".

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 41082 AFSAR HASAN
[illegible]
8.2.2023

FRANKE

Franke Foodservice Systems Americas, Inc.

800 Aviation Parkway
Smyrma, TN USA 37167

Tel. +800 472-2954
fs_customerservice.us@franke.com
www.frankesupply.com

Company Logo

THE DIMENSION GROUP
ARCHITECTURE · CIVIL ENGINEERING · MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensiongrp.com

Account: POPEYES
Restaurant # PLK 2112
Title WALL MOUNTED INSTALLATION DETAIL
Site ID -
Operator -
Site Address -
City - -
State Zip Code - Country
Region -
Building Type -
Electrical Service -
Gas Service -
Market Manager -
Franke Project Number -
Created by: HP033
Date Issued 10/01/20
Modified By: AM029
Drawing Scale AS NOTED
Units INCHES
Revision A
Drawing Number -
Sheet Name 2 OF 4

Project

LOUISIANA 19 72 KITCHEN
POPEYES

Store Type
US 2112 PROTOTYPE 2112-21

Location
1517 NC 24-87
CAMERON, NC

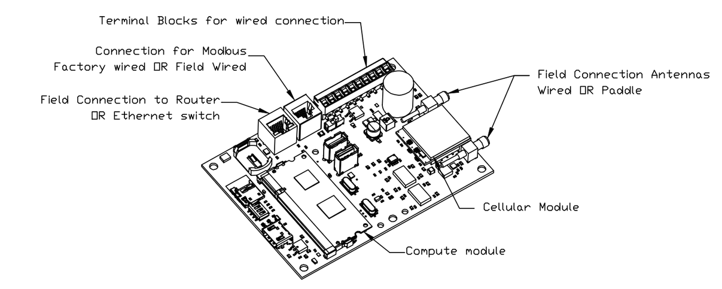
Drawing Title
MECHANICAL HOOD DRAWINGS

Drawn	Checked
NI	AH
Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	M3.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

ELECTRICAL PACKAGE – JOB#4702950

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	HP	VOLT	FLA
1		SC-120110MA_MA4	WALL MOUNT IN SS BOX	05 - SS WALL MOUNT BOX	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EF-LEFT	EXHAUST	1	0.500	115	6.3
					1 FAN		EF-RIGHT	EXHAUST	1	0.500	115	6.3



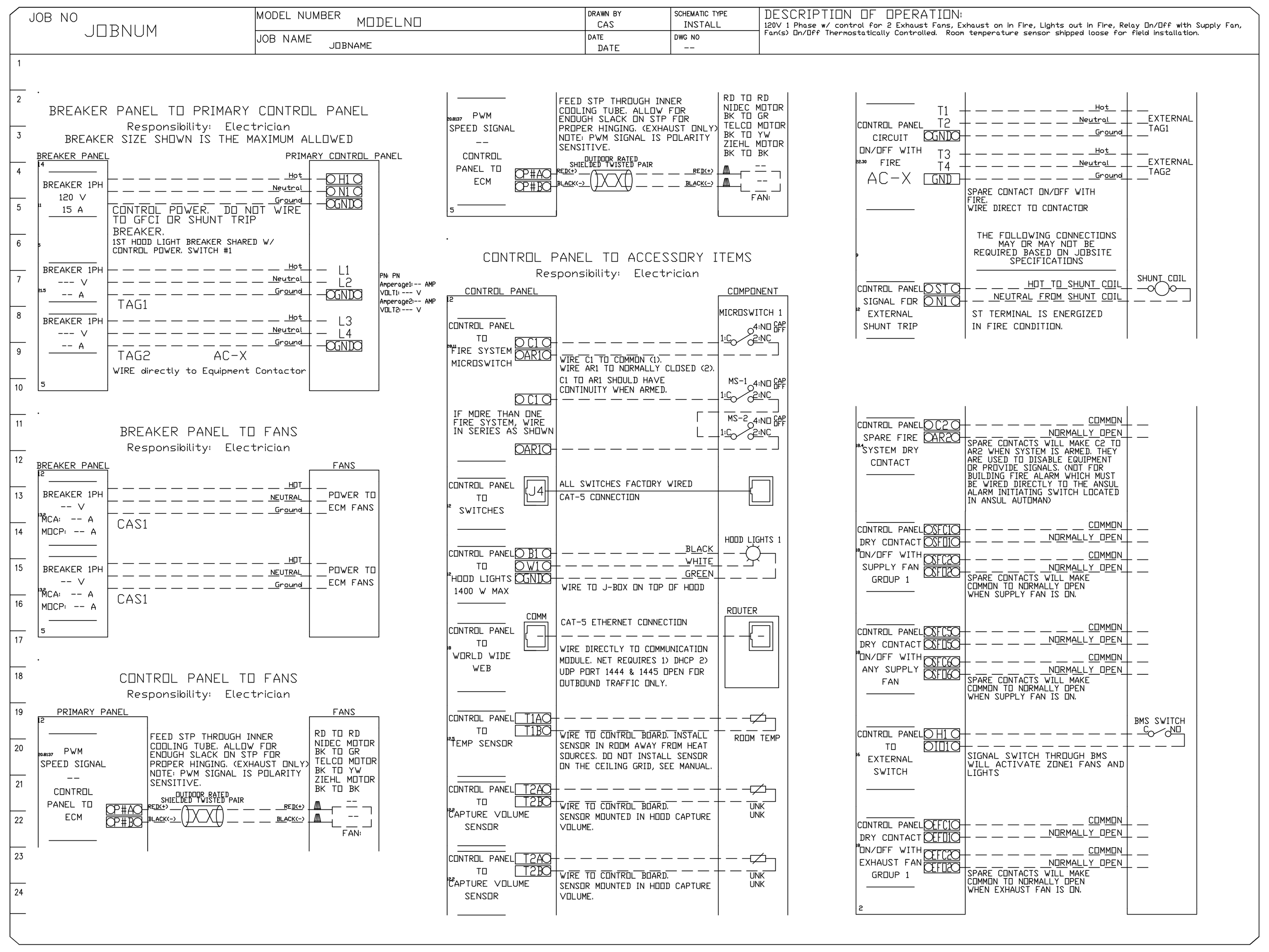
CASlink Monitor and Control

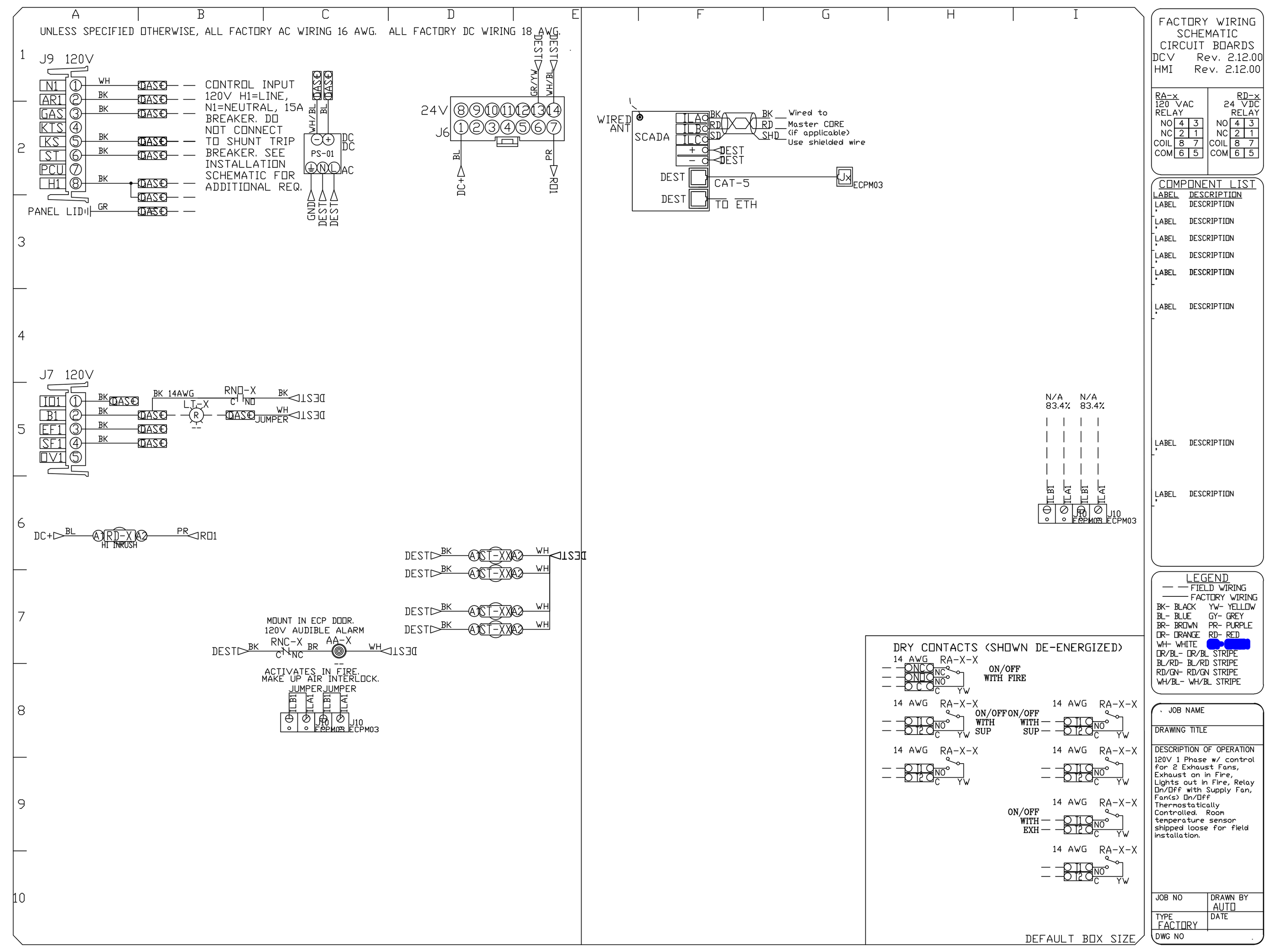
– Hood control panel to support communications to cloud-based Building Management System.
– Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
– Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
– Hood Control Panel to allow cloud-based Building Management System to implement SYSTEM ECONOMIZER control strategies for fully integrated Building Management.

MONITORING AND CONTROL POINTS LIST

DCV Packages	Function
Room Temperature	MONITOR
Duct Temperature(s)	MONITOR
MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR
Fan Amperage	MONITOR
Fan Power	MONITOR
VFD Faults	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressures	MONITOR
Prep Time Button	MONITOR & CONTROL
Fans Button	MONITOR & CONTROL
Lights Button	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL

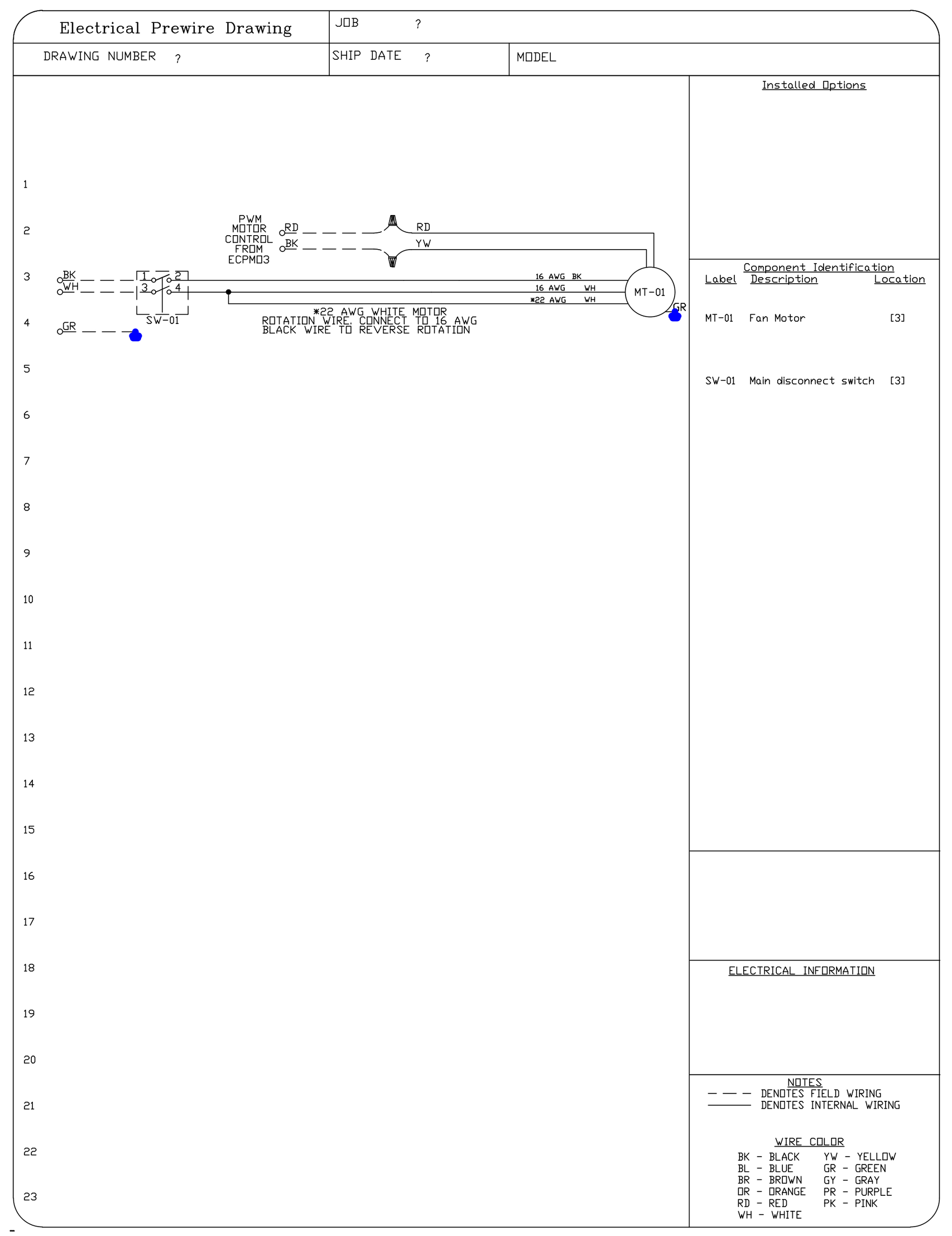
SC Packages	Function
Room Temperature(s)	MONITOR
Duct Temperature(s)	MONITOR
MUA DIscharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR
Controller Faults	MONITOR
Fan Faults	MONITOR
Fan Status	MONITOR
PCU Faults	MONITOR
PCU Filter Clog Percentages	MONITOR
Fire Condition	MONITOR
CORE Fire System	MONITOR
Building Pressures	MONITOR
Fans Button(s)	MONITOR & CONTROL
Lights Button(s)	MONITOR & CONTROL
Wash Button	MONITOR & CONTROL



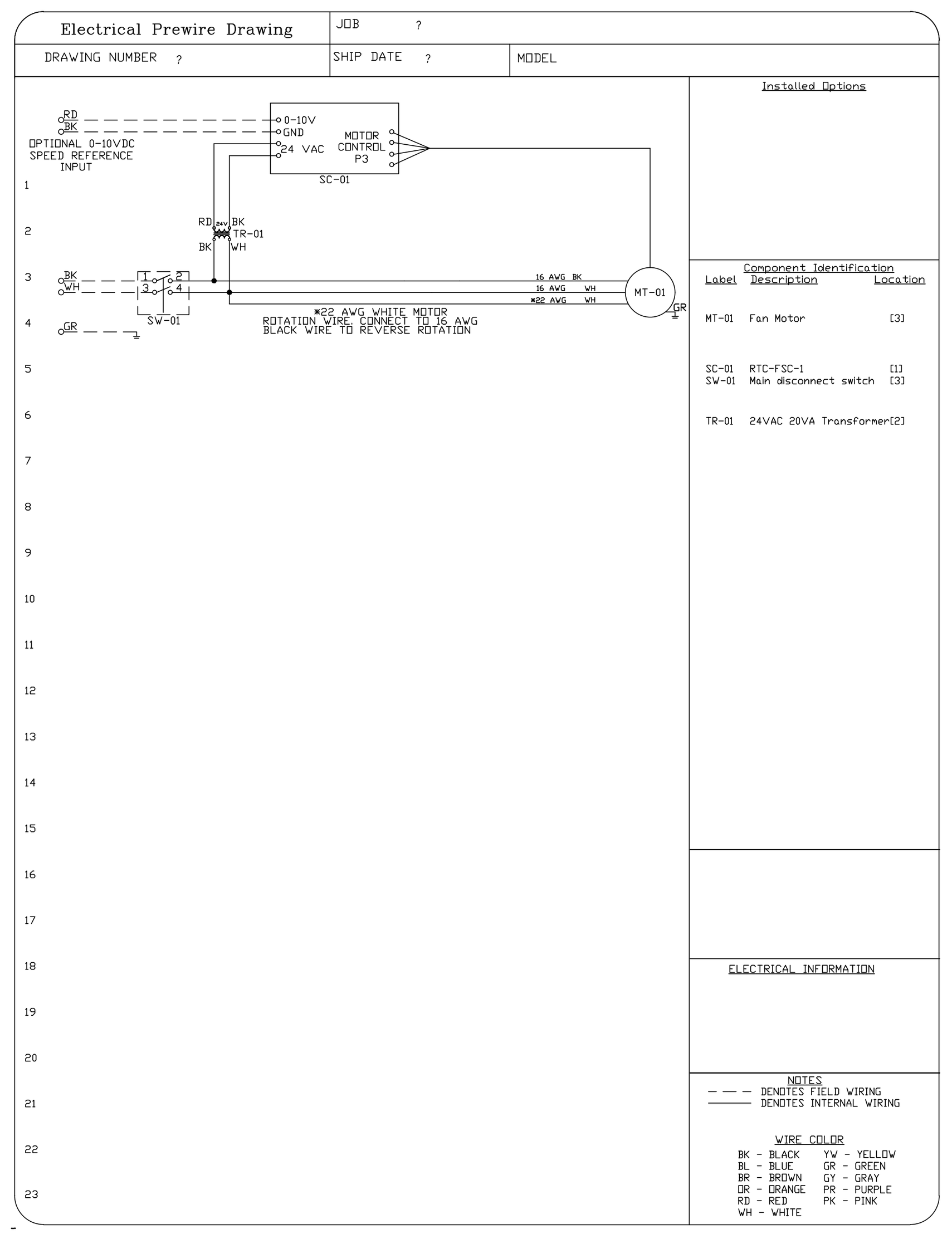


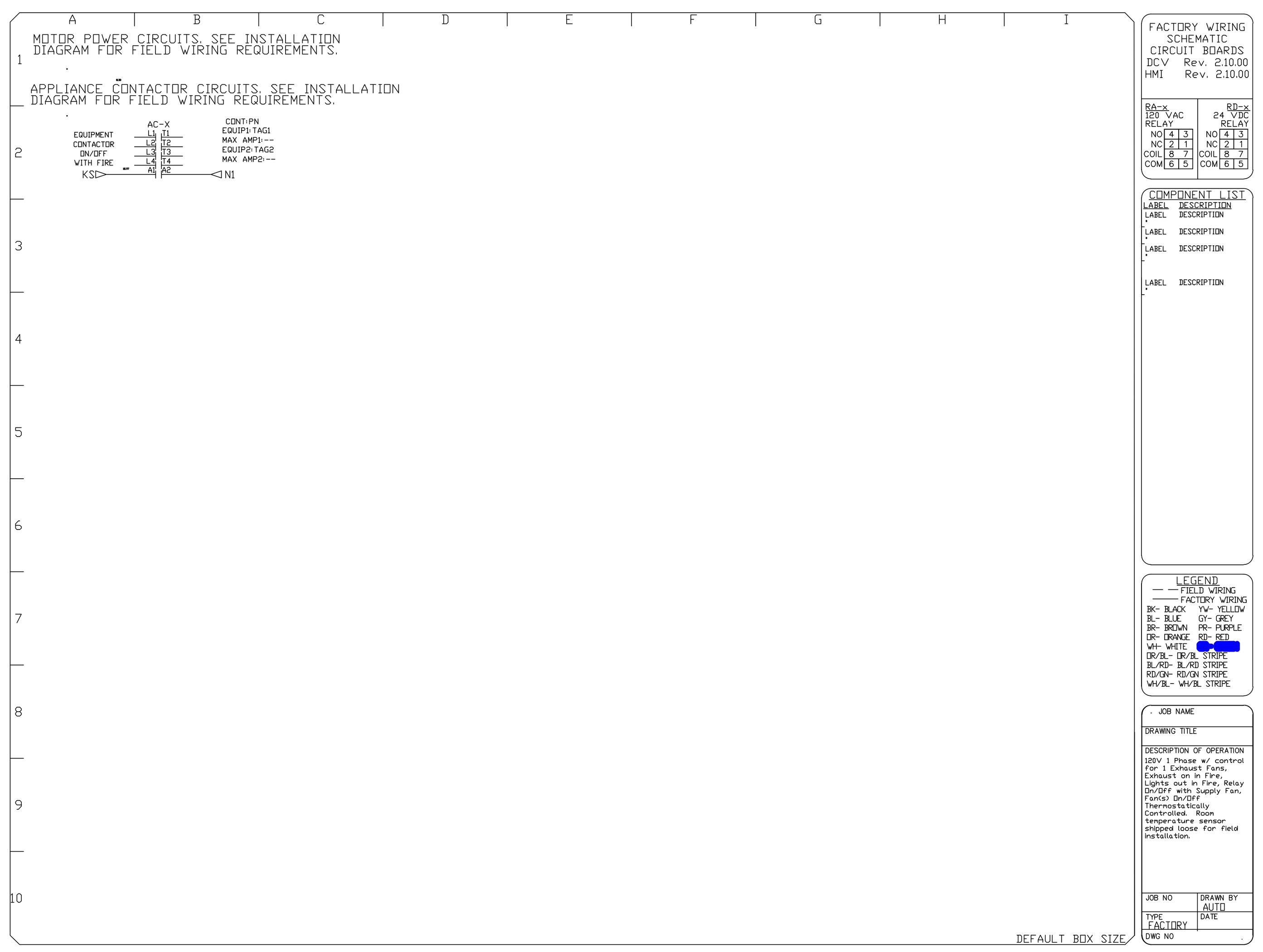
CONTROL SCHEMATIC – EXHAUST FANS

EXHAUST FAN – 12' HOOD



EXHAUST FAN – RESTROOM





6/3 CONTROL SCHEMATIC
SCALE: NO SCALE

Revision #	Date	Description	By
A	10/01/20	INITIAL ISSUE	AM029
-	-	-	

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

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1	8/01/2023	RESPONSE TO CITY

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 41082 AFSAR HASAN

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8.2.2023

FRANKE

Franke Foodservice Systems Americas, Inc.
800 Aviation Parkway
Smyrma, TN USA 37167
Tel. +800 472-2954
fs_customerservice.us@franke.com
www.frankesupply.com

Company Logo

THE DIMENSION GROUP
ARCHITECTURE · CIVIL ENGINEERING · MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensiongrp.com

Account: POPEYES
Restaurant # PLK 2112
Title WALL MOUNTED INSTALLATION DETAIL
Site ID -
Operator -
Site Address -
City - State - Zip Code - Country -
Region -
Building Type -
Electrical Service -
Gas Service -
Market Manager -
Franke Project Number -
Created by: HP033
Date Issued 10/01/20
Modified By: AM029
Drawing Scale AS NOTED
Units INCHES
Revision A
Drawing Number -
Sheet Name 3 OF 4

Project

LOUISIANA 19 72 KITCHEN
Popeyes

Store Type: US 2112 PROTOTYPE 2112-21

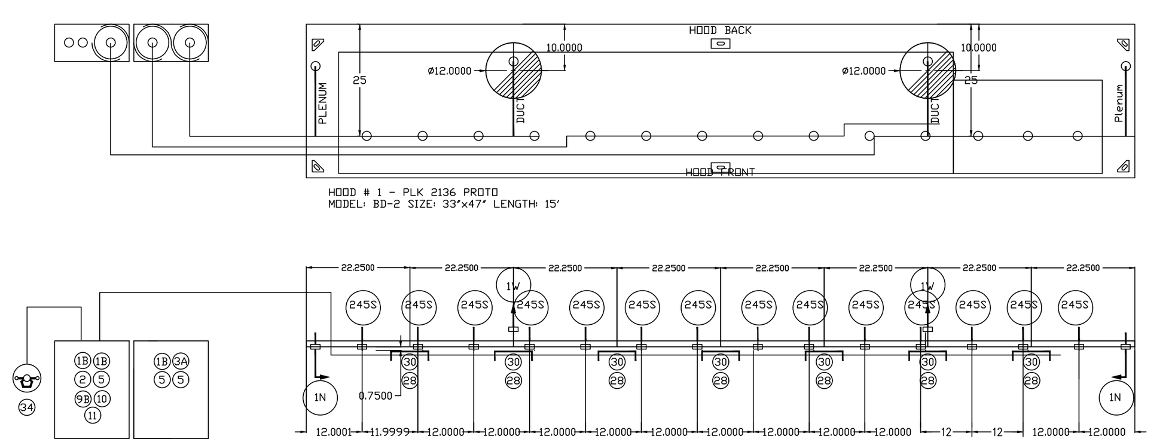
Location: 1517 NC 24-87 CAMERON, NC

Drawing Title: MECHANICAL HOOD DRAWINGS

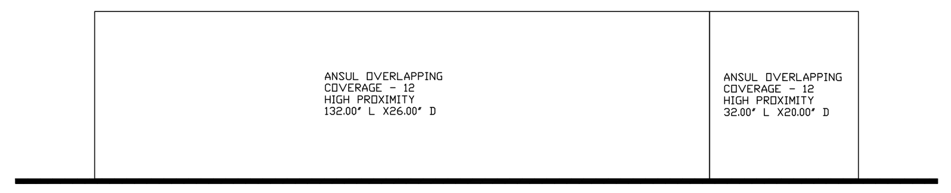
Drawn	Checked
NI	AH
Scale	**Date**
1/4" = 1'-0"	JUNE 2023
Project No.	**Drawing No.**
C22-129	M2.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

DUAL ANSUL SYSTEM – CHICKEN AND FRY HOODS



SHOWN WITH CHICKEN FRYERS ON LEFT END. COVERAGE IS THE SAME WHEN CHICKEN FRYERS ARE ON THE RIGHT END.



INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE, TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES), ONE MECHANICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST.
EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE), GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

NOTES
- FIELD PIPE DROPS AS SHOWN
  SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE COVERING A RANGE, FRYER, OR WOK TO REFLECT GENERAL PIPING REQUIREMENTS.
- IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

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

SPECIFICATIONS

THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

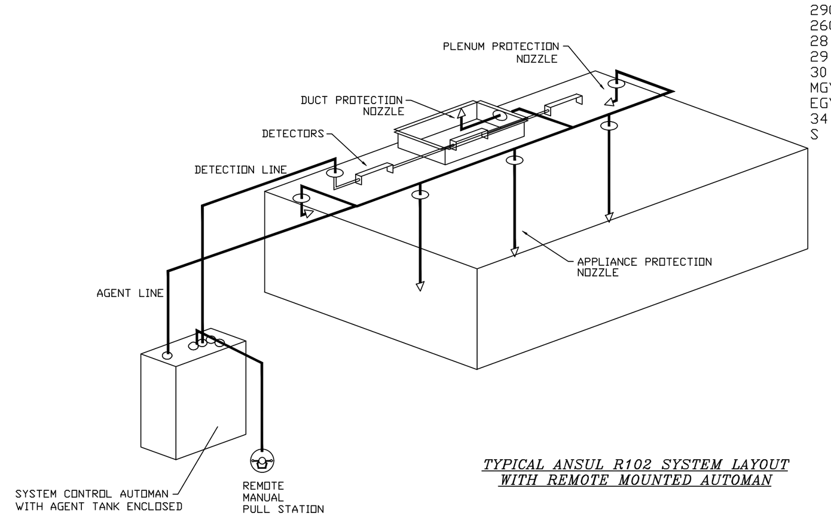
THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND ACTUATION WITH LOCAL OR REMOTE MANUAL ACTUATION. ACCESSORIES SHALL BE AVAILABLE FOR MECHANICAL OR ELECTRICAL GAS LINE SHUT-OFF APPLICATIONS.

THE EXTINGUISHING AGENT SHALL BE A POTASSIUM CARBONATE, POTASSIUM ACETATE-BASED FORMULATION DESIGNED FOR FLAME KNOCKDOWN AND SECUREMENT OF GREASE RELATED FIRES. IT SHALL BE AVAILABLE IN PLASTIC CONTAINERS WITH INSTRUCTIONS FOR LIQUID AGENT HANDLING AND USAGE.

THE REGULATED RELEASE MECHANISM SHALL BE COMPATIBLE WITH A FUSIBLE LINK DETECTION SYSTEM. THE FUSIBLE LINK SHALL BE SELECTED AND INSTALLED ACCORDING TO THE OPERATING TEMPERATURE IN THE VENTILATING SYSTEM. THE FUSIBLE LINK SHALL BE SUPPORTED BY A DETECTOR BRACKET/ LINKAGE ASSEMBLY.

JOB #: 4531075.
JOB NAME: ** POPEYES - 2020 PROTO.

SYSTEM SIZE: ANSUL-3.0/3.0/3.0 TOTAL FP REQUIRED: 33.
HOOD # 1 12' 0.00" LONG x 33" WIDE x 47" HIGH.
RISER # 1 SIZE: 0" x 0".
HOOD # 2 4' 0.00" LONG x 30" WIDE x 44" HIGH.
RISER # 1 SIZE: 0" x 0".



TYPICAL ANSUL R102 SYSTEM LAYOUT WITH REMOTE MOUNTED AUTOMAN

NOTES
- FIELD PIPE DROPS AS SHOWN
  SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- MAXIMUM 9 ELBOWS IN SUPPLY LINE.
- MINIMUM 72 INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE COVERING A RANGE, FRYER, OR WOK TO REFLECT GENERAL PIPING REQUIREMENTS.
- IF APPLICABLE, PRE-PIPED CHARBROILER DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

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

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

JOB #: PLK 2136 PROTO
JOB NAME: POPEYES -"KITCHEN OF THE FUTURE" STRAIGHT DUC.

SYSTEM SIZE: ANSUL-3.0/3.0/3.0 TOTAL FP REQUIRED: 32.
HOOD # 1 15' LONG x 33" WIDE x 47" HIGH.
RISER # 1 SIZE: 12" DIA.
RISER # 2 SIZE: 12" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

LEGEND – WALL MOUNTED ANSUL SYSTEM

1A	1.5 GALLON TANK
1B	3.0 GALLON TANK
2	AUTOMAN RELEASE
3	3 GALLON TANK ENCLOSURE
3A	6 GALLON TANK ENCLOSURE
4	REGULATED ACTUATOR
5	ANSULEX LIQUID AGENT (3 GAL.)
6	ANSULEX LIQUID AGENT (1.5 GAL.)
7	CARTRIDGE (101-20)
8	CARTRIDGE (101-10)
9	CARTRIDGE (101-30)
9A	CARTRIDGE (LT-A-101-30)
9B	DOUBLE TANK CARTRIDGE
10	TEST LINK
11	DOUBLE MICROSWITCH
2W	DUCT NOZZLE (419337)
1W	NOZZLE ASSEMBLY (419336)
1F	NOZZLE ASSEMBLY (419333)
1N	NOZZLE ASSEMBLY (419335)
1/2N	NOZZLE ASSEMBLY (419334)
3N	NOZZLE ASSEMBLY (419338)
245	NOZZLE ASSEMBLY (419340)
230	NOZZLE ASSEMBLY (419339)
2120	NOZZLE ASSEMBLY (419343)
290	NOZZLE ASSEMBLY (419342)
260	NOZZLE ASSEMBLY (419341)
28	DETECTOR BRACKET
29	LOW TEMP FUSIBLE LINK
30	HIGH TEMP FUSIBLE LINK
MGV	MECHANICAL GAS VALVE
EGV	ELECTRICAL GAS VALVE
34	REMOTE MANUAL PULL STATION
S	SWIVEL ADAPTOR

8 / 4 ANSUL PIPING
SCALE: NO SCALE

UL LISTED NON-WELDED DUCT WORK

DUCTWORK PARTS – JOB#2136 PROTO – DOUBLE WALL SINGLE WALL DUCT

TAG	PART #	CFM	SP	WEIGHT	VELOCITY	QTY	DESCRIPTION
P1	DW1235DWLT-2R-S	1245	-0.0151	40.86	1585.18	1	DOUBLE WALL DUCT – 12" INNER DUCT, 35" LONG – 2 LAYERS REDUCED CLEARANCE – 16" STAINLESS STEEL OUTER SHELL.
P2	DW1247DWAJD-2R-S	1245	-0.0119	83.19	1585.18	1	DOUBLE WALL ADJUSTABLE DUCT – 12" INNER DUCT – 2 LAYERS REDUCED CLEARANCE – 16" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P3 ASSEMBLED W/P4	DW124550DWLTTP-2R-S	1245	-0.02	53.52	1585.18	1	DOUBLE WALL DUCT – 12" INNER DUCT, 45.5" LONG – 2 LAYERS REDUCED CLEARANCE – 16" STAINLESS STEEL OUTER SHELL – USED WITH TRANSITION PLATE.
P4 ASSEMBLED W/P3	DW1912TPDBEX	1245		7.50	1585.18	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 19-1/2" CURB TO 12" DUCT, 16 GA ALUMINIZED STEEL. FOR USE WITH EXHAUST FANS.
SYSTEM AT P4			-0.799	0.00			
P5	DW1235DWLT-2R-S	1245	-0.0151	40.86	1585.18	1	DOUBLE WALL DUCT – 12" INNER DUCT, 35" LONG – 2 LAYERS REDUCED CLEARANCE – 16" STAINLESS STEEL OUTER SHELL.
P6	DW1247DWAJD-2R-S	1245	-0.0119	83.19	1585.18	1	DOUBLE WALL ADJUSTABLE DUCT – 12" INNER DUCT – 2 LAYERS REDUCED CLEARANCE – 16" STAINLESS STEEL OUTER SHELL. MIN LENGTH = 11" / MAX LENGTH = 48.5" / ADJUSTMENT = 30.5" / ADJUSTABLE SECTION MAY NEED TO BE CUT. INCLUDES SINGLE AND DOUBLE WALL "V" CLAMPS.
P7 ASSEMBLED W/P8	DW124550DWLTTP-2R-S	1245	-0.02	53.52	1585.18	1	DOUBLE WALL DUCT – 12" INNER DUCT, 45.5" LONG – 2 LAYERS REDUCED CLEARANCE – 16" STAINLESS STEEL OUTER SHELL – USED WITH TRANSITION PLATE.
P8 ASSEMBLED W/P7	DW1912TPDBEX	1245		7.50	1585.18	1	DUCT TO CURB TRANSITION 3/4" DOWN TURN, 19-1/2" CURB TO 12" DUCT, 16 GA ALUMINIZED STEEL. FOR USE WITH EXHAUST FANS.
SYSTEM AT P8			-0.799	0.00			
	3M-2000PLUS			0.80		1	DUCT – 3M FIRE BARRIER 2000 PLUS SILICONE – USED AS SEALANT TO SEAL DUCT JOINTS.
TOTAL WEIGHT				370.94			

DOUBLE WALL FACTORY BUILT DUCTWORK

- ALL DUCTWORK IS REQUIRED TO BE INSTALLED WITH THE MAXIMUM SUPPORT SPACING LISTED BELOW.
- FOR A COMPLETE LIST OF APPROVED SUPPORT METHODS, SEE THE ENTIRE INSTALLATION AND OPERATION MANUAL
- DUCTWORK SHALL SLOPE NOT LESS THAN 1/16" PER LINEAR FOOT TOWARDS THE HOOD OR AN APPROVED GREASE COLLECTION RESERVOIR.
- WHERE HORIZONTAL DUCTS EXCEED 75 FEET IN LENGTH, THE SLOPE SHALL NOT BE LESS THAN 3/16" PER LINEAR FOOT.

DUCT DIAMETER	HORIZONTAL SUPPORT (FT)	VERTICAL WALL SUPPORT (FT)	VERTICAL CURB SUPPORT (FT)
12"	10'	10'	24'

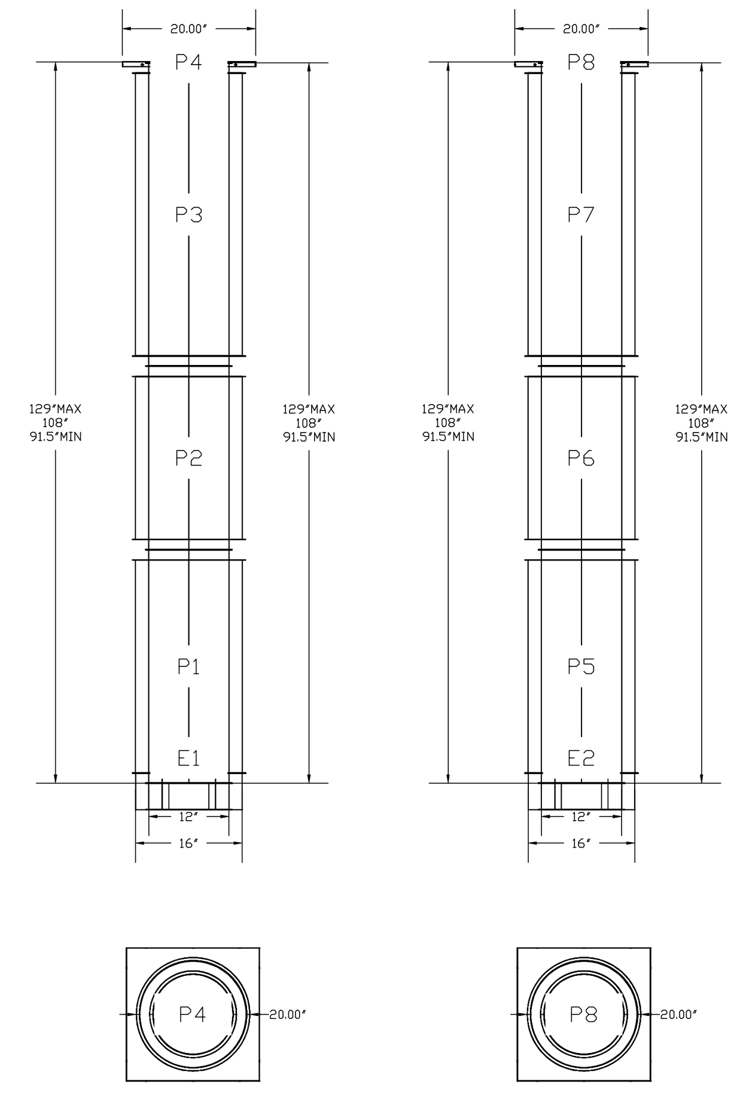
CONFORMS TO UL STD 2221 AND UL STD 1978
CERTIFIED TO CAN/UL-S115, CAN/ULC-S662 AND ASTM E814
MODEL # FRDW-2R
Double Wall Duct - 10" Inner Duct, 2 Layers Reduced Clearance - 14" Stainless Steel Outer Shell

INTERTEK C ETL US LISTED
Intertek
2001474

Notes:
- This duct has been evaluated for use as a 2 hour fire rated grease duct system. It is classified as an alternative to 2 hour fire resistive rated shaft enclosure systems.
- For grease duct systems installed without a continuous fire-rated enclosure, an evaluated through-penetrated fire stop assembly shall be used.
- Complies all applicable requirements of the referenced standards as required by the National Building Code of Canada (NBCC). International Mechanical Code (IMC) or NFPA96, and when installed in accordance with the manufacturers's recommended installation instructions.

Clearances:
- This duct may be installed with $\frac{3}{4}$inch clearance from the outer surface of the duct to combustible materials. The outer v-band may be installed in contact with combustible materials.

DUCTWORK #1 FRONT VIEW
DOUBLE WALL DUCT



DO NOT LEAK TEST USING SMOKE BOMBS CONTAINING CHLORINES/CHLORIDES.

7 / 4 UL LISTED NON-WELDED DUCT WORK
SCALE: NO SCALE

ANSUL FIRE SYSTEM EQUIPMENT SCHEDULE

FIRE SYSTEM INFORMATION – JOB PLK 2136 PROTO

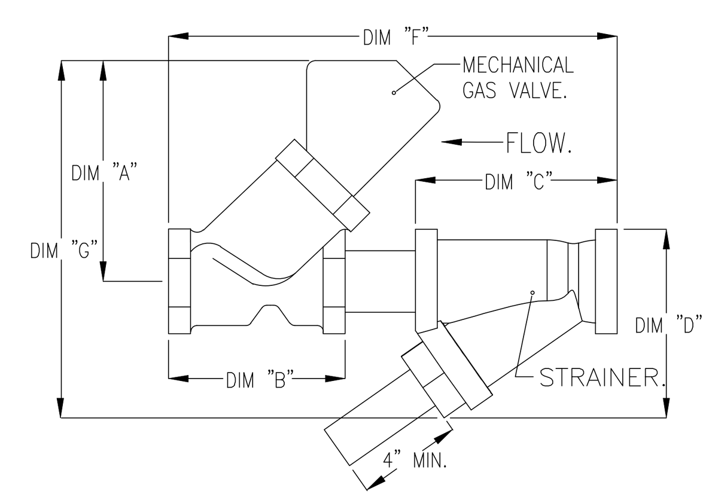
FIRE SYSTEM NO	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION SYSTEM	INSTALLATION LOCATION ON HOOD
1		ANSUL R102	3.0/3.0/3.0	32	WALL MOUNT LEFT	N/A

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		MECHANICAL	1.500	FRANKE FOODSERVICE SYSTEMS

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 - 0 - 439861 LARGE BLOWOFF CAP, METAL, TO FIT NEW LASER-ETCHED ANSUL NOZZLES, A0024201.	18	0
		1 - 1 - AT - 3.0 TANK(#1B) - 3.0 GALLON SS TANK (FOR USE WITH AUTOMAN RELEASE, ACTUATOR, OR SS ENCLOSURE (UL/ULC)) MACOLA # 01-429862.	3	0
		2 - 2 - AP - AR AUTOMAN RELEASE - ANSUL AUTOMAN MECHANICAL RELEASE (UL). TANK SOLD SEPARATELY. ANSUL PART # 429853; MACOLA # 01-429853.	1	0
		3 - 3 - AP - ADE ENCLOSURE (DOUBLE) - DOUBLE STAINLESS STEEL ENCLOSURE (UL), ANSUL PART # 429872; MACOLA # 03-429872.	1	0
		3 - 3 - AP - AE ENCLOSURE - STAINLESS STEEL ENCLOSURE ASSEMBLY (UL), ANSUL PART # 429870; MACOLA # 01-429870.	0	0
		5 - 5 - LIQ-3.0 AGENT - ANSULEX LOW PH WET CHEMICAL AGENT, 3 GALLON (UL) 79372.	3	0
		9 - 9 - DT-CART DOUBLE TANK NITROGEN CARTRIDGE.	0	1
		10 - 10 - TLINK LINK - TEST LINK (1 TEST LINK) ANSUL PART # 24916, MACOLA # 20-24916.	1	0
		11 - 11 - MICRO-SDA MICROSWITCH KIT- INCLUDES 2 SWITCHES AND MOUNTING HARDWARE. SINGLE DUAL ELECTRIC SWITCH, ONE STANDARD SWITCH, ONE ALARM DUTY SWITCH ANSUL PART # 437155, MACOLA # 08-437155.	1	0
		14 - 14 - 419336 NOZZLE - 1W NOZZLE, DUCT/APPLIANCE (REPLACES ANSUL PART# 419347, CAS PART# 419336) A0001266.	2	0
		16 - 16 - 419335 NOZZLE - 1N NOZZLE, PLENUM/APPLIANCE (REPLACES ANSUL PART# 419346, CAS PART# 419335) A0001265.	2	0
		20 - 20 - 419340 NOZZLE - 245 NOZZLE, APPLIANCE (REPLACES ANSUL PART# 419351, PART# 419340) A0001270.	14	0
		25 - 25 - 418569 NOZZLE ADAPTOR - SWIVEL NOZZLE ADAPTOR (REPLACES CAS PART # 418569) A0001274.	14	0
		26 - 26 - QSA-3/8 QUIK SEAL - 3/8" (UL).	18	0
		27 - 27 - QPSA-1/2 PULLEY SEAL - 1/2" HOOD SEAL (UL) ANSUL PART # 423253, MACOLA # 32-79768.	1	0
		28 - 28 - S-DET DETECTOR - SERIES (SCISSOR LINKAGE) ANSUL PART # 435547/435548 (OLD # 417369/434480); MACOLA # 05-417369.	7	0
		30 - 30 - ANS-500FL FUSIBLE LINK - 500DEG F, R-102 AND PIRANHA, ANSUL PART # 439232.	7	0
		34 - 34 - RPS-A REMOTE PULL STATION - RED COMPOSITE (WITHOUT WIRE ROPE) 434618 (OLD MACOLA #06-4835).	1	0
		35 - 35 - PE-LT PULLEY ELBOW - LOW TEMP. PULLEY ELBOW, SET SCREW TYPE ANSUL PART # 415670, MACOLA # 11-415671.	0	10
		36 - 36 - PE-HT PULLEY ELBOW - HIGH TEMP PULLEY ELBOW, COMPRESSION TYPE, ANSUL PART # 423251, MACOLA # 10-45771.	1	0



GAS VALVES AND STRAINERS

	GAS VALVE SIZING							GAS VALVE DIMENSIONS							INSTALLATION	PART NUMBERS		
	TYPE	SIZE	VOLTAGE	MIN. INLET PRESSURE	MAX. INLET PRESSURE	FLOW AT 1 IN.W.C. DROP NATURAL GAS	FLOW AT 1 IN.W.C. DROP PROPANE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "F"	DIM "G"	MOUNTING ORIENTATION	GAS VALVE PART NUMBER	STRAINER PART NUMBER	GAS VALVE/STRAINER KIT
GAS VALVE FOR FS#1→	MECHANICAL	1-1/2"	N/A	0 PSI (0 IN.W.C.)	10 PSI (277 IN.W.C.)	2,630,000 BTU/HR	1,706,569 BTU/HR	6-3/8"	4-7/8"	5-3/4"	6-3/16"	12-5/8"	11-3/8"	HORIZONTAL	27-55607	4417K67	MGVA1-1/2

ALL GAS VALVES/STRAINERS
PROPER CLEARANCE MUST BE PROVIDED IN ORDER TO SERVICE THE STRAINERS A MINIMUM OF 4" CLEARANCE DISTANCE MUST BE PROVIDED AT THE BASE OF THE STRAINER CUSTOMER MUST VERIFY BTU CONSUMPTION AS WELL AS PRESSURE RATING SPECIFIC GRAVITY OF NATURAL GAS = 0.64, SPECIFIC GRAVITY OF LP = 1.52.

CALCULATIONS
TO CALCULATE GAS FLOW FOR OTHER THAN 1 IN.W.C. PRESSURE DROP NEW BTU/HR = (BTU/HR AT 1 IN.W.C. PRESSURE DROP) X NEW PRESSURE $DROP^{0.5}$
TO CALCULATE GAS FLOW FOR OTHER THAN 0.64 SPECIFIC GRAVITY NEW BTU/HR = (BTU/HR AT 0.64) X $(0.64 / \text{NEW SPECIFIC GRAVITY})^{0.5}$.

9 / 4 ANSUL FIRE SYSTEM EQUIPMENT SCHEDULE
SCALE: NO SCALE

Revision #	Date	Description	By
A	10/01/20	INITIAL ISSUE	AM029
-	-	-	

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description
1	8/01/2023	RESPONSE TO CITY

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

N
PROJECT NORTH

THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE POPEYES LOUISIANA KITCHEN REPRESENTATIVE PRIOR TO COMMENCING WORK. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS INDICATED BY POPEYES LOUISIANA KITCHEN AS "ISSUED FOR CONSTRUCTION".

NORTH CAROLINA PROFESSIONAL SEAL 41082 ENGINEER AFSAR HASAN
[illegible]
8.2.2023

FRANKE

Franke Foodservice Systems Americas, Inc.

800 Aviation Parkway
Smyrma, TN USA 37167

Tel. +800 472-2954
fs_customerservice.us@franke.com
www.frankesupply.com

Company Logo

THE DIMENSION GROUP
ARCHITECTURE • CIVIL ENGINEERING • MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensiongrp.com

Account: POPEYES
Restaurant #: PLK 2112
Title: WALL MOUNTED INSTALLATION DETAIL
Site ID: -
Operator: -
Site Address: -
City: -
State: - Zip Code: - Country: -
Region: -
Building Type: -
Electrical Service: -
Gas Service: -
Market Manager: -
Franke Project Number: -
Created by: HP033
Date Issued: 10/01/20
Modified By: AM029
Drawing Scale: AS NOTED
Units: INCHES
Revision: A
Drawing Number: -
Sheet Name: 4 OF 4

Project

LOUISIANA 19 72 KITCHEN
POPEYES

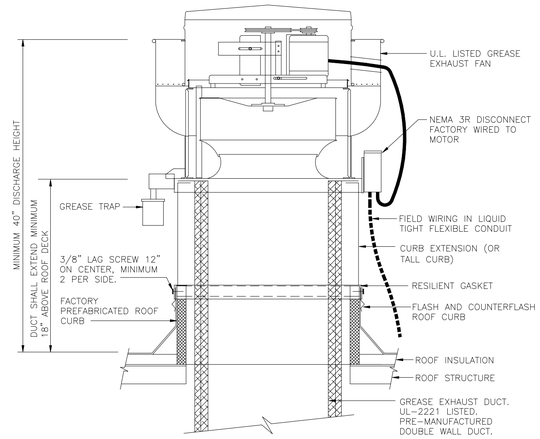
Store Type: US 2112 PROTOTYPE 2112-21

Location: 1517 NC 24-87 CAMERON, NC

Drawing Title: MECHANICAL HOOD DRAWINGS

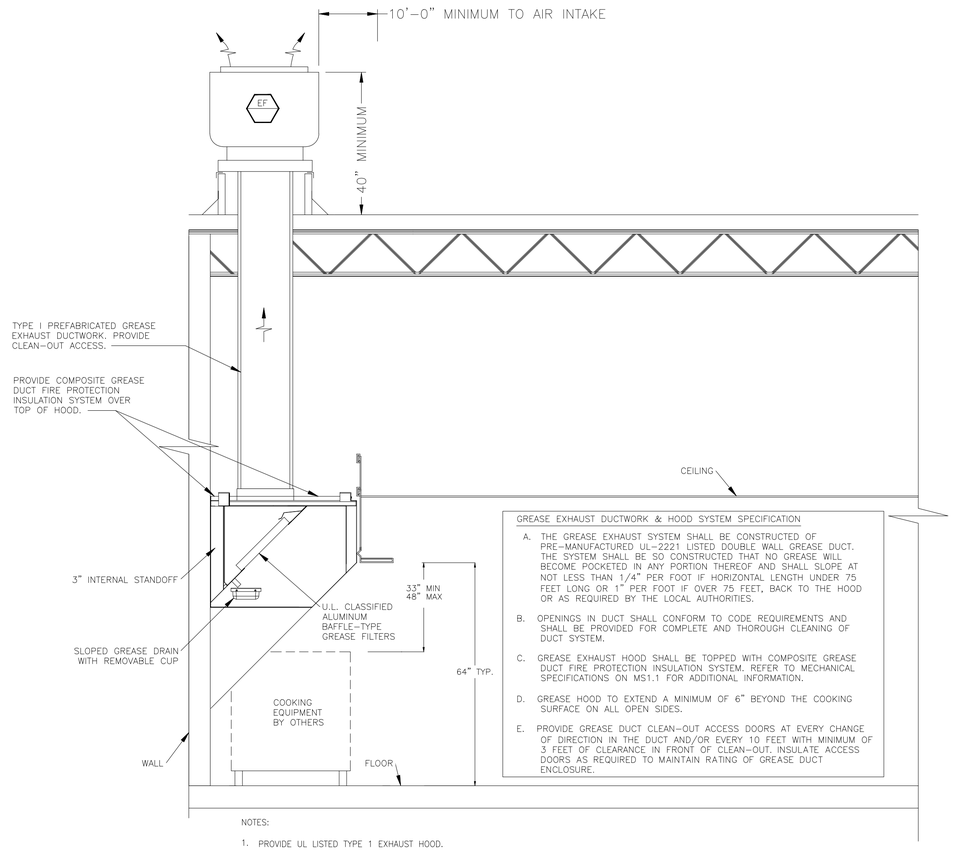
Drawn	Checked
NI	AH
Scale	**Date**
1/4" = 1'-0"	JUNE 2023
Project No.	**Drawing No.**
C22-129	M3.4

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



NOTE: INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96 REQUIREMENTS.

01 ROOF MOUNTED GREASE EXHAUST FAN DETAIL
NOT TO SCALE



GREASE EXHAUST DUCTWORK & HOOD SYSTEM SPECIFICATION

A. THE GREASE EXHAUST SYSTEM SHALL BE CONSTRUCTED OF PRE-MANUFACTURED UL-2221 LISTED DOUBLE WALL GREASE DUCT. THE SYSTEM SHALL BE SO CONSTRUCTED THAT NO GREASE WILL BECOME POCKETED IN ANY PORTION THEREOF AND SHALL SLOPE AT NOT LESS THAN 1/4" PER FOOT IF HORIZONTAL LENGTH UNDER 75 FEET LONG OR 1" PER FOOT IF OVER 75 FEET, BACK TO THE HOOD OR AS REQUIRED BY THE LOCAL AUTHORITIES.

B. OPENINGS IN DUCT SHALL CONFORM TO CODE REQUIREMENTS AND SHALL BE PROVIDED FOR COMPLETE AND THOROUGH CLEANING OF DUCT SYSTEM.

C. GREASE EXHAUST HOOD SHALL BE TOPPED WITH COMPOSITE GREASE DUCT FIRE PROTECTION INSULATION SYSTEM. REFER TO MECHANICAL SPECIFICATIONS ON MS1.1 FOR ADDITIONAL INFORMATION.

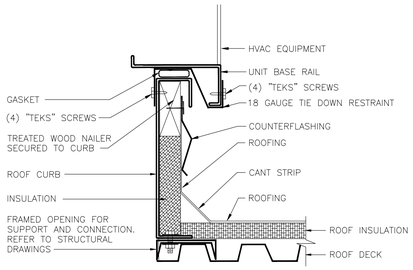
D. GREASE HOOD TO EXTEND A MINIMUM OF 6" BEYOND THE COOKING SURFACE ON ALL OPEN SIDES.

E. PROVIDE GREASE DUCT CLEAN-OUT ACCESS DOORS AT EVERY CHANGE OF DIRECTION IN THE DUCT AND/OR EVERY 10 FEET WITH MINIMUM OF 3 FEET OF CLEARANCE IN FRONT OF CLEAN-OUT. INSULATE ACCESS DOORS AS REQUIRED TO MAINTAIN RATING OF GREASE DUCT ENCLOSURE.

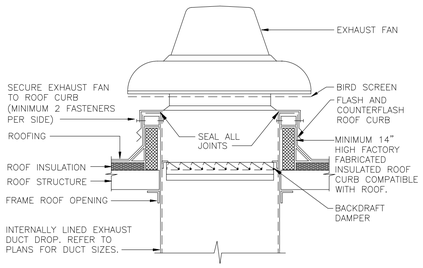
NOTES:

1. PROVIDE UL LISTED TYPE 1 EXHAUST HOOD.
2. GREASE HOOD SHALL MEET THE REQUIREMENTS OF MECHANICAL CODE, NSF AND NFPA FOR A TYPE I HOOD.
3. FIRE DEPARTMENT APPROVAL SHALL BE REQUIRED ON FIRE PROTECTION SYSTEM FOR GREASE HOODS AND DUCTS AS REQUIRED BY MECHANICAL AND FIRE CODES.
4. PROVIDE CHEMICAL FIRE SUPPRESSION SYSTEM AS REQUIRED BY NFPA 17A.
5. PERFORM SMOKE TEST ON GREASE EXHAUST DUCTWORK AFTER DUCTWORK INSTALLATION IS COMPLETE BUT PRIOR TO DUCTWORK CONCEALMENT PER REQUIREMENTS OF LOCAL CODE AUTHORITIES.

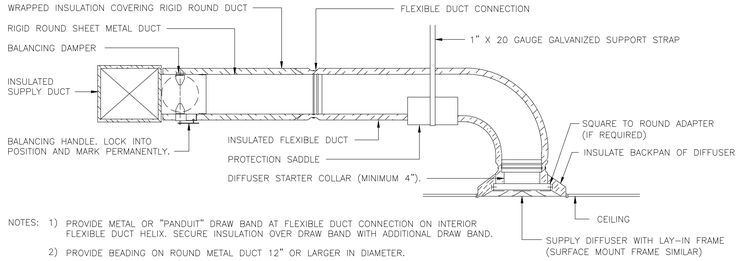
05 KITCHEN HOOD SCHEMATICS
NOT TO SCALE



03 ROOFTOP UNIT CURB DETAIL
NOT TO SCALE



02 EXHAUST FAN DETAIL
NOT TO SCALE



NOTES:
1) PROVIDE METAL OR "PANDUIT" DRAW BAND AT FLEXIBLE DUCT CONNECTION ON INTERIOR FLEXIBLE DUCT HELIX. SECURE INSULATION OVER DRAW BAND WITH ADDITIONAL DRAW BAND.
2) PROVIDE BEADING ON ROUND METAL DUCT 12" OR LARGER IN DIAMETER.
3) PROVIDE MINIMUM 4" COLLARS FOR ATTACHMENT OF FLEXIBLE DUCT TO ROUND DUCT, DAMPERS AND DIFFUSERS.
4) BAND RIGID ROUND DUCT INSULATION TO DUCT AND PROVIDE TAPE FOR INSULATION OVERLAP.

04 DIFFUSER CONNECTION DETAIL
NOT TO SCALE

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description
1	8/01/2023	RESPONSE TO CITY

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

NORTH CAROLINA PROFESSIONAL SEAL 41082 ENGINEER ANISH HARIHARAN

8.2.2023

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10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensiongrp.com

Project

LOUISIANA KITCHEN 19 72 POPEYES

Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
MECHANICAL DETAILS

Drawn	Checked
NI	AH
Scale	**Date**
1/4" = 1'-0"	JUNE 2023
Project No.	**Drawing No.**
C22-129	M4.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

GENERAL NOTES

A. CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.

B. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE. PROVIDE PIPE RISES, DROPS, AND OFFSETS AS REQUIRED FOR FIELD INSTALLATION AND TRADE COORDINATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE STARTING WORK.

C. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE PIPING, CONNECTIONS, FITTINGS, VALVES, OFFSETS AND ALL MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

D. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY AND THE AUTHORITY HAVING JURISDICTION. PURCHASE ALL PERMITS ASSOCIATED WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.

E. PROVIDE WATER HAMMER ARRESTORS THROUGHOUT WATER SYSTEMS AS REQUIRED PER "WATER HAMMER ARRESTERS" DETAIL.

F. PROVIDE BACKFLOW PREVENTION DEVICES IN WATER LINES FEEDING PLUMBING FIXTURES AND/OR EQUIPMENT AS SHOWN ON PLANS AND ELSEWHERE AS REQUIRED BY AUTHORITY HAVING JURISDICTION. USE DEVICES OF APPROVED MANUFACTURER AND TYPE IN ACCORDANCE WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.

G. CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. IF PRESSURE AT BUILDING ENTRY PRIOR TO ALL LOCALLY REQUIRED DEVICES IS LESS THAN 60 PSIG STATIC, CONTACT OWNER'S REPRESENTATIVE. IF PRESSURE EXCEEDS 80 PSIG, PROVIDE PRESSURE REDUCING VALVE.

H. SUSPEND HORIZONTAL SERVICE PIPING FROM UNDERSIDE OF ROOF OR FLOOR STRUCTURE UNLESS OTHERWISE INDICATED. INSTALL PIPING AS HIGH AS POSSIBLE. EXTEND PIPING DOWN IN WALLS, PARTITIONS AND CHASES TO SERVE FIXTURES AND EQUIPMENT.

I. VERIFY SERVICE CONNECTION POINTS, SIZES, ELEVATIONS AND METERING LOCATIONS FOR PROJECT WITH LOCAL UTILITY COMPANIES AND/OR CIVIL ENGINEER, AS APPLICABLE.

J. WATER ENTRY SERVICE PIPING, NEW AND/OR REVISED. CONTRACTOR SHALL ENSURE AND PROVIDE MINIMUM 10'-0" LINEAR FEET OF METAL PIPING MATERIAL BELOW GRADE IN CONTACT WITH EARTH FOR CONNECTION OF ELECTRICAL SERVICE GROUNDING.

K. PLUMBING CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEDES WITH A MINIMUM OF INTERFERENCE

L. FLOOR DRAINS SHALL HAVE 6" DEEP SEAL TRAPS.

M. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING WATER SUPPLY TO THE COFFEE MAKERS, TEA BREWERS, AND ICE MACHINES.

N. WRAP ALL CONDENSATE PIPE IN FREEZER WITH HEAT TRACING TAPE AND INSULATE ALL CONDENSATE DRAIN PIPING. ROUTE COOLER CONDENSATE DRAIN PIPING TO HUB DRAIN/FLOOR DRAIN AS INDICATED.

O. POT SINKS SHALL BE ANCHORED TO WALL AND SEALED WITH SILICONE CAULKING.

P. INSTALL GAS VALVE (FBC) IN GAS LINE TO COOKING EQUIPMENT, INTERLOCK WITH HOOD FIRE PROTECTION SYSTEM. VERIFY REQUIREMENTS WITH HOOD SUPPLIER. INSTALL UNIONS AT THE SOLENOID VALVE.

Q. PROVIDE SHUTOFF COCKS, QUICK DISCONNECTS AND FLEXIBLE LINES AT GAS EQUIPMENT.

R. PROVIDE VACUUM BREAKERS AT FIXTURES WITH HOSE THREAD CONNECTIONS.

S. PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS.

T. LAVATORY FAUCETS SHALL LIMIT HOT WATER FLOW TO 0.5 GPM AND HOT WATER TEMPERATURE TO 110° F.

U. PROVIDE 1"Ø SCH 40 BLACK STEEL PIPE FOR GREASE DISCHARGE. RUN LINE FLUSH ON WALL BESIDE FRYERS, VERTICALLY UP IN WALL THROUGH CEILING. SLOPE LINE @ 1"/FT TOWARDS REAR OF BUILDING. RUN LINE DOWN THROUGH CEILING ON FACE OF EXTERIOR WALL TO 75" AFF THEN THROUGH REAR WALL FOR DISCHARGE. HEAT TAPE SHALL BE INSTALLED ON ENTIRE LINE @ 5 WATTS/LINEAR FT. G.C. TO PROVIDE STAINLESS STEEL COVERS FOR LINE MOUNTED FLUSH ON WALLS (ENTIRE LENGTH – CEILING DOWN).

PLUMBING SYMBOLS LEGEND

ABBREVIATIONS:

AFF/AFG	ABOVE FINISHED FLOOR/GRADE
FFCO/FGCO/WCO/CO	FLUSH FLOOR/FLUSH GRADE/WALL/CLEANOUT
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
TYP	TYPICAL
VTR	VENT THRU ROOF
(E)	EXISTING

LINETYPES:

- - - - - - - - -	EXISTING PLUMBING LINE – SEE DRAWING
——— - ———	COLD WATER (CW)
- - - - - - - - -	COLD WATER (CW) – BELOW SLAB/GRADE
——— FW ———	FILTERED WATER SUPPLY (FW)
——— - - ———	HOT WATER (HW) 140°
——— - - - ———	HOT WATER RETURN (HWR)
——— G ———	NATURAL GAS LINE
——— D ———	CONDENSATE LINE (D)
——— ——— ———	PLUMBING VENT (V)
— — — — —	PLUMBING VENT (V) – BELOW SLAB/GRADE
——— ———	SANITARY WASTE (SAN) – BELOW SLAB/GRADE
——— GW ———	GREASE WASTE (GW) – BELOW SLAB/GRADE
——— · ———	WATER HEATER VENT
——— - · - ———	SODA CHASE
——— · · ———	USED COOKING OIL
——— ST ———	STORM LINE (ST)
——— OST ———	OVERFLOW STORM LINE (OST)

GENERAL REFERENCES/NOTATIONS:

01/P1 DETAIL OR SECTION	# REVISION
# CONNECT TO EXISTING	# PLAN NOTE
# HVAC EQUIPMENT	#### FOOD SERVICE EQUIPMENT

PIPE SYMBOLS:

PIPE UP/DOWN	BALL/PLUG VALVE
TEE UP/DOWN	BALANCING/CHECK VALVE
END CAP	

SYMBOLS LEGEND NOTES:
REFER TO SPECIFICATIONS AND PLAN NOTES FOR DETAILED DESCRIPTION OF ALL DEVICES SHOWN IN THIS SCHEDULE, PROVIDED BY THIS CONTRACTOR.

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE TYPE	MANUF.	MODEL	DESCRIPTION	ACCESSORIES/OPTIONS
WC	WATER CLOSET (ACCESSIBLE)	AMERICAN STANDARD	3043.001 "MADERA"	FLOOR MOUNT, WHITE VITREOUS CHINA, 1.1–1.6 GPF ELONGATED SIPHON JET BOWL, 1–1/2" TOP SPUD, & RIM HEIGHT 17" A.F.F. PROVIDE WITH SLOAN MANUAL DUAL FLUSH 1.6/1.1 GPF WATER CLOSET FLUSH VALVE. PROVIDE FLUSH LEVER ON ACCESSIBLE SIDE. INSTALL IN ACCORDANCE TO ADA ACCESSIBILITY REQUIREMENTS.	MAINLINE #ML1055SSC00 WHITE OPEN FRONT ELONGATED TOILET SEAT LESS COVER.
LAV	LAVATORY (ACCESSIBLE)	AMERICAN STANDARD	#0356.921.020 LUCERNE	WALL HUNG, 20"X18" WHITE VITREOUS CHINA, BACK OVERFLOW. PROVIDE WITH SLOAN EBF–650 4" CENTER SET, BATTERY POWERED SENSOR FAUCET WITH FACTORY SET 0.175 GPC 0.35 GPM AERATOR. INSTALL IN ACCORDANCE TO ADA ACCESSIBILITY REQUIREMENTS.	PROVIDE WITH QUARTER TURN BRASS ANGLE COMPRESSION STOPS WITH LOOSE KEY HANDLES, STAINLESS BRAIDED SUPPLIES, CHROME ESCUTCHEONS, CHROME GRID STRAINER DRAIN WITH TAILPIECE, & CHROME PLATED CAST BODY P–TRAP WITH CLEANOUT. INSULATE WASTE AND WATER PIPING WITH TRUEBRO "LAV–GUARD2" #101–EZ. FURNISH WITH ZURN #Z–1231–81 LAVATORY CARRIER.
FPWH	FROST PROOF WALL HYDRANT	WOODFORD	MODEL 65	ANTI–SIPHON, AUTOMATIC DRAINING, WALL HYDRANT, NON–FREEZE INTEGRAL VACUUM BREAKER, ALL BRONZE INTERIOR PARTS, KEY OPERATED, 3/4" SOLDER INLET.	MOUNT 18" ABOVE FINISHED GRADE. PROVIDE APPROPRIATE MODEL FOR WALL THICKNESS AND SITE SPECIFIC TEMPERATURE REQUIREMENTS.
TD	TRENCH DRAIN	ZURN	Z886–SOG	6–1/4"X24" HDPE TRENCH DRAIN WITH STAINLESS DECORATIVE GRATE. FIELD CUT TRENCH DRAIN AS REQUIRED. COORDINNATE FINISHED WIDTH AND LOCATION WITH ARCHITECT PRIOR TO ISNTALLATION.	SET TRENCH DRAIN LEVEL WITH FINISH FLOOR.
FD	FLOOR DRAIN	SIOUX CHIEF / ZURN	832–35D–NR / #ZN415–B–3N H	FLOOR DRAIN WITH 5" ROUND NICKEL BRONZE ADJUSTABLE STRAINER & 3" BOTTOM OUTLET.	PROVIDE WITH TRAP PRIMER CONNECTION AND WITH ASSE 1072 APPROVED TRAP SEAL DEVICE. TRAP SEAL DEVICE SHALL BE TRAP PROSET TRAPGUARD OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE DRAINS IN CUSTOMER AREAS WITH VANDAL RESISTANT SCREWS.
FS	FLOOR SINK	SIOUX CHIEF / ZURN	#861–3PN–D / #Z1900–3NH–K –4	12" SQUARE TOP FLOOR SINK W/8" DEEP & 3" BOTTOM OUTLET	SET FLOOR SINK LEVEL WITH FINISH FLOOR.
RD	ROOF DRAIN	WATTS	RD–250	CAST IRON COMBINATION ROOF DRAIN/OVERFLOW WITH DECK FLANGE, FLASHING CLAMPS WITH INTEGRAL GRAVEL GUARD, OVERFLOW STANDPIPE, SELF LOCKING CAST IRON DOME, AND NO HUB OUTLETS. PROVIDE OUTLET SIZE AS SHOWN ON PLANS.	INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. UNDERDECK CLAMP AND SUMP RECEIVER . FIELD VERIFY ROOF INSTALLATION REQUIREMENTS AND COORDINATE INSULATION THICKNESS.
DSN	DOWNSPOUT NOZZLE	WATTS	Z199	ALL NICKEL BRONZE BODY WITH DECORATIVE FACE OF WALL FLANGE AND OUTLET NOZZLE.	COORDINATE MOUNTING LOCATION WITH ARCHITECTURAL ELEVATIONS.
TP	TRAP PRIMER	PPP	P1–500	AUTOMATIC OPERATION, 1/2" INLET AND OUTLET. SERVICE UP TO FOUR FLOOR DRAINS WITH DISTRIBUTION UNIT.	INSTALL IN ACCESSIBLE LOCATION WITH PRIMER LOCATED MINIMUM OF 6" ABOVE FLOOD LEVEL OF FLOOR DRAIN RIM. PROVIDE ACCESS PANEL AS REQUIRED.
MV	MIXING VALVE	SYMMONS	7–225–CK "MAXLINE"	1/2" INLETS AND OUTLET, THERMOSTATIC CONTROLLER WITH INTEGRAL CHECKS, ALL BRASS BODY WITH DUAL STAINLESS STEEL STRAINER, VANDAL RESISTANT TEMPERATURE ADJUSTMENT HANDLE.	SET TO 105°F. MOUNT IN ACCESSIBLE LOCATION.

TANK ELECTRIC WATER HEATER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	KW (BTU)	V/PH	GPH @ 60°F RISE	SET POINT (°F)	NOTES (#)
WH–1	RHEEM	ES120–24–G	24 (81,893)	208/3	70	120	(1), (2), (3)

NOTES:
1. WATER HEATER TANK SHALL HAVE A WORKING PRESSURE OF 150PSI, PER MANUFACTURER'S REQUIREMENTS.
2. FURNISH WITH EXPANSION TANK AS SPECIFIED ON PLANS.
3. PROVIDE WITH 1–1/2" COLD WATER AND HOT WATER LINES

EXPANSION TANK SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TOTAL VOLUME (GALLONS)	ACCEPTANCE VOLUME (GALLONS)	CONNECTION LOCATION	CONNECTION SIZE	MOUNTING	NOTES (#)
ET	AMTROL	ST–5	2	.45	TOP	¾"	NEAR WH–1	(1), (2)

NOTES:
1. EXPANSION TANK: STEEL SHELL, HEAVY DUTY BUTYL NSF/ANSI 61, FACTORY PRECHARGED TO 40 PSIG. MAX OPERATING TEMPERATURE 100°, MAX OPERATING PRESSURE 150 PSI, 1 YEAR MANUFACTURER'S WARRANTY. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
2. FIELD CHARGE EXPANSION TANK TO SYSTEM PRESSURE BEFORE CONNECTION TO DOMESTIC WATER SYSTEM. FIELD VERIFY PRESSURE REQUIREMENTS.

PUMP SCHEDULE

SYMBOL	MANUFACTURER	MODEL	GPM	HEAD (FT)	VOLTAGE	PHASE	WATTS	AMPS	NOTES (#)
RCP	GRUNDFOS	ALPHA2	5	12	115	1	5 – 65	0.65	(1)

NOTES:
1. RECIRCULATING PUMP: BRONZE BODY RECIRCULATING PUMP WITH "AUTOADAPT" VARIABLE SPEED MOTOR. INSTALL NEAR WATER HEATER PER MANUFACTURER'S INSTRUCTIONS. PROVIDE WITH ALPHA 3–PRONG PLUG AND COORDINATE CONNECTION WITH ELECTRICAL CONTRACTOR. PROVIDE WITH HONEYWELL L6006C SURFACE MOUNT AQUASTAT SET TO 5°F BELOW WATER HEATER OPERATING TEMPERATURE.

HEAT TRACING

SYMBOL	MANUFACTURER	MODEL	TEMP	LENGTH (MAX)	VOLTAGE	PHASE	WATTS/FOOT	AMP (MAX)	NOTES (#)
HC	RAYCHEM	8XL2–CR/CT	105°F	350	208	1	8	15	(1), (2)

NOTES:
1. SELF–REGULATING HEATING CABLE TO MAINTAIN TEMPERATURE OF USED COOKING OIL LINE. REFER TO PLANS FOR ROUTING. MAXIMUM CIRCUIT LENGTH IS 350'–0" OF CABLE. 208–1V AT 8W/FT (2800 WATT / 15 AMP MAX).
2. PROVIDE WITH EC–W–GF CONTROLLER WITH GROUND FAULT PROTECTION, AND NECESSARY COMPONENTS TO PUT IN WORKING ORDER. INSTALL CABLE PER MANUFACTURER'S RECOMMENDATIONS.

FOODSERVICE PLUMBING SCHEDULE

ID	DESCRIPTION	REMARKS
A10.30	MULTIPLE FRYER SYSTEM, GAS	
A24.U2	MULTIPLE FRYER SYSTEM, GAS	
A35.00	1 COMPARTMENT SINK	
A35.10	PRE–RINSE FAUCET ASSEMBLY	
C10.32	POPEYES DUAL SIDE SANDWICH PREP	
D29.00	PACKING TABLE, DOUBLE SIDED	
D40.00	3 COMPARTMENT SINK	
D40.01	PRE–RINSE FAUCET ASSEMBLY	
D50.00	DISHWASHER	
D70.00	HOT WATER DISPENSER	
D81.00	RETHERMALIZER	
E10.00	WALK–IN COOLER/FREEZER	
E30.84	CHICKEN CRATE	
H10.00	DUAL LINE PRODUCTION COUNTER	
K10.00	ICE MAKER, CUBE–STYLE	
K11.00	ICE MAKER, CUBE–STYLE	
K15.00	ICE BIN	
K20.00	WATER FILTER SYSTEM	
K40.00	GREASE TANK	
K41.00	CO TANK	
K42.00	BAG N BOX	
K71.00	TEA BREWER	
N10.00	HAND SINK	
N20.00	MOP SINK	

THIS SCHEDULE IS A PARTIAL LISTING OF THE EQUIPMENT SUPPLIED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR (FSEC). REFER TO FSEC DRAWINGS FOR A COMPLETE LISTING OF EQUIPMENT, TYPES, SIZES, AND LOCATIONS. PLUMBING CONTRACTOR (PC) TO PROVIDE NECESSARY ITEMS TO INSTALL FSEC EQUIPMENT (INCLUDING VALVES, UNIONS, FITTINGS, ETC.) TO MAKE COMPLETE SYSTEM. THIS LISTING DOES NOT SUPERSEDE THE FSEC DRAWINGS.

BACKFLOW PREVENTER SCHEDULE

LOCATION	TAG	MODEL	ASSE
MAIN WATER SUPPLY	RPZ	WATTS 009QTS	1013
CARBONATOR	DCV–1	WATTS SD–3	1022
SODA DISPENSERS	DCV–2	WATTS SD–2	1032
OTHER EQUIPMENT	DCV–3	WATTS SERIES 7	1024

NOTE:
VERIFY BACKFLOW VALVE REQUIREMENTS AND APPROVAL FOR ALL EQUIPMENT WITH AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION.

GRAVITY GREASE INTERCEPTOR SIZING

FIXTURE	QTY.	FLOW RATE (30 MIN)	TOTAL	FLOW RATE (15 MIN)	TOTAL
FLOOR DRAIN	4	0.00	0.00	0.00	0.00
FLOOR SINK	3	7.50	22.50	3.75	11.25
MOP BASIN	1	140.25	140.25	70.13	70.13
THREE COMP SINK	1	450.00	450.00	30.00	30.00

		CALCULATED FLOW RATE (GPM)
TOTAL FIXTURE FLOW RATE (30 MIN)	612.75	
TOTAL FIXTURE FLOW RATE (15 MIN)	103.88	42.00
PIPE SIZE FLOW RATE (4 IN)	75	42.00

[(CU IN / 231) = GAL X 0.75 / 2 MIN = 2 MIN FLOW RATE]

		GREASE PRODUCTION (LBS OF FOG)
NUMBER OF SEATS	22	
AVG. MEALS PER SEAT PER DAY	4	116.0
FAST FOOD – FULL PREP (HIGH / NO FLATWARE: 0.035 LBS PER SERVING)	0.035	
DAYS BETWEEN PUMP OUTS	90	

[SERVINGS PER DAY X GREASE PRODUCTION VALUE X DAYS BETWEEN PUMP–OUTS = GREASE OUTPUT]

HOT WATER DEMAND CALCULATIONS

FIXTURE	QTY	LENGTH (IN)	WIDTH (IN)	DEPTH (IN)	VOLUME (IN^3)	GPH (@37.5%)
3-COMPARTMENT SINK	1	20	15	14	12600	20.45
		MNF. RATE (GPM)	WATER USAGE (GPH)	STD. RATE (GPM)	GPH	COMBINED GPH
PRE-RINSE SPRAYER	2	1.15	32	2.5	14.72	29.44
LAVATORY	1	0.5	5	2.2	1.14	1.14
HAND SINK	3	2.2	5	2.2	5.0	15.0
PREP SINK	1	2.2	5	2.2	5.0	5.0
MOP SINK	1	---	---	---	15.0	15.0
DISHWASHER	1	---	---	---	29.6	29.6
					TOTAL GPH	115.63

*HOT WATER USE REDUCTION CALCULATIONS: GPH = (MNF. RATE x WATER USAGE VALUE) / STD. RATE

TOTAL GPH	TEMP RISE (°F)	BTU/(LB · °F)	LB/GAL	ELEC EFFICIENCY	BTU/kW·H	MINIMUM kW
115.63	70	1.002	8.33	98%	3412	20.2

ISSUE TABLE

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REVISIONS

No.	Date	Description
1	8/01/2023	RESPONSE TO CITY

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

NORTH CAROLINA PROFESSIONAL SEAL 41082 ENGINEER APPROVED

8.2.2023

Company Logo

THE DIMENSION GROUP
ARCHITECTURE–CIVIL ENGINEERING–MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensionpc.com

Project

LOUISIANA KITCHEN 19 72 POPEYES

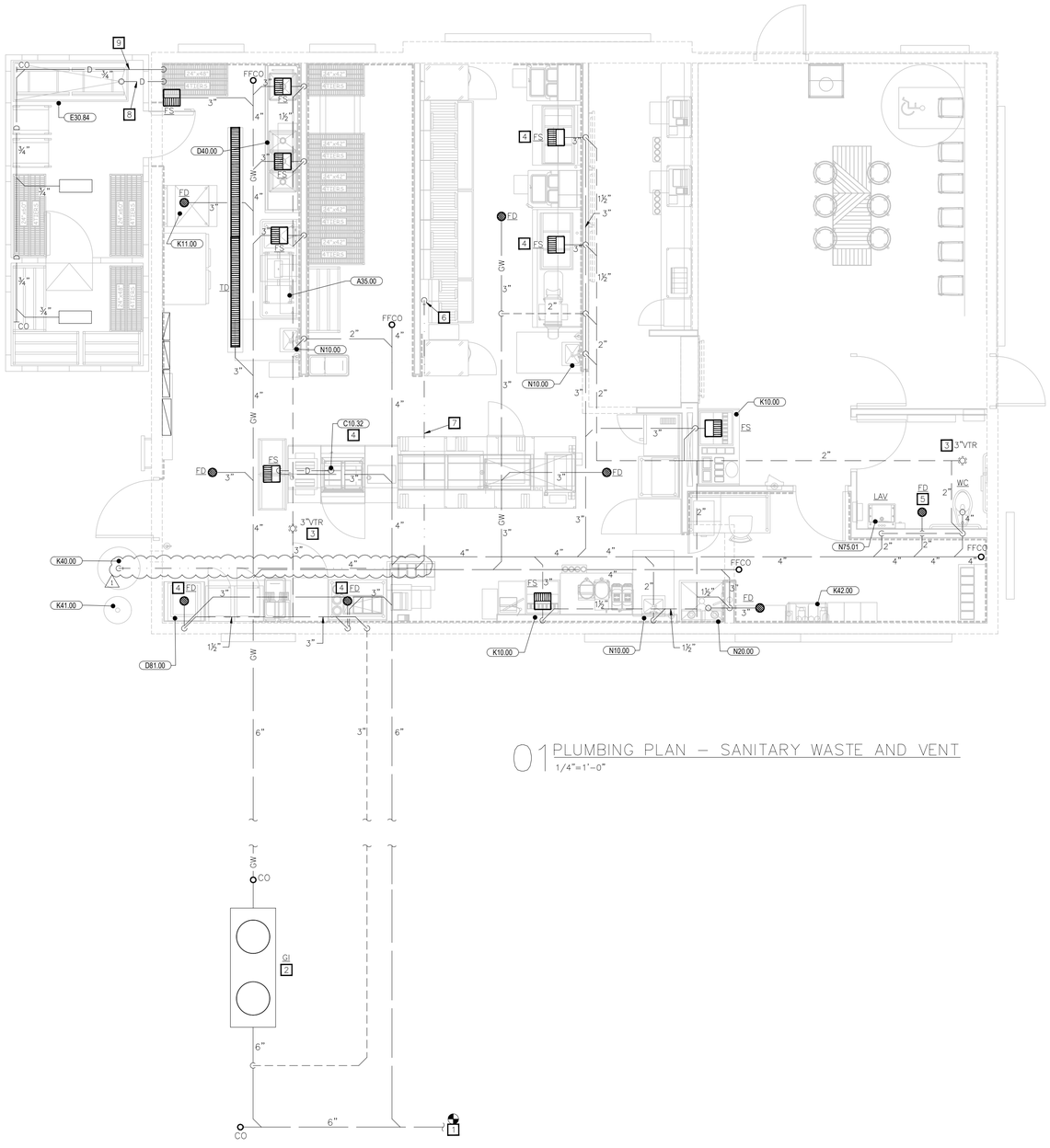
Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
PLUMBING SCHEDULES & NOTES

Drawn	Checked
NI	AH
Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	P1.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



01 PLUMBING PLAN – SANITARY WASTE AND VENT

1/4"=1'-0"

PLUMBING KEY NOTES

1. CONNECT TO SANITARY WASTE LINE ON EXTERIRO OF BUILDING PROVIDED BY OTHERS. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
2. PROVIDE 1500 GALLON GREASE INTERCEPTOR AS SHOWN PER PLANS. REFER TO "GREASE INTERCEPTOR" DETAIL. LOCATE INTERCEPTOR OUTSIDE OF DRIVE LANES. COORDINATE WITH CIVIL DRAWINGS FOR FINAL LOCATION.
3. PROVIDE SANITARY VENT THROUGH ROOF AS SHOWN PER PLAN PER "VENT THRU ROOF (VTR)" DETAIL. LOCATE VENT MINIMUM OF 10'-0" AWAY FROM AIR INTAKES ON ROOF, UNLESS APPROVED BY ENGINEER PRIOR TO INSTALLATION.
4. PROVIDE DRAIN LINE FROM KITCHEN EQUIPMENT TO FLOOR SINK. REFER TO KITCHEN EQUIPMENT PLANS.
5. EMERGENCY DRAIN IN RESTROOM SHALL BE INSTALLED FLUSH TO GRADE WITH NO SLOPE. COORDINATE INSTALLATION HEIGHT WITH GENERAL CONTRACTOR TO ENSURE PROPER INSTALLATION.
6. USED COOKING OIL LINE MOUNTED FLUSH AGAINST WALL @ 3'-0" AFF. REFER TO "USED COOKING OIL RECOVERY" DETAIL. G.C. SHALL PROVIDE STAINLESS STEEL COVER TO CEILING.
7. PROVIDE HC HEAT TRACE TAPE ON USED COOKING OIL LINE FROM BUILDING TO TANK. INSTALL HEAT TRACE PER MANUFACTURER'S RECOMMENDATIONS. REFER TO PLUMBING FIXTURE SCHEDULE FOR MORE INFORMATION.
8. EXTEND CHICKEN VAT'S 2" COPPER INDIRECT WASTE LINE THROUGH COOLER WALL TO DISCHARGE INTO FLOOR SINK.
9. ROUTE FREEZER/COOLER CONDENSATE DRAIN TO FLOOR SINK PER "WALK-IN COOLER/FREEZER DRAIN" DETAIL.

DFU CALCULATIONS

FIXTURE	QTY.	DFU	TOTAL
WATER CLOSET	1	4	4
LAVATORY	1	1	1
MOP BASIN	1	3	3
HAND SINK	3	1	3
3" FLOOR SINK	9	5	45
3" TRENCH DRAIN (EMERGENCY)	1	–	–
2"/3" FLOOR DRAIN (EMERGENCY)	7	–	–
DFU VALUES PER IPC		DFU TOTAL	56.0

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No.	Date	Description

PROJECT NORTH

NORTH CAROLINA PROFESSIONAL SEAL 41082 ENGINEER ARCHIBALD HAMILTON

8.2.2023

Company Logo

THE DIMENSION GROUP

ARCHITECTURE · CIVIL ENGINEERING · MEP ENGINEERING

10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensiongrp.com

Project

LOUISIANA KITCHEN 19 72

POPEYES

Store Type

US 2112 PROTOTYPE
2112-21

Location

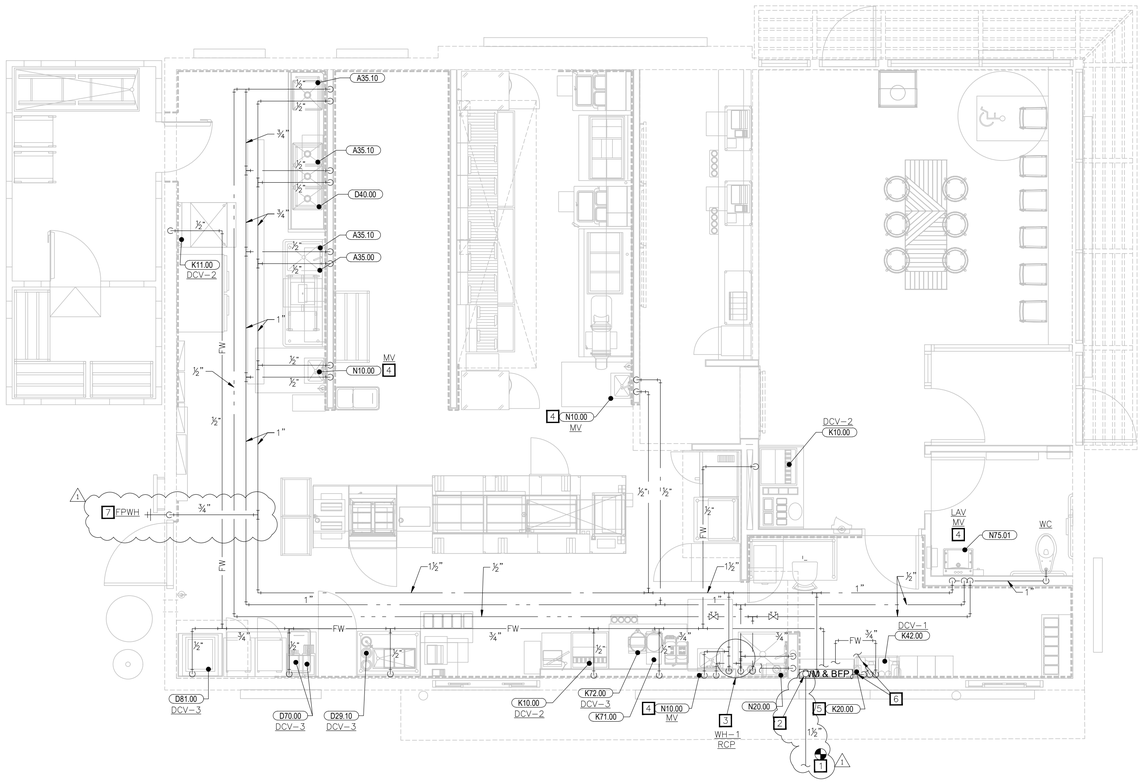
1517 NC 24-87
CAMERON, NC

Drawing Title

PLUMBING PLAN - SANITARY WASTE AND VENT

Drawn	Checked
NI	AH
Scale	**Date**
1/4" = 1'-0"	JUNE 2023
Project No.	**Drawing No.**
C22-129	P2.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



01 PLUMBING PLAN – DOMESTIC WATER
1/4"=1'–0"

PLUMBING KEY NOTES

1. CONNECT TO DOMESTIC WATER SERVICE 5'–0" OUTSIDE BUILDING PROVIDED BY OTHERS. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
2. PROVIDE WATER SERVICE ENTRANCE AS SHOWN PER PLANS. REFER TO "DOMESTIC WATER SERVICE ENTRY" DETAIL.
3. ROUTE 1" HW, 1" CW AND ¾" HWR LINES TO WATER HEATER, EXPANSION TANK, AND RECIRCULATING PUMP AS SHOW PER PLANS AND PER "TANK ELECTRIC WATER HEATER", "RECIRCULATION PUMP", AND "SMALL EXPANSION TANK" DETAILS. DISCHARGE T&P RELIEF VALVE AND OVERFLOW TO FLOOR DRAIN PER "INDIRECT DRAIN" DETAIL. PROVIDE VALVE AND UNION ON INLET AND OUTLET. PROVIDE BALANCING VALVES AS REQUIRED FOR RECIRCULATING SYSTEM.
4. PROVIDE INDIVIDUAL MIXING VALVE FOR ALL HAND SINKS AND LAVATORIES IN AN ACCESSIBLE LOCATION.
5. WATER FILTER MOUNTED ON WALL. STUB–OUT WATER SUPPLY @ 8'–4" A.F.F. REFER TO "WATER FILTER" DETAIL.
6. BEVERAGE CONDUIT ABOVE CEILING TO DRINK STATION. REFER TO "BEVERAGE CONDUIT – ABOVE SLAB" DETAIL.
7. MOUNT FREEZE–PROOF WALL HYDRANT 18" ABOVE FINISHED GRADE. VERIFY EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS.

WSFU CALCULATIONS

FIXTURE	QTY.	WSFU	TOTAL
WATER CLOSET (FLUSH)	1	10	10
LAVATORY	1	2	2
MOP BASIN	1	3	3
HAND SINK	3	2	6
1–COMP SINK	1	3	3
3–COMP SINK	1	3	3
WAREWASH	1	3	3
BEVERAGE STATION	2	2	4
ICE MAKER	3	1	3
HOT WATER DISPENSER	2	1	2.0
TEA BREWER	1	1	1.0
WSFU VALUES PER IPC		WSFU TOTAL	40.00

WATER CALCULATION

CRITICAL ELEVATIONS AND DISTANCES:	FEET
ELEVATION OF CONTROLLING FIXTURE (WH–1,2,3)	6.0
ELEVATION OF FINISHED FLOOR	0.0
ELEVATION OF WATER MAIN CONNECTION	–4.0
VERTICAL DIST. FROM WATER MAIN CONNECTION TO CONTROLLING FIXTURE	10.0
SYSTEM PRESSURE REQUIREMENTS:	**PSI**
ELEVATION (VERTICAL DISTANCE) X 0.434 PSI/FT	4.3
PRESSURE NEEDED AT CONTROLLING FIXTURE	35
BACKFLOW PREVENTER: 1–1/2" (INTERIOR**)	10.0
WATER METER: 1–1/2" (INTERIOR**)	8.0
TOTAL	39.3
PIPE RUNS:	**FEET**
EXTERIOR, MAIN TO BUILDING ENTRY (VERIFY**)	200
INTERIOR, ENTRY TO CONTROLLING FIXTURE	42
INTERIOR, VERTICAL RISE	10.0
ALLOWANCE FOR FITTINGS, ETC. (LENGTH X 0.25)	13.0
TOTAL	265.0
SYSTEM PRESSURE DATA:	**PSI**
MINIMUM SYSTEM PRESSURE REQUIRED AT MAIN (VERIFY**)	65.0
SYSTEM PRESSURE REQUIRED FOR SYSTEM	39.3
PRESSURE AVAILABLE FOR (PIPING) FRICTION LOSS	25.7
PIPE SIZING:	**PSI/100'**
PRESSURE AVAILABLE X 100 / (TOTAL PIPE RUN)	9.7

* NOTE: ALL PIPING IS SIZED FOR 5 PSI/100' PRESSURE LOSS
** NOTE: FIELD VERIFY SYSTEM PRESSURE, LINE SIZES, BACKFLOW LOCATION, AND METER LOCATION PRIOR TO STARTING WORK. NOTIFY ENGINEER IMMEDIATELY IF SYSTEM PRESSURE IS LOWER THAN REQUIRED PRESSURE OR ANY CONDITIONS EXIST THAT CONFLICT WITH INFORMATION SHOWN ABOVE.

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PROJECT NORTH

NORTH CAROLINA PROFESSIONAL SEAL 41082 ENGINEER APPROVED

8.2.2023

Company Logo

THE DIMENSION GROUP
ARCHITECTURE · CIVIL ENGINEERING · MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensionpg.com

Project

LOUISIANA KITCHEN 1972
POPEYES

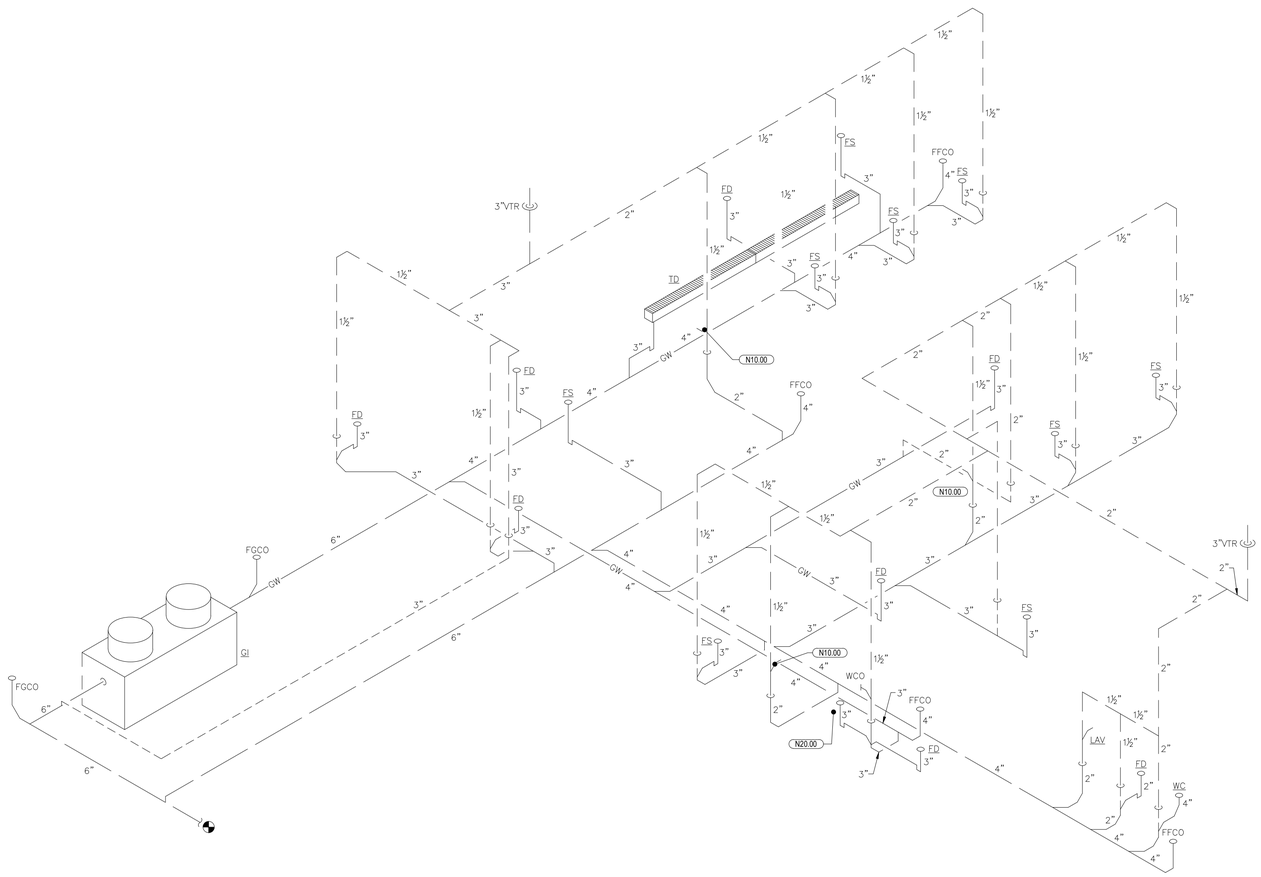
Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

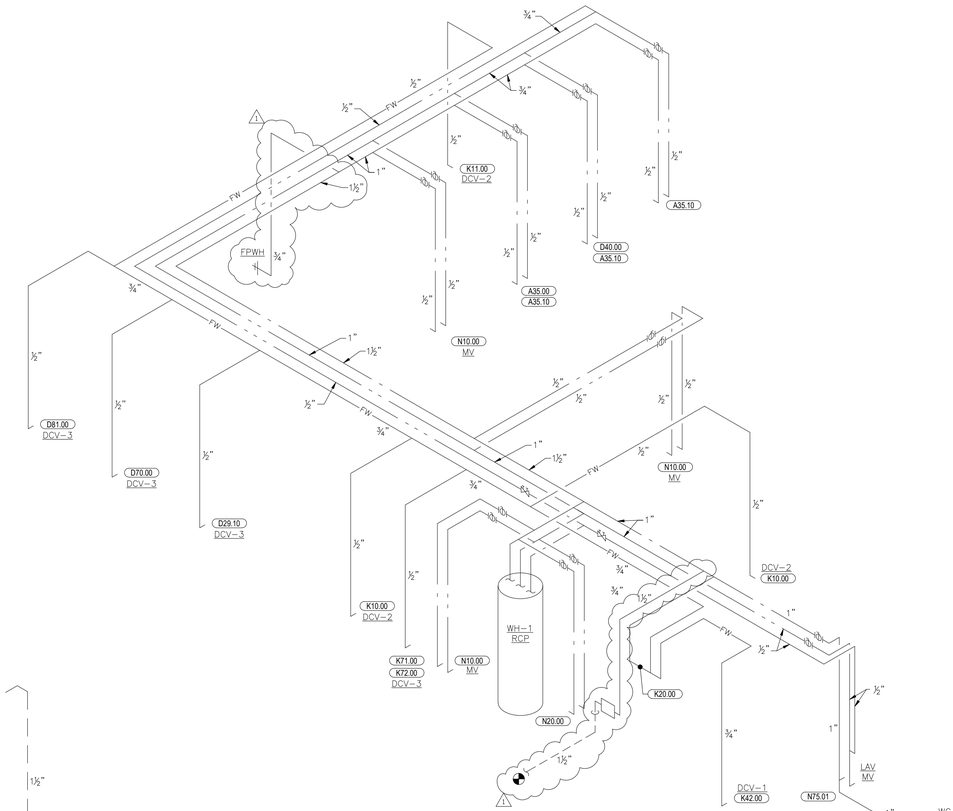
Drawing Title
PLUMBING PLAN - DOMESTIC WATER

Drawn	Checked
NI	AH
Scale	**Date**
1/4" = 1'-0"	JUNE 2023
Project No.	**Drawing No.**
C22-129	P2.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87. CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



01 SANITARY WASTE AND VENT RISER
1/4"=1'-0"



02 DOMESTIC WATER RISER
1/4"=1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 41082 ENGINEER APPROVED

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Project

LOUISIANA KITCHEN 19 72
POPEYES

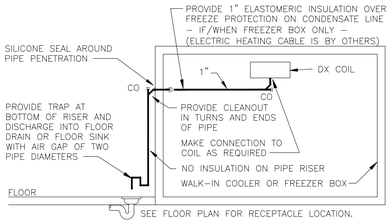
Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
PLUMBING RISERS

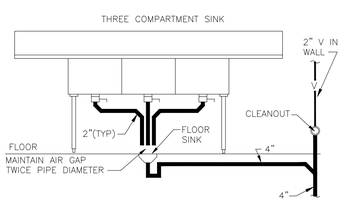
Drawn	Checked
NI	AH
Scale	**Date**
	JUNE 2023
Project No.	**Drawing No.**
C22-129	P3.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



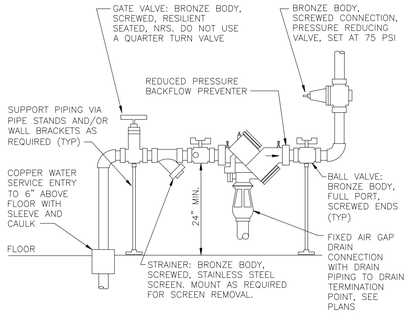
INSTALL PIPE HIGH AS POSSIBLE, ANCHORED TO WALL OF BOX WITH SUPPORTS AT MAXIMUM SIX FOOT CENTERS. USE TYPE "M" HARD COPPER TUBE AND FITTINGS WITH LEAD-FREE SOLDER JOINTS. SLOPE HORIZONTAL PIPE AT MINIMUM TWO PERCENT. REFER TO LOCAL CODE FOR INDIRECT DRAIN REQUIREMENTS.

11 WALK-IN COOLER/FREEZER DRAIN
NOT TO SCALE



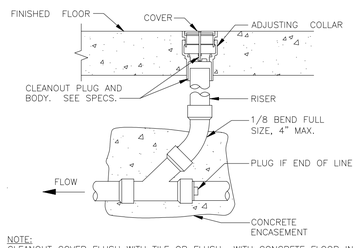
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS OR MEET LOCAL CODE REQUIREMENTS. UTILIZE HUBLESS CAST IRON PIPE, FITTINGS AND CONNECTORS FOR SINK CONNECTIONS.

15 3-COMP SINK
NOT TO SCALE



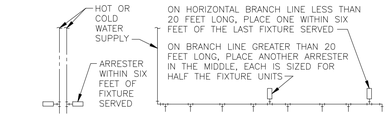
DETAIL SHOWS GENERAL SCHEMATIC REQUIREMENTS. PROVIDE BACKFLOW PREVENTER OF TYPE AND MANUFACTURER APPROVED BY LOCAL AUTHORITIES. PROVIDE PRESSURE REDUCING VALVE ONLY IF PRESSURE EXCEEDS 80 PSI – VERIFY. STRAINER AND REDUCING VALVE MAY BE INSTALLED IN VERTICAL PIPE IF SPACE LIMITATIONS REQUIRE IT. CLEAN STRAINER BEFORE TURNING BUILDING OVER TO OWNER. PROVIDE ANY REQUIRED CERTIFICATION OF TEST OF BACKFLOW PREVENTER TO LOCAL AUTHORITIES.

13 DOMESTIC WATER SERVICE ENTRY
NOT TO SCALE



NOTE:
CLEANOUT COVER FLUSH WITH TILE OR FLUSH WITH CONCRETE FLOOR IN AREA WITH NO TILE.

14 FLOOR CLEAN-OUT
NOT TO SCALE

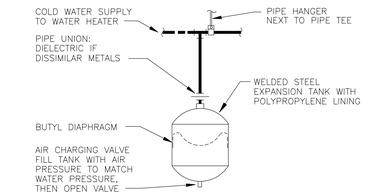


PDI SIZE	FIXTURE UNIT LOAD
AA	1–3
A	4–11
B	12–32
C	33–60
D	61–113
E	114–154
F	155–330

FIXTURE UNIT TABULATION		
FIXTURE	COLD	HOT
VALVE WATER CLOSET	10	–
TANK WATER CLOSET	5	–
URINAL	5	–
LAVATORY	1.5	1.5
SINK	2	2
MOP BASIN	3	3
SHOWER/BATHTUB	2	3
DRINKING FOUNTAIN	0.5	–

PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 OR ANSI #A112.26.1M CERTIFICATION. SIZE AND INSTALL PER PDI #WH-201 STANDARD OR MANUFACTURER'S INSTRUCTION. THE TABLES ABOVE ARE BASED ON THE SIOUX CHIEF PRODUCT LINE. IF PRESSURE IS IN EXCESS OF 65 PSIG THEN UPSIZE THE ARRESTER BY ONE (EXAMPLE: AN 'A' ARRESTER WOULD BECOME A 'B' ARRESTER.)

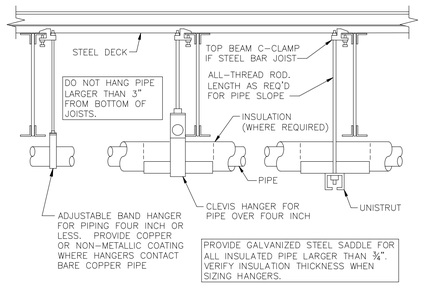
09 WATER HAMMER ARRESTERS
NOT TO SCALE



PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. MAKE PIPE SAME SIZE AS TANK FITTING. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE. VERIFY PROPER OPERATION WHEN INSTALLED.

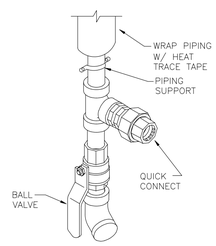
EXPANSION TANK INSTALLATION SHALL OCCUR ONLY WHEN THERE IS A BACKFLOW PREVENTION DEVICE INSTALLED WITHIN THE TENANT SPACE WATER SYSTEM OR BUILDING WATER SYSTEM.

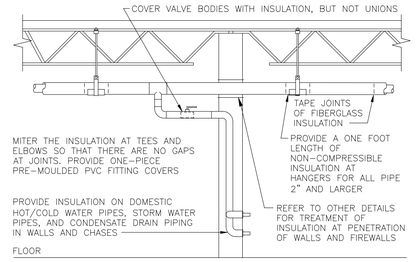
10 SMALL EXPANSION TANK
NOT TO SCALE



PROVIDE UPPER ATTACHMENT AS REQUIRED FOR CASES NOT SHOWN HERE. DO NOT INSTALL HANGER INSIDE INSULATION OR OTHERWISE PENETRATE VAPOR BARRIER. DO NOT HANG ONE PIPE FROM ANOTHER EXCEPT IN CHASES. TRAPEZE HANGERS MAY BE USED FOR MULTIPLE PARALLEL PIPES. HANGER SPACING FOR PIPE SIZE: COPPER: 4"=12'-0"; 3"=11'-0"; 2½"=10'-0"; 2"=9'-0"; 1½"=8'-0"; 1¼"=7'-0"; 1" & ¾"=6'-0"; ½"=5'-0". CAST IRON: 10'-0" AND ONE NEAR ALL JOINTS. STEEL: 4"=14'-0"; 3"=12'-0"; 2½"=11'-0"; 2"=10'-0"; 1½"=9'-0"; 1"=7'-0"; ¾"=6'-0"; ½"=5'-0". LOCATE HANGERS AS CLOSE AS POSSIBLE TO TURNS AND TEES OF PIPE. PROVIDE SUPPLEMENTARY STEEL STRUTS BETWEEN JOISTS IF REQUIRED. LOCATE HANGERS TO TAKE LOAD OFF OF EQUIPMENT CONNECTIONS. ANCHOR WATER PIPE AGAINST SWAYING DUE TO CHANGES IN WATER VELOCITY. PROVIDE SEISMIC BRACING IF/AS REQUIRED BY LOCAL AUTHORITIES. CHAINS OR PERFORATED STRAP IRON OR STEEL IS NOT ACCEPTABLE. REFER TO CODES FOR FURTHER INFORMATION.

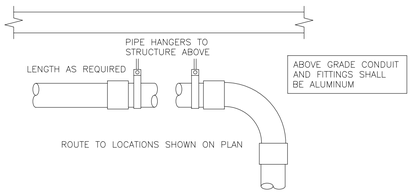
05 PIPE HANGERS
NOT TO SCALE





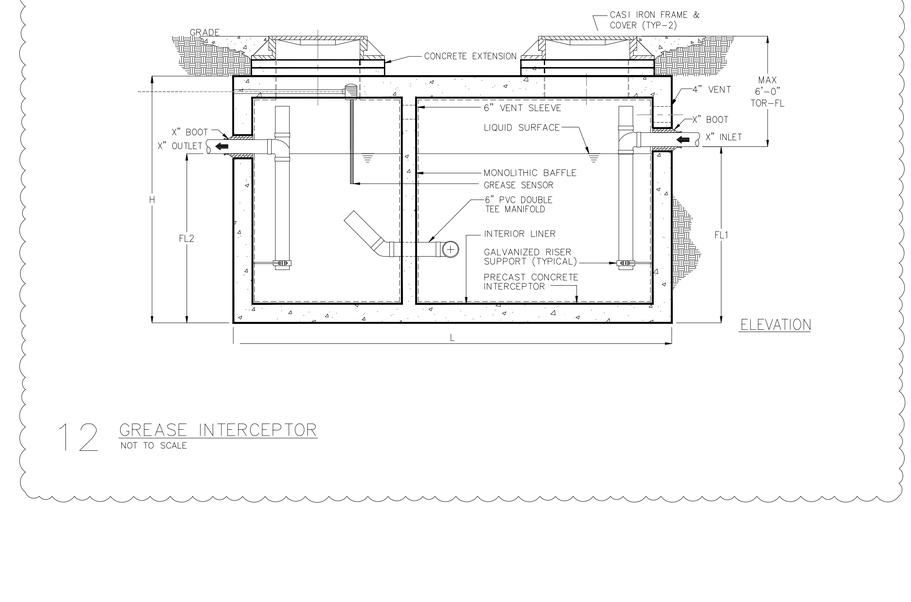
PROVIDE FIBERGLASS INSULATION WITH ALL-SERVICE JACKET WITH VAPOR BARRIER ON ALL COLD/HOT WATER PIPING AND CONDENSATE DRAIN PIPE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ALL ITEMS PER SPECIFICATIONS AND MANUFACTURERS INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD PIPING BY MEANS OF SEALANT AND TAPE. FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC.

01 PIPE INSULATION
NOT TO SCALE

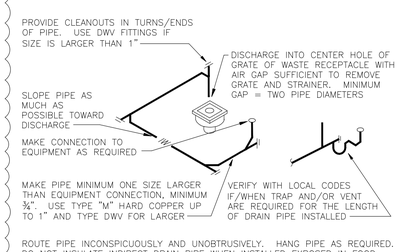


PROVIDE ALUMINUM BEVERAGE CONDUIT AND FITTINGS EQUAL TO BEVSTREAM SYSTEM (WWW.BEVSTREAM.COM). USE MINIMUM QUANTITY OF FITTINGS WITH LONG SWEEP ELBOWS AT BOTH ENDS WITH A MINIMUM RADIUS OF 30" ON 6" OR SMALLER AND 48" ON 8" OR LARGER. AVOID ELBOWS IN HORIZONTAL RUN IF AT ALL POSSIBLE. GENERAL CONTRACTOR SHALL SEAL ENDS OF CONDUIT WITH FOAM AFTER BEVERAGE LINES ARE INSTALL IN CONDUIT. COORDINATE WITH FOOD SERVICE DRAWING FOR EXACT SIZE AND LOCATION OF CONDUIT. CUT CONCRETE FLOOR SLAB, BACKFILL, REPAIR VAPOR BARRIER AND PATCH SLAB PER ARCHITECT'S REQUIREMENTS.

02 BEVERAGE CONDUIT – ABOVE SLAB
NOT TO SCALE

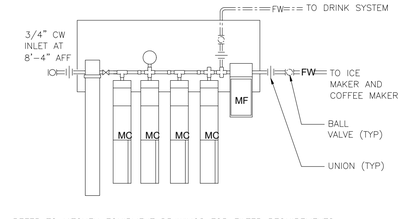


12 GREASE INTERCEPTOR
NOT TO SCALE



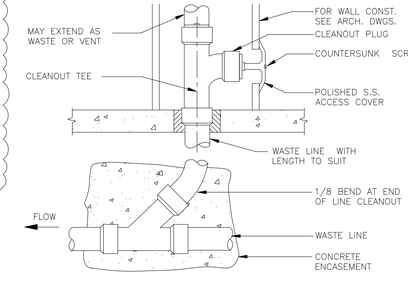
ROUTE PIPE INCONSPICUOUSLY AND UNOBTRUSIVELY. HANG PIPE AS REQUIRED. DO NOT INSULATE INDIRECT DRAIN PIPE WHEN INSTALLED EXPOSED IN FOOD SERVICE FACILITY. REFER TO LOCAL CODES FOR FURTHER INFORMATION.

07 INDIRECT DRAIN
NOT TO SCALE

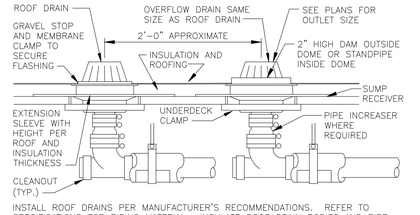


REFER TO KITCHEN EQUIPMENT DRAWINGS FOR FILTER REQUIREMENTS.

03 WATER FILTER
NOT TO SCALE



08 WALL CLEAN-OUT
NOT TO SCALE



INSTALL ROOF DRAINS PER MANUFACTURER'S RECOMMENDATIONS. REFER TO SPECIFICATIONS FOR PIPING MATERIAL. INSULATE ROOF DRAIN BODIES AND PIPE PER SPECIFICATIONS. LOCATE DRAINS WHERE SHOWN ON ARCHITECTURAL PLANS – VERIFY WITH STRUCTURAL PLANS FOR ROOF LOW POINTS. COORDINATE WITH ROOFING CONTRACTOR. REFER TO STRUCTURAL DRAWINGS AND COORDINATE THEREWITH IF REQUIRED FOR SUPPLEMENTARY STEEL AROUND ROOF OPENING. ARRANGEMENT SHOWN IS SCHEMATIC -- ADJUST TO SUIT ACTUAL CONDITIONS.

04 ROOF DRAIN AND OVERFLOW
NOT TO SCALE

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description
1	8/01/2023	RESPONSE TO CITY

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

NORTH CAROLINA PROFESSIONAL SEAL 41082 ENGINEER APPALACHIAN

8.2.2023

Company Logo

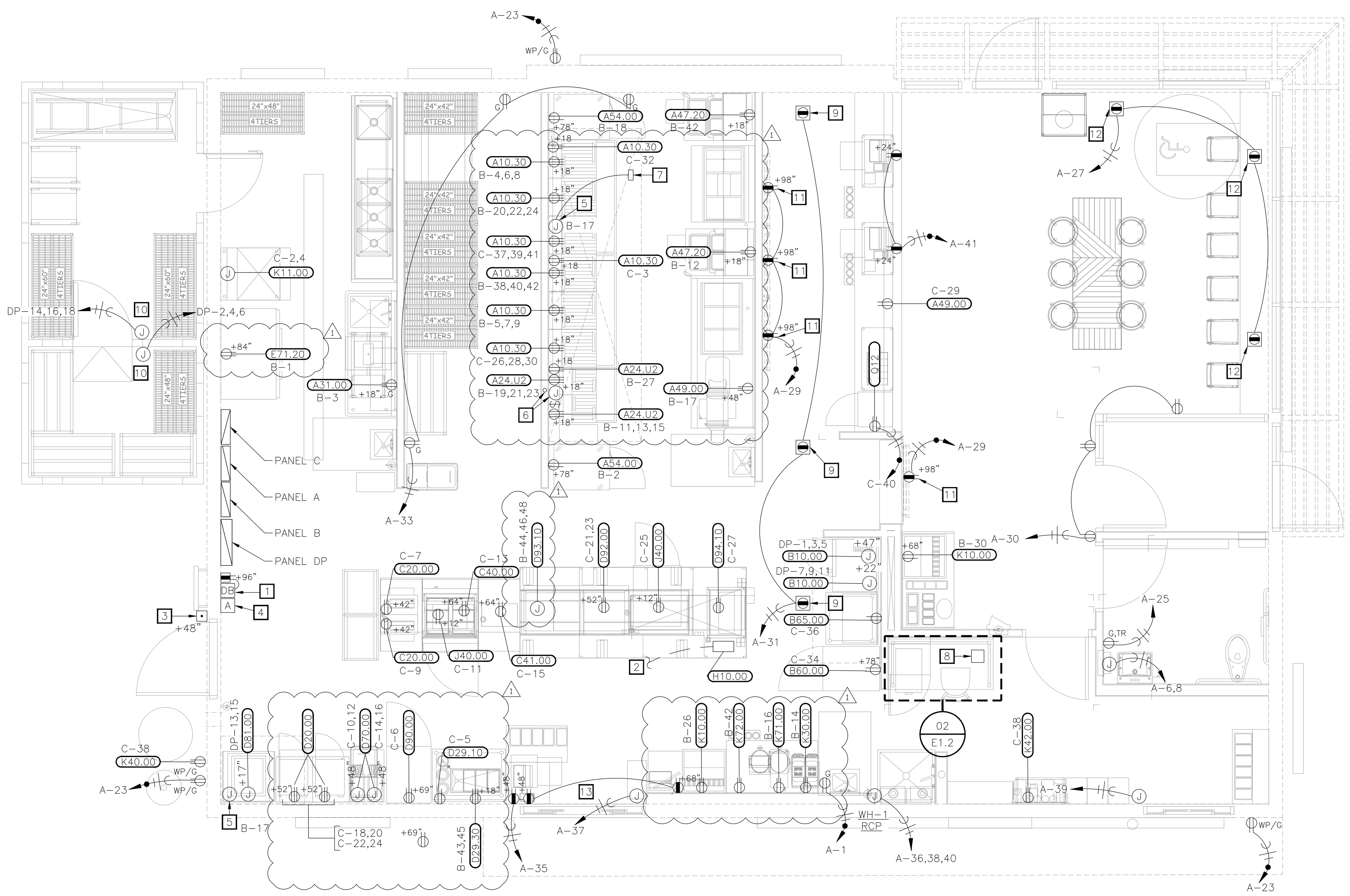
THE DIMENSION GROUP
ARCHITECTURE · CIVIL ENGINEERING · MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensionpg.com

Project

LOUISIANA KITCHEN 19 72
POPEYES

Store Type	
US 2112 PROTOTYPE 2112-21	
Location	
1517 NC 24-87 CAMERON, NC	
Drawing Title	
PLUMBING DETAILS	
Drawn: NI	Checked: AH
Scale:	Date: JUNE 2023
Project No.: C22-129	Drawing No.: P4.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

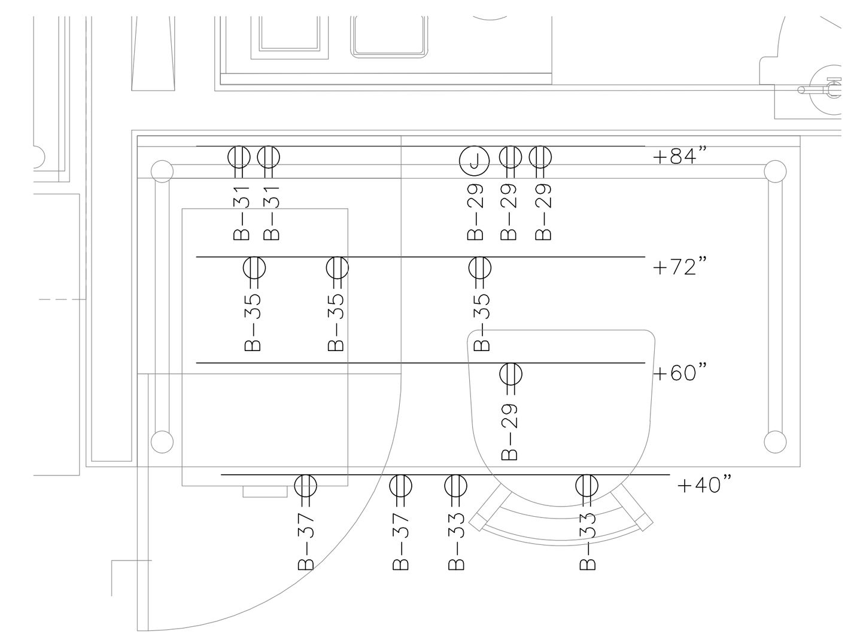


01 POWER PLAN

1/4"=1'-0"

ELECTRICAL KEYNOTES

1. PROVIDE DOUBLE DUPLEX RECEPTACLE ADJACENT TO TELEPHONE BOARD. PROVIDE #6 CU GROUND TO SERVICE ENTRANCE GROUND. SEE ARCHITECTURAL ELEVATIONS.
2. ALL POWER FOR ISLAND KITCHEN EQUIPMENT TO RUN THROUGH LOAD CENTER H10.00. CONDUIT TO RUN UNDER SLAB AND STUB AT H10.00.
3. SERVICE SIGN AND PUSHBUTTON FOR DOORBELL.
4. E.C. TO WIRE AND CONNECT REMOTE ANSUL PULLSTATION.
5. E.C. TO INSTALL AND WIRE RELAY CONTROL PANEL PACKAGE FOR HOOD EXHAUST FANS HEF-1 AND HEF-2. PROVIDE POWER AND INTERLOCK CONTROL WIRING FOR HP1-F CONTROL PANEL AND HOOD FIRE SUPPRESSION SYSTEM. SEE EXHAUST HOOD WIRING DETAIL SHEET E3.2.
6. HOOD ANSUL FIRE SUPPRESSION SYSTEM. PROVIDE 3/4" CONDUIT STUBBED ABOVE CEILING.
7. "ON/OFF" SELECTOR SWITCH AND PILOT LIGHT IN NEMA 4X STAINLESS STEEL ENCLOSURE MOUNTED ON THE FACE OF THE HOOD. PROVIDED BY HOOD MANUFACTURER.
8. OFFICE EXHAUST FAN SHALL BE CONNECTED TO OPERATE WITH AREA LIGHTING. INTERLOCK EXHAUST FAN WITH LIGHTS.
9. PROVIDE CEILING OUTLET WITH ISOLATED GROUND RECEPTACLES SUPPORTED FROM BUILDING STRUCTURE FOR VIDEO MONITOR, PRINTER, AND/OR HEADSET. VERIFY EXACT REQUIREMENTS AND LOCATION.
10. POWER CONNECTION TO WALK-IN FREEZER, EVAP, DEFROSTER, HEAT TAPE, AND DOOR HEATER.
11. POWER FOR MENUBOARDS. REFER TO "MONITOR BRACKET DETAIL" ON SHEET E3.1 FOR MORE INFORMATION.
12. CEILING MOUNTED SHOW WINDOW RECEPTACLE.
13. SEE DETAIL 07, E3.1 FOR DRIVE-THRU AUDIO AND TIMERS DIAGRAM.



02 MANAGER'S DESK POWER PLAN

3/4"=1'-0"

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

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DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

PROJECT NORTH

NORTH CAROLINA PROFESSIONAL SEAL 41082 ENGINEER AFSAR HASAN

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8.2.2023

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TEL: 214-343-9400 www.dimensiongrp.com

Project

LOUISIANA 19 72 KITCHEN

POPEYES

Store Type: US 2112 PROTOTYPE 2112-21

Location: 1517 NC 24-87 CAMERON, NC

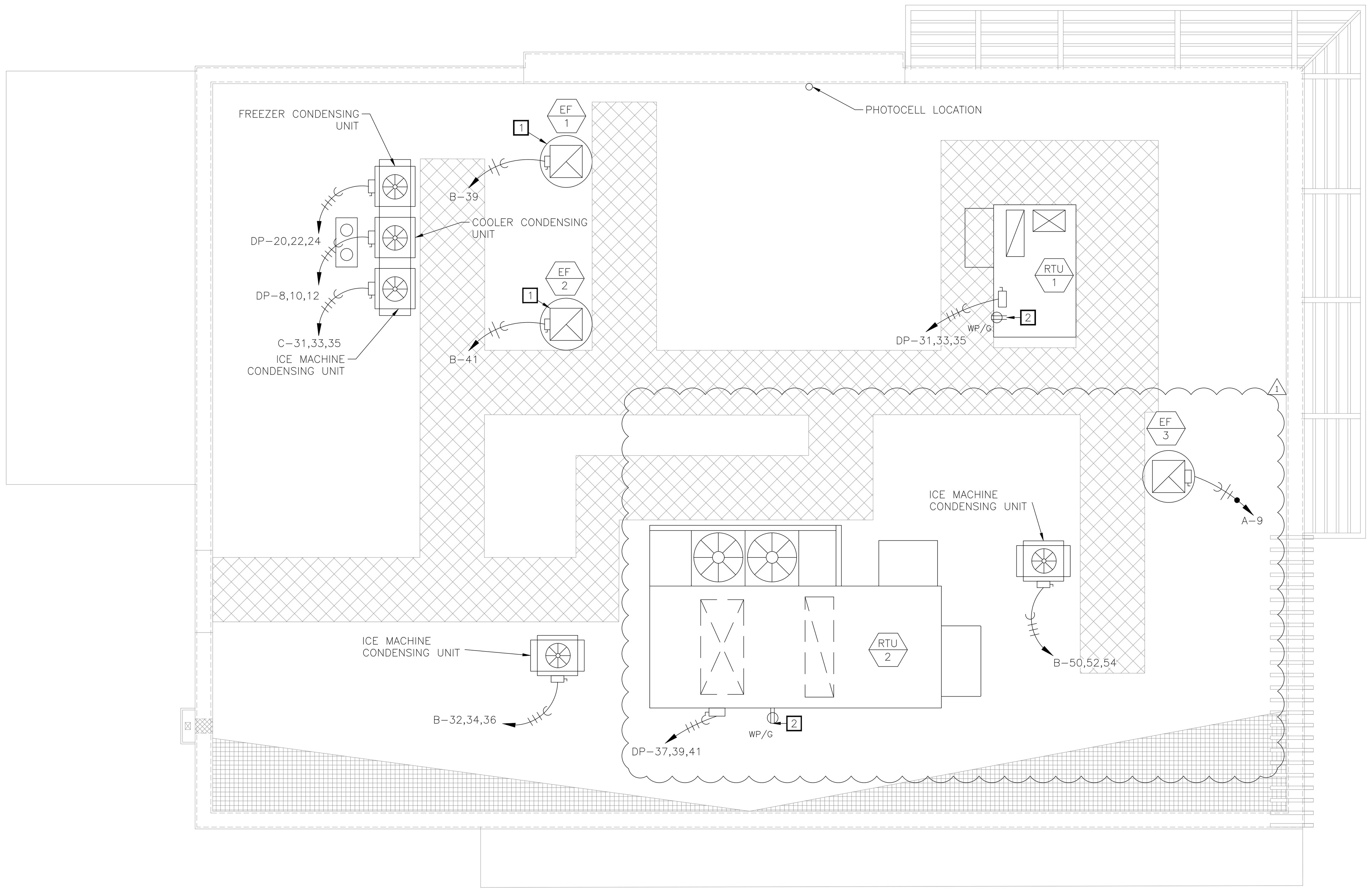
Drawing Title: ELECTRICAL POWER PLAN

Drawn	Checked
JP	AH
Scale	Date
AS SHOWN	JUNE 2023
Project No.	Drawing No.
C22-129	E1.2

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87. CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

ELECTRICAL KEYNOTES

1. PROVIDE CONNECTION TO ASSOCIATED SWITCH ON HOOD. COORDINATE ALL REQUIREMENTS WITH MECHANICAL DRAWINGS AND HOOD WIRING DIAGRAM PRIOR TO ROUGH–IN.
2. UNIT IS PROVIDED WITH UNIT MOUNTED UNIT POWERED CONVENIENCE RECEPTACLE.



01 ROOF POWER PLAN
1/4"=1'-0"

ISSUE TABLE

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REVISIONS

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DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

N
PROJECT NORTH

THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND TO REPORT ANY DISCREPANCIES TO THE POPEYES LOUISIANA KITCHEN REPRESENTATIVE PRIOR TO COMMENCING WORK. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS INDICATED BY POPEYES LOUISIANA KITCHEN AS "ISSUED FOR CONSTRUCTION".

NORTH CAROLINA PROFESSIONAL SEAL 41082 ENGINEER AFSAR HASAN

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Project

LOUISIANA 19 72 KITCHEN
POPEYES

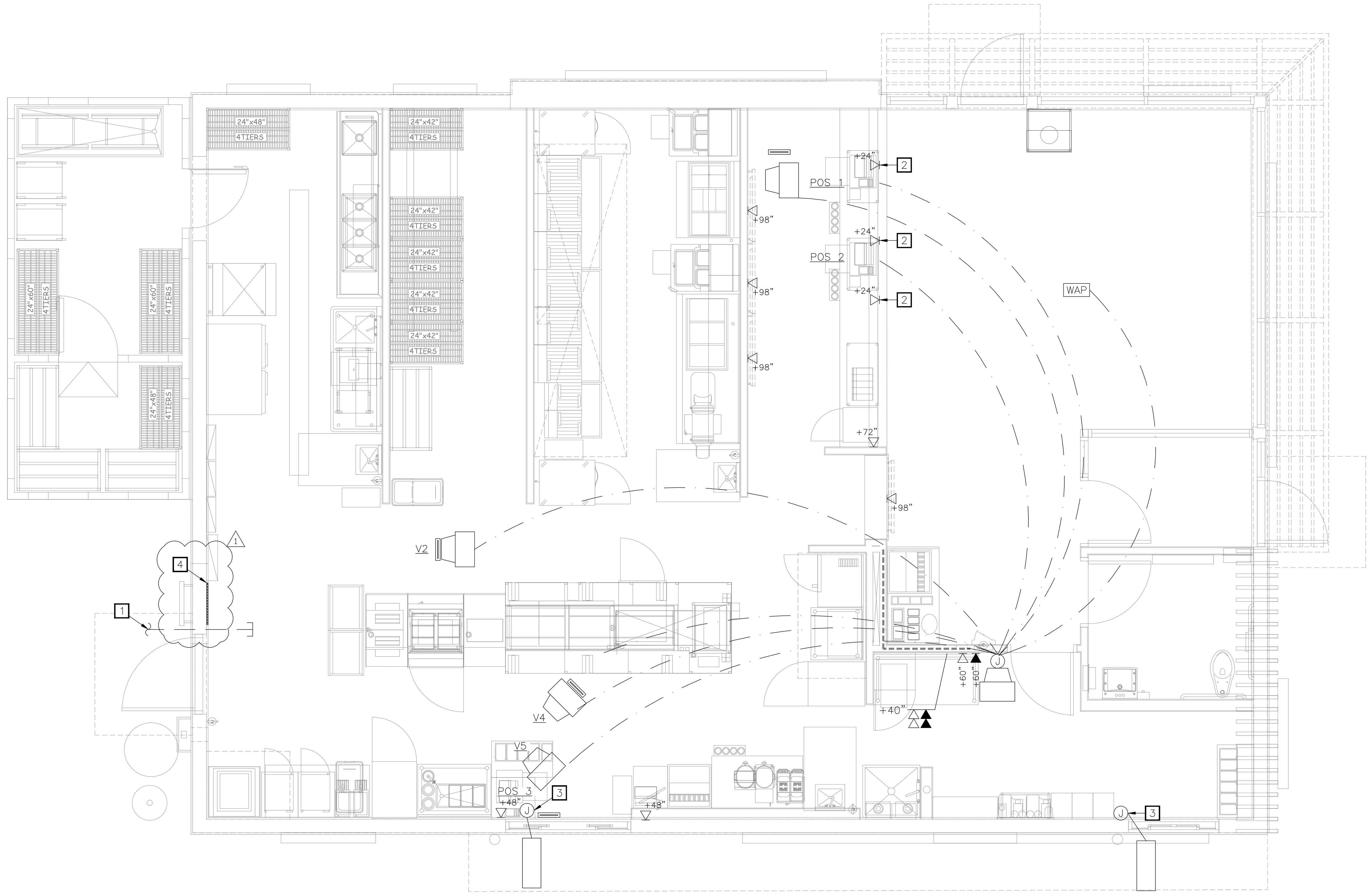
Store Type
US 2112 PROTOTYPE
2112-21

Location
1517 NC 24-87
CAMERON, NC

Drawing Title
ELECTRICAL ROOF PLAN

Drawn	Checked
JP	AH
Scale	Date
1/4" = 1'-0"	JUNE 2023
Project No.	Drawing No.
C22-129	E1.3

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87. CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129



01 LOW VOLTAGE PLAN
1/4"=1'-0"

ELECTRICAL KEYNOTES

1. (2) 2" CONDUITS FROM TELEPHONE BOARD TO A LOCATION COORDINATED WITH LOCAL TELEPHONE COMPANY. OWNER REQUIRED SERVICE CONDUITS SHALL BE SIZED FOR 25 PAIR (MINIMUM). TELEPHONE SERVICE CONDUITS SHALL BE INSTALLED WITH PULL WIRE. CONDUITS RISE FROM U.G. INSIDE EXTERIOR WALL, TURN 90 DEGREES, AND TERMINATE IN BUILDING. SEE ARCHITECTURAL ELEVATIONS.
2. FRONT COUNTER REGISTER DATA OUTLETS MOUNTED ON INSIDE OF MILLWORK. PROVIDE 1" CONDUIT WITH PULL STRING FOR POS DATA BOXES.
3. PROVIDE JUNCTION BOX WITH 1" CONDUIT WITH PULL STRING THROUGH CURB TO 2" BELOW PAVEMENT LINE FOR CAR SENSOR DETECTOR LOOP. COORDINATE WITH CIVIL PLANS AND COORDINATE INSTALLATION IN FIELD WITH SUPPLIER.
4. PROVIDE 3/4" X 18" X 24" W PLYWOOD TELEPHONE BOARD PAINTED WITH 2 COATS OF "LISTED" FIRE RETARDANT LIGHT GRAY COLOR PAINT.

REGISTER CONNECTION NOTES

A. CABLES SHALL BE CAT6.

B. BUMP BARS SHALL BE MOUNTED TO DELIVER SYSTEM AT AREAS MARKED "BB".

C. BUMP BAR CABLES SHALL BE RUN THROUGH DELIVERY SYSTEM FROM MOUNT UP THROUGH WALLS TO ABOVE THE CEILING AND BACK TO THE MANAGER STATION.

D. CRT MONITORS SHALL BE MOUNTED ON CEILING BRACKETS PROVIDED BY REGISTER SYSTEM.

E. WHERE CABLING IS INSTALLED IN WALLS, IT SHALL BE ROUTED IN 1" CONDUIT THROUGH THE WALL TO ABOVE ACCESSIBLE CEILING.

POS LEGEND

— — — — —	BUMP BAR WIRING
—— · ——	VIDEO MONITOR AND POS WIRING
————	SECURITY WIRING (CAT6)
▭	BB – BUMP BARS
	V1 = VIDEO 1 V2 = VIDEO 2 V3 = VIDEO 3 V4 = VIDEO 4 V5 = VIDEO 5
▭	POS – POINT OF SALE TERMINAL
	MONITOR
WAP	WIRELESS APPLICATION PROTOCOL

NOTES TO ARCHITECT:
- ENGINEER NEEDS LOCATIONS FOR ALL SPEAKERS

SYMBOLS LEGEND NOTES:
MOUNTING HEIGHTS INDICATED ARE MEASURED FROM FINISHED FLOOR TO THE CENTERLINE OF THE DEVICE UNLESS NOTED OTHERWISE.

POPEYES RADIO SYSTEM
PROVIDED BY OWNER

DESCRIPTION	MAKE	MODEL	QUANTITY
RECESSED SPEAKERS*(DINING)	BOSE	MODEL #16, BLACK	4
RECESSED SPEAKERS*(KITCHEN)	MUZAK	MBS 8–ST3, BLACK	2
OUTDOOR BOX SPEAKERS*	OWI	701	4
AMPLIFIER	PASO	MU 3130 BGM	1
SPEAKER SUPPORT	QUAM	SSB–2	2
SPEAKER BACKCAN	QUAM	ERD–8	2
CABLE, CONNECTORS, HARDWARE AND SHELF	VARIOUS	VARIOUS	1
AREA VOLUME CONTROL	QUAM	QC–10	3
RECEIVER	ECOHO STAR	3000	1
DISH	CH MASTER	1.0 ANTENNA	1

* NUMBER OF SPEAKERS MAY VARY DUE TO DESIGN CONSIDERATIONS
* * LABOR INCLUDES INSTALLATION OF 150' OF 12 GAUGE SPEAKER WIRE.
SEE THE NATIONAL ACCOUNT VENDOR LIST FOR EQUIPMENT SUPPLIER.

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description
1	8/01/2023	RESPONSE TO CITY

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

N
PROJECT NORTH

NORTH CAROLINA PROFESSIONAL SEAL 41082 ENGINEER AFSAR HASAN
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8.2.2023

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10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensiongrp.com

Project
LOUISIANA 19 72 KITCHEN
POPEYES

Store Type: US 2112 PROTOTYPE 2112-21

Location: 1517 NC 24-87 CAMERON, NC

Drawing Title: ELECTRICAL POS PLAN

Drawn: JP	Checked: AH
Scale: 1/4" = 1'-0"	Date: JUNE 2023
Project No.: C22-129	Drawing No.: E1.4

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87. CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129

KITCHEN EQUIPMENT SCHEDULE

EQUIPMENT MARK	ITEM DESCRIPTION	VOLTAGE-PHASE	MOCP	FEEDER: CONDUCTOR & GROUND	FEEDER: PIPE	FEEDER: MATERIAL	CONNECTION: TYPE	CONNECTION: AMPERAGE	CONNECTION: POLES	CONNECTION: FUSES	CONNECTION: NEMA	HEIGHT	REMARKS
A10.30	MULTIPLE LE FRYER SYSTEM, ELECTRIC	120V-3P	70A	1 SET(6)#6,#10G	1"	COPPER	RECEPTACLE	56A	3		5-15	18"	Amperage per vat. Needs power for controls
A24.U2	MULTIPLE LE FRYER SYSTEM, ELECTRIC	208V-3P	60A	1 SET(4)#10,#8G	3/4"	COPPER	RECEPTACLE	47A	3		5-15	18"	Amperage per vat. Needs power for controls
A31.00	MARINATOR	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	18"	
A47.10	BATTER CART	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	18"	
A47.20	BATTER CART	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
A47.30	BATTER CART	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	18"	
A49.00	DRUMROLL	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
A54.00	REACH-IN-FREEZER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	78"	
AB54.00	REACH-IN-FREEZER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
B10.00	CONVECTION OVEN	120/208-3P	40A	1 SET(4)#8,#10G	3/4"	COPPER	HARDWIRE	24A	2			22"-47"	
B20.00	COUNTERTOP MIXER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
B60.00	REACH-IN-REFRIGERATOR	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	78"	
B65.00	BISCUIT HOLDING UNIT	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
C20.00	TOASTER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	42"	
C40.00	PRODUCT HOLDING BIN	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
C41.00	PRODUCT HOLDING BIN	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20	64"	
D20.00	MICROWAVE OVEN	208V-1P		1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		6-15	40"-52"	
D29.00	DIPPER WELL	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
D20.10	UTENSIL HOLDER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1				
D29.30	HOT WELLS	208V-1P	20A	1 SET(3)#12,#12G	1/2"	COPPER	RECEPTACLE	5A	2				
D29.80	HOT WELLS	208V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE		1				PROVIDE FOR (2) HOT WELLS
D50.00	ELECTRIC BOOSTER HEATER	208V-3P	30A	1 SET(3)#10,#10G	1/2"	COPPER	HARDWIRE		3				
D70.00	HOT WATER DISPENSER	208V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE		2			48"	
D81.00	RETHERMALIZER, WATER TANK, ELECTRIC	208V-1P	60A	1 SET(2)#6,#10G	3/4"	COPPER	HARDWIRE		2			17"	
D90.00	COOK & HOLD OVEN	120V-1P	20A	1 SET(2)#10,#10G	1/2"	COPPER	RECEPTACLE	19A	1		6-30	69"	
D92.00	SIDE HOLDING BINS	208V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	2		6-15	LOADCNTR	INCLUDED IN #H10
D92.00DM	HOT HOLDING CABINET	208V-1P	30A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	30A	2		6-30		
D93.10	HOLDING BIN	208V-1P	35A	1 SET(2)#8,#10G	1/2"	COPPER	HARDWIRE						
D94.00DM	HOT HOLDING CABINET	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20		
D94.00PC	PROTEIN HOLDING BIN	208V-1P	30A	1 SET(2)#10,#10G	1/2"	COPPER	RECEPTACLE	30A	2		6-30		
D94.10PC	BISCUIT HOLDING UNIT	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
E10.00	WALK-IN COOLER/FREEZER	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE		1				SEE SPECS
E71.00	EVEN-THAW REFRIGERATOR	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	84"	
E71.20	THAWING CABINET	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20		
F15.10	FAB ELECTRICAL	208V-1P	15A	1 SET(2)#12,#12G	1-1/4"	COPPER	HARDWIRE		2				SEE SPECS
GR10.00	CONTACT GRILL	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20		
H10.00	FAB ELECTRICAL	120/208V-3P	15A	1 SET(4),#4,#8G	1/2"	COPPER	HARDWIRE		3				LOAD CENTER
H90.00	HOLDING CABINET	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20		
J40.00	UNDERCOUNTER REFRIGETATOR	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	12"	
K10.00	ICE MAKER, CUBE-STYTLE	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15	68"	
K30.00	DRINK MACHINE	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE		1			50"	
K11.00	ICE MAKER, CUBE-STYLE	208V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	HARDWIRE		2			66"	
K30.00	DRINK MACHINE	120V-1P	15A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	15A	1		5-15		
K42.00	BAG N BOX	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	1		5-15		
K40.00	OIL MANAGEMENT SYSTEM	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20		
K71.00	TEA BREWER	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	RECEPTACLE	20A	1		5-20		

NOTES 1. VERIFY ALL ELECTRICAL CONNECTIONS PRIOR TO ROUGH-IN.

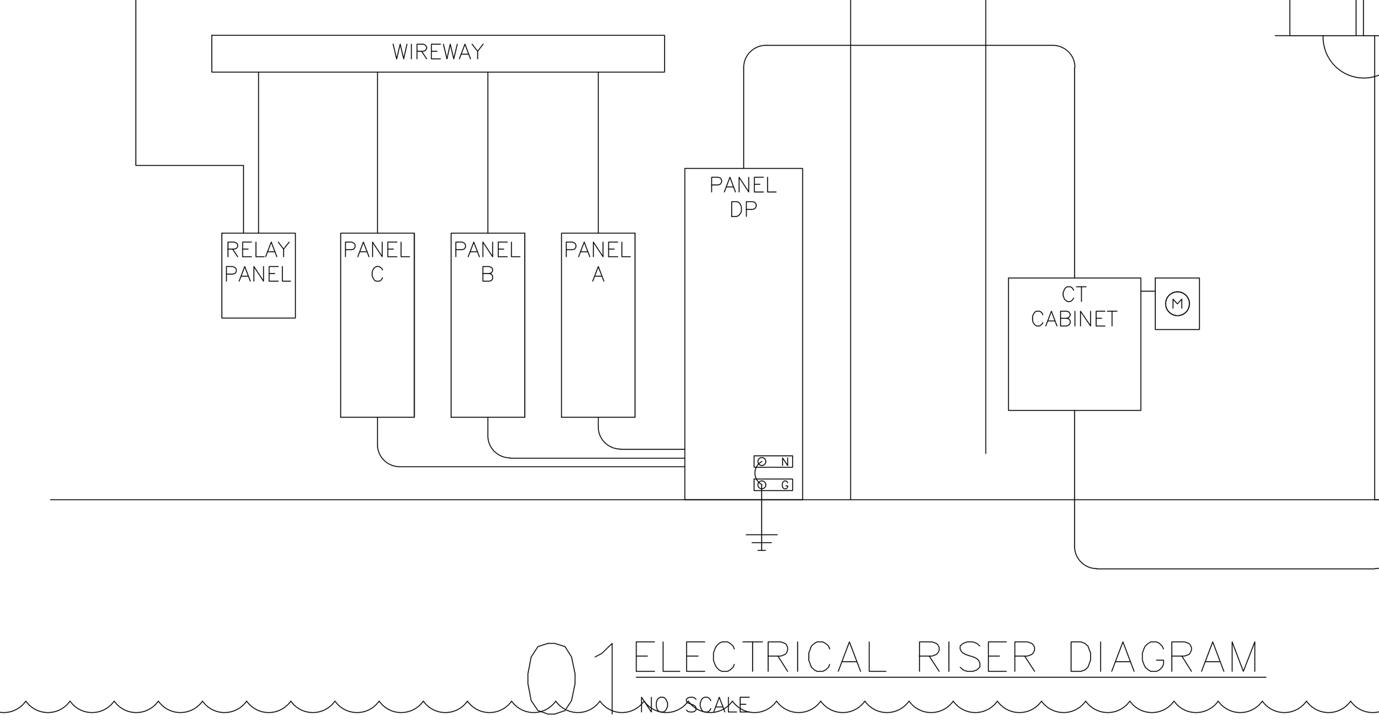
EQUIPMENT FEEDER SCHEDULE

EQUIPMENT MARK	VOLTAGE-PHASE	MOCP	FEEDER: CONDUCTOR & GROUND	FEEDER: PIPE	FEEDER: MATERIAL	CONNECTION: TYPE	CONNECTION: AMPERAGE	CONNECTION: POLES	CONNECTION: FUSE	CONNECTION: NEMA	REMARKS
RTU-1	208V-3P	90A	1 SET(3)#3, #8G	1-1/4"	COPPER	INTEGRAL DISCONNECT			NF		
RTU-2	208V-3P	175A	I SET(4)#2/0,#6G	2"	COPPER	INTEGRAL DISCONNECT			NF		
EF-1	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	PROVIDE DISCONNECT	20A	1	NF	3R	1
EF-2	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	PROVIDE DISCONNECT	20A	1	NF	3R	
EF-3	120V-1P	20A	1 SET(2)#12,#12G	1/2"	COPPER	PROVIDE DISCONNECT	20A	1		3R	
ICE CONDENSER	208V-3P	20A	1 SET(3)#12,#12G	3/4"	COPPER	PROVIDE DISCONNECT	20A	3		3R	
ICE CONDENSER	208V-3P	20A	1 SET(3)#12,#12G	3/4"	COPPER	PROVIDE DISCONNECT	20A	3		3R	
ICE CONDENSER	208V-3P	20A	1 SET(2)#12,#12G	3/4"	COPPER	PROVIDE DISCONNECT	20A	3		3R	
COOLER CONDENSER	208V-3P	20A	1 SET(3)#12,#12G	3/4"	COPPER	PROVIDE DISCONNECT	20A	3		3R	
FREEZER CONDENSER	208V-3P	30A	1 SET(3)#12,#12G	3/4"	COPPER	PROVIDE DISCONNECT	30A	3		3R	

NOTES:
1 CIRCUIT THROUGH RELAY PANEL FOR CONTROL. SEE SCHEDULE FOR ADDITIONAL INFORMATION

FEEDER SCHEDULE

EQUIPMENT MARK	VOLTAGE-PHASE	MOCP	FEEDER: CONDUCTOR & GROUND	FEEDER: PIPE	FEEDER: MATERIAL	REMARKS	FAULT CURRENT	VOLTAGE DROP
UTILITY	500KVA 120/208V-3P INFINITE						111935	
DP	120/208V-3P	1000A	4 SETS(4)#250	3"	COPPER		36392	
A	120/208V-3P	225A	4 #4/0 & 1#4G	2-1/2"	COPPER		30819	0.10%
B	120/208V-3P	400A	2 SETS(4)#3/0 & 1#3G	2-1/2"	COPPER		33616	0.10%
C	120/208V-3P	225A	4 #4/0 & 1#4G	2-1/2"	COPPER		29805	0.10%



01 ELECTRICAL RISER DIAGRAM
NO SCALE

PANELBOARD: C
PANEL TYPE : NQ
LOCATION: B.O.H.

MAIN SIZE: 225 A | MAIN TYPE: MLO | BUS TYPE: COPPER | VOLTS: 120/208 | PHASE/WIRE: 3/4 | MOUNTING: SURFACE | PANEL IC RATING: 42,000 AIC

LOAD CLS	CKT	DESIGNATION	WIRE SIZE	LOAD VA	PL	AMPS	PHASE A	PHASE B	PHASE C	AMPS	PL	LOAD VA	WIRE SIZE	DESIGNATION	CKT	LOAD CLS
	1	SPARE			1	20	1144			15	2	1144	2 #12,1#12G,3/4"C	K11.00 - ICE MAKER **	2	O
O	3	A10.30 - FRYER CONTROLS	2 #12,1#12G,3/4"C	1020	1	20		2164		-	-	1144	-		4	O
K	5	D29.10 - UTENSIL HOLDER **	2 #12,1#12G,3/4"C	100	1	15			2392	20	1	2292	2 #12,1#12G,3/4"C	D90.00 - COOK & HOLD OVEN **	6	K
K	7	C20.00 - TOASTER **	2 #12,1#12G,3/4"C	1800	1	20	1800			20	1			SPARE	8	
K	9	C20.00 - TOASTER **	2 #12,1#12G,3/4"C	1800	1	20		3360		20	2	1560	2 #12,1#12G,3/4"C	D70.00 HOT WATER DISPENSER **	10	K
K	11	J40.00 - U/C FRIDGE **	2 #12,1#12G,3/4"C	300	1	15			1860	-	-	1560	-	-	12	K
K	13	C40.00 HOLDING BIN **	2 #12,1#12G,3/4"C	1386	1	15	2946			20	2	1560	2 #12,1#12G,3/4"C	D70.00 HOT WATER DISPENSER **	14	K
K	15	C41.00 HOLDING BIN **	2 #12,1#12G,3/4"C	1000	1	20		2560		-	-	1560	-	-	16	K
	17	SPARE			1	20			1414	20	2	1414	2 #12,1#12G,3/4"C	D20.00 MICROWAVE OVEN **	18	K
	19	SPARE			1	20	1414			-	-	1414	-	-	20	K
K	21	D92.00 - SIDE HOLDING BINS **	2 #12,1#12G,3/4"C	1670	2	20		3084		20	2	1414	2 #12,1#12G,3/4"C	D20.00 MICROWAVE OVEN **	22	K
K	23	-	-	1670	-	-			3084	-	-	1414	-	-	24	K
O	25	J40.00 - U/C FRIDGE **	2 #12,1#12G,3/4"C	300	1	15	7024			70	3	6724	3 #4,1#8G.1 1/4"C	A10.30 - FRYER (ELECTRIC) **	26	K
K	27	D94.10 - BISCUIT HOLDING UNIT **	2 #12,1#12G,3/4"C	1380	1	15		8104		--	--	6724	--	--	28	K
K	29	A49.00 DRUMROLL	2 #12,1#12G,3/4"C	1800	1	20			8524	--	--	6724	--	--	30	K
O	31	ICE MACHINE CONDENSER	3 #12,1#12G,3/4"C	458	3	15	1478			20	1	1020		A10.30 - FRYER CONTROLS	32	O
O	33	--	-- --	458	-	-		1178		15	1	720	2 #12,1#12G,3/4"C	B60.00 REACH-IN FRIDGE **	34	O
O	35	--	-- --	458	-	-			1458	15	1	1000	2 #12,1#12G,3/4"C	B65.00 BISQUIT HOLDING UNIT **	36	K
K	37	A10.30 - FRYER (ELECTRIC) **	3 #4,1#8G.1 1/4"C	6724	3	70	6904			20	1	180	2 #12,1#12G,3/4"C	K40.00 - OIL MGMT SYSTEM	38	O
K	39	--		6724	--	--		7084		20	1	360	2 #12,1#12G,3/4"C	Q12	40	R
K	41	--		6724	--	--			7224	20	1	500	2 #12,1#12G,3/4"C	HOOD CONTROLS	42	O
				35772			22710	27534	25956			40428				

LOAD SUMMARY

NEC CODE REFERENCE	LOAD ID	LOAD CATEGORY	CON LOAD TOT KVA	DEMAND FACTOR	DEMAND LOAD(KVA) PER PHASE: PHASE A	PHASE B	PHASE C	BALANCED 3P LOAD: KVA	AMP
220.12/220.42/220.43/220.14(F)	L	LIGHTING	0.00	1.00	0.00	0.00	0.00	0.00	0.00
220.14(I)(H), 220.44	R	RECEPTACLE:	0.36	1	0.00	0.36	0.00	0.36	1.00
220.14(C)/430.24	M	MOTORS:	0.00	1.00	0.00	0.00	0.00	0.00	0.00
220.56	K	KITCHEN EQUIPMENT:	68.44	0.65	12.75	15.49	16.25	44.48	123.48
220.60/440.6/440.7	A	AIR CONDITION:	0.00	1.00	0.00	0.00	0.00	0.00	0.00
220.51/220.60	H	HEAT (ELECTRIC):	0.00	1.00	0.00	0.00	0.00	0.00	0.00
220.14(A)	O	OTHER LOAD:	7.40	1.00	3.10	3.34	0.96	7.40	20.55
		SUB TOTAL	76.20		15.85	19.19	17.21	52.25	145.02
		SPARE		10%	1.58	1.92	1.72	5.22	14.50
210.20(A)/215.2(A)(1)/230.42(A)			0.00		0.00	0.00	0.00	0.00	0.00
220.14(C)/430.24			0.00		0.00	0.00	0.00	0.00	0.00
		TOTAL:			17.43	21.11	18.93	57.47	159.52

MARK	REMARKS
*	PROVIDE HACR BREAKER
**	GROUND
^	CONNECTED TO FIRE SUPPRESSION SYSTEM
#	IG GROUND/GFCI BREAKER
***	VIA LIGHTING CONTROL PANEL

PHASE DEMAND LOAD	KVA	AMPS	% UNBALANCE
PH A	17.43	145	0.09
PH B	21.11	176	0.1
PH C	18.93	158	0.01

PROVIDE: GROUND BUS
ISOLATED GROUND BUS
100% NEUTRAL BUS

C:\\Users\\nimani\\Documents\\DG\\2023\\Popeye's\\C22-129- Cameron, NC (1517 NC 24-87)\\06 MEP\\Current CD's\\Panels\\[PANEL. - popeye'S 2124 PROTO.xlsx]PANEL C Wed Aug 2, 2023 18:24 71

PANELBOARD: DP
PANEL TYPE : I-LINE
LOCATION: B.O.H.

MAIN SIZE: 1000 A | MAIN TYPE: MCB | BUS TYPE: COPPER | VOLTS: 120/208 | PHASE/WIRE: 3/4 | MOUNTING: SURFACE | PANEL IC RATING: 42,000 AIC

LOAD CLS	CKT	DESIGNATION	WIRE SIZE	LOAD VA	PL	AMPS	PHASE A	PHASE B	PHASE C	AMPS	PL	LOAD VA	WIRE SIZE	DESIGNATION	CKT	LOAD CLS
K	1	B10.00 - CONVECTION OVEN	3 #8,1#10G,3/4"C	2880	3	40	3500			20	3	620	3 #12,1#12G,3/4"C	WALK IN COOLER	2	O
K	3	--	--	1440	--	--		2060		--	--	620	--	--	4	O
K	5	--	--	1800	--	--			2420	--	--	620	--	--	6	O
K	7	B10.00 - CONVECTION OVEN	3 #8,1#10G,3/4"C	2880	3	40	3040			20	3	160	3 #12,1#12G,3/4"C	COOLER CONDENSER	8	O
K	9	--	--	1440	--	--		1600		--	--	160	--	--	10	O
K	11	--	--	1800	--	--			1960	--	--	160	--	--	12	O
K	13	B81.00 - RETHERMALIZER	3 #6,1#10G,1"C	4950	3	60	5600			30	3	650	3 #10,1#10G,3/4"C	WALK IN FREEZER	14	O
K	15	--		4950	--	--		5600		--	--	650	--	--	16	O
	17	SPARE			1	20			650	--	--	650	--	--	18	O
	19	SPARE			1	20	530			20	3	530	3 #12,1#12G,3/4"C	FREEZER CONDENSER	20	O
	21	SPARE			1	20		530		--	--	530	--	--	22	O
	23	SPARE			1	20			530	--	--	530	--	--	24	O
	25	SPARE			3	20	15479.87			225	3	15480	3 #4/0,1#4G,2-1/2"C	PANEL A	26	X
	27	SPARE			--	--		12741.97		--	--	12742	--	--	28	X
	29	SPARE			--	--			12501.2	--	--	12501	--	--	30	X
A	31	RTU-1	3 #3,1#8G,1 1/4"C	9967	3	90	45412.94			400	3	35446	3 (2) #3/0,1#3G,2-1/2"C	PANEL B	32	X
A	33	-	-	9967	--	--		45500.99		--	--	35534	--	--	34	X
A	35	-	-	9967	--	--			43851.4	--	--	33884	--	--	36	X
A	37	RTU-2	3 #3/0,1#6G,2"C	21771	3	200	39202.92			225	3	17432	3 #4/0,1#4G,2-1/2"C	PANEL C	38	X
A	39	-	-	21771	--	--		42883.08		--	--	21112	--	--	40	X
A	41	-	-	21771	--	--			40698.4	--	--	18927	--	--	42	X
				117354			112765.7	110916	102611			208938.7				

LOAD SUMMARY

NEC CODE REFERENCE	LOAD ID	LOAD CATEGORY	CON LOAD TOT KVA	DEMAND FACTOR	DEMAND LOAD(KVA) PER PHASE: PHASE A	PHASE B	PHASE C	BALANCED 3P LOAD: KVA	AMP
220.12/220.42/220.43/220.14(F)	L	LIGHTING	8.74	1.00	4.35	2.00	2.39	8.74	24.26
220.14(I)(H), 220.44	R	RECEPTACLE:	9.24	1	1.94	3.20	4.10	9.24	25.65
220.14(C)/430.24	M	MOTORS:	1.74	1.00	0.50	0.37	0.87	1.74	4.84
220.56	K	KITCHEN EQUIPMENT:	222.40	0.65	49.13	49.74	45.68	144.56	401.25
220.60/440.6/440.7	A	AIR CONDITION:	95.21	1.00	31.74	31.74	31.74	95.21	264.29
220.51/220.60	H	HEAT (ELECTRIC):	0.00	1.00	0.00	0.00	0.00	0.00	0.00
220.14(A)	O	OTHER LOAD:	37.81	1.00	13.89	14.10	9.82	37.81	104.95
		SUB TOTAL	375.14		101.55	101.15	94.61	297.30	825.24
		SPARE		10%	10.15	10.11	9.46	29.73	82.52
210.20(A)/215.2(A)(1)/230.42(A)		CONTINUOUS (ADD 25%):	8.74	0.25	1.09	0.50	0.60	2.19	6.06
220.14(C)/430.24		LARGEST MOTOR (ADD 25%):	0.00		0.00	0.00	0.00	0.00	0.00
		TOTAL:			112.79	111.76	104.66	329.22	913.82

MARK	REMARKS
*	PROVIDE HACR BREAKER
**	SHUNT TRIP BREAKER
^	CONNECTED TO FIRE SUPPRESSION SYSTEM
#	IG GROUND/GFCI BREAKER
***	VIA LIGHTING CONTROL PANEL

PHASE DEMAND LOAD	KVA	AMPS	% UNBALANCE
PH A	112.79	940	0.02
PH B	111.76	931	0.01
PH C	104.66	872	0.04

PROVIDE: GROUND BUS
ISOLATED GROUND BUS
100% NEUTRAL BUS

C:\\Users\\nimani\\Documents\\DG\\2023\\Popeye's\\C22-129- Cameron, NC (1517 NC 24-87)\\06 MEP\\Current CD's\\Panels\\[PANEL. - popeye'S 2124 PROTO.xlsx]DP Wed Aug 2, 2023 18:24 71

PANELBOARD: A
PANEL TYPE : NQ
LOCATION: B.O.H.

MAIN SIZE: 225 A | MAIN TYPE: MLO | BUS TYPE: COPPER | VOLTS: 120/208 | PHASE/WIRE: 3/4 | MOUNTING: RECESSED | PANEL IC RATING: 42,000

LOAD CLS	CKT	DESIGNATION	WIRE SIZE	LOAD VA	PL	AMPS	PHASE A	PHASE B	PHASE C	AMPS	PL	LOAD VA	WIRE SIZE	DESIGNATION	CKT	LOAD CLS
L	1	KITCHEN LTG / RECIRC PUMP	2 #12,1#12G,3/4"C	1092	1	20	1917			20	1	825	2 #12,1#12G,3/4"C	SITE LIGHTING	2	L
L	3	SERVICE AREA LTG	2 #12,1#12G,3/4"C	150	1	20		650		20	1	500	2 #12,1#12G,3/4"C	MONUMENT SIGN	4	L
L	5	DINING LTG	2 #12,1#12G,3/4"C	216	1	20			716	20	2	500	2 #12,1#12G,3/4"C	HAND DRYER **	6	M
L	7	DINING ACCENT LTG	2 #12,1#12G,3/4"C	35	1	20	535			--	--	500		-	8	M
L	9	RESTROOM LTG & EF-3	2 #12,1#12G,3/4"C	148	1	20		1348		20	1	1200	2 #12,1#12G,3/4"C	DT MENUBOARD	10	O
L	11	EXTERIOR BLDG LTG	2 #12,1#12G,3/4"C	174	1	20			534	20	1	360	2 #12,1#12G,3/4"C	DT ORDER PEDESTAL	12	O
L	13	BUILDING SIGNAGE	2 #12,1#12G,3/4"C	1200	1	20	1560			20	1	360	2 #12,1#12G,3/4"C	DT UG DETECTOR	14	O
L	15	BUILDING SIGNAGE	2 #12,1#12G,3/4"C	1200	1	20		2400		20	1	1200	2 #12,1#12G,3/4"C	DT PRE ORDER MENUBOARD	16	O
L	17	BUILDING SIGNAGE	2 #12,1#12G,3/4"C	1200	1	20			2000	20	1	800	2 #12,1#12G,3/4"C	EXTERIOR BLDG LTG	18	L
L	19	BUILDING SIGNAGE	2 #12,1#12G,3/4"C	1200	1	20	2400			20	1	1200	2 #12,1#12G,3/4"C	DT MENUBOARD	20	O
	21	SPARE			1	20		360		20	1	360	2 #12,1#12G,3/4"C	DT ORDER PEDESTAL	22	O
R	23	EXTERIOR RECEPTACLES	2 #12,1#12G,3/4"C	540	1	20			1020	20	1	480	2 #12,1#12G,3/4"C	DT UG DETECTOR	24	O
R	25	RESTROOM RECEPTACLES	2 #12,1#12G,3/4"C	180	1	20	1380			20	1	1200	2 #12,1#12G,3/4"C	DT PRE ORDER MENUBOARD	26	O
R	27	DINING ROOM RECEPTACLES	2 #12,1#12G,3/4"C	1080	1	20		1080		20	1			SPARE	28	
R	29	MENUBOARDS **	2 #12,1#12G,3/4"C	500	1	20			1040	20	1	540	2 #12,1#12G,3/4"C	DINING ROOM RECEPTACLES	30	R
R	31	KITCHEN CONV. RECEPTACLES	2 #12,1#12G,3/4"C	540	1	20	540			20	1			SPARE	32	
R	33	KITCHEN CONV. RECEPTACLES	2 #12,1#12G,3/4"C	540	1	20		540		20	1			SPARE	34	
R	35	KITCHEN CONV. RECEPTACLES	2 #12,1#12G,3/4"C	540	1	20			4640	60	3	4100	3 #6,1#10G,1"C	WH-1	36	O
R	37	DT WINDOW **	2 #12,1#12G,3/4"C	500	1	20	4600			-	-	4100	-- --	-	38	O
R	39	DT WINDOW **	2 #12,1#12G,3/4"C	500	1	20		4600		--	--	4100	-- --	--	40	O
R	41	POS SYSTEM **	2 #12,1#12G,3/4"C	720	1	20			720	20	1			SPARE	42	
				12255			12932	10978	10670			22325				

LOAD SUMMARY TABLE

NEC CODE REFERENCE	LOAD ID	LOAD CATEGORY	CON LOAD TOT KVA	DEMAND FACTOR	DEMAND LOAD(KVA) PER PHASE: PHASE A	PHASE B	PHASE C	BALANCED 3P LOAD: KVA	AMP
220.12/220.42/220.43/220.14(F)	L	LIGHTING	8.74	1.00	4.35	2.00	2.39	8.74	24.26
220.14(I)(H), 220.44	R	RECEPTACLE:	6.18	1	1.22	2.12	2.84	6.18	17.15
220.14(C)/430.24	M	MOTORS:	1.00	1.00	0.50	0.00	0.50	1.00	2.78
220.56	K	KITCHEN EQUIPMENT:	0.00	0.65	0.00	0.00	0.00	0.00	0.00
220.60/440.6/440.7	A	AIR CONDITION:	0.00	1.00	0.00	0.00	0.00	0.00	0.00
220.51/220.60	H	HEAT (ELECTRIC):	0.00	1.00	0.00	0.00	0.00	0.00	0.00
220.14(A)	O	OTHER LOAD:	18.66	1.00	6.86	6.86	4.94	18.66	51.79
		SUB TOTAL	34.58		12.93	10.98	10.67	34.58	95.98
		SPARE		10%	1.29	1.10	1.07	3.46	9.60
210.20(A)/215.2(A)(1)/230.42(A)		CONTINUOUS (ADD 25%):	8.74	25%	1.09	0.50	0.60	2.19	6.06
220.14(C)/430.24		LARGEST MOTOR (ADD 25%):	0.50	25%	0.17	0.17	0.17	0.50	1.39
		TOTAL:			15.48	12.74	12.50	40.72	113.04

MARK	REMARKS
*	PROVIDE HACR BREAKER
**	GROUND
^	PROVIDE LOCK-OFF DECIE PER 422.31(B):
***	VIA LIGHTING CONTROL PANEL

PHASE DEMAND LOAD	KVA	AMPS	% UNBALANCE
PH A	15.48	129	0.14
PH B	12.74	106	0.06
PH C	12.50	104	0.07

PROVIDE: GROUND BUS
ISOLATED GROUND BUS
100% NEUTRAL BUS

C:\\Users\\nimani\\Documents\\DG\\2023\\Popeye's\\C22-129- Cameron, NC (1517 NC 24-87)\\06 MEP\\Current CD's\\Panels\\[PANEL. - popeye'S 2124 PROTO.xlsx]PANEL A Wed Aug 2, 2023 18:24 71

PANELBOARD: B
PANEL TYPE : NQ
LOCATION: B.O.H.

MAIN SIZE: 400 A | MAIN TYPE: MLO | BUS TYPE: COPPER | VOLTS: 120/208 | PHASE/WIRE: 3/4 | MOUNTING: SURFACE | PANEL IC RATING: 42,000 AIC

LOAD CLS	CKT	DESIGNATION	WIRE SIZE	LOAD VA	PL	AMPS	PHASE A	PHASE B	PHASE C	AMPS	PL	LOAD VA	WIRE SIZE	DESIGNATION	CKT	LOAD CLS
K	1	E71.20 - THAWING FRIDGE **	2 #12,1#12G,3/4"C	1920	1	20	2610			15	1	690	2 #12,1#12G,3/4"C	A54.00 - REACH IN FREEZER **	2	O
K	3	A31.00 - MARINATOR **	2 #12,1#12G,3/4"C	1073	1	20		7797		70	3	6724	3 #4,1#8G.1 1/4"C	A10.30 - FRYER (ELECTRIC) **	4	K
K	5	A10.30 - FRYER (ELECTRIC) **	3 #4,1#8G.1 1/4"C	6724	3	70			13448	--	--	6724	-- --	--	6	K
K	7	--	--	6724	--	--	13448			--	--	6724	-- --	--	8	K
K	9	--	--	6724	--	--		6908		20	1	184	2 #12,1#12G,3/4"C	A47.20 - BATTER CART **	10	K
K	11	A24.U2 - FRYER (ELECTRIC) **	3 #6,1#10G,1"C	5644	3	60			5828	15	1	184	2 #12,1#12G,3/4"C	A47.20 - BATTER CART **	12	K
K	13	--	--	5644	--	--	7084			15	1	1440	2 #12,1#12G,3/4"C	K30.00 - DRINK MACHINE **	14	K
K	15	--	--	5644	--	--		7344		20	1	1700	2 #12,1#12G,3/4"C	K71.00 - TEA BREWER **	16	K
K	17	A49.00 DRUMROLL **	2 #12,1#12G,3/4"C	192	1	20			882	20	1	690	2 #12,1#12G,3/4"C	A54.00 - REACH IN FREEZER **	18	O
K	19	A24.U2 - FRYER (ELECTRIC) **	3 #6,1#10G,1"C	5644	3	60	12368			70	3	6724	3 #4,1#8G.1 1/4"C	A10.30 - FRYER (ELECTRIC) **	20	K
K	21	--	--	5644	--	--		12368		--	--	6724		--	22	K
K	23	--	--	5644	--	--			12368	--	--	6724		--	24	K
	25	SPARE			1	20	360			15	1	360	2 #12,1#12G,3/4"C	K10.00 - ICE MAKER **	26	O
O	27	A24.U2 - FRYER CONTROL	2 #12,1#12G,3/4"C	1020	1	20		1380		20	1	360	2 #12,1#12G,3/4"C	K42.00 BAG-N-BOX RECEPTACLE **	28	R
R	29	MANAGERS DESK	2 #12,1#12G,3/4"C	720	1	20			1080	15	1	360	2 #12,1#12G,3/4"C	K10.00 ICE/BEVERAGE MACHINE **	30	O
R	31	MANAGERS DESK	2 #12,1#12G,3/4"C	360	1	20	818			15	3	458	3 #12,1#12G,3/4"C	ICE MACHINE CONDENSER	32	O
R	33	MANAGERS DESK	2 #12,1#12G,3/4"C	360	1	20		818		-	-	458	-	-	34	O
R	35	MANAGERS DESK	2 #12,1#12G,3/4"C	540	1	20			998	-	-	458	-	-	36	O
R	37	MANAGERS DESK	2 #12,1#12G,3/4"C	360	1	20	7084			70	3	6724	3 #4,1#8G.1 1/4"C	A10.30 - FRYER (ELECTRIC) **	38	K
M	39	EF-1	2 #12,1#12G,3/4"C	372	1	20		7096		--	--	6724		--	40	K
M	41	EF-2	2 #12,1#12G,3/4"C	372	1	20			7096	--	--	6724		--	42	K
K	43	D29.30 HOT FOOD WELL	2 #12,1#12G,3/4"C	603	2	20	3725			35	3	3122	3 #8,1#10G,3/4"C	D93.1 - HOLDING BIN **	44	K
K	45	--		603	--	--		3725		--	--	3122	--	--	46	K
	47	SPARE			1	20			3122	--	--	3122	--	--	48	K
	49	SPARE			1	20	458			15	3	458	3 #12,1#12G,3/4"C	ICE MACHINE CONDENSER	50	O
	51	SPARE			1	20		458		--	--	458		-	52	O
	53	SPARE			1	20			458	--	--	458		-	54	O
				62531			47955	47894	45280			78598				

LOAD SUMMARY

NEC CODE REFERENCE	LOAD ID	LOAD CATEGORY	CON LOAD TOT KVA	DEMAND FACTOR	DEMAND LOAD(KVA) PER PHASE: PHASE A	PHASE B	PHASE C	BALANCED 3P LOAD: KVA	AMP
220.12/220.42/220.43/220.14(F)	L	LIGHTING	0.00	1.00	0.00	0.00	0.00	0.00	0.00
220.14(I)(H), 220.44	R	RECEPTACLE:	2.70	1	0.72	0.72	1.26	2.70	7.49
220.14(C)/430.24	M	MOTORS:	0.74	1.00	0.00	0.37	0.37	0.74	2.07
220.56	K	KITCHEN EQUIPMENT:	131.82	0.65	29.42	29.16	27.09	85.68	237.83
220.60/440.6/440.7	A	AIR CONDITION:	0.00	1.00	0.00	0.00	0.00	0.00	0.00
220.51/220.60	H	HEAT (ELECTRIC):	0.00	1.00	0.00	0.00	0.00	0.00	0.00
220.14(A)	O	OTHER LOAD:	5.87	1.00	1.97	1.94	1.97	5.87	16.29
		SUB TOTAL	141.13		32.11	32.19	30.69	94.99	263.67
		SPARE		10%	3.21	3.22	3.07	9.50	26.37
210.20(A)/215.2(A)(1)/230.42(A)			0.00		0.00	0.00	0.00	0.00	0.00
220.14(C)/430.24		LARGEST MOTOR (ADD 25%):	0.37	25%	0.12	0.12	0.12	0.37	1.03
		TOTAL:			35.45	35.53	33.88	104.86	291.07

MARK	REMARKS
*	PROVIDE HACR BREAKER
**	GROUND
^	CONNECTED TO FIRE SUPPRESSION SYSTEM
#	IG GROUND/GFCI BREAKER
***	VIA LIGHTING CONTROL PANEL

PHASE DEMAND LOAD	KVA	AMPS	% UNBALANCE
PH A	35.45	295	0.01
PH B	35.53	296	0.01
PH C	33.88	282	0.03

PROVIDE: GROUND BUS
ISOLATED GROUND BUS
100% NEUTRAL BUS

C:\\Users\\nimani\\Documents\\DG\\2023\\Popeye's\\C22-129- Cameron, NC (1517 NC 24-87)\\06 MEP\\Current CD's\\Panels\\[PANEL. - popeye'S 2124 PROTO.xlsx]PANEL B Wed Aug 2, 2023 18:24 71

ISSUE TABLE

No.	Date (mm/dd/yy)	Description

REVISIONS

No.	Date	Description
1	8/01/2023	RESPONSE TO CITY

DRAWINGS REVISED AS PER DESIGN BULLETIN

No.	Date	Description

N
PROJECT NORTH

NORTH CAROLINA PROFESSIONAL SEAL 41082 ENGINEER AFSAR HASAN

8.2.2023

Company Logo

THE DIMENSION GROUP
ARCHITECTURE · CIVIL ENGINEERING · MEP ENGINEERING
10755 SANDHILL ROAD, DALLAS, TEXAS 75238
TEL: 214-343-9400 www.dimensiongrp.com

Project

LOUISIANA 19 72 KITCHEN
POPEYES

Store Type: US 2112 PROTOTYPE 2112-21

Location: 1517 NC 24-87 CAMERON, NC

Drawing Title: ELECTRICAL SCHEDULES

Drawn	Checked
JP	AH
Scale	**Date**
NOT TO SCALE	JUNE 2023
Project No.	**Drawing No.**
C22-129	E2.1

POPEYES LOUISIANA KITCHEN MODEL 2112, 1517 NC 24-87, CAMERON, NC (JUNE 01, 2023) STORE NO. C22-129