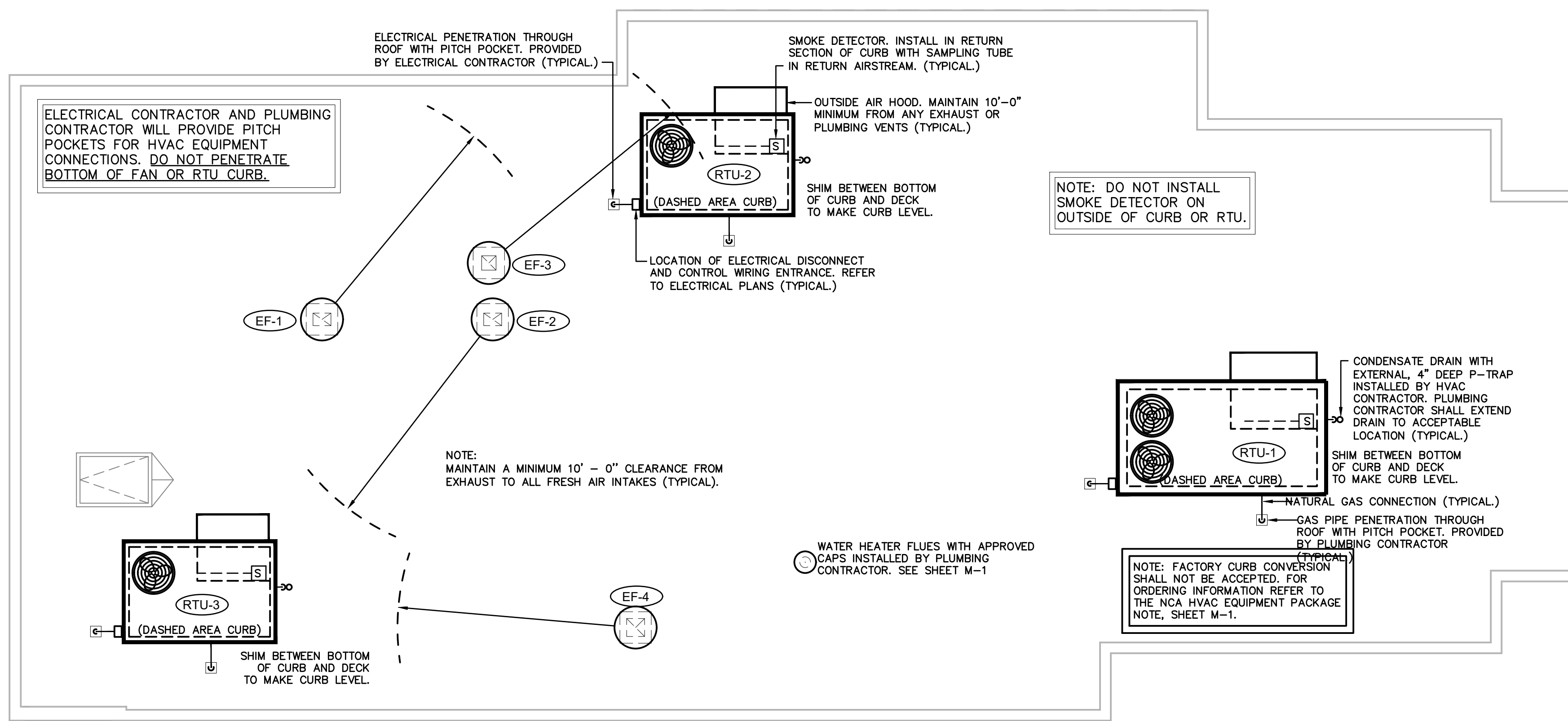






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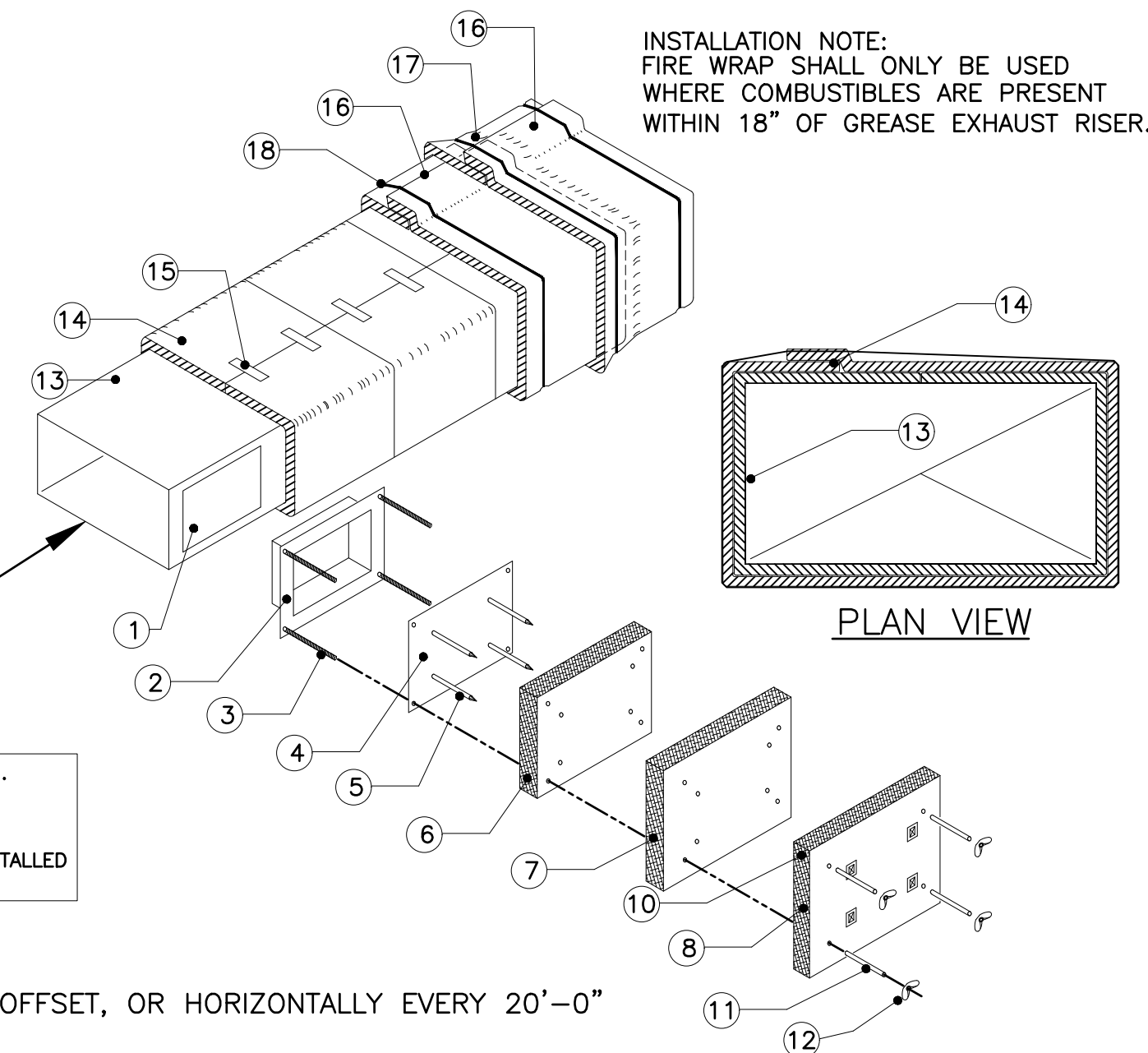
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DATE: Mar 08, 2023 11:50am  
XREFS: A\_NROOF\_02101872 A\_NTLB\_02101872



**ROOF PLAN - HVAC**  
SCALE 1/4" = 1' - 0" WHEN PLOTTED 36" X 24"

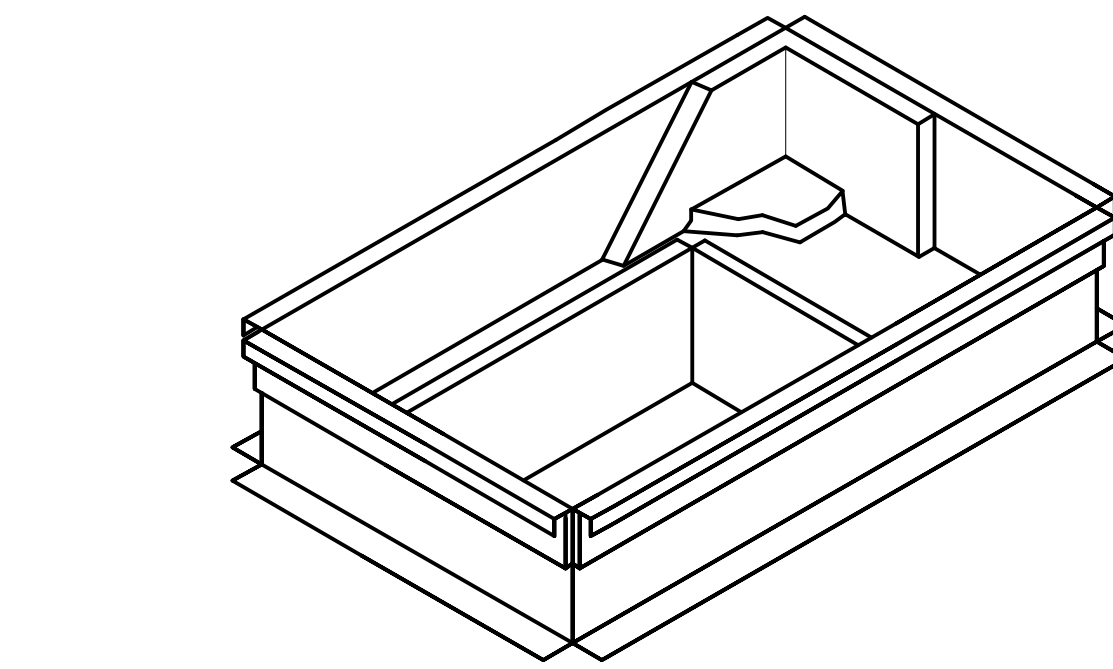
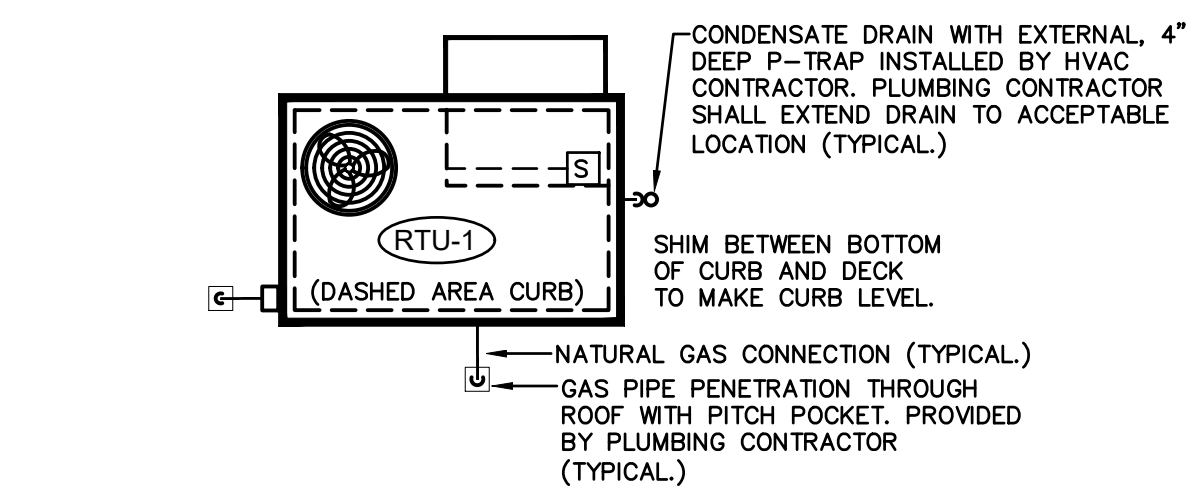
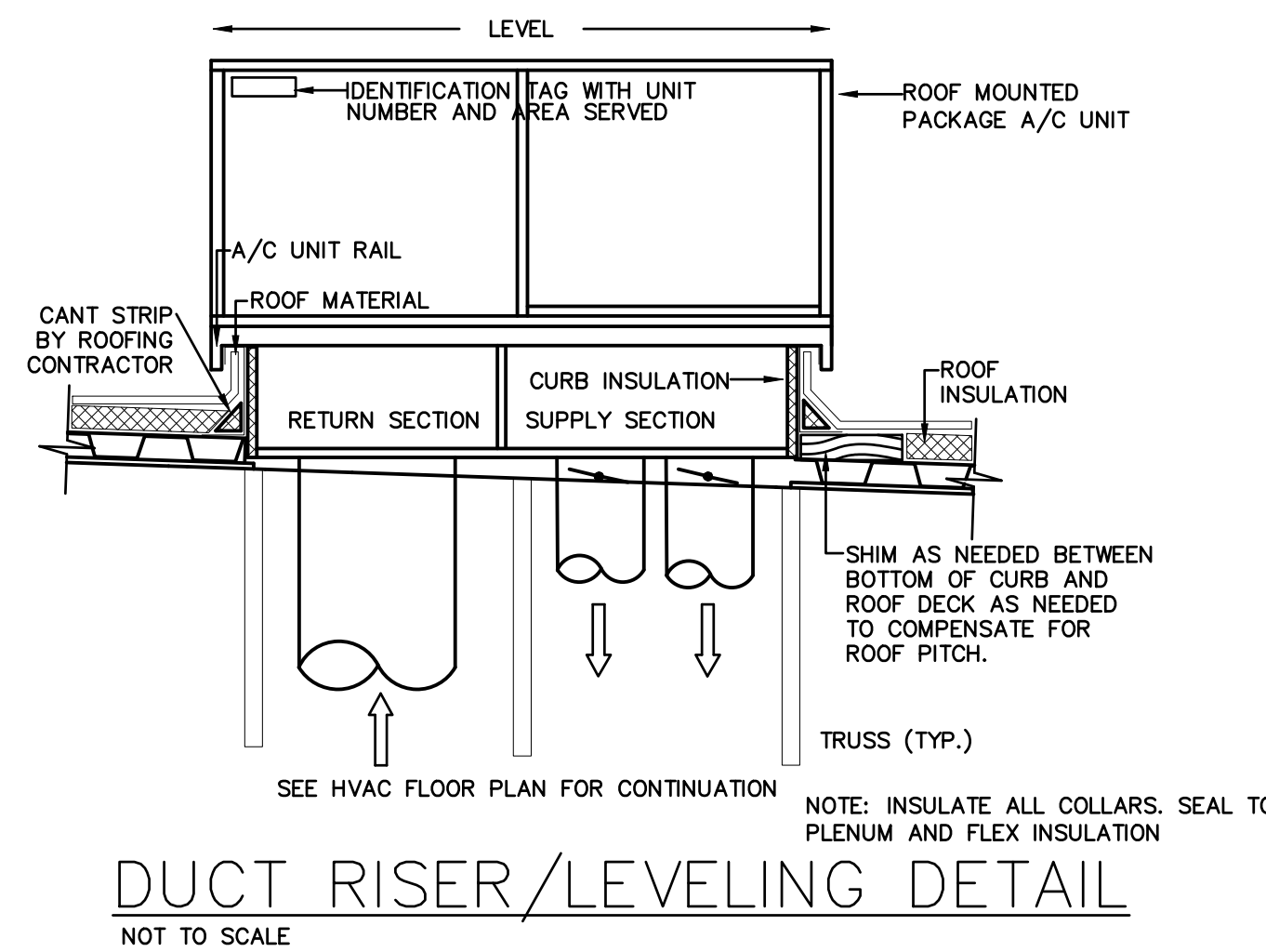
- NOTES:
- BANDING MATERIAL, 3/4" WIDE, MINIMUM 0.015" THICK, CARBON STEEL FOR CONSTRUCTION REQUIREMENTS OF ZERO CLEARANCE TO COMBUSTIBLES OR 1 HR. RATINGS. STAINLESS STEEL BANDING IS USED FOR 2 HR. REQUIREMENTS.
  - 3M FIRE BARRIER DUCT WRAP 615+, 1-1/2" THICK, 24" OR 48" WIDE, 300" STANDARD LENGTH (2 LAYERS) 6 LBS PER CUBIC FT TO BE UTILIZED.
  - HOLD INTERIOR WRAP OF INSULATION USING 1" WIDE FILAMENT TAPE (NO. 898) MANUFACTURED BY 3M COMPANY.
  - SEAL CUT EDGES OF BLANKET WITH ALUMINUM FOIL TAPE.

LEGEND	
1	DOOR HOLE
2	ACCESS FRAME WELDED TO DUCT
3	1/4" DIA. ALL THREAD RODS
4	ACCESS COVER; 16 GA
5	INSULATION PINS; WELDED
6	1 3M FIRE BARRIER 615 PLUS
7	1 3M FIRE BARRIER 615 PLUS 1" OVERLAP
8	1 3M FIRE BARRIER 615 PLUS 1" OVERLAP
9	SPEED CLIPS
10	ALUMINUM TAPE EDGES
11	SPOOL PIECES FOR THREADED RODS
12	1/4" DIA. WING NUTS
13	16 GA. SHEET METAL DUCT (FULLY WELDED WATER TIGHT)
14	1ST LAYER 3M FIRE BARRIER DUCT WRAP 615 PLUS LONGITUDINAL JOINT BUTT OR MIN. 3" OVERLAP ON INNER LAYER, MIN. 3" OVERLAP ON OUTER LAYER
15	3/4" (19mm) WIDE FILAMENT TAPE
16	2ND LAYER 3M FIRE BARRIER DUCT WRAP 615 PLUS OR APPROVED EQUIVALENT
17	3" MINIMUM PERIMETER OVERLAP - TYP.
18	STEEL BANDING 1/2" WIDE MIN. TYP. FOR PERMANENT FASTENING

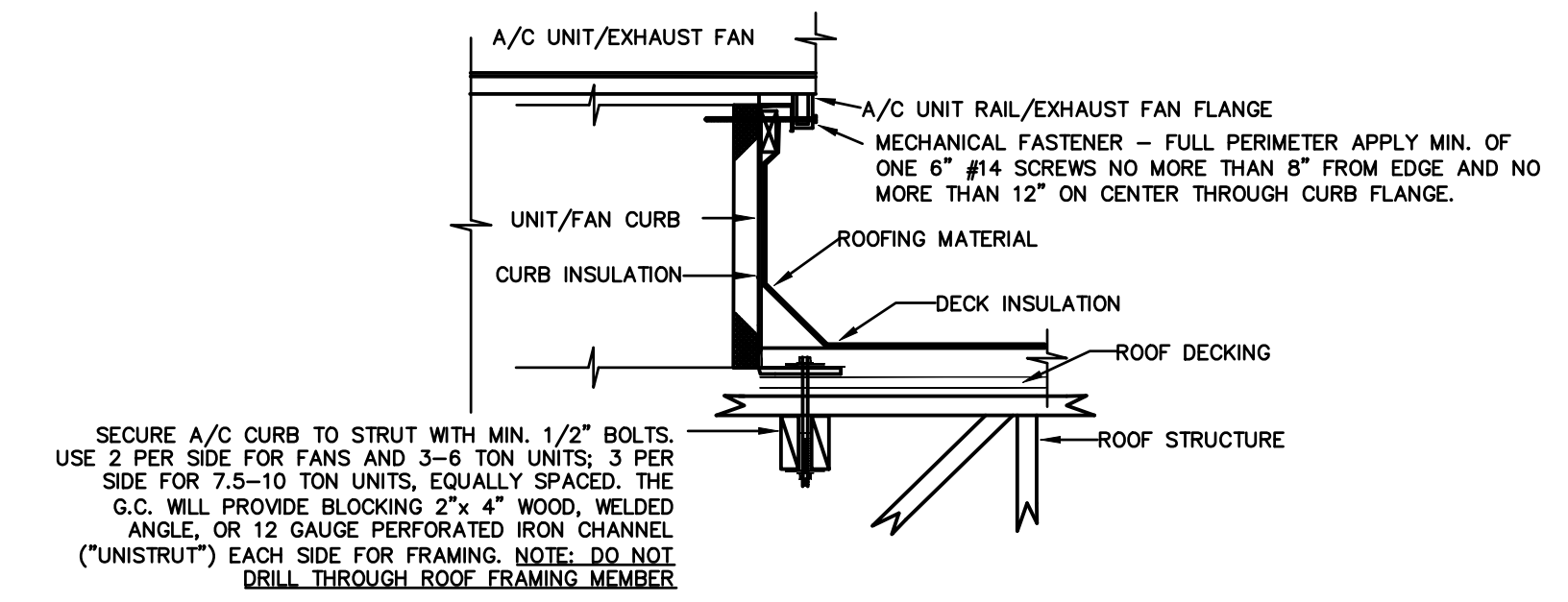


NOTE: ACCESS DOOR NOT REQUIRED UNLESS OFFSET, OR HORIZONTALLY EVERY 20'-0"

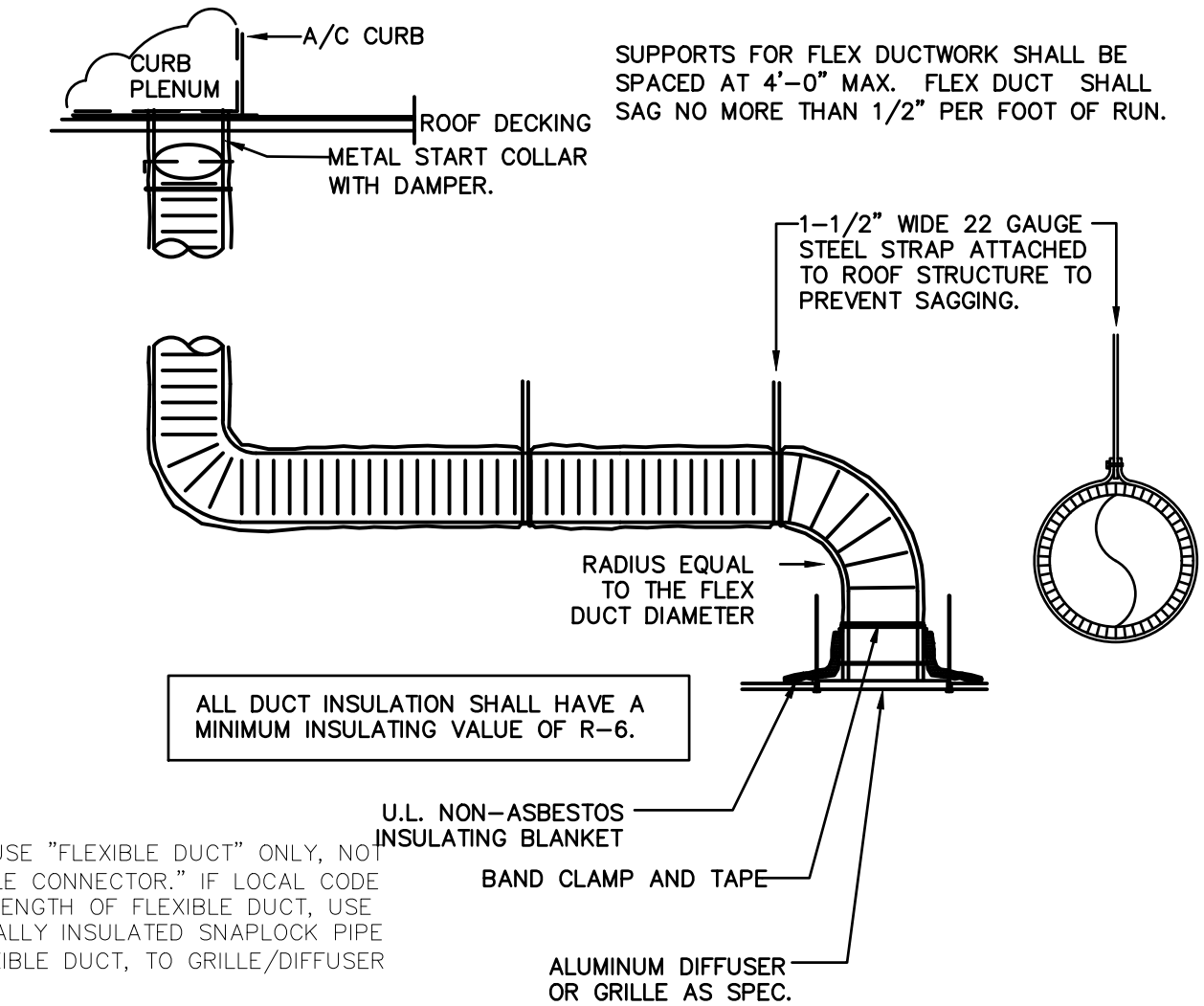
**1 HR. FIRE WRAP ( "0" CLEARANCE) TO COMUSTIBLES - INSTALLATION DETAIL**  
NOT TO SCALE



FACTORY CURB CONVERSION SHALL NOT BE ACCEPTED.  
**NCA PLENUMIZED AC CURB DETAIL**  
NOT TO SCALE



ACCEPTABLE FOR 140 MPH ZONE  
**ROOF EQUIP. CURB MOUNTING DETAIL**  
NOT TO SCALE



DUCT SCHEDULE	
SIZE	GAUGE
6" - 8"	28
10" - 12"	26
14" - 16"	24
18" - 20"	22

**RIGID/FLEXDUCT CONNECTION/INSTALL DETAIL**  
NOT TO SCALE



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REVISIONS

1 03.01.2023 REV. 01

**POPEYES**  
NEW CONSTRUCTION  
3430 NORTH 167TH STREET  
OMAHA, NE 68116



POPEYES

Project No. | 021-01872  
Issue Date | 12-16-2022

HVAC Roof  
Plan And  
Details

Sheet No.

M2



2111 South 67th Street, Suite 200  
Omaha, NE 68106  
Project #020-01872  
www.olsson.com  
TEL 402.341.1116

**HOOD INFORMATION - Job#2941439**

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S)				HOOD CONSTRUCTION	HOOD CONFIG.			
						WIDTH	LENG.	HEIGHT	DIA.		CFM	S.P.	END TO END	ROW
1	2812	BLL	11' 3.00"	600 Deg.	1901	7"	10"	4"		935	-0.429"	304 SS	ALONE	ALONE
						7"	10"	4"		935	-0.429"			

**HOOD INFORMATION**

HOOD NO.	TAG	FILTER(S)				LIGHT(S)			UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WGT	
		TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 9 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM			SIZE
1		SS Baffle with Handles	8	10"	16"	30%	0			Wall Mnt	12"x36"x24"	Ansul R102	3.0/3.0/3.0		206 LBS

**HOOD OPTIONS**

HOOD NO.	TAG	OPTION
1		BACKSPASH 112.00" High X 208.00" Long 304 SS Vertical
		OPTIONS ONLY: FIELD WRAPPER 22.50" High x 60.00" Long Left 304 SS
2		OPTIONS ONLY: FIELD WRAPPER 22.50" High x 60.00" Long Right 304 SS
		OPTIONS ONLY: FIELD WRAPPER 22.50" High x 60.00" Long Left 304 SS
		OPTIONS ONLY: FIELD WRAPPER 22.50" High x 60.00" Long Right 304 SS
		OPTIONS ONLY: FIELD WRAPPER 37.00" High x 60.00" Long Front 304 SS
		OPTIONS ONLY: FIELD WRAPPER 37.00" High x 60.00" Long Front 304 SS
		OPTIONS ONLY: WRAPPER CHANNEL - 19.00" Long
		OPTIONS ONLY: WRAPPER CHANNEL - 19.00" Long
		OPTIONS ONLY: WRAPPER CHANNEL - 19.00" Long
		OPTIONS ONLY: WRAPPER CHANNEL - 28.00" Long
		OPTIONS ONLY: WRAPPER CHANNEL - 28.00" Long

All enclosure panels 60" tall with vertical grain

**BLL Series Specification**

The BLL series hood is a low proximity passover type hood. Hood shall have size, shape and performance specified on drawings.

Construction shall be type 430 stainless steel with a #3 or #4 polish where exposed. All seams shall be welded and have stainless steel on exposed surfaces. Unexposed surfaces shall be constructed of aluminized steel. Individual component construction shall be determined by manufacturer and ETL. Construction shall be dependent on the structural application to minimize distortion and other defects. All seams, joints and penetrations of the hood enclosure to its lower outermost perimeter that directs and captures grease-laden vapor and exhaust gases shall have a liquid-tight continuous external weld in accordance with NFPA 96. Hood shall be wall type with provisions to screw to back wall.

Ventilator shall be furnished with UL classified aluminum baffle filters, supplied in size and quantity as required by ventilator. The filters shall extend the full length of the hood and the filter panels shall not be more than 6" in width.

The hood manufacturer shall supply complete computer generated submittal drawings including hood section view(s) and hood plan view(s). These drawings must be available to the engineer, architect and owner for their use in construction, operation and maintenance.

Exhaust duct collar to be 4" high with 1" flange. Duct sizes, CFM and static pressure requirements shall be as shown on drawings. Static pressure requirements shall be precise and accurate; air velocity and volume information shall be accurate within 1-ft increments along the length of the ventilator.

The hood shall have:  
 -A sloped grease drain system which shall be an enclosed integral part of the hood back with an exposed, removable 1/2 pint grease cup to facilitate cleaning.  
 -Low profile design to allow plate shelf and passover design.

The hood shall be ETL Listed as "Exhaust Hood Without Exhaust Damper", ETL Sanitation Listed and built in accordance with NFPA 96. The hood shall be listed for 400° F cooking surfaces at 110 CFM/ft.

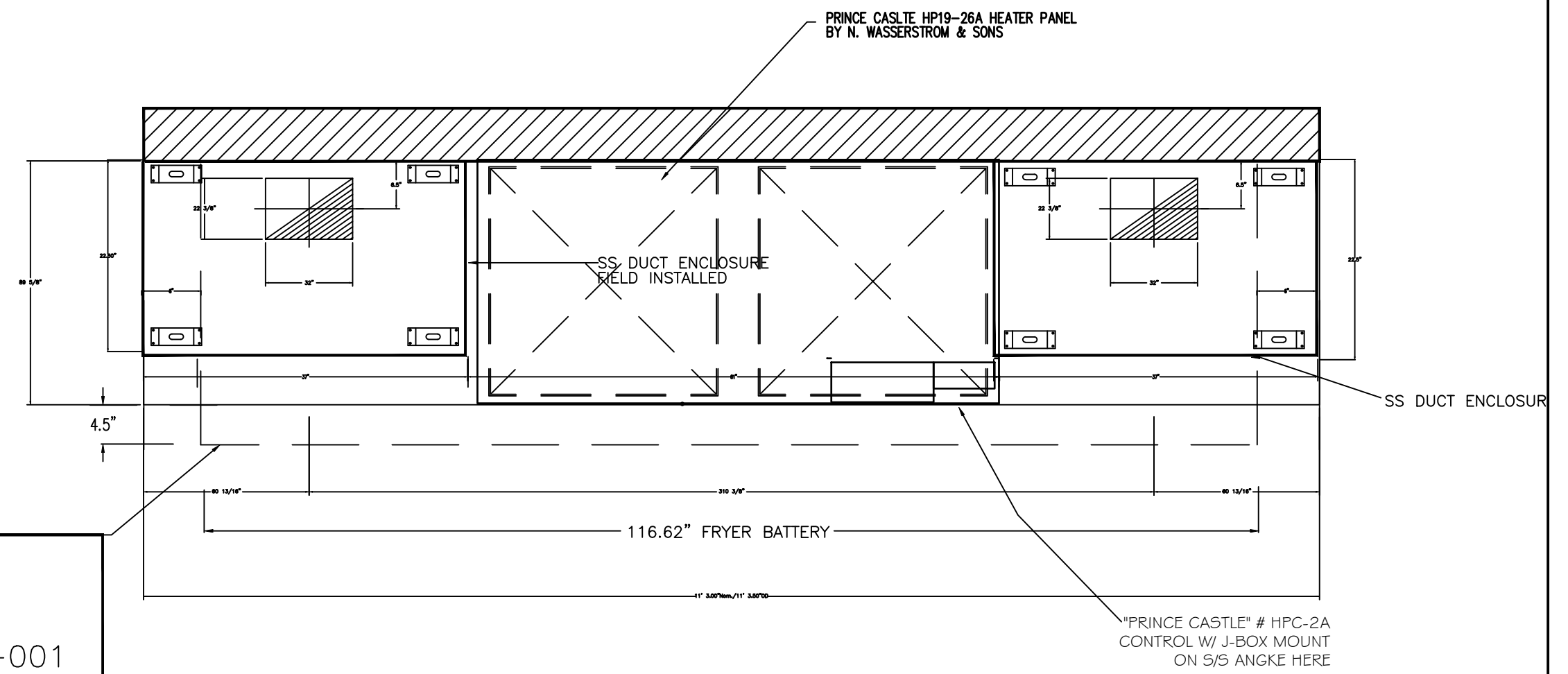
**System Design Verification (SDV)**

If ordered, CAS Service will perform a System Design Verification (SDV) once all equipment has had a complete start up per the Operation and Installation Manual. Typically, the SDV will be performed after all inspections are complete.

Any field related discrepancies that are discovered during the SDV will be brought to the attention of the general contractor and corresponding trades on site. These issues will be documented and forwarded to the appropriate sales office. If CAS Service has to resolve a discrepancy that is a field issue, the general contractor will be notified and billed for the work. Should a return trip be required due to any field related discrepancy that cannot be resolved during the SDV, there will be additional trip charges.

During the SDV, CAS Service will address any discrepancy that is the fault of the manufacturer. Should a return trip be required, the general contractor and appropriate sales office will be notified. There will be no additional charges for manufacturer discrepancies.

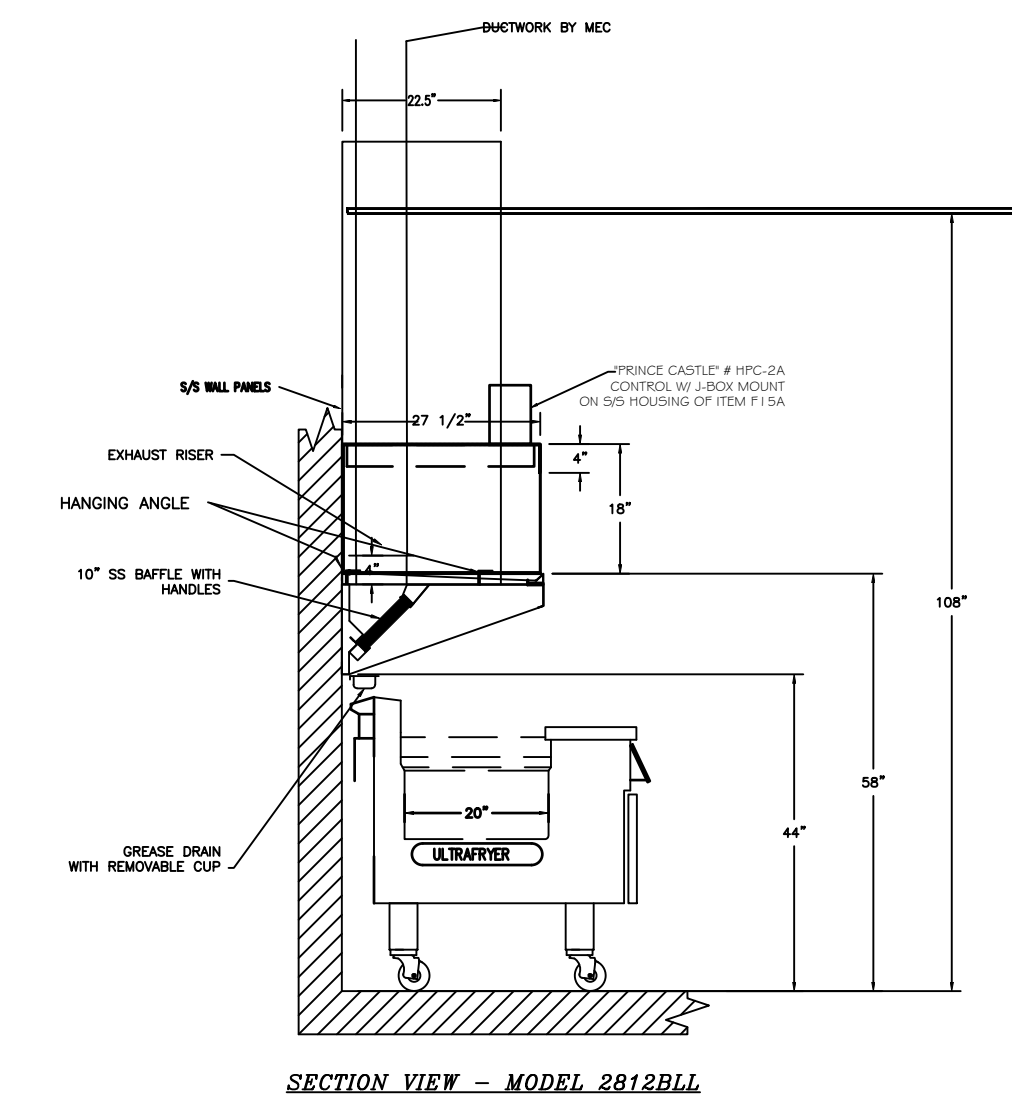
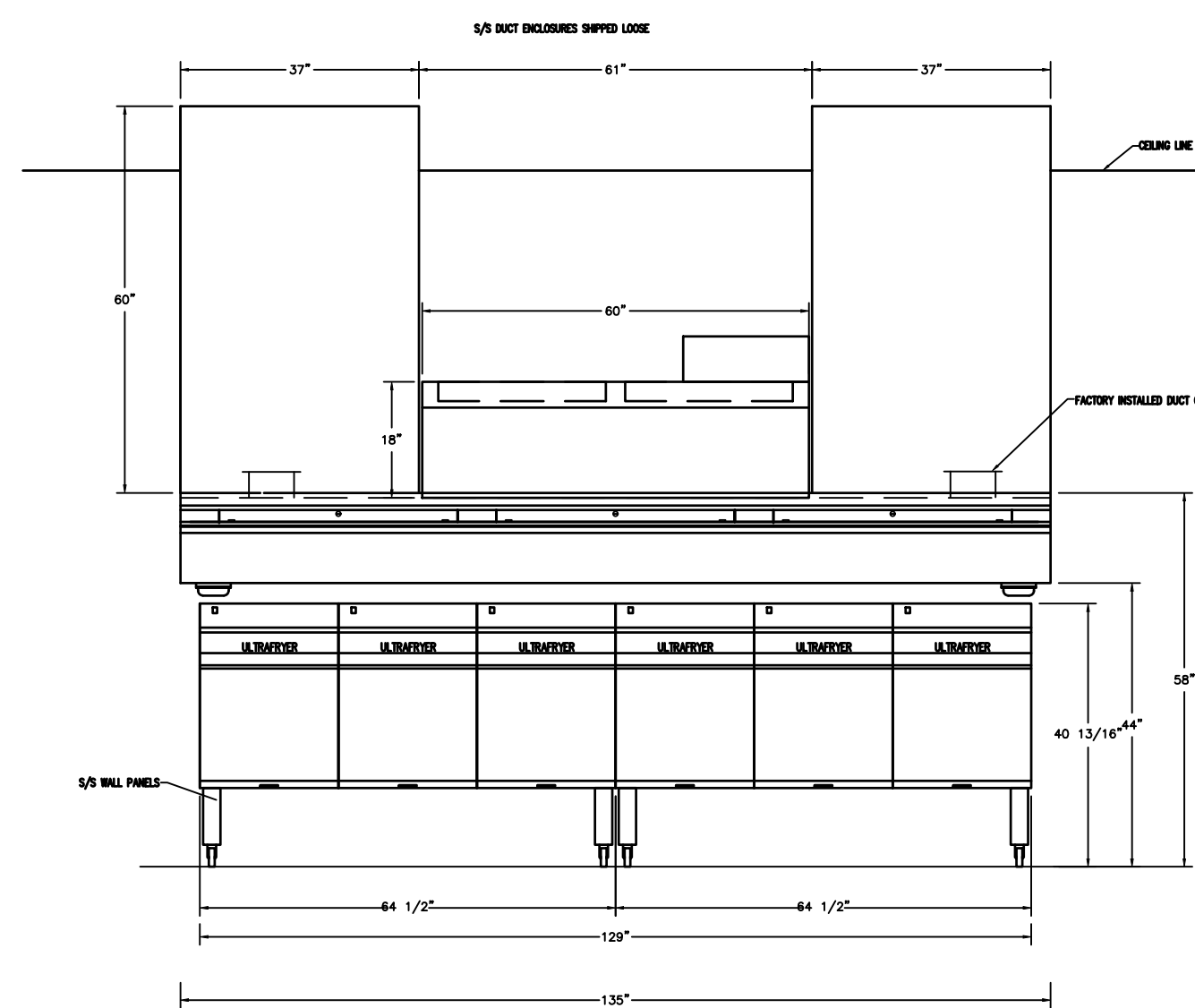
FRYER BATTERY WITH MINIMUM 2" MIN. SIDE OVERHANG AND 4.5" FRONT UNDERHANG BY HOOD PER ETL LISTING FILE #3054804-001



**Backshelf Exhaust-Only ETL Ratings - File 3054804-001**

HOOD MODEL	MAX TEMP	MAX EXH. CFM/FT	LENGHT RANGE	MAX LENGTH FOR 1 RISER	WIDTH RANGE	WIDTH INCR.	SIDE OVER-HANG	FRONT OVER-HANG	VERTICLE CLEARANCE WITH LIGHTS	VERTICLE CLEARANCE WITHOUT LIGHTS
BLL	400DEG	110	3'-24'	16'	26"-36"	-	2"	-4.5"	-	8"-26"

All enclosure panels 60" tall with vertical grain



**GENERAL NOTES**

- INSTALLATION**
- ALL ELECTRICAL "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY ELECTRICAL CONTRACTORS.
  - ALL PLUMBING "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY PLUMBING CONTRACTORS.
  - HANGING BRACKETS LOCATED AND WELDED AS SHOWN ON PLANS. ALL OTHER HANGER MATERIALS PROVIDED BY INSTALLING CONTRACTORS.
  - ALL CONNECTIONS FROM CAPTIVE-AIRE DUCT PER MECHANICAL CONTRACTOR'S PLANS.
  - COOKING EQUIPMENT TO SHUTOFF IN EVENT OF FIRE.
  - EXHAUST FANS TO TURN ON IN EVENT OF FIRE.
  - ALL LIGHTS FIXTURE SHOWN INSTALLED BY CAPTIVE-AIRE ARE FACTORY PREWIRED. INTERCONNECTIONS BETWEEN HOODS AND TO SWITCHES BY ELECTRICAL CONTRACTORS.
  - LAMPS FOR LIGHT FIXTURES BY INSTALLING CONTRACTORS.
  - SEISMIC RESTRAINTS ARE RESPONSIBILITY OF INSTALLING CONTRACTOR.
  - INSTALLING CONTRACTORS ASSUME ALL RELATED RESPONSIBILITY FOR VERIFICATION OF DIMENSIONAL DATA CONTAINED ON THESE DOCUMENTS FOR ACCURACY, INTEGRATION, AND ADMINISTRATION OF CODE REQUIREMENTS IN EFFECT PRIOR TO ANY RELEASE FOR PRODUCTION OF EQUIPMENT SHOWN.
- BALANCE**
- KITCHEN HOODS MUST BE BALANCED WITH KITCHEN.
  - KITCHEN SHALL BE NEGATIVE WITH RESPECT TO DINING AREA.
  - RESTAURANT SHALL BE POSITIVE WITH RESPECT TO AMBIENT PRESSURE.
- ADDITIONAL**
- WRITTEN HOOD DIMENSIONS HAVE PRECEDENCE OVER SCALE.
  - SIGNED AND "APPROVED" COPIES OF THIS DOCUMENT MUST BE RECEIVED BY THE FACTORY PRIOR TO COMMENCEMENT OF FABRICATION.
- \*ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR HANGING ANGLE IS PRE-PUNCHED AT FACTORY

FRYER BATTERY WITH MINIMUM 2" MIN. SIDE OVERHANG AND 4.5" FRONT UNDERHANG BY HOOD PER ETL LISTING FILE #3054804-001

FRYER BATTERY WITH MINIMUM 2" MIN. SIDE OVERHANG AND 4.5" FRONT UNDERHANG BY HOOD PER ETL LISTING FILE #3054804-001

ND-2 HANGING ANGLE DETAIL	HANGING ANGLE LOCATIONS	CALCULATIONS UTILIZED	CLEARANCE TO COMBUSTIBLES																															
	<table border="1"> <thead> <tr> <th>HOOD STYLE</th> <th>DIM FROM REAR</th> <th>DIM FROM FRONT (24\"/&gt; </th></tr> </thead> <tbody> <tr> <td>CANOPY ND2</td> <td>4.166"</td> <td>2.246"</td> <td>2.246"</td> </tr> <tr> <td>ND2-PSP-F</td> <td>4.166"</td> <td>2.246"</td> <td>2.246"</td> </tr> <tr> <td>BACKSHELF BD-2</td> <td>4.166"</td> <td>2.246"</td> <td>-</td> </tr> <tr> <td>VHB/VHB-G</td> <td>36"x36"</td> <td>42"x42"</td> <td>48"x48"</td> </tr> <tr> <td>FRONT/BACK DIMS BY SIZE</td> <td>2.246"</td> <td>2.246"</td> <td>2.246"</td> </tr> </tbody> </table>	HOOD STYLE	DIM FROM REAR	DIM FROM FRONT (24\"/>	CANOPY ND2	4.166"	2.246"	2.246"	ND2-PSP-F	4.166"	2.246"	2.246"	BACKSHELF BD-2	4.166"	2.246"	-	VHB/VHB-G	36"x36"	42"x42"	48"x48"	FRONT/BACK DIMS BY SIZE	2.246"	2.246"	2.246"	<p>EXHAUST CFM=LENGTH OF HOOD X CFM/LIN.FT. (LOAD)</p> <p>SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED</p> <p>TOTAL DUCT AREA=144 X CFM / FPM(*)</p> <p>DUCT LENGTH= TOTAL DUCT AREA / DUCT DEPTH</p> <p>DUCT DEPTH</p> <p>CONSTRUCTION OF HOODS ARE CALCULATED USING AN EXHAUST SUPPLY VELOCITY OF 300-400 FPM.</p> <p>CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:</p> <p>BUILT IN ACCORDANCE WITH NFPA 96</p> <p>Listed under ETL File number 3054804-001/002</p>	<p>CAPTIVE-AIRE HOODS HAVE OPTIONAL CLEARANCE REDUCTION SYSTEMS AVAILABLE AS FOLLOWS:</p> <table border="1"> <thead> <tr> <th>MATERIAL</th> <th>CLEARANCE REDUCTION SYSTEM</th> </tr> </thead> <tbody> <tr> <td>NON-COMBUSTIBLE</td> <td>NONE REQUIRED</td> </tr> <tr> <td>LIMITED-COMBUSTIBLE</td> <td>3" UNINSULATED STANDOFF</td> </tr> <tr> <td>COMBUSTIBLE</td> <td>1" INSULATED STANDOFF</td> </tr> </tbody> </table>	MATERIAL	CLEARANCE REDUCTION SYSTEM	NON-COMBUSTIBLE	NONE REQUIRED	LIMITED-COMBUSTIBLE	3" UNINSULATED STANDOFF	COMBUSTIBLE	1" INSULATED STANDOFF
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USER: adevney  
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**REVISIONS**

1 03.01.2023 REV. 01

**POPEYES**  
 NEW CONSTRUCTION  
 3430 NORTH 167TH STREET  
 OMAHA, NE 68116



POPEYES

Project No. | 021-01872  
 Issue Date | 12-16-2022

**Hood Details**

Sheet No.

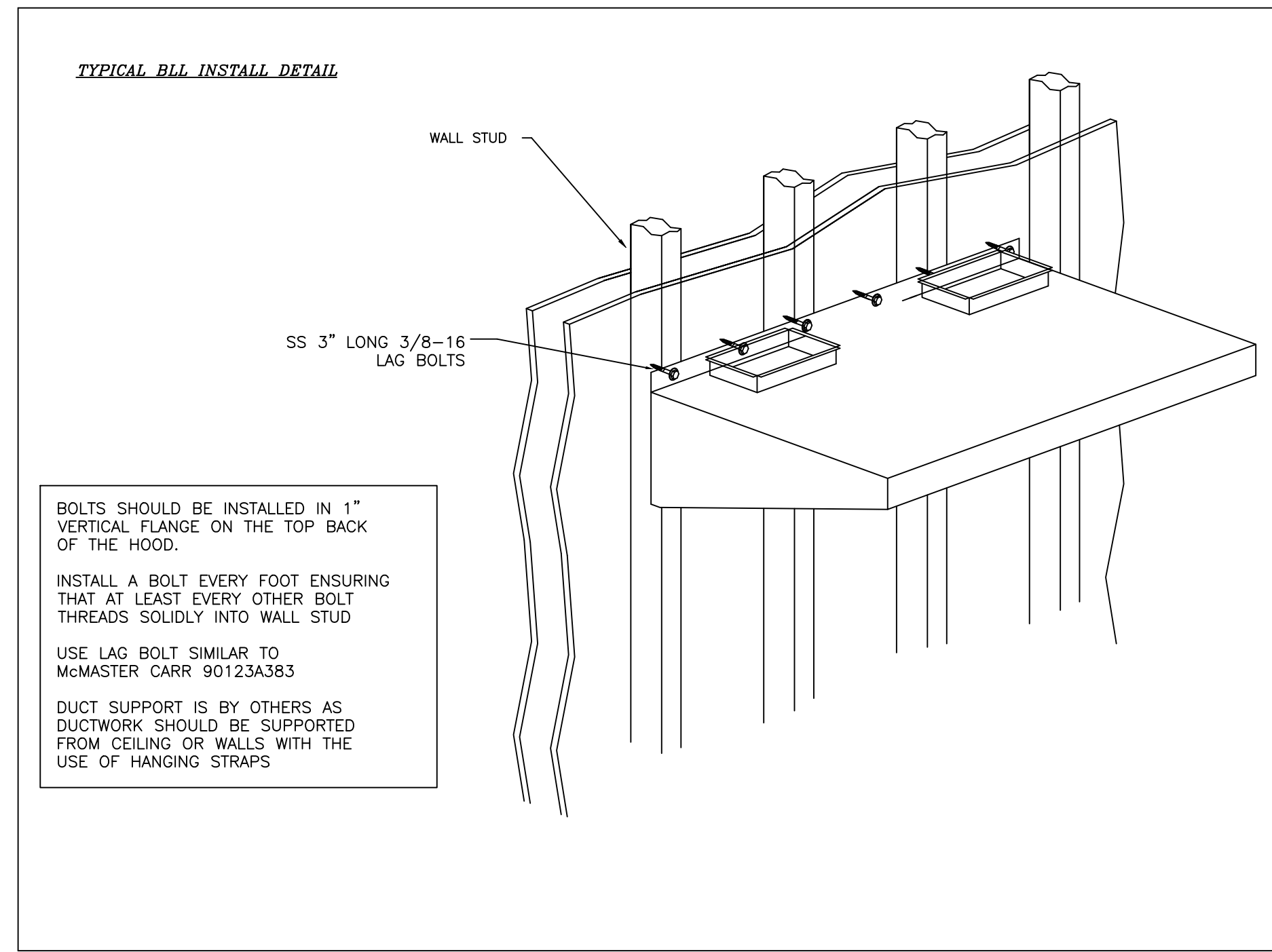
**M3**



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USER: adevrey

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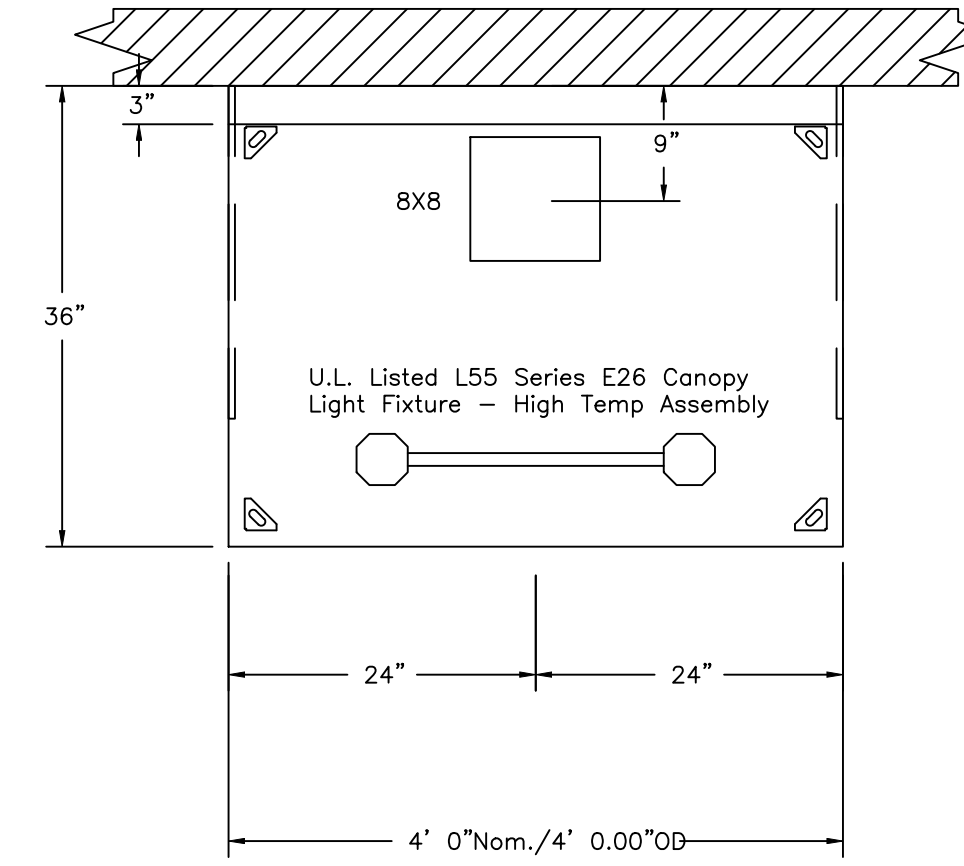
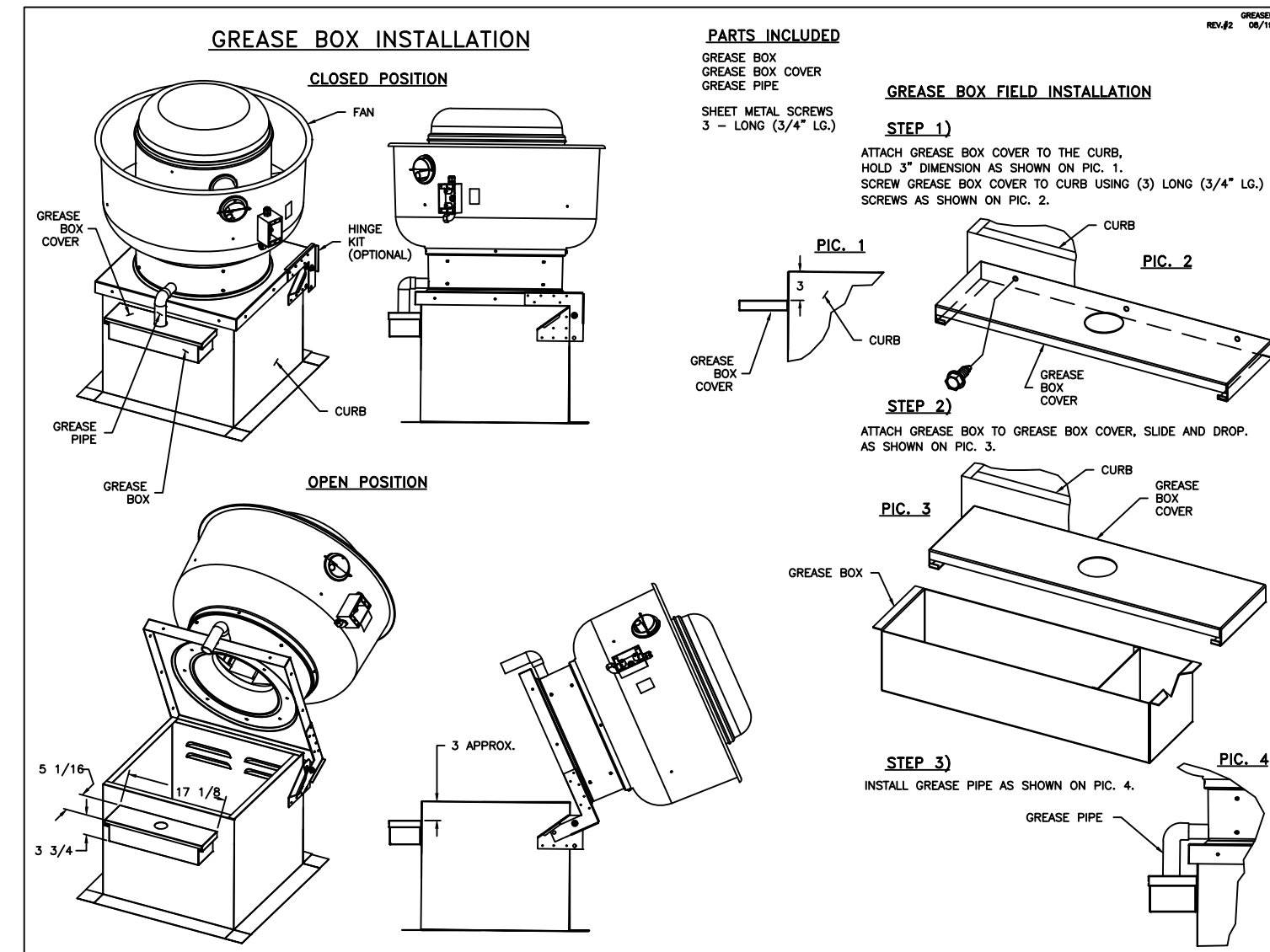


BOLTS SHOULD BE INSTALLED IN 1\"/>

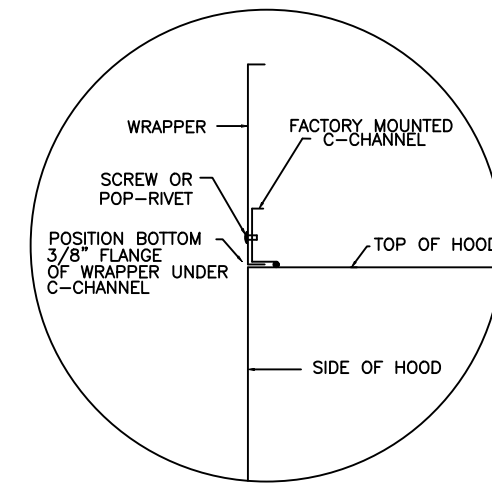
INSTALL A BOLT EVERY FOOT ENSURING THAT AT LEAST EVERY OTHER BOLT THREADS SOLIDLY INTO WALL STUD

USE LAG BOLT SIMILAR TO McMASTER CARR 90123A383

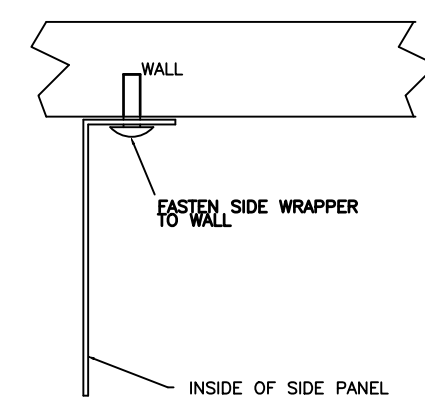
DUCT SUPPORT IS BY OTHERS AS DUCTWORK SHOULD BE SUPPORTED FROM CEILING OR WALLS WITH THE USE OF HANGING STRAPS



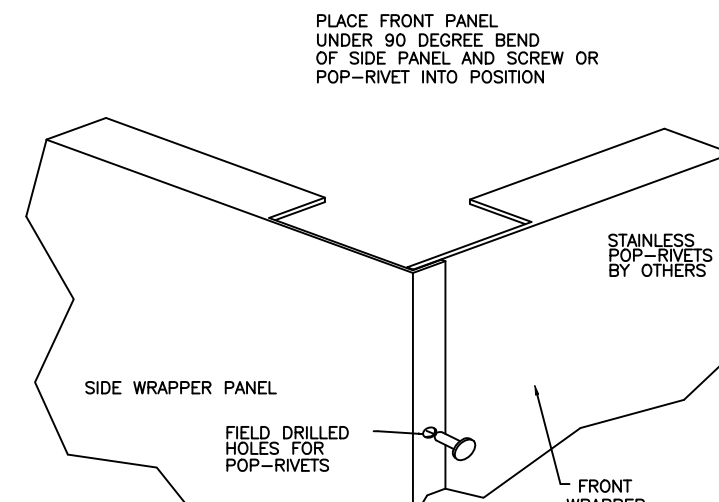
PLAN VIEW - Hood #1  
4' 0.00\"/>



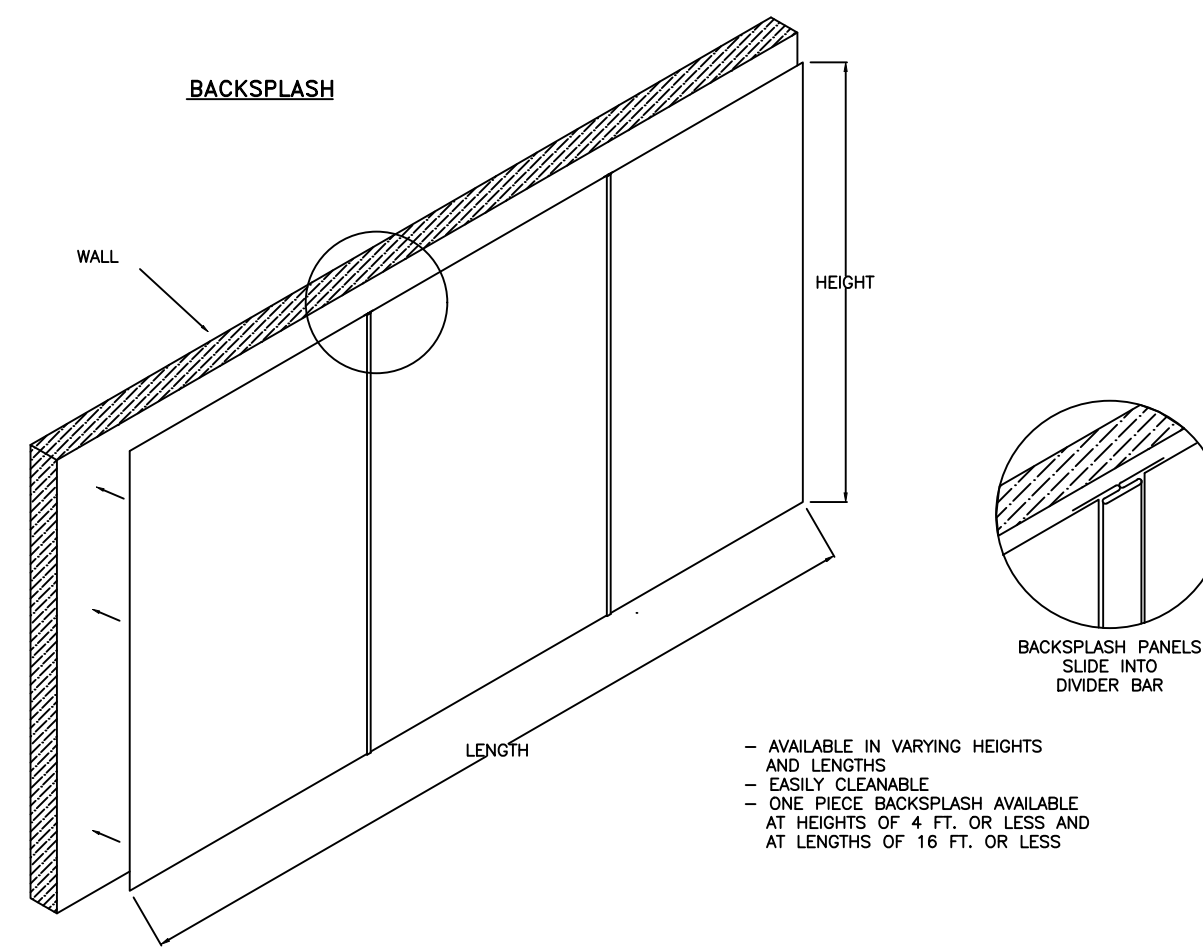
ENCLOSURE DETAIL



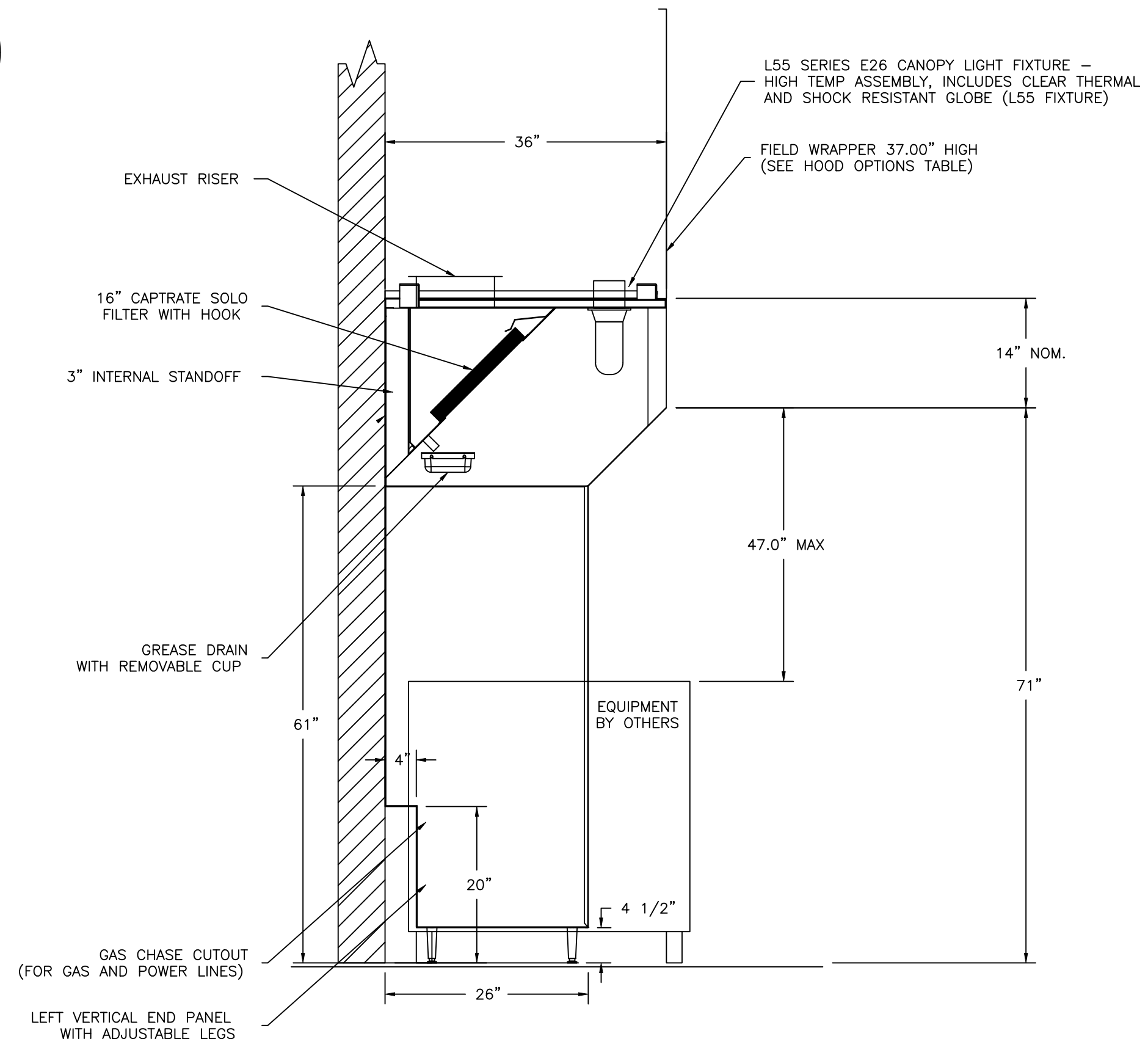
REAR WALL ATTACHMENT



FRONT CORNER ASSEMBLY



- AVAILABLE IN VARYING HEIGHTS AND LENGTHS  
- EASILY CLEARABLE  
- ONE PIECE BACKSLASH AVAILABLE AT HEIGHTS OF 4 FT. OR LESS AND AT LENGTHS OF 16 FT. OR LESS



SECTION VIEW - MODEL 3650BD-2  
HOOD - #1

HOOD INFORMATION - Job#3274360

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S)					HOOD CONSTRUCTION	HOOD CONFIG.		
						WIDTH	LENG.	HEIGHT	DIA.	CFM		VEL.	S.P.	END TO END
1		3650 BD-2	4' 0"	450 Deg.	600		4"	10"	600	1100	-0.374"	430 SS Where Exposed	ALONE	ALONE

HOOD INFORMATION

HOOD NO.	TAG	FILTER(S)				LIGHT(S)			UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WGT		
		TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	SIZE	TYPE			SIZE	ELECTRICAL MODEL #
1		Captrate Solo Filter	2	16"	20"	85% See Filter Spec.	2	L55 Series E26	NO						NO	242 LBS

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1		FIELD WRAPPER 37.00" High Front, Left, Right
		RIGHT QUARTER END PANEL 26" Top Width, 0" Bottom Width, 26" High 430 SS
		LEFT VERTICAL END PANEL 26" Top Width, 26" Bottom Width, 61" High Insulated 430 SS



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POPEYES

Project No. | 021-01872  
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Hood Details

Sheet No.

M4



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**ELECTRICAL CONTRACTOR NOTES:**

- RUN ONE (10) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM THE ROOFTOP AIR CONDITIONING UNIT TO THE "UNOCCUPIED-OCCUPIED" PANEL.
- RUN ONE (10) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM THE "UNOCCUPIED-OCCUPIED" PANEL TO THE THERMOSTAT LOCATION.
- RUN ONE (10) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM THE ROOFTOP AIR CONDITIONING UNIT TO THE NIGHT SETBACK THERMOSTAT LOCATION, IF NOT CONTROLLED WITH P-24-2700 T-STAT. REFER TO SHEET M-1.
- TERMINATION OF ALL 24 VOLT AIR CONDITIONING CONTROL WIRING SHALL BE DONE BY THE MECHANICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL RUN LINE VOLTAGE FROM THE CURRENT SENSOR LOCATED IN THE BROILER HOOD EXHAUST FAN TO THE CONTACTOR PANEL LOCATED BY THE SWITCHGEAR.

**"MORNING ARRIVAL"**

**STEP 1**

TURN THE KITCHEN UNOCCUPIED-OCCUPIED SWITCH TO THE OCCUPIED POSITION. THE KITCHENS AIR CONDITIONING SYSTEM WILL GO FROM NIGHT SETBACK MODE TO THE THERMOSTAT SET POINT.

NOTE: THE AIR CONDITIONING FAN WILL START AND RUN CONTINUOUSLY. EXHAUST FAN WILL NOT RUN UNTIL THIS SWITCH IS IN THE OCCUPIED POSITION.

**STEP 2**

TURN ON THE EXHAUST FAN SWITCH TO THE ON POSITION THIS WILL ALLOW YOU TO TURN ON THE FRYERS.

**"RESTAURANT OPEN FOR BUSINESS"**

**STEP 1**

TURN THE DINING UNOCCUPIED-OCCUPIED SWITCH TO THE OCCUPIED POSITION. THE DINING AIR CONDITIONING SYSTEM WILL GO FROM NIGHT SETBACK MODE TO THE THERMOSTAT SET POINT.

**STEP 2**

TURN THE SIGN AND PARKING LOT LIGHTING SWITCHES TO THE AUTO POSITION, THIS WILL ENGAGE THE LIGHTING PHOTOCELLS SO THAT THE LIGHTS WILL AUTOMATICALLY COME ON AFTER DARK. TURN THE SWITCH TO THE ON POSITION TO OVER RIDE THE PHOTOCELLS AT ANY TIME THE LIGHTING MUST REMAIN ON.

**"RESTAURANT CLOSE FOR BUSINESS"**

**STEP 1**

TURN THE DINING UNOCCUPIED-OCCUPIED SWITCH TO THE UNOCCUPIED POSITION. THE DINING AIR CONDITIONING SYSTEM WILL GO FROM THE THERMOSTAT SET POINT TO THE NIGHT SET BACK MODE.

**STEP 2**

TURN THE SIGN AND PARKING LOT LIGHTING SWITCHES TO THE OFF POSITION, THIS WILL DISENGAGE THE LIGHTING PHOTOCELLS.

**STEP 3**

TURN THE EXHAUST FAN SWITCH TO THE OFF POSITION. THE UNDER HOOD COOKING EQUIPMENT WILL TURN OFF AND THE EXHAUST FAN WILL CONTINUE TO RUN FOR 15 MINUTES FOR A COOL DOWN CYCLE AND THEN SHUT OFF AUTOMATICALLY.

NOTE: TO PREVENT ACCIDENTAL ANSUL DISCHARGE, ONE OF THE HOODS EXHAUST FANS WILL RUN 15 MINUTES AFTER THE EXHAUST FAN SWITCH IS TURNED TO THE OFF POSITION.

**"EMPLOYEES LEAVING THE BUILDING"**

**STEP 1**

WHEN READY TO EXIT THE BUILDING PUSH THE SECURITY DEPARTURES SWITCH. THE PARKING LOT LIGHTS WILL COME BACK ON FOR 15 MINUTES THEN SHUT OFF AUTOMATICALLY.

**"MANAGER/LAST PERSON LEAVING THE BUILDING"**

**STEP 1**

TURN THE KITCHEN UNOCCUPIED-OCCUPIED SWITCH TO THE UNOCCUPIED POSITION. THE KITCHENS AIR CONDITIONING SYSTEM WILL GO FROM THE THERMOSTAT SET POINT TO THE NIGHT SET BACK MODE.

**STEP 2**

WHEN READY TO EXIT THE BUILDING PUSH THE SECURITY DEPARTURE SWITCH. THE PARKING LOT LIGHTS WILL COME BACK ON FOR 15 MINUTES THEN SHUT OFF AUTOMATICALLY.

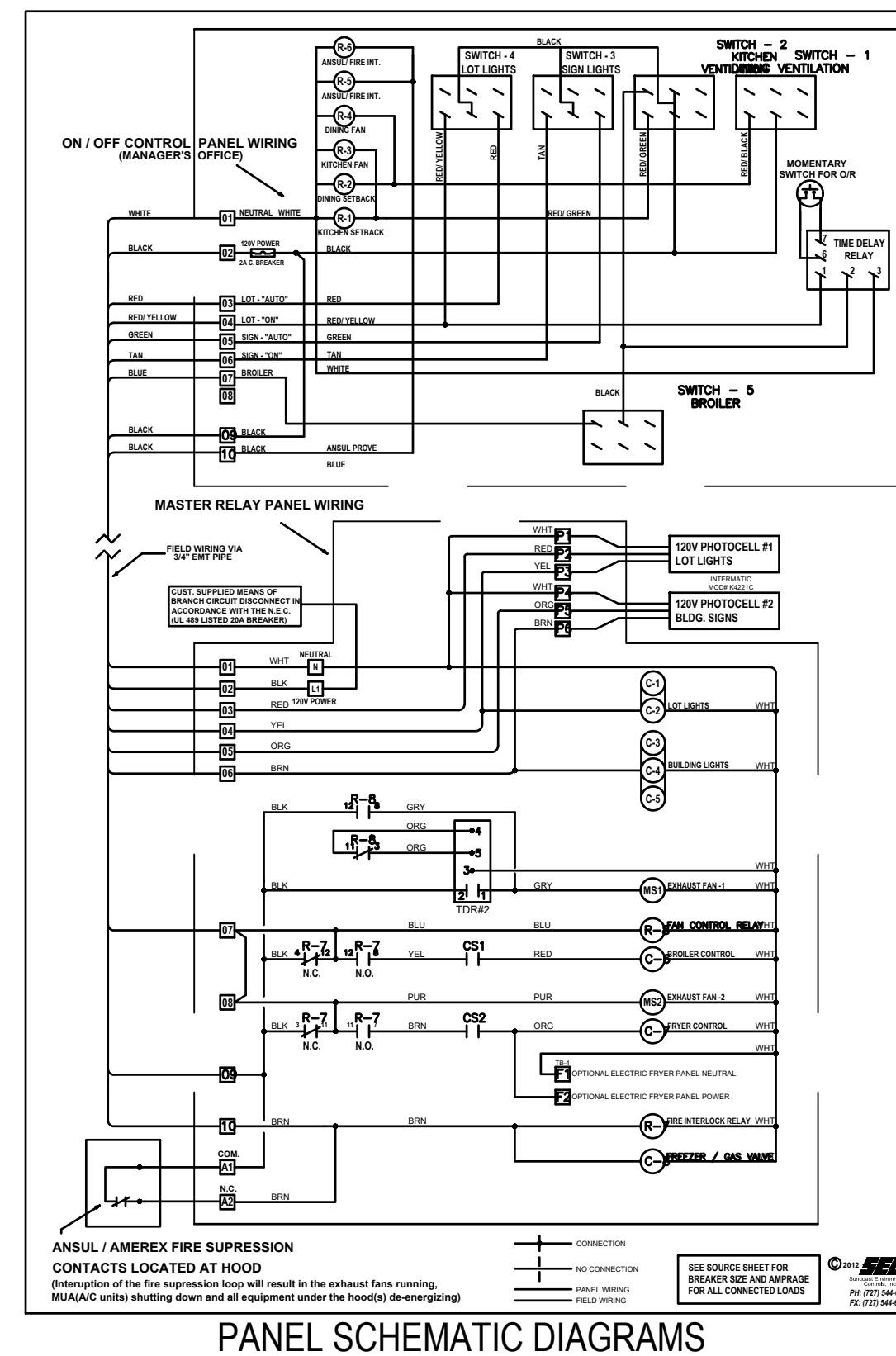
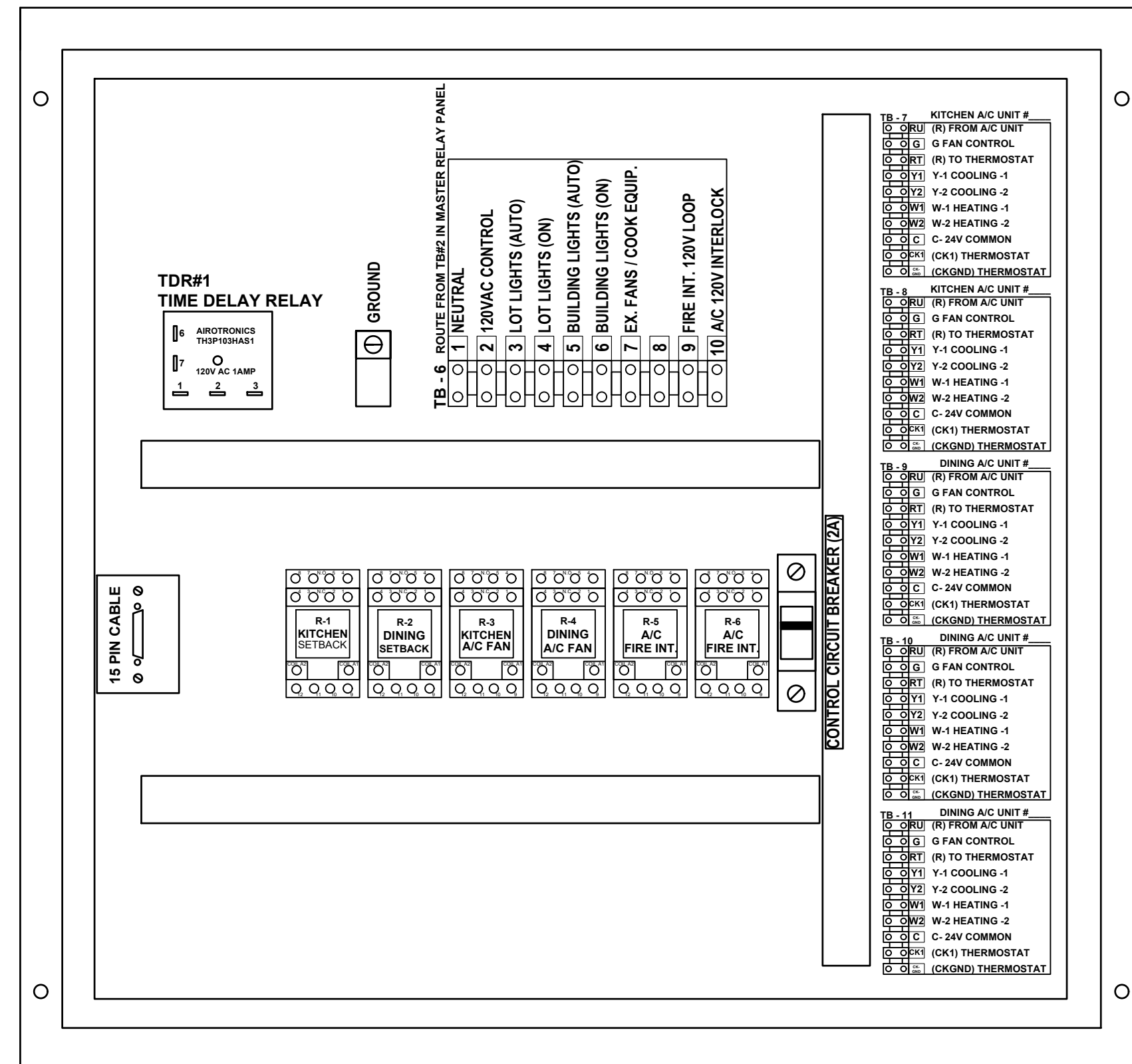
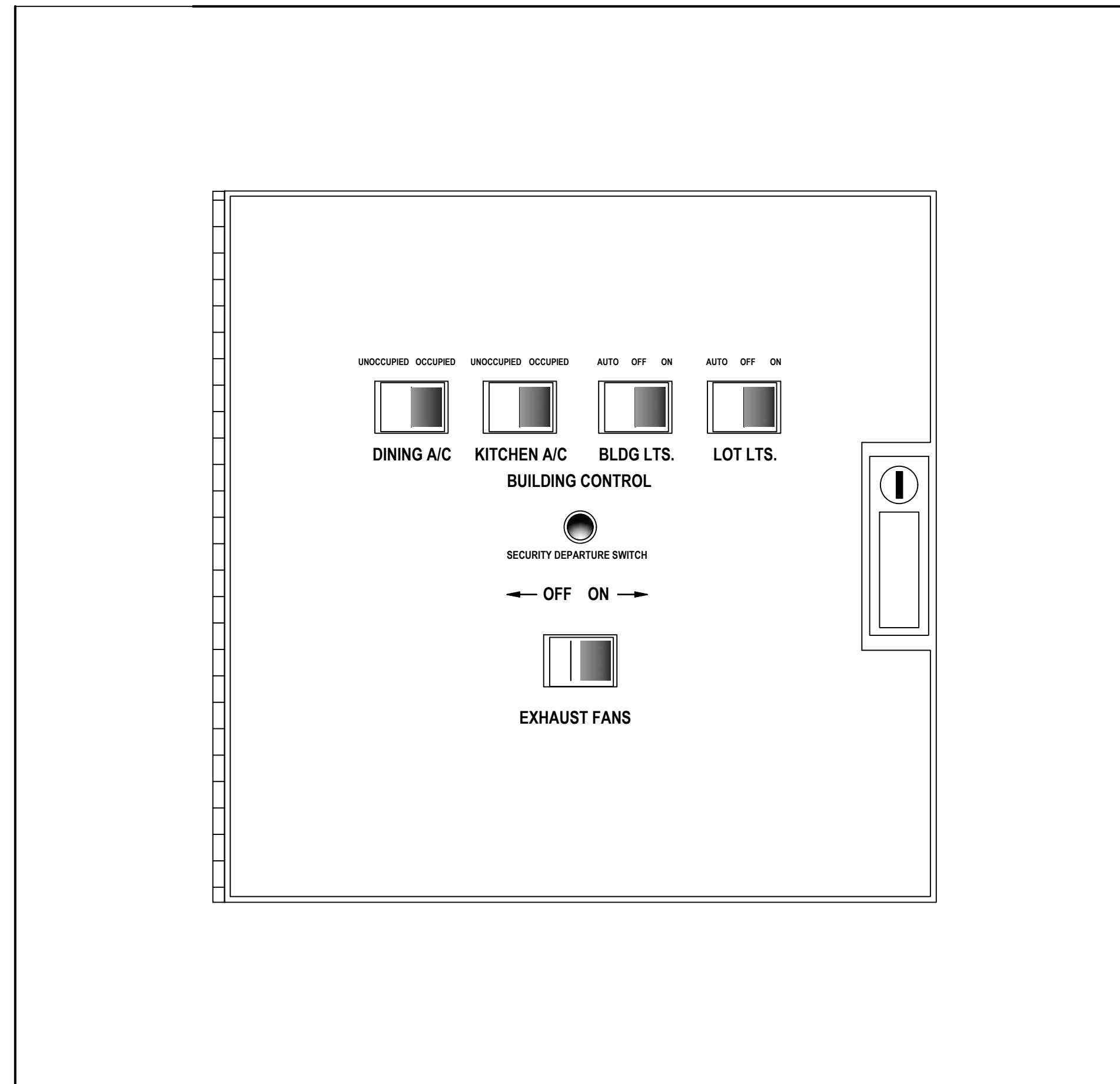
**"HOOD VENTILATION SYSTEM NOTE"**

WHEN THE HOOD EXHAUST FAN CURRENT SENSOR DETECTS A DROP IN AMPERAGE (SUCH AS A BELT BREAKING) IT WILL DISABLE THE LINE VOLTAGE TO THE COOKING EQUIPMENT UNDER THE HOOD. THE EXHAUST FAN SWITCH SHOULD BE PLACED IN THE OFF POSITION AND THE FAN SHOULD BE CHECKED AND/OR REPAIRED BEFORE TURNING THE SWITCH TO THE ON POSITION.

**"PARKING LOT LIGHTING NOTE"**

WHEN THE PARKING LOT LIGHTS ARE TURNED OFF, THEY MUST COOL DOWN FOR ABOUT 10 MINUTES BEFORE THEY WILL COME BACK ON.

NOTE: Current sensors are factory wired but must be field adjusted for proper operation. With the hood exhaust fans running, spin the potentiometer dials counterclockwise until the status "OFF" green LED lights and cooking equipment contacts de-energize. Then turn dials back clockwise one full turn. If the current sensors are improperly adjusted, cooking equipment may not shut off should a hood exhaust fan fail. If the cooking equipment fails to operate while the hood switches are on and the exhaust fans are running, spin the appropriate setpoint dial clockwise until the status "ON" red LED lights.



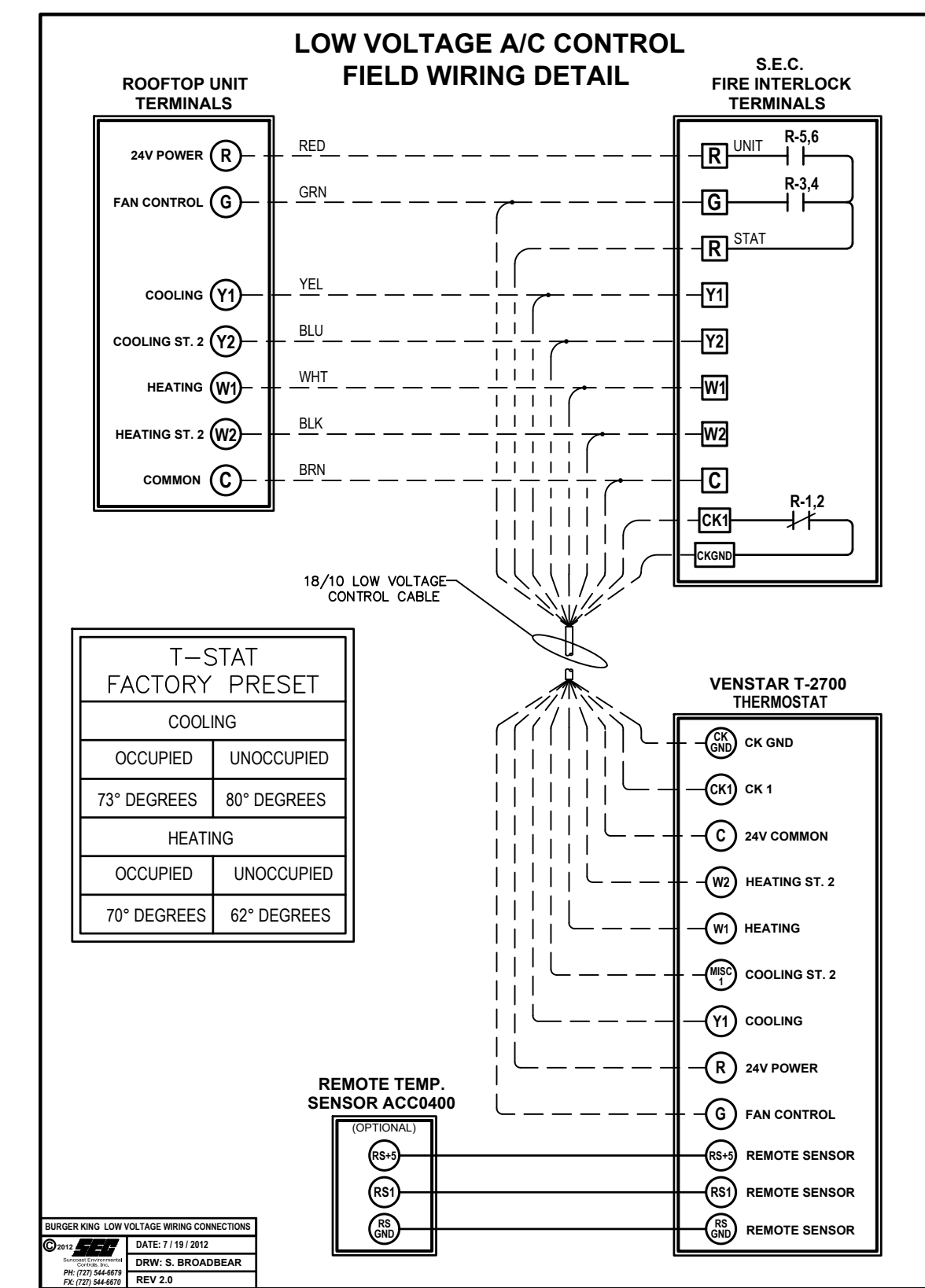
**POPEYES SEQUENCE OF OPERATION**

**MANUAL CONTROL SYSTEM**  
 THE A/C UNITS UNOCCUPIED-OCCUPIED SWITCH IS USED TO TURN THE STORE ON IN THE MORNING AND OFF IN THE EVENING.  
 WHEN A/C UNIT UNOCCUPIED-OCCUPIED SWITCH IS TURNED TO THE ON POSITION, THE AIR CONDITIONING SYSTEM WILL GO FROM NIGHT MODE TO SYSTEM ON.  
 THE AIR CONDITIONING FANS WILL START AND RUN CONTINUOUSLY.  
 THE OUTDOOR DAMPERS WILL OPEN TO A PRESET POSITION. (OPTIONAL)  
 DAMPERS WILL NOT OPEN DURING NIGHT SET BACK MODE. (OPTIONAL)  
 THE AIR CONDITIONERS WILL BEGIN TO COOL OR HEAT AT THE OCCUPIED TEMPERATURE SETPOINT.  
 THE COOKING EQUIPMENT AND EXHAUST FANS CAN NOW BE TURNED ON WHEN NEEDED.  
 WHEN A/C UNOCCUPIED-OCCUPIED SWITCH IS TURNED TO THE OFF POSITION, EXHAUST FANS, SUPPLY FANS, AND EVAPORATOR BLOWERS WILL SHUT DOWN.  
 THE HEATING AND COOLING OPERATION SHALL REVERT TO SYSTEM NIGHT SET BACK MODE.  
 THE COOKING EQUIPMENT SHALL BE DISABLED.  
 THE SIGNAGE LIGHTING & LOT LIGHTING SHALL BE DISABLED IF SWITCHES ARE IN THE OFF POSITION.  
 THE PARKING LOT POLE LIGHTS & SECURITY LIGHTS SHALL REMAIN ON FOR 15 MIN AFTER THE SECURITY DEPARTURE SWITCH IS ACTIVATED.  
 WHEN THE HOOD EXHAUST FAN CURRENT SENSOR DETECTS A DROP IN AMPERAGE IT WILL DISABLE THE LINE VOLTAGE TO THE COOKING EQUIPMENT UNDER THE HOOD.

**HOOD VENTILATION SYSTEM**  
 IF THE KITCHEN A/C SWITCH IS IN THE OCCUPIED POSITION, THE HOOD VENTILATION SYSTEM CAN BE STARTED.  
 THE UNDER HOOD EQUIPMENT SHALL BE STARTED BY MOVING THE EXHAUST FANS ON/OFF SWITCH TO THE ON POSITION. IF THE EXHAUST FAN SWITCH IS IN THE ON POSITION, THE MAKE-UP AIR UNIT (IF APPLICABLE) SHALL START AUTOMATICALLY.  
 ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM SHALL DE-ENERGIZE THE MAKE UP AIR UNIT, ALL A/C UNITS, AND THE CONTROLLED COOKING EQUIPMENT. THE HOODS EXHAUST SYSTEM SHALL CONTINUE TO OPERATE TO DRAW OUT SMOKE. THE FIRE SUPPRESSION SYSTEM SHALL BE MANUALLY RESET.

**EXTERIOR LIGHTING CONTROL**  
 ALL OF THE EXTERIOR LIGHTING SHALL BE CONTROLLED, WITH THE EXCEPTION OF THE SECURITY LIGHTS WHICH SHALL BE OPERATED BY ITS OWN PHOTOCELL. SECURITY LIGHTING IS OPTIONAL.  
 THE SIGNAGE SELECTOR SWITCH (3-POS.) CONTROLS THE PRIME SIGN, ALL MARQUEE SIGNS, AND BUILDING ACCENT LIGHTING.  
 ON POSITION: LIGHTING SHALL BE ON PERMANENTLY.  
 OFF POSITION: LIGHTING SHALL BE OFF PERMANENTLY.  
 AUTO POSITION: LIGHTING SHALL BE CONTROLLED BY THE PHOTO CELL.  
 THE LOT LIGHTS THREE POSITION SWITCH WORKS THE SAME AS THE SIGNAGE SWITCH.

NOTE: UNOCCUPIED-OCCUPIED MASTER RELAY PANEL SHALL BE COMPLETE WHEN SHIPPED TO THE JOB SITE. NO INTERNAL WIRING SHALL BE REQUIRED. MAKE ALL EXTERNAL WIRING CONNECTIONS AS REQUIRED.



HVAC INTERLOCK PANEL (NFPA - 96 COMPLIANT) - "OPTIONAL"

**olsson**



3624 Farnam Street  
 Omaha, NE 68131  
 TEL | 402.342.5575  
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**REVISIONS**

1 03.01.2023 REV. 01

**POPEYES**  
 NEW CONSTRUCTION  
 3430 NORTH 167TH STREET  
 OMAHA, NE 68116



**POPEYES**

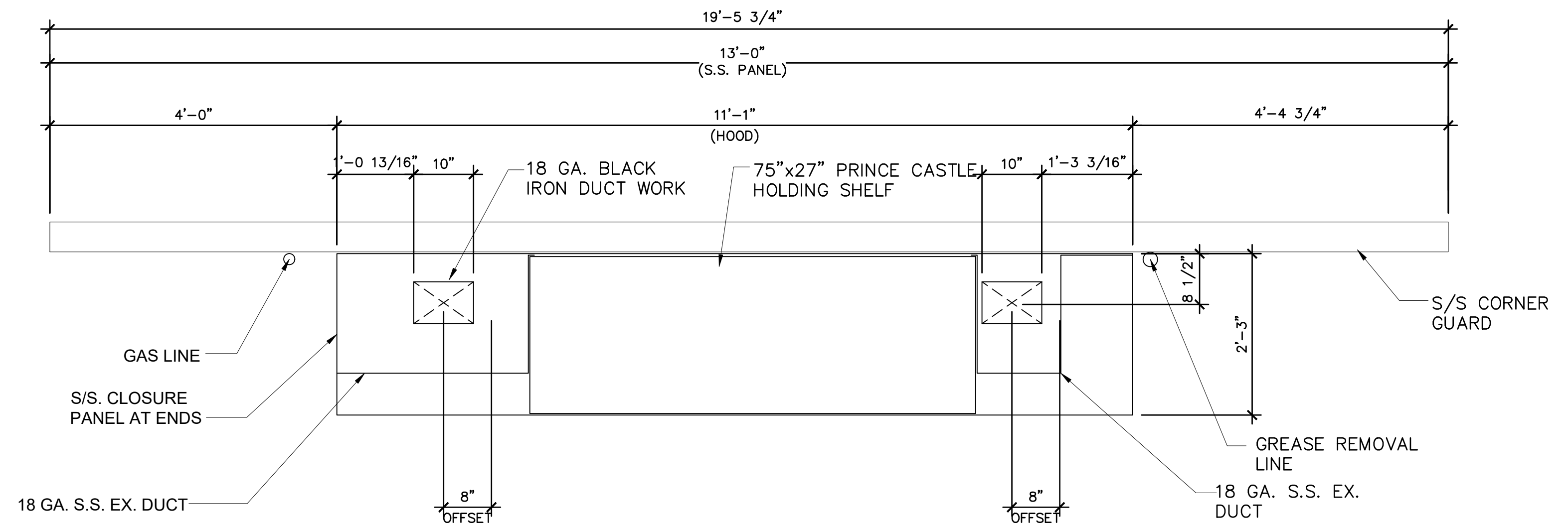
Project No | 021-01872  
 Issue Date | 12-16-2022

Interlock Panel Details

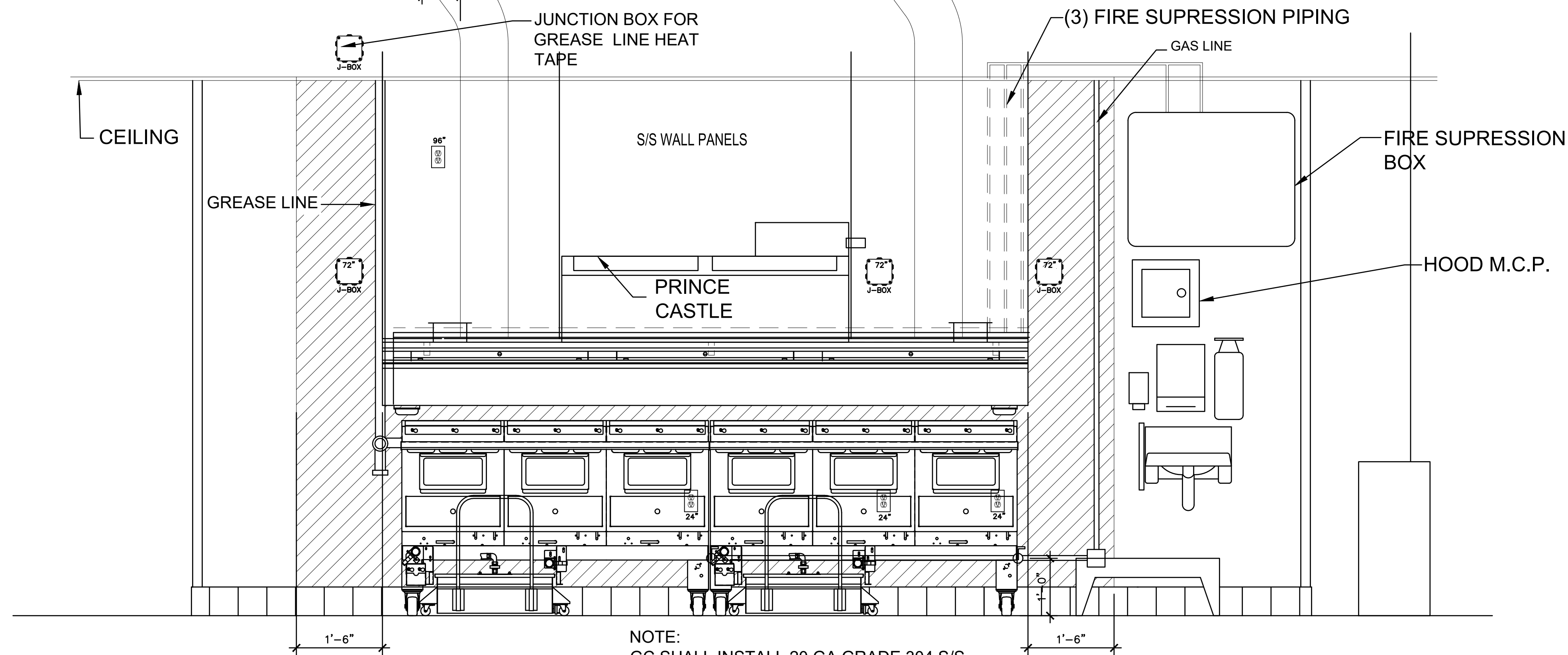
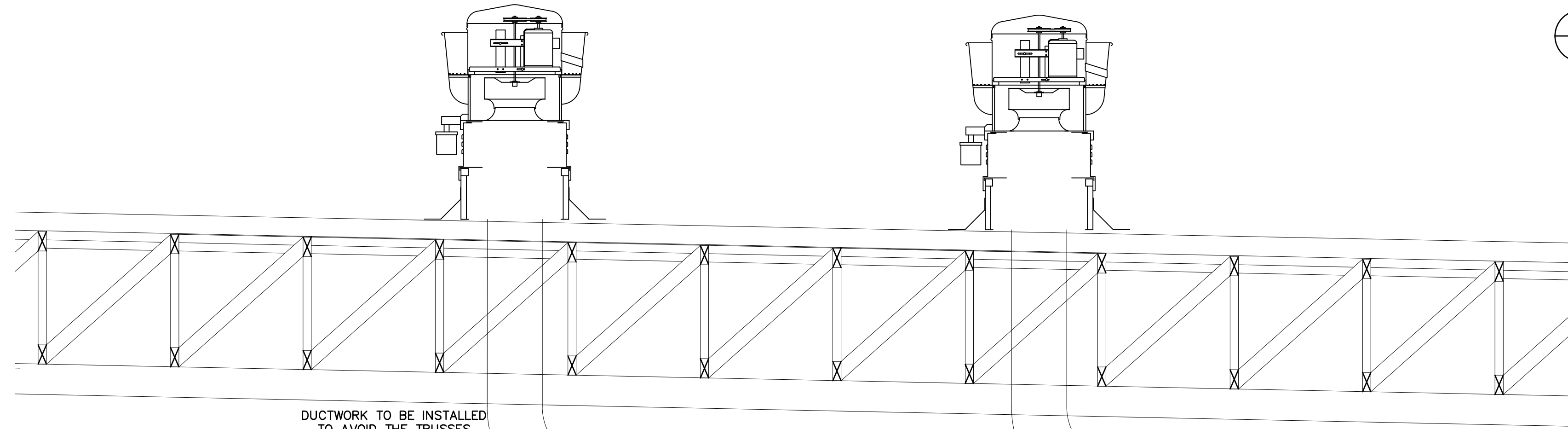
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**M5**

DWG: \\oa.odocconsulting.com\mnts-ns\Projects\2021\01501-02000\021-01872\40-Design\AutoCAD\Final Plans\Sheets\MECH\Mechanical\M\_NMDTL2\_02101872.dwg  
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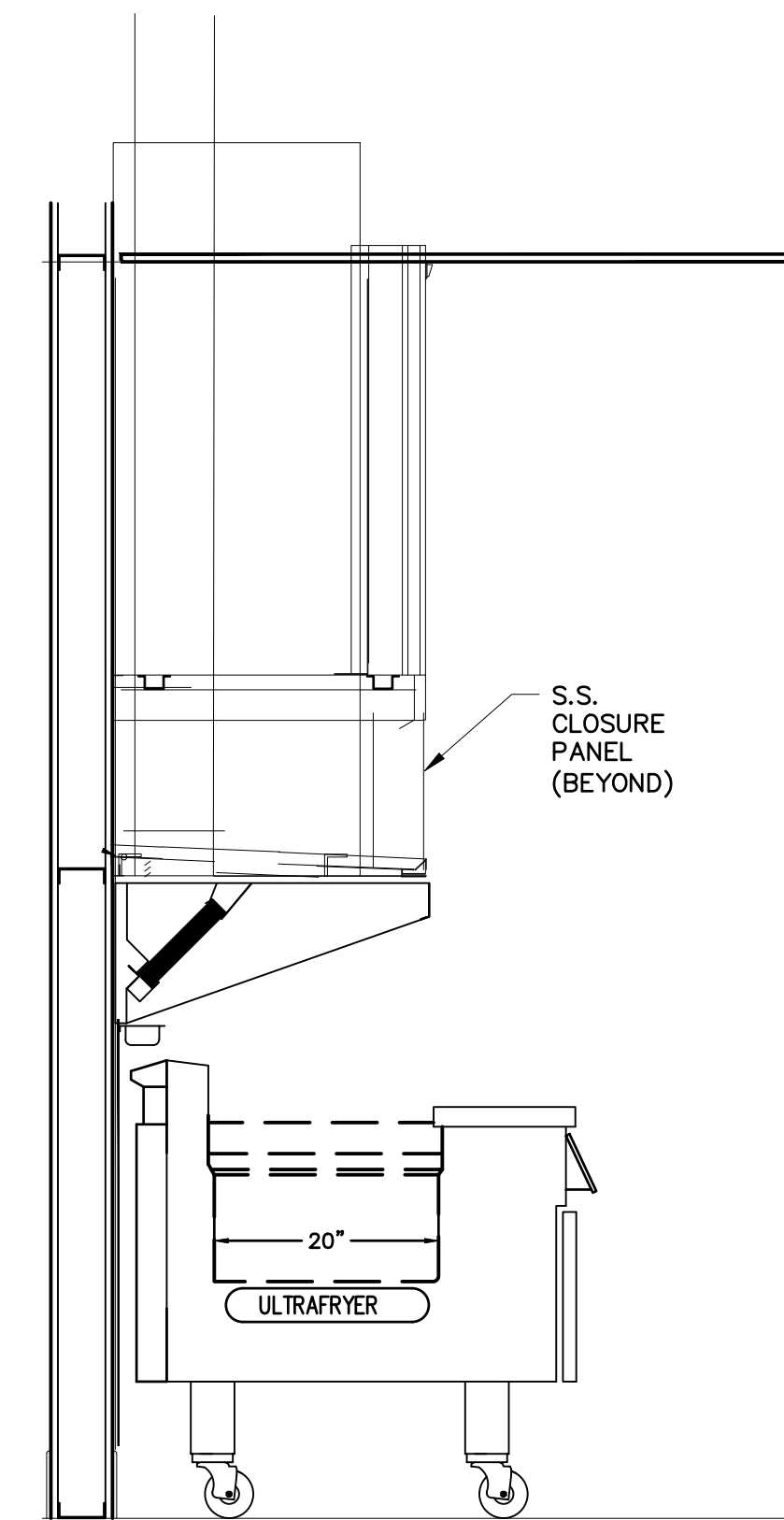


1 FRYER HOOD PLAN  
 M6 3/4"=1'-0"



2 FRYER HOOD ELEVATION  
 M6 3/4"=1'-0"

3 FRYER HOOD ELEVATION  
 M6 3/4"=1'-0"



**olsson**

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Project #020-01872  
www.olsson.com

**slate**  
ARCHITECTURE

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REVISIONS

1 03.01.2023 REV, 01

**POPEYES**  
 NEW CONSTRUCTION  
 3430 NORTH 167TH STREET  
 OMAHA, NE 68116



POPEYES

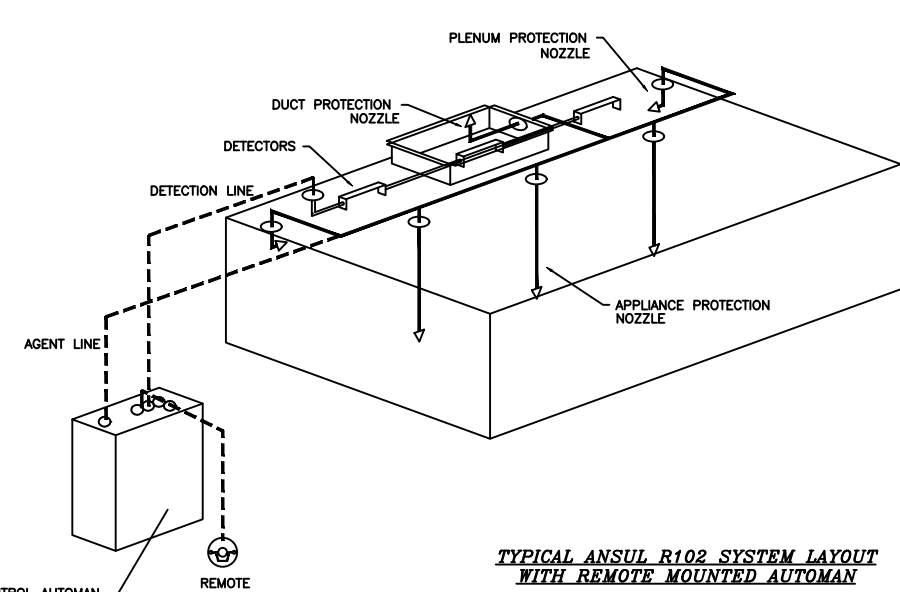
Project No. | 021-01872  
Issue Date | 12-16-2022

Fryer Hood  
Details

Sheet No.

M6

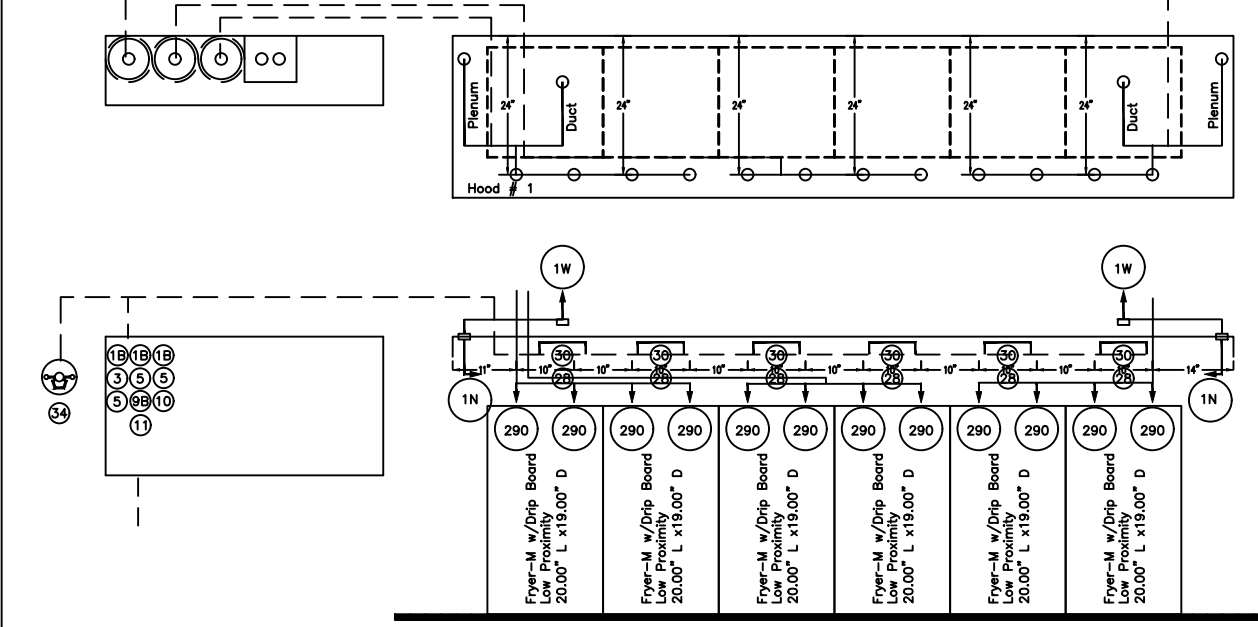
Fire System Information - Job#2561558  
CAS VALVES  
Fire System Parts List Key



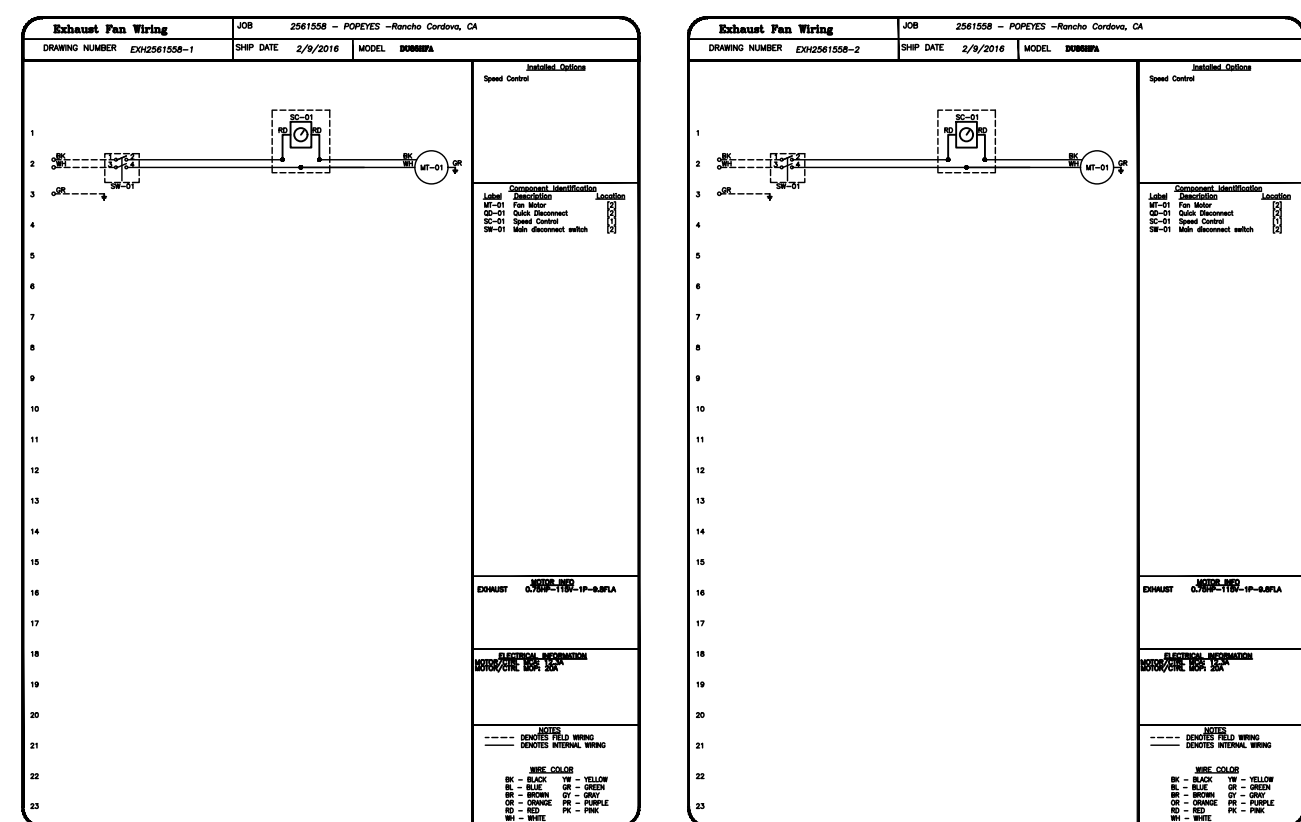
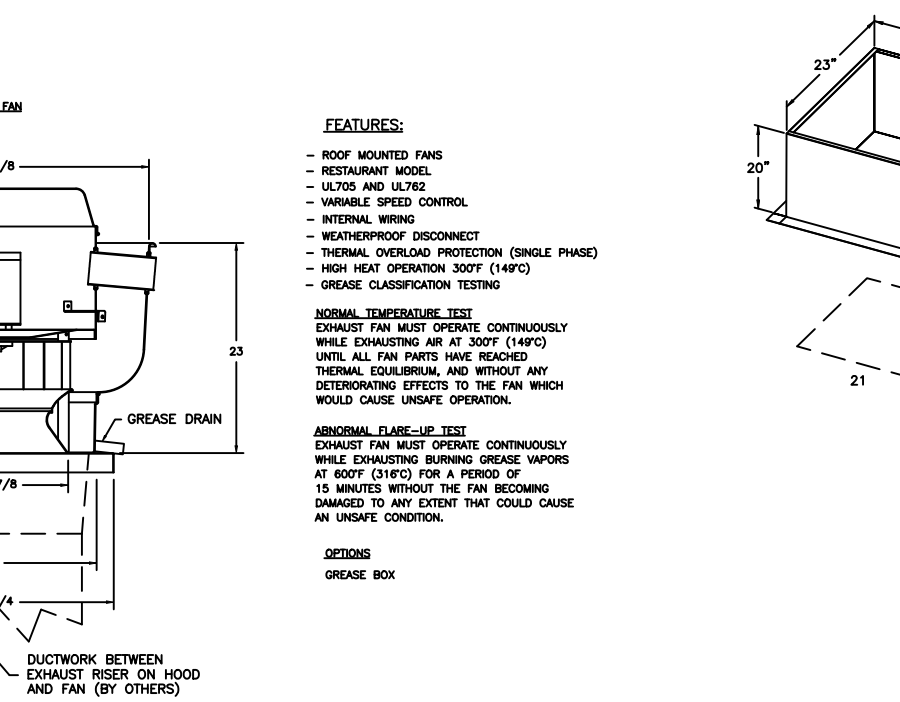
NOTES  
- FIELD PIPE DROPS AS SHOWN  
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS  
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.  
- MINIMUM 9" ELBOWS IN SUPPLY LINE  
- MAXIMUM 72" INCHES OF AGENT LINE FROM TANK TO FIRST NOZZLE  
- IF APPLICABLE, PRE-PIPED CHARBROLER 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 Name: POPEYES - TYPICAL  
Drawn By: J. T. POPEYES  
System Size: ANSUL-3.0/3.0/3.0-WC Total FP required: 28  
Hood # 1: 11' x 12' 6" Long x 28" Wide x 12" High  
Riser # 1: Size: 7" x 10"  
Riser # 2: Size: 7" x 10"  
Riser # 3: 1 Meq Blow-Off Cops 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 (17-A-101-30)  
10 DOUBLE TANK CARTRIDGE  
11 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)  
200 NOZZLE ASSEMBLY (419342)  
280 NOZZLE ASSEMBLY (419341)  
58 DETECTOR BRACKET  
29 LOW TEMP FUSIBLE LINK  
29 HIGH TEMP FUSIBLE LINK  
MOV MECHANICAL GAS VALVE  
EDV ELECTRICAL GAS VALVE  
34 REMOTE MANUAL FULL STATION  
S SWIVEL ADAPTOR



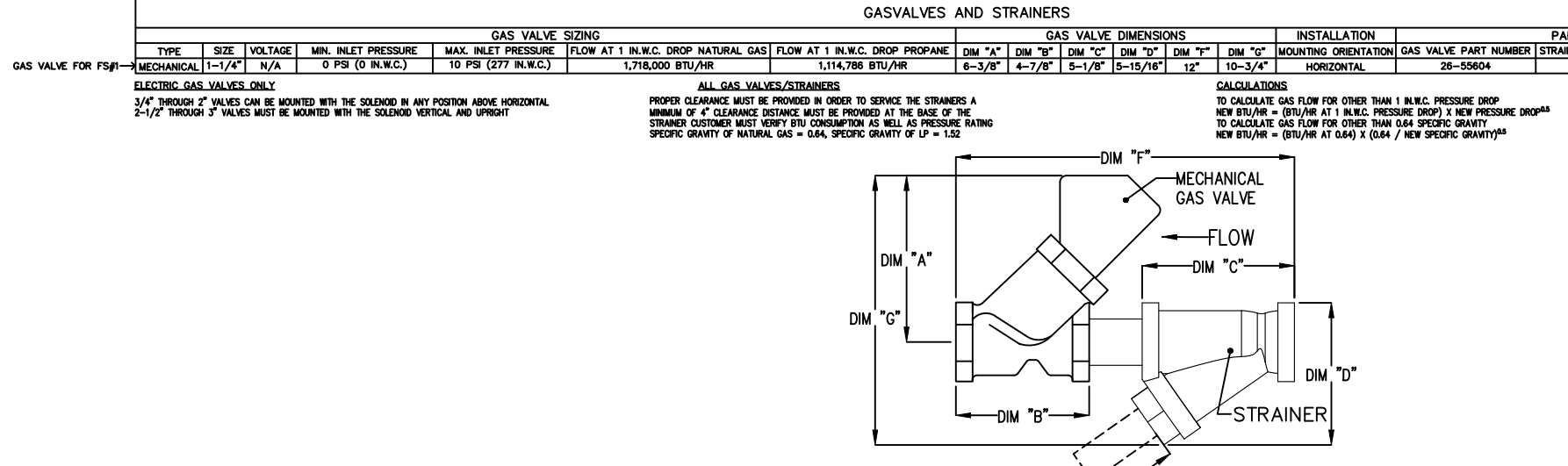
EXHAUST FAN INFORMATION - Job#2561558  
FAN TAG, FAN UNIT MODEL #, RPM, CFM, H.P., B.H.P., VOLT, F.A., WEIGHT (LBS.), QWES  
FAN OPTIONS  
FAN ACCESSORIES  
CURB ASSEMBLIES



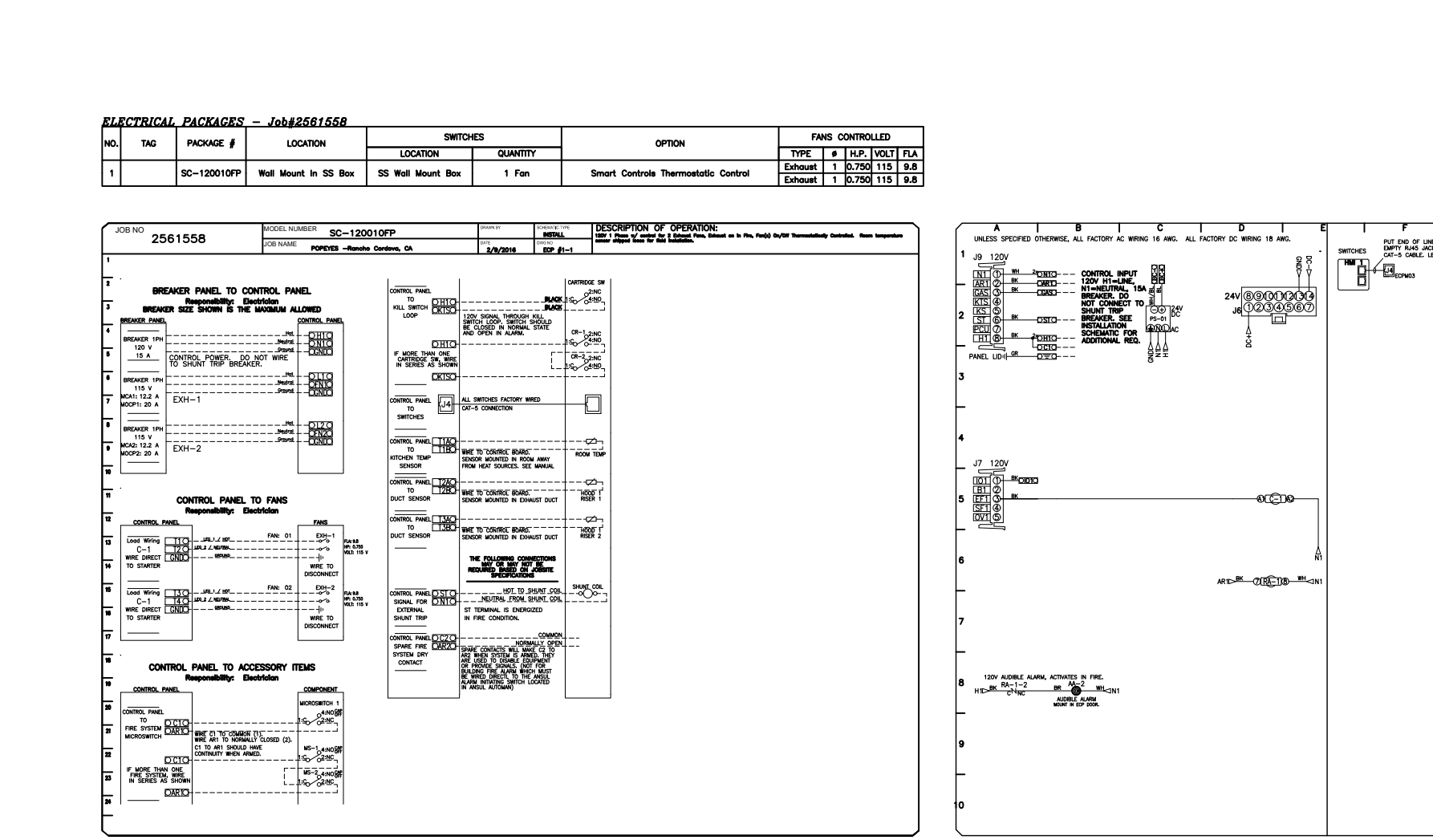
POPEYES - 2016 6VAT DL  
TBD  
DATE: 2/9/2016  
DWG #: 2561558  
DRAWN BY: J. T. POPEYES  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING  
SHEET NO. 2

POPEYES - 2016 6VAT DL  
TBD  
DATE: 2/9/2016  
DWG #: 2561558  
DRAWN BY: J. T. POPEYES  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING  
SHEET NO. 4

INCLUDES FIELD INSTALLATION AND HOODUP DURING NORMAL BUSINESS HOURS BY CAPTIVEAIR INSTALLERS ONLY IN THE LOCATION NOTED ABOVE. TWO SITE VISITS ONLY (ONE VISIT TO SET FULL STATION A SYSTEM HOODUP AND ONE VISIT FOR ONE TEST ADDITIONAL VISITS WILL BE REQUIRED IN ADDITIONAL CHARGES). MECHANICAL GAS VALVE FOR SYSTEM AT A MAXIMUM SIZE OF 2" PIPING AND SYSTEM TEST.  
EXCLUDES: HOOD VALVE & PROWING WIDE FLANGE & VALVE WILL BE ADDED IF APPLICABLE. GAS VALVE INSTALLATION, ELECTRICAL HOODUP AND CONNECTIONS, WELDING OF THE CABINET, SHIRT TIE, HANGERS EXTENDING OUTSIDE, ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.



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 (17-A-101-30)  
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MOV MECHANICAL GAS VALVE  
EDV ELECTRICAL GAS VALVE  
34 REMOTE MANUAL FULL STATION  
S SWIVEL ADAPTOR



System Design Verification (SDV)  
If ordered, CAS Service will perform a System Design Verification (SDV) once all equipment has had a complete start up per the Operation and Installation Manual. Typically, the SDV will be performed after all inspections are complete.  
Any field related discrepancies that are discovered during the SDV will be brought to the attention of the general contractor and corresponding trades on site. These issues will be documented and forwarded to the appropriate sales office. If CAS Service has to resolve a discrepancy that is a field issue, the general contractor will be notified and billed for the work. Should a return trip be required due to any field related discrepancy that cannot be resolved during the SDV, there will be additional trip charges.  
During the SDV, CAS Service will address any discrepancy that is the fault of the manufacturer. Should a return trip be required, the general contractor and appropriate sales office will be notified. There will be no additional charges for manufacturer discrepancies.

POPEYES - 2016 6VAT DL  
TBD  
DATE: 2/9/2016  
DWG #: 2561558  
DRAWN BY: J. T. POPEYES  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING  
SHEET NO. 3

POPEYES - 2016 6VAT DL  
TBD  
DATE: 2/9/2016  
DWG #: 2561558  
DRAWN BY: J. T. POPEYES  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING  
SHEET NO. 5

slate ARCHITECTURE  
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PROFESSIONAL MECHANICAL CONTRACTOR  
BRAD R. MOSTEK  
E-11649  
3-1-2023  
STATE OF NEBRASKA

REVISIONS  
1 03.01.2023 REV. 01

POPEYES  
NEW CONSTRUCTION  
3430 NORTH 167TH STREET  
OMAHA, NE 68116

LOUISIANA KITCHEN

POPEYES

Project No | 021-01872  
Issue Date | 12-16-2022

Captiveaire  
Details

Sheet No. M7

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2111 South 67th Street, Suite 200  
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USER: adevney  
\\oa.ad.oconconsulting.com\mnts-nst\Projects\2021\01501-02000\021-01872\40-Design\AutoCAD\Final Plans\Sheets\MECH\Mechanical\VP\_NSPEC\_02101872.dwg  
XREFS: o\_rntb\_02101872  
DATE: Mar 08, 2023 11:51am

GENERAL NOTES:

- PLUMBING CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PRECEDES WITH A MINIMUM OF INTERFERENCE WITH OTHER TRADES.
- VERIFY EXACT ROUGH-IN AND FINAL EQUIPMENT REQUIREMENTS IN FIELD.
- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO PLUMBING FIXTURES AND KITCHEN EQUIPMENT. THIS INCLUDES, BUT NOT LIMITED TO, FURNISHINGS AND INSTALLING ALL TRAPS, DRAINS AND SUPPLIES WITH STOPS.
- THE PLUMBING CONTRACTOR SHALL VERIFY THAT ALL PIPING, AS SHOWN ON THESE DRAWINGS WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, EQUIPMENT, ETC.
- COORDINATE ROUTING AND LOCATIONS OF WASTE AND VENT PIPING WITH ALL OTHER TRADES.
- THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES. ALL REQUIRED OPENINGS AND EXCAVATIONS. FLOORS, WALLS, AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO MINIMUM.
- ALL ITEMS PROJECTING THROUGH ROOFS SHALL BE FLASHED, A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10' FROM ANY OUTSIDE AIR INTAKE.
- ALL FLOOR DRAINS SHALL HAVE 6" DEEP SEAL TRAPS.
- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING WATER SUPPLY TO THE COFFEE MAKERS TEA BREWERS AND ICE MACHINES.
- 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.
- INSULATE ALL WATER AND WASTE PIPING UNDER LAVATORIES WITH HANDY-SHIELD JACKET BY PLUMBEREX: (619) 633-1772.
- POT SINKS TO BE ANCHORED TO WALL AND SEALED WITH SILICONE CAULKING.
- 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.
- PLUMBING CONTRACTOR TO PROVIDE AND INSTALL SHUTOFF COCKS, QUICK DISCONNECTS AND FLEXIBLE LINES AT GAS EQUIPMENT.
- PROVIDE VACUUM BREAKERS AT FIXTURES WITH HOSE THREAD CONNECTIONS.
- PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS.
- PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS.
- LAVATORY FAUCETS SHALL LIMIT HOT WATER FLOW TO 0.5 GPM AND HOT WATER TEMPERATURE TO 110°F
- PROVIDE 1"Ø SCH 40 BLACK STL PIPE FOR GREASE DISCHARGE. RUN LINE FLUSH ON WALL BESIDE FRYERS, VERTICALLY UP IN WALL THRU CLG. SLOPE LINE @ 1/4"FT TOWARDS REAR OF BUILDING. RUN LINE DOWN THRU CEILING ON FACE OF EXTERIOR WALL TO 75" AFF THEN THRU REAR WALL FOR DISCHARGE. HEAT TAPE TO 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). REFER TO DETAIL 7/P4.

SPECIFICATIONS:

SECTION 15A: PLUMBING

GENERAL PROVISIONS

- SCOPE: PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING PLUMBING SYSTEM FOR THE BUILDING.

OBTAIN WATER, SEWER, GAS TAPS, AND ANY OTHER REQUIRED UTILITIES AND EXTEND SERVICE FROM SAME TO BUILDING AS SHOWN ON DRAWINGS. VISIT THE SITE FOR UNDERSTANDING OF THE WORK TO BE DONE BEFORE SUBMITTING BID. REFER TO CIVIL DWGS FOR SITE UTILITIES.

COORDINATE THIS WORK WITH THE WORK OF THE OTHER TRADES ON THE PROJECT. ALL PLUMBING IS TO BE ROUGHED IN WHILE THE BUILDING IS BEING CONSTRUCTED AT SUCH TIMES AS NOT TO DELAY THE GENERAL CONTRACTOR ON THE BUILDING.

- GENERAL REQUIREMENTS: COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS, CODES, RULES, AND ORDINANCES GOVERNING WORK ON THIS CHARACTER. PAY FOR AND OBTAIN NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION.

A. DRAWINGS: THE LOCATION OF THE PIPING RUNS ARE APPROXIMATE AND THE CONTRACTOR MUST MAKE ANY NECESSARY CHANGES IN THE PIPING RUNS, ETC., AND AT NO ADDITIONAL COST TO THE OWNER. OUTLET LOCATIONS ARE CRITICAL AND MUST BE LOCATED EXACTLY ACCORDING TO THE PLUMBING PLAN. COORDINATE THIS WORK WITH THE INSTALLERS OF EQUIPMENT FURNISHED AND INSTALLED BY OTHERS. REFER TO THE OTHER DRAWINGS FOR DETAILS OF THE BUILDING CONSTRUCTION AND THE OTHER MECHANICAL, ELECTRICAL, AND EQUIPMENT FEATURES.

B. COORDINATION AND WORKMANSHIP: SCHEDULE THIS WORK SO THAT IT WILL BE PROPERLY COORDINATED WITH ALL OTHER TRADES. WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE FOR THE CLASS OF WORK INVOLVED. WORKMANSHIP SHALL ALLOW THE APPLIANCE TO OPERATE AS INTENDED AND BE INSTALLED TO BEST PROTECT THE PUBLIC AND OPERATORS FROM INJURY OR DAMAGE, AND TO PRESENT A NEAT, PLEASING, AND ORDERLY APPEARANCE.

MATERIALS AND PERFORMANCE

- MATERIALS: ALL MATERIALS SHALL BE NEW AND OF THE QUALITY INDICATED BY THE SPECIFIED BRAND NAMES. SUBSTITUTIONS OF MATERIAL OF EQUAL QUALITY BY OTHER FIRST-LINE MANUFACTURERS MAY BE ACCEPTABLE PROVIDED A LIST OF SUCH SUBSTITUTIONS IS APPROVED IN WRITING BY MRP'S ARCHITECTURE AND ENGINEERING DEPARTMENT. A SUBSTITUTIONS LIST SHALL BE SUBMITTED IN TRIPLICATE WITHIN FIVE (5) DAYS AFTER THE CONTRACT IS LET.

2. BACKFILLING: PERFORM ALL NECESSARY EXCAVATING AND BACKFILLING REQUIRED FOR THIS INSTALLATION. PREPARE A PROPER BED OF SAND OR GRAVEL OR EQUIVALENT IN ROCK SCREENING SO AS TO ELIMINATE SHIMMING AND VOID SPACE UNDER ANY OF THE UTILITY SERVICE PIPES. BENDING OF ANY HARD PIPE WILL NOT BE PERMITTED. WHERE A CHANGE IN DIRECTION IS NECESSARY ON PRESSURE PIPES, "COMPATIBLE" COUPLINGS OR EQUAL SHALL BE USED AND BENDS MAY NOT EXCEED 90 DEGREES. ALL EXCAVATION BELOW THE BOTTOM OF FOOTINGS SHALL BE BACKFILLED WITH 2000 PSI CONCRETE. OTHER BACKFILL SHALL CONSIST OF 2-3" OF SAND OR ROCK SCREENINGS AND EARTH TO A FINAL LEVEL EQUAL TO ITS ORIGINAL CONDITION. IN THE EVENT THE BACKFILL SHOULD SETTLE BEFORE THE FINAL TOP SURFACE IS APPLIED, APPLY ADDITIONAL BACKFILL TO SUSTAIN THE ORIGINAL LEVEL. CARE SHOULD BE TAKEN TO ADDITIONAL BACKFILL TO SUSTAIN THE ORIGINAL LEVEL. CARE SHOULD BE TAKEN TO MINIMIZE THE DUST LEVEL WHEN EXCAVATING AND BACKFILLING SO AS TO COMPLY WITH FEDERAL AND STATE E.P.A. REGULATIONS RELATING TO THIS TYPE OF WORK (FUGITIVE DUST).

3. PIPING INSTALLATION: CLEANOUTS MUST BE INSTALLED ON MINIMUM DROP LINES EVEN THOUGH NOT SHOWN ON THE PLANS. USE REDUCING FITTINGS IN MAKING REDUCTIONS IN SIZE OF PIPE. REAM ALL PIPE AFTER CUTTING, THEN TURN PIPES ON END AND KNOCK OUT ALL LOOSE DIRT AND SCALE BEFORE INSTALLING. MAKE CHANGES IN HORIZONTAL DIRECTION OF PIPES WITH LONG RADIUS FITTINGS OR WITH COMBINATION "Y" BRANCHES AND 1/8TH BENDS. CONNECT SOIL STACKS AT BASE TO HORIZONTAL RUNS WITH COMBINATION "Y" AND 1/8TH BENDS.

WATER SUPPLY PIPES TO FIXTURES AND WASTE PIPES FROM FIXTURES SHALL BE CENTERED IN THE PROPER PLACE RELATIVE TO THE CENTER LINE OF THE FIXTURE. NO OFFSETS WILL BE ALLOWED. ALL PIPES SHALL BE RUN MECHANICALLY STRAIGHT AND SQUARE WITH BUILDING LINES, EXCEPT FOR REQUIRED PITCH ON HORIZONTAL LINES, AND ALL CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS. WATER PIPING TO BE ROUTED IN WALLS, UNDER THE FLOOR SLAB, AND ABOVE SUSPENDED CEILINGS AS NOTED. WHERE WATER LINES ARE ROUTED UNDER THE FLOOR SLAB, NO MECHANICAL JOINTS SHALL BE MADE UNDER THE SLAB EXCEPT AS LISTED BELOW. WATER PIPING SHALL BE INSTALLED NOT TO EXERT VERTICAL NOR HORIZONTAL STRESSES ON THE SEATING OF UNIONS, UNIONS SHALL BE COPPER TYPE NIBCO #733 OR EQUAL.

NO WAX, PUTTY, OR VARNISH WILL BE PERMITTED. CRACKED FITTINGS SHALL BE REMOVED AND REPLACED WITH NEW FITTINGS. MAKE THREADED JOINTS IN BRASS PIPE AND FITTING WITH PIPE THREADING TO THE SHOULDER OF THE FITTINGS. NO SLIP JOINTS OR COUPLING JOINTS IN BRASS PIPE WILL BE PERMITTED, EXCEPT ON THE FIXTURE SIDE OF THE TRAP.

- NATURAL GAS PIPING: FOR ABOVEGROUND INSTALLATIONS, ALL FITTINGS TO BE JOINED WITH TEFLON TAPE SEAL OR OTHER SUITABLE SEAL AND MADE IN CONFORMANCE WITH THE BEST PRACTICES OF AGA AND NFPA 54. UNIONS SHALL BE CAST BLACK IRON AND INSTALLED IN A MANNER SUCH THAT NO STRESS WILL BE PLACED ON THE MALE-FEMALE SEALING SURFACES. PROPER ALIGNMENT WILL BE MADE AT TIME OF INSTALLATION. ALL JOINTS AND CONNECTIONS SHALL BE THOROUGHLY CLEANED OF OIL, THREAD CUTTINGS AND RESIDUALS TO ACCEPT ENAMEL PAINT. ROUGH OR SHARP EXPOSED THREAD SURFACES SHALL BE FILED SMOOTH. TESTING SHALL BE AS OUTLINED UNDER SECTION 15A, PARAGRAPH II, TESTS.

A. MATERIALS: BLACK CARBON STEEL, SCH. 40 WITH MALLEABLE IRON THREADED FITTINGS.

B. PAINTING: PAINT ALL GAS PIPING EXPOSED TO WEATHER WITH ONE COAT OF PRIMER, AND TWO COATS OF RUST-PROOF PAINT. COLOR SHALL MATCH BUILDING COLORS. COORDINATE WITH G.C.

- WATER PIPE:

WATER METER & BACKFLOW REQUIREMENTS SHALL BE IN ACCORDANCE W/ LOCAL CODES & UTILITY COMPANIES. REFER TO CIVIL DRAWINGS FOR METER, SERVICE LINES, AND CONTAINMENT BACKFLOW PREVENTER.

JOINTS SHALL BE CLEANED AND DEBURRED AS RECOMMENDED BY THE MANUFACTURER AND FEDERAL, STATE AND LOCAL CODES AND SOLDERED AS LISTED BELOW. FLUX SHALL BE NON-CORROSIVE. ALL PIPE JOINT MATERIALS SHALL BE LEAD-FREE.

ABOVE GRADE - WHERE FITTINGS ARE SOLDERED BOTH FITTINGS AND TUBING SHALL BE CLEANED AS DESCRIBED ABOVE. UNDER NO CIRCUMSTANCES SHALL DISSIMILAR METALS COME INTO DIRECT CONTACT WITH COPPER TUBING, E.G., GALVANIZED STRAPPING, HANGERS, OR CLAMPS TO SECURE THE TUBING.

BELOW GRADE, OR FLOOR SLAB ON EARTH OR STONE FILL - HIGH TEMPERATURE, SOLDER, 1200 DEG. F OR GREATER MELTING POINT.

NOTE: WATER PIPE TO BE PROPERLY SECURED AND ALIGNED SO AS NOT TO

EXERT VERTICAL OR HORIZONTAL STRESSES ON THE SEATING OF THE MATING (MALE AND FEMALE) SURFACES OF THE UNIONS.

A. MATERIALS - UNDERGROUND: TYPE "K" COPPER TUBE, SOFT TEMPER

B. MATERIALS - ABOVEGROUND: TYPE "L" COPPER TUBE, HARD DRAWN

C. INSULATION: INSULATION FOR HOT AND COLD WATER PIPING SHALL BE 1/2" THICK ARMAFLEX UL LABELED OR 1" FIBERGLASS 25/50 WITH ASJ/SSL FOIL/VINYL JACKET OR EQUAL. INSULATE ALL PIPING AND FITTINGS.

6. WASTE PIPING: INSTALL HORIZONTAL DRAIN AND WASTE PIPES WITH 1/4" FT. SLOPE.

A. ALL SANITARY WASTE AND CONDENSATE DRAIN PIPES IN BUILDING ABOVE GROUND AND VENTS ABOVE GROUND SHALL BE CAST IRON PIPE (BELL & SPIGOT OR HUBLESS WITH 304 STAINLESS STEEL COUPLING).  
B. UNDERGROUND DRAINAGE AND VENT PIPING INSIDE THE BUILDING SHALL BE SERVICE WEIGHT HUB AND SPIGOT CAST IRON SOIL PIPE, THOROUGHLY COATED WITH COAL TAR VARNISH INSIDE AND OUTSIDE, CONFORMING TO ASTM A74 AND CS18B AND BEARING THE MARK OF THE CAST IRON SOIL PIPE INSTITUTE.

C. INSULATION: INSULATE ALL ABOVEGROUND INDIRECT OR CONDENSATE DRAIN LINES COLLECTING COLD CONDENSATE FROM REFRIGERATION OR HVAC EQUIPMENT. INSULATION SHALL BE 1/2" THICK ARMAFLEX, OR EQUAL.

7. HEAT TRACING: HEAT TRACE ALL CONDENSATE DRAIN LINES INSIDE COOLERS AND FREEZERS AT 5 WATTS/LINEAR FOOT (MINIMUM).

8. PIPE SLEEVES/ESCUTCHEONS: PROVIDE CHROME-PLATED ESCUTCHEONS ON ALL PIPES PASSING THROUGH WALLS, FLOORS, OR CEILINGS OF FINISHED ROOMS. ESCUTCHEONS TO BE BEATON & CADWELL, #10, 40, 6A OR EQUIVALENT WITH SET-SCREWS. PROVIDE ESCUTCHEONS ON ALL WASTE LINES FROM PLUMBING FIXTURES, WHETHER THROUGH WALLS, FLOORS, AND WHETHER CONCEALED BEHIND COUNTERS OR EXPOSED. PIPE SLEEVES SHALL BE PROVIDED WHEN PIPES PENETRATE FOUNDATION AND SHALL BE 1" LARGER THAN PIPE, SEAL SLEEVE WITH CAULKING.

9. PLUMBING FIXTURES: FURNISH AND INSTALL PLUMBING FIXTURES AS SHOWN ON DRAWINGS WITH ALL ACCESSORIES AND TRIM AS LISTED. ALL FIXTURES SHALL BE PROTECTED THROUGH THE COURSE OF THE CONSTRUCTION. ANY FIXTURE DAMAGED SHALL BE REPLACED WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

10. CONNECTION TO OTHER FIXTURES: CONNECT BUILDING SERVICE PIPING, INCLUDING BUT NOT LIMITED TO WATER, DRAIN, AND GAS PIPES TO FOOD SERVICE EQUIPMENT AS INDICATED IN EQUIPMENT SPECIFICATIONS. PROVIDE BACKFLOW PROTECTION ON ICE MACHINES AND BEVERAGE EQUIPMENT SUPPLY CONNECTIONS.

11. TESTS:

A. DRAINAGE AND VENT PIPING - DRAINAGE AND VENT PIPING SHALL BE TESTED BEFORE THE PLUMBING FIXTURES ARE INSTALLED BY CAPPING THE OPENINGS AND FILLING THE ENTIRE SYSTEM WITH WATER AND ALLOWING IT TO STAND THIS FILLED NOT LESS THAN ONE (1) HOUR. INSPECT WATER LEVEL TO DETERMINE IF PIPING IS TIGHT.

B. WATER PIPING - THE WATER SUPPLY PIPING LINES SHALL BE TESTED BEFORE THE PLUMBING FIXTURES ARE CONNECTED BY FILLING THE ENTIRE SYSTEM WITH POTABLE WATER AND APPLYING HYDROSTATIC PRESSURE OF 100 PSI AND ALLOWING TO STAND FOR NOT LESS THAN FOUR (4) HOURS AT THIS PRESSURE TO PROVE PLUMBING INTEGRITY.

C. GAS PIPING - IN LIEU OF LOCAL REQUIREMENTS, GAS PIPING SHALL BE FILLED WITH COMPRESSED AIR TO 150 PSI AND HELD FOR A PERIOD OF FOUR (4) HOURS. EACH JOINT SHALL BE CHECKED BY LIQUID SOAP OR SPECIAL LIQUID CHEMICAL FOR LEAKS. NOTE: REMOVE ALL GAS VALVES AND PROTECT FROM DAMAGE BEFORE TESTING SYSTEM.

12. DISINFECTION OF POTABLE WATER SYSTEM: UPON COMPLETION OF INSTALLATION DISINFECT THE WATER SYSTEM BY FILLING IT WITH SOLUTION CONTAINING 50 PARTS PER MILLION OF CHLORINE AND ALLOW IT TO STAND FOR NOT LESS THAN SIX (6) HOURS BEFORE FLUSHING THOROUGHLY AND RETURNING TO SERVICE. FURNISH CLEAN WATER SAMPLES TO THE LOCAL AUTHORITY FOR TESTING AFTER THE LINES HAVE BEEN DISINFECTED. THIS PROCEDURE TO BE IN ACCORDANCE WITH STATE PLUMBING CODE.

13. CLEANUP: CLEAN ALL PLUMBING FIXTURES AND EQUIPMENT THOROUGHLY BEFORE FINAL INSPECTION, LEAVING ALL READY FOR USE.

14. EXTENDED WARRANTY: WARRANT IN WRITING ANY EQUIPMENT OR MATERIALS USED IN THE INSTALLATION HAVING AN EXTENDED WARRANTY AS OFFERED BY THE MANUFACTURER. PROVIDE NEW OR REBUILD ASSEMBLIES TO THE SITE FOR ANY SUCH EQUIPMENT OR MATERIALS WHICH FAIL DURING THIS PERIOD, AND INSTALL AT NO ADDITIONAL COST TO THE OWNER.

15. OWNER'S MANUAL: PROVIDE THE OWNER, AT THE COMPLETION OF THIS CONTRACT, WITH AN "OWNER'S MANUAL" SO LABELED. A SECOND LIKE MANUAL SHALL BE PREPARED AND FORWARDED TO THE MRP'S ARCHITECTURE AND ENGINEERING DEPARTMENT FOR "JOB RECORDS". THE MANUAL SHALL CONSIST OF A THREE-RING LOOSE-LEAF BINDER CONTAINING ALL PRINTED MATTER SUCH AS: GUARANTEE CARDS, CLEANING INSTRUCTIONS, NOTICES TO OWNER, OPERATING MANUALS, AND MAINTENANCE INSTRUCTIONS THAT MAY BE CONTAINED IN THE SHIPPING CARTONS OR HOUSING OF EQUIPMENT AND ARCHITECTURAL SPECIALTIES.

PLUMBING SYMBOL LEGEND

	SANITARY WASTE PIPING
	GREASE WASTE PIPING
	VENT PIPING
	COLD WATER PIPING
	HOT WATER PIPING
	FILTERED WATER PIPING
	GAS PIPING
	INDIRECT WASTE PIPING/CONNECTION
	CONDENSATE WASTE PIPING
	GATE VALVE
	GAS SOLENOID VALVE
	CHECK VALVE
	GAS VALVE
	UNION
	KITCHEN EQUIPMENT ITEM NO.
	FLOOR DRAIN
	HUB DRAIN
	FLOOR DRAIN
	FLOOR SINK
	GRADE CLEAN OUT
	FLOOR CLEAN OUT
	WALL CLEAN OUT
	VENT THRU ROOF
	FLOOR CLEAN OUT
	GRADE CLEAN OUT
	WALL CLEAN OUT
	FLOOR DRAIN
	FLOOR SINK
	HUB DRAIN
	ABOVE FINISH FLOOR



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1 03.01.2023 REV. 01

POPEYES  
NEW CONSTRUCTION  
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POPEYES

Project No. | 021-01872  
Issue Date | 12-16-2022

Plumbing  
Specifications  
And Notes

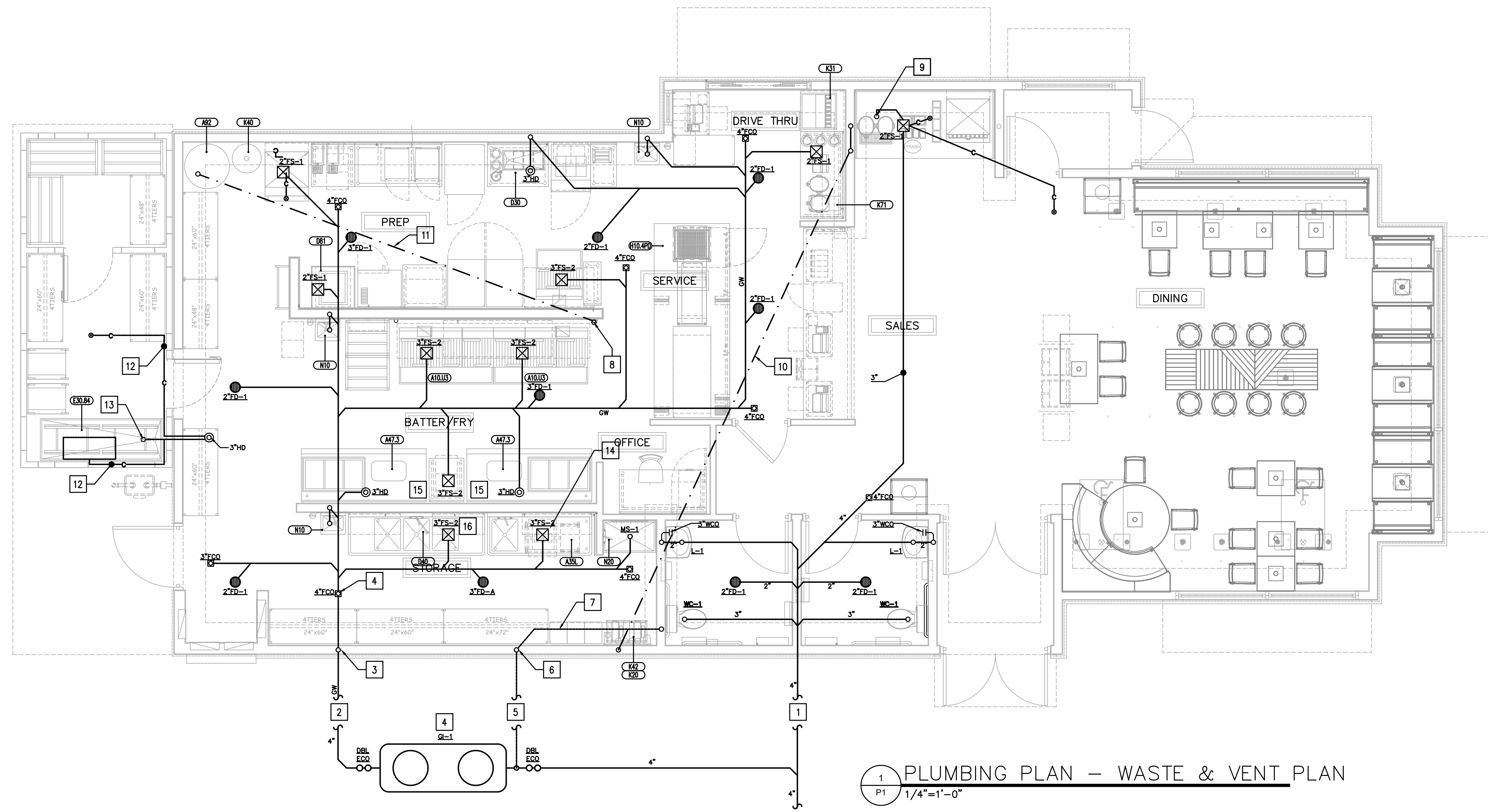
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1 PLUMBING PLAN - WASTE & VENT PLAN  
1/4"=1'-0"

### PLAN NOTES

- 1 4" SANITARY WASTE PIPING. SEE CIVIL ENGINEERING DRAWINGS FOR CONTINUATION. COORDINATE EXACT INVERT ELEVATION WITH SITE CONDITIONS.
- 2 4" GREASE WASTE PIPING. SEE CIVIL ENGINEERING DRAWINGS FOR CONTINUATION. COORDINATE EXACT INVERT ELEVATION WITH SITE CONDITIONS.
- 3 4" VENT UP IN WALL FURRING.
- 4 CERTIFIED GREASE INTERCEPTOR, SCHIER B-250, 100 GPM RATED FLOW, 1,895 LBS GREASE HOLDING CAPACITY AT 96.7% EFFICIENCY. SEE DETAIL 13 ON SHEET P4. GREASE INTERCEPTOR SIZED PER 2015 OMAHA PLUMBING CODE: CATEGORY C, NO FLATWARE, OPEN FOR THREE MEALS. 46 SEATS X 4.2 = 193.2 LBS OF GREASE
- 5 3" VENT BELOW GRADE FROM GREASE TRAP.
- 6 3" VENT UP IN WALL FURRING.
- 7 OFFSET VENT LINES ABOVE CEILING, AND ROUTE TO VTRs AT LOCATIONS SHOWN, TO AVOID O.A. INTAKE FOR RTUs.
- 8 GREASE DISPOSAL LINE MOUNTED FLUSH AGAINST WALL @ 3'-0" AFF (SEE DETAIL 7/P4). G.C. SHALL PROVIDE STAINLESS STEEL COVER TO CEILING - SEE GENERAL NOTE #18/PO.
- 9 ROUTE DRAINAGE TO SINK UNDER ITEM K-32.
- 10 3" PVC LINE RUN THROUGH CEILING FOR CO2 AND SODA LINES. COORDINATE WITH THE SODA INSTALLER.
- 11 PROVIDE HEAT TRACE TAPE ON EXPOSED GREASE LINE FROM BUILDING TO TANK. SEE GENERAL NOTE #18/PO.
- 12 3/4" CONDENSATE PIPING BRACED TO WALK-IN WALLS. SPILL W/INDIRECT CONNECTION INTO HUB DRAIN.
- 13 EXTEND CHICKEN VAT'S 2" COPPER INDIRECT WASTE LINE THROUGH COOLER WALL TO DISCHARGE INTO HUB DRAIN.
- 14 PROVIDE 1 1/2" INDIRECT WASTE FROM 1 COMPARTMENT SINK TO FLOOR SINK.
- 15 PROVIDE DRAIN LINE FROM REFRIGERATED BATTER TABLES TO HUB DRAIN.
- 16 PROVIDE 2" INDIRECT WASTE FROM 3 COMPARTMENT SINK TO FLOOR SINK.

### PLUMBING LEGEND

	CONDENSATE DRAIN
	DOMESTIC COLD WATER PIPING
	EXIST. DOMESTIC COLD WATER
	DOMESTIC HOT WATER PIPING
	EXIST. DOMESTIC HOT WATER
	FW FILTERED WATER
	HOT WATER RECIRC
	VENT PIPING
	WASTE (SANITARY SEWER)
	EXIST. WASTE (SANITARY SEWER)
	GW GREASE WASTE
	EXIST. GREASE WASTE
	GAS PIPING
	GAS VALVE
	GAS SOLENOID VALVE
	GATE VALVE
	BALANCING VALVE
	CHECK VALVE
	UNION
	PIPE UP
	PIPE DOWN
	FLOOR DRAIN
	HUB DRAIN
	FLOOR SINK
	FLOOR CLEAN OUT
	GRADE CLEAN OUT
	WALL CLEAN OUT
	KITCHEN EQUIPMENT ITEM NUMBER
	FIXTURE DESIGNATION
	ABOVE FINISHED FLOOR
	PLUMBING SUB-CONTRACTOR
	GENERAL CONTRACTOR
	MECHANICAL SUB-CONTRACTOR
	ELECTRICAL SUB-CONTRACTOR
	FLOOR CLEAN OUT
	WALL CLEAN OUT
	GRADE CLEAN OUT
	HOSE BIBB
	FLOOR DRAIN
	FLOOR SINK
	HUB DRAIN
	COLD WATER
	HOT WATER
	TEMPERED WATER
	FILTERED WATER
	AIR ADMITTANCE VALVE (STUDOR VENT)
	TIE INTO EXISTING

NOT ALL SYMBOLS AND ABBREVIATIONS IN THIS LEGEND WILL APPEAR IN DRAWING.

### PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	CONN.			MANUFAC. & MODEL	DESCRIPTION	MARK	FIXTURE	CONN.			MANUFAC. & MODEL	DESCRIPTION
		W	CW	HW					W	CW	HW		
WC-1	WATER CLOSET FLOOR MOUNTED FLUSH VALVE ADA	4"	1-1/4"	-	KOHLER "HIGHCLIFF" K-4388	ELONGATED, VITREOUS CHINA BOWL WITH SIPHON-JET DESIGN. FLOOR MOUNTED. 1-1/2" TOP SPUD, FLOOR OUTLET, 1.6 GPF, ADA-COMPLIANT.	HD-1	HUB DRAIN	3"	-	-	-	SEE DETAIL SHEET P4
						INCLUDE BOLT CAPS MATCHING FIXTURE, KOHLER "LUSTRA" K-4670-C, ELONGATED SEAT, OPEN FRONT, NO LID (WHITE).	FCO	FLOOR CLEANOUT	4"	-	-	ZURN Z-1400	ADJUSTABLE FLOOR CLEANOUT, CAST IRON BODY, WITH GAS AND WATER-TIGHT ABS TAPERED THREAD PLUG AND ROUND SCORIATED SECURED HEAVY DUTY TOP, ADJUSTABLE TO FINISH FLOOR.
						SLOAN ROYAL MODEL 111 MANUAL-OPERATED FLUSHOMETER, 1.6 GPF, ADA COMPLIANT, WITH CHROME-PLATED EXPOSED PIECES.	GOO	GRADE CLEANOUT	4"	-	-	ZURN Z-1400-HD	ADJUSTABLE FLOOR CLEANOUT, DURACOATED CAST IRON BODY, WITH GAS AND WATER-TIGHT ABS TAPERED THREAD PLUG, AND SQUARE TOP WITH ROUND SCORIATED SECURED HEAVY DUTY TOP, ADJUSTABLE TO FINISH FLOOR.
L-1	LAVATORY WALL HUNG ADA	1-1/2"	1/2"	1/2"	KOHLER "KINGSTON" K-2005	WHITE, VITREOUS CHINA, FRONT OVERFLOW, D-SHAPED BOWL, FAUCET HOLES SHALL BE 4" ON CENTER. BOWL DIMENSION OF 16"x10". PROVIDE WITH FIXTURE CARRIER, CHROME-PLATED COPPER SUPPLIES, PROVIDE 1-1/2" CHROME-PLATED CAST-BRASS TRAP WITH CLEANOUT AND WALL ESCUTCHEONS. KOHLER CORALIS K-15593 FAUCET, ADA-COMPLIANT, CHROME-PLATED, SINGLE LEVER HANDLE FAUCET, 1.2 GPM AERATOR, AND CHROME PLATED BRASS GRID STRAINER. COVER EXPOSED HOT AND COLD SUPPLIES AND WASTE PIPING WITH PROTECTIVE SHIELDING GUARD, TRUEBRO INSULATED VINYL PIPE COVERS WITH ANTI-MICROBIAL, REUSABLE FASTENERS	WCO	WALL CLEANOUT	SEE RISER	-	-	ZURN Z-1446	CLEANOUT TEE, DURACOATED CAST IRON BODY, GAS AND WATER-TIGHT, ABS TAPERED THREAD PLUG AND ROUND, SMOOTH STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW.
							WHD	WALL HYDRANT	-	3/4"	-	WOODFORD MODEL 65	ANTI-SIPHON, AUTO DRAINING, W/ VACUUM BREAKER, FREEZELESS WALL HYDRANT, 3/4" MALE HOSE THREAD NOZZLE
FD-1	FLOOR DRAIN	3"	-	-	ZURN Z-415	CAST IRON TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, REVERSIBLE CLAMPING COLLAR, NICKEL BRONZE ADJUSTABLE STRAINER, TRAP PRIMER CONNECTION FOR DRAINS LOCATED IN RESTROOMS	MS-1	MOP SINK W/FAUCET	3"	1/2"	1/2"	FIAT MSB 3624	MOLDED STONE 36X24, FAUCET W/VACUUM BREAKERS, 830-AA, BASE & BRACKET 832-AA.
FS-1	FLOOR SINK	3"	-	-	ZURN Z-1910	8x8x6 DEEP CAST IRON BODY AND SQUARE SLOTTED MEDIUM DUTY GRATE, WITH WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP. COMPLETE WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER, 3/4 GRATE.	K32 (x2)	WATER HEATER	-	1"	1"	RINNAI CU199IN	TANKLESS NATURAL GAS, 199 MBH INPUT, 96% THERMAL EFFICIENCY, CONDENSING WATER HEATER, 4.25 GPM @ 90°F RISE. PROVIDE WITH MODEL MCC WALL MOUNTED CONTROLLER FOR DUAL MANIFOLD SETUP. REFER TO DETAIL 9/P4.
FS-2	FLOOR SINK	3"	-	-	ZURN Z-1901	12x12x8 DEEP CAST IRON BODY AND SQUARE SLOTTED MEDIUM DUTY GRATE, WITH WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, COMPLETE WITH WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER, 3/4 GRATE.	GI-1	CERTIFIED GREASE INTERCEPTOR	4"	-	-	SCHIER GB-250	250 GALLON LIQUID CAPACITY, 1,895 LBS GREASE HOLDING CAPACITY, RATED FLOW OF 100 GPM AT 96% REMOVAL EFFICIENCY. SEAMLESS MOLDED POLYETHYLENE CONSTRUCTION, 24" H2O GAS-TIGHT CAST-IRON COVERS. PROVIDE RISERS AS REQUIRED TO MEET GRADE.

- NOTES:
1. VERIFY ALL CONNECTIONS & MOUNTING HEIGHTS WITH CODES, MANUFACTURERS, AND PLANS.
  2. SIZES LISTED INDICATE MIN. SIZE ONLY, SEE PLUMBING RISERS AND FLOOR PLANS FOR LARGER SIZES.
  3. ALTERNATE MANUFACTURERS: ZURN, JAY R SMITH, AMERICAN STANDARD, WADE, MI-FAB, WATTS, MOEN, CHICAGO FAUCETS

### PLUMBING FIXTURE SUMMARY

FIXTURE	QTY.	DRAIN				COLD WATER		HOT WATER	
		F.U.	SAN WASTE	GREASE WASTE	TOTAL F.U.	F.U. CW	TOTAL CW	F.U. HW	TOTAL HW
WATER CLOSET (WC-1)	2	4	8		8	5	10		
LAVATORY (L-1)	2	1	2		2	1	2	0.75	1.5
HAND SINK (N10)	3	2		6	6	2	6	1	3
PREP SINK (A35L) **	1					6	6	4.5	4.5
3-COMP SINK (D40) **	1					6	6	4.5	4.5
HOSE BIB (WHD)	3					5	10		
WATER FILTER	2					1	2		
FLOOR DRAIN (KITCHEN)	8	2		16	16				
FLOOR DRAIN (RESTROOMS)	2	2	4		4				
HUB DRAIN (HD)	4	2		8	8				
FLOOR SINK (FS-1, FS-2)	9	5		45	35				
MOP SINK (MS-1)	1	3		3	2	3	3	2.25	2.25
<b>TOTAL</b>		<b>14</b>	<b>78</b>	<b>92</b>		<b>45</b>		<b>15.75</b>	

BASED ON 2009 UNIFORM PLUMBING CODE  
 45.0 FU = 49.0 GPM USE 2" COLD WATER SERVICE  
 15.75 FU = 11.0 GPM USE 1" HOT WATER SERVICE  
 GREASE WASTE = 78 DFU USE 4" SANITARY (GREASE)  
 TOTAL SANITARY = 92 DFU USE 4" SANITARY  
 \*\* FIXTURE HAS INDIRECT WASTE TO FLOOR SINK.



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1 03.01.2023 REV. 01

**POPEYES**  
 NEW CONSTRUCTION  
 3430 NORTH 167TH STREET  
 OMAHA, NE 68116



POPEYES

Project No. | 021-01872  
Issue Date | 12-16-2022

Waste And Vent Plan

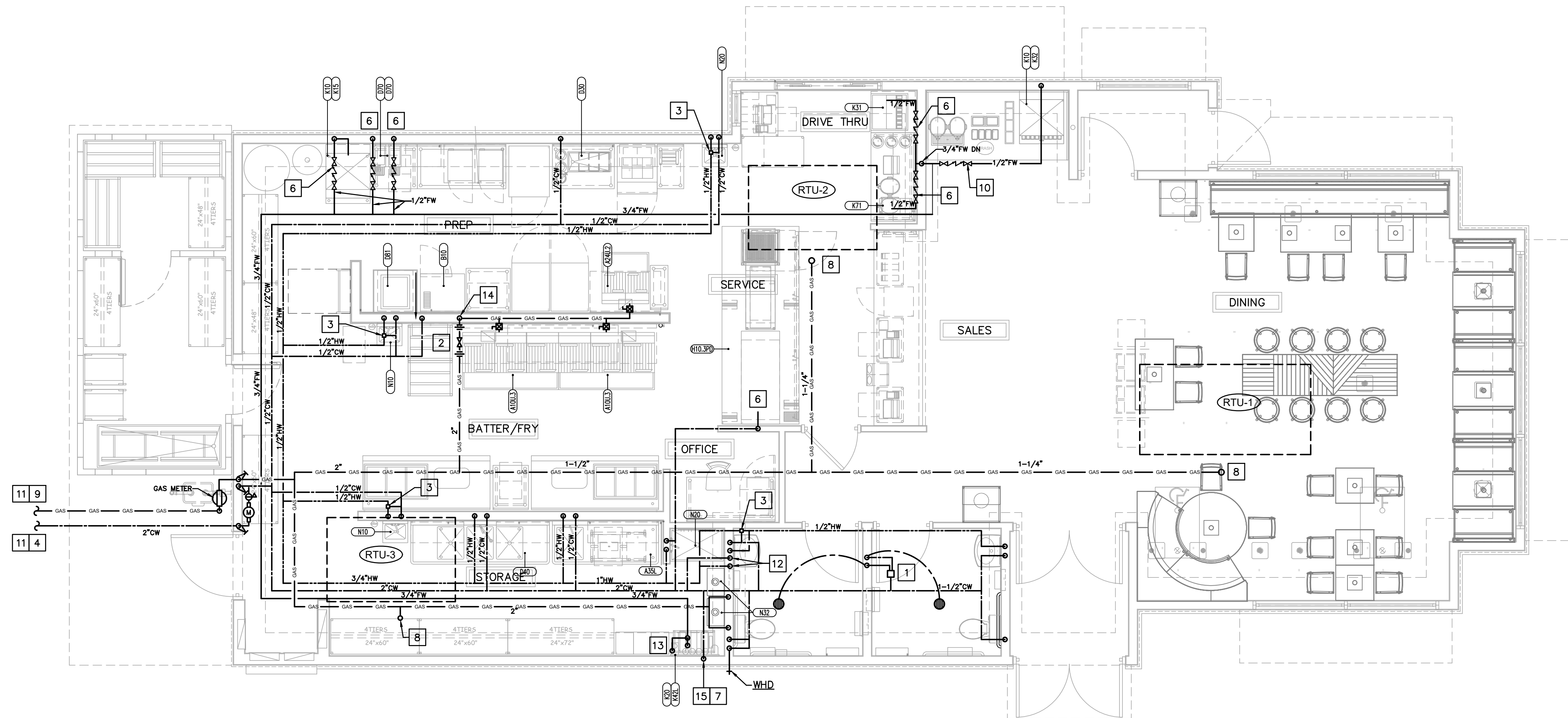
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**1** PLUMBING PLAN – WATER & GAS PLAN  
1/4" = 1'-0"

**PLAN NOTES**

- 1 TRAP PRIMER VALVE EQUAL TO PRECISION PLUMBING PRODUCTS OREGON-1, WITH 2-LINE DISTRIBUTION MANIFOLD. LOCATE IN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING. ROUTE 1/2" TYPE 1" SOFT COPPER TRAP-PRIMER LINES DOWN TO BELOW FLOOR TO CONNECTIONS TO FD-B.
- 2 1-1/2" AUTOMATIC GAS VALVE EXPOSED 6" BELOW CEILING HEIGHT. PROVIDED BY OWNER INSTALLED BY CONTRACTOR. INTERLOCK WITH HOOD SUPPRESSION SYSTEM. REDUCE FROM 2" AT INLET, AND INCREASE TO 2" AT OUTLET. PROVIDE 2" UNION ON INLET AND OUTLET.
- 3 TEMPERING VALVE SET AT 110°, LOCATE IN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING. REFER TO DETAIL 14/P4.
- 4 2" DOMESTIC WATER SERVICE, REFER TO DETAIL 10/P4.
- 5 NOT USED.
- 6 RUN 3/4" COLD WATER PIPING UNDER EQUIPMENT TO CONNECTIONS.
- 7 INSTALL 1/2" FPT ADAPTERS AND BOOSTERS BEFORE THE FILTRATION SYSTEM
- 8 GAS PIPING EXTENDED UP THRU ROOF TO HVAC UNIT SEE DETAIL 8/P4.
- 9 NATURAL GAS METER, UNDERGROUND GAS SERVICE LINE, AND GAS SERVICE REGULATOR BY LOCAL GAS COMPANY. COORDINATE INSTALLATION AND PAY ALL ASSOCIATED FEES. EXTEND 2 1/2" LOW PRESSURE GAS UP EXTERIOR WALL TO ABOVE CEILING, AND INTO BUILDING. REFER TO GAS LOAD SUMMARY AND GAS RISER DIAGRAM ON SHEET P3.
- 10 3/4" WATTS NO. 9 DUAL CHECK BACKFLOW PREVENTER IN FILTER SUPPLY LINE TO BEVERAGE AREA. LOCATE IN ACCESSIBLE LOCATION ABOVE CEILING.
- 11 REFER TO CIVIL DRAWINGS FOR CONTINUATION.
- 12 1" HW, 1" CW, AND 1-1/2" NATURAL GAS DOWN TO TANKLESS GAS WATER HEATER MOUNTED ON WALL. REFER TO DETAIL 10/P4.
- 13 WATER FILTER MOUNTED ON WALL ABOVE BAG-IN-BOX SYSTEM. STUB-OUT WATER SUPPLY @ 8'-4" A.F.F. SEE DETAIL 2/P4.
- 14 2" GAS DOWN, EXPOSED ON WALL. EXTEND UNDER EQUIPMENT TO FINAL CONNECTIONS. PROVIDE PLUG VALVE, REDUCER, AND AGA RATED FLEX SUPPLY AT CONNECTION.
- 15 1/2" WATTS NO. 9 DUAL CHECK BACKFLOW PREVENTER IN SUPPLY LINE TO ICE MACHINE. LOCATE IN ACCESSIBLE LOCATION ABOVE CEILING.

**EQUIPMENT SCHEDULE**

QTY.	TAG	DESCRIPTION
2	A10.U3	FRYER BATTERY, 3-20", GAS
1	A35.L	SINK, 1 COMPARTMENT, LEFT HAND DRAIN BOARD, 52"
1	D30	PACKING STATION W/CUP DISPENSER & DIPPER WELL
1	D40	SINK, 3 COMPARTMENT, 94" LONG, 18" DB, R & L
2	D70	DISPENSER, HOT WATER W/WALL BRACKET
1	D81	CHUBB WARMER, ELEC. RETHERMALIZER
1	E10.1	WALK-IN COOLER
1	E10.2	WALK-IN FREEZER
1	H10.3PD	PRODUCTION COUNTER, DUAL LINE, 52 1/4" X 134" (PRINCE-CASTLE)
2	K10	ICE CUBER W/ REMOTE CONDENSER
1	K20	WATER FILTER, EQUIPMENT
1	K31	SODA DISPENSER, 8 HEADS, DROP-IN, FAST FLOW VALVES
1	K32	SODA DISPENSER, 8 HEADS, COUNTER W/ ICE BIN, ADAPTER PLATE
1	K40	CO2 TANK, BULK
1	K42	BAG-N-BOX RACK /W 2 CARBONATORS ON SHELVES
1	K71	BREWER, TEA & COFFEE
3	K72	TEA DISPENSER, URN, SOLID LID
3	N10	HAND SINK, W/ HAND FREE LEVER
1	N20	MOP SINK
2	N32	WATER HEATER

**GAS LOAD SUMMARY**

DESCRIPTION	GAS LOAD (BTUH)
BUILDING HEATING	584,000
WATER HEATING	398,000
KITCHEN EQUIPMENT	630,000
<b>TOTAL GAS LOAD</b>	<b>1,612,000 BTUH @ 7.5" W.C. DELIVERY PRESSURE</b>

FRYER'S GAS PRESSURE REQ. WATER COLUMN  
 7" INPUT SIDE.  
 4" OUTPUT SIDE.  
 G.C. TO VERIFY READINGS WHEN CHECKING SYSTEM.

**PLUMBING LEGEND**

- DOMESTIC COLD WATER PIPING
  - DOMESTIC HOT WATER PIPING
  - FW FILTERED WATER
  - GAS PIPING
  - GAS VALVE
  - GAS SOLENOID VALVE
  - GATE VALVE
  - BALANCING VALVE
  - CHECK VALVE
  - UNION
  - PIPE UP
  - PIPE DOWN
  - FLOOR DRAIN
  - ⊙ HUB DRAIN
  - ⊞ OR ⊞ FLOOR SINK
  - FLOOR CLEAN OUT
  - GRADE CLEAN OUT
  - ||— WALL CLEAN OUT
  - XXXX KITCHEN EQUIPMENT ITEM NUMBER
  - P-1 FIXTURE DESIGNATION
  - AFB ABOVE FINISHED FLOOR
  - PC PLUMBING SUB-CONTRACTOR
  - GC GENERAL CONTRACTOR
  - MC MECHANICAL SUB-CONTRACTOR
  - EC ELECTRICAL SUB-CONTRACTOR
  - FCO FLOOR CLEAN OUT
  - WCO WALL CLEAN OUT
  - GCO GRADE CLEAN OUT
  - HB HOSE BIBB
  - FD FLOOR DRAIN
  - FS FLOOR SINK
  - HD HUB DRAIN
  - CW COLD WATER
  - HW HOT WATER
  - TW TEMPERED WATER
  - FW FILTERED WATER
  - AAV AIR ADMITTANCE VALVE (STUDOR VENT)
  - ⊕ TIE INTO EXISTING
- NOT ALL SYMBOLS AND ABBREVIATIONS IN THIS LEGEND WILL APPEAR IN DRAWING.



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**REVISIONS**

1	03.01.2023	REV. 01
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**POPEYES**  
**NEW CONSTRUCTION**  
 3430 NORTH 167TH STREET  
 OMAHA, NE 68116



POPEYES

Project No. | 021-01872  
 Issue Date | 12-16-2022

Water And Gas

Sheet No.

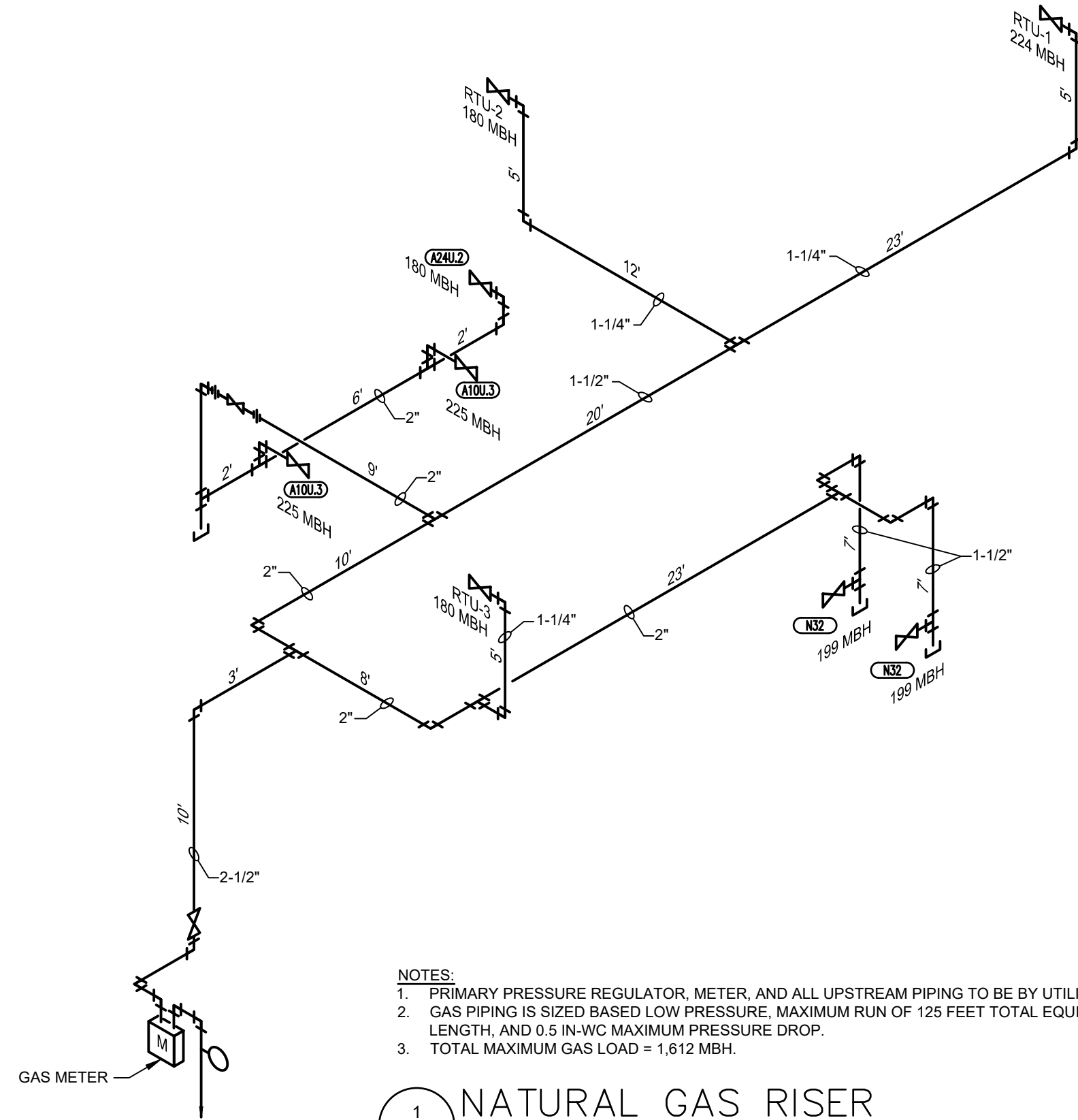


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P2

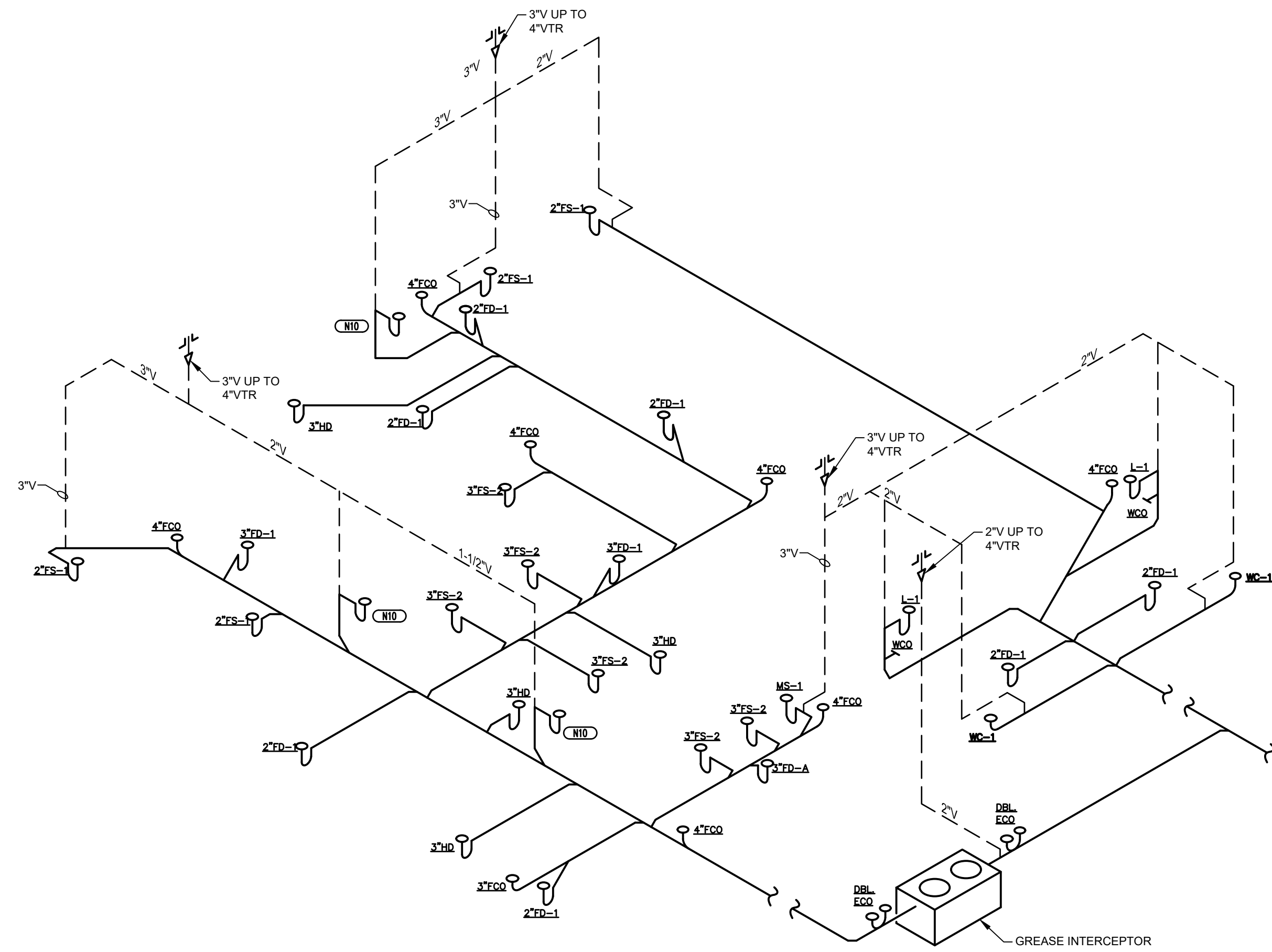
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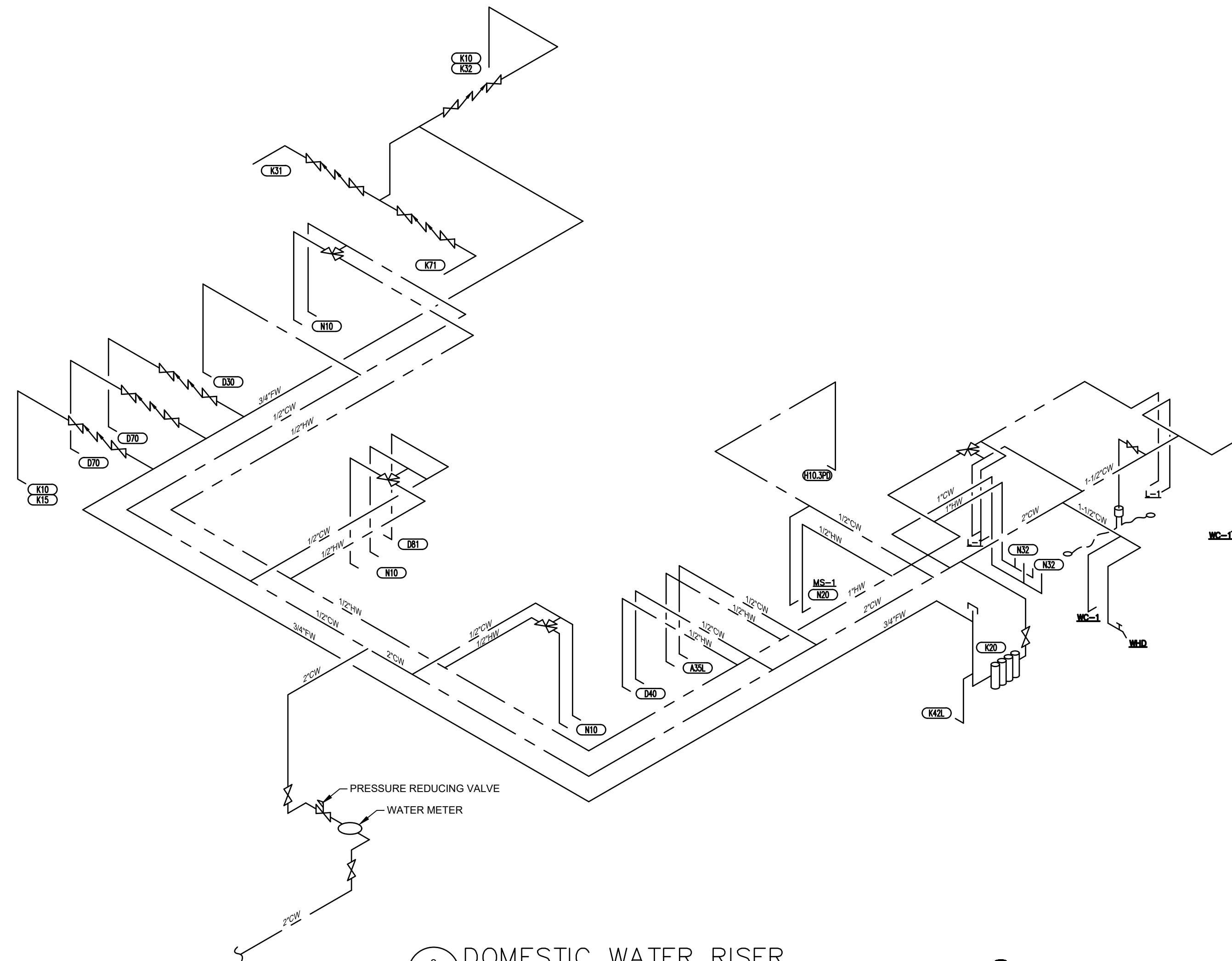
- NOTES:
1. PRIMARY PRESSURE REGULATOR, METER, AND ALL UPSTREAM PIPING TO BE BY UTILITY COMPANY.
  2. GAS PIPING IS SIZED BASED LOW PRESSURE, MAXIMUM RUN OF 125 FEET TOTAL EQUIVALENT LENGTH, AND 0.5 IN-WC MAXIMUM PRESSURE DROP.
  3. TOTAL MAXIMUM GAS LOAD = 1,812 MBH.

1 NATURAL GAS RISER  
P3 NTS



- NOTES:
1. VENTS THRU ROOF SHALL TERMINATE A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE. ALL PIPING SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS UNLESS NOTED OTHERWISE.
  2. ALL WASTE AND VENT PIPING BELOW GRADE SHALL BE 2" MINIMUM.

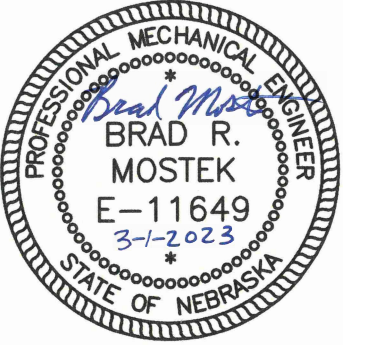
2 SANITARY WASTE AND VENT RISER  
P3 NTS



3 DOMESTIC WATER RISER  
P3 NTS



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**POPEYES**  
NEW CONSTRUCTION  
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POPEYES

Project No. | 021-01872  
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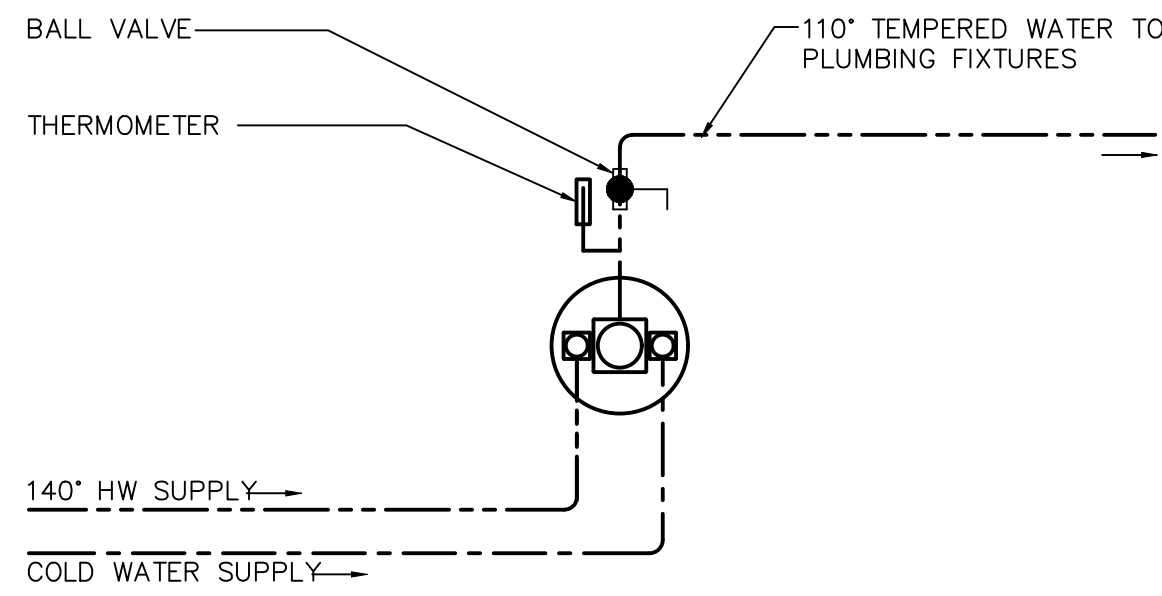
Riser Diagram

Sheet No.

P3

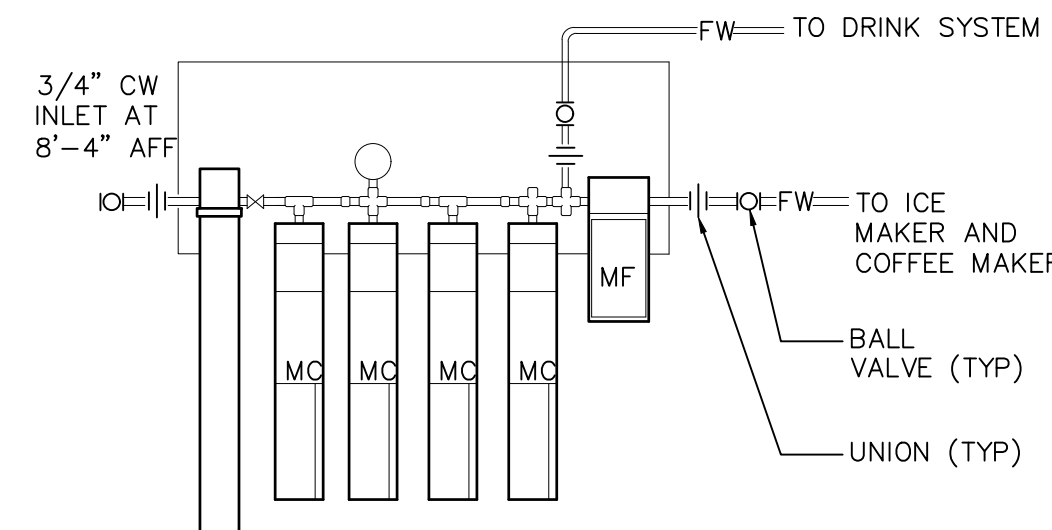


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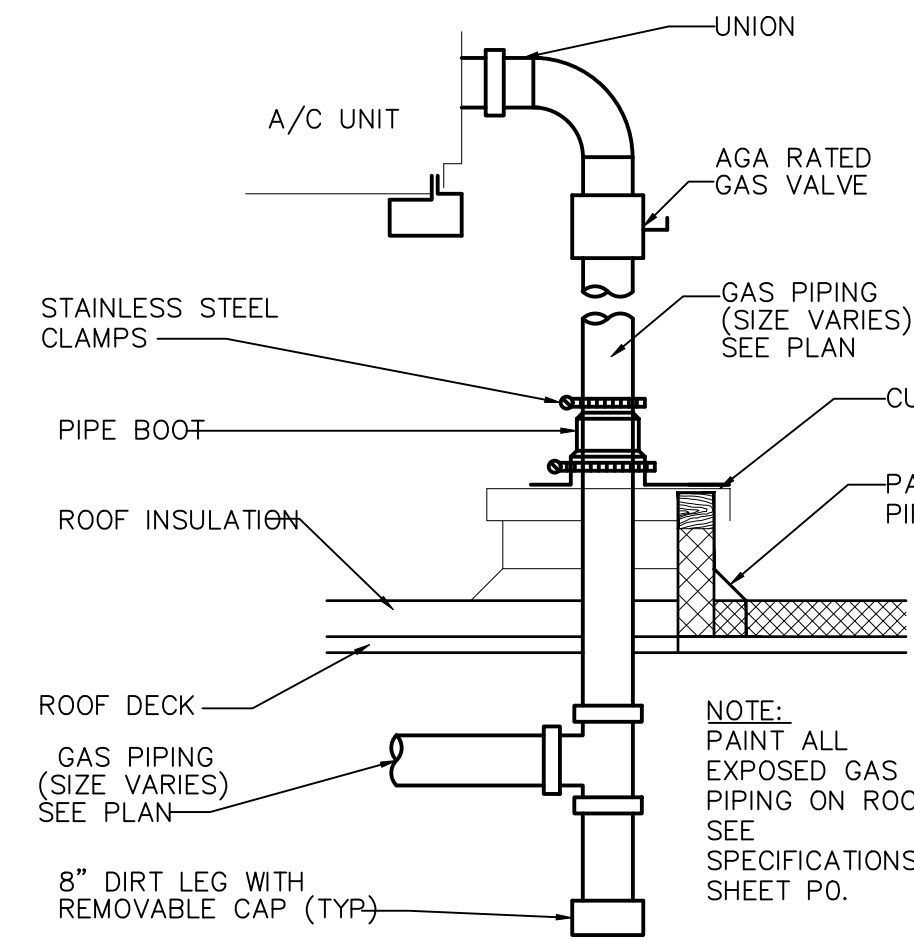


- DETAIL NOTES:**
- SURFACE MOUNTED THERMOSTATIC MIXING VALVE ASSEMBLY TO BE SYMMONS MAXLINE SERIES 7-225-CK OR APPROVED EQUAL. 4.5 GPM AT 5 PSI MAXIMUM PRESSURE DROP. SEE PLANS FOR PIPE SIZES FROM WATER HEATER SYSTEM TO MIXING VALVE ASSEMBLY. REDUCE AT ASSEMBLY AS REQUIRED.
  - INSTALL PER MANUFACTURERS PUBLISHED RECOMMENDATIONS.

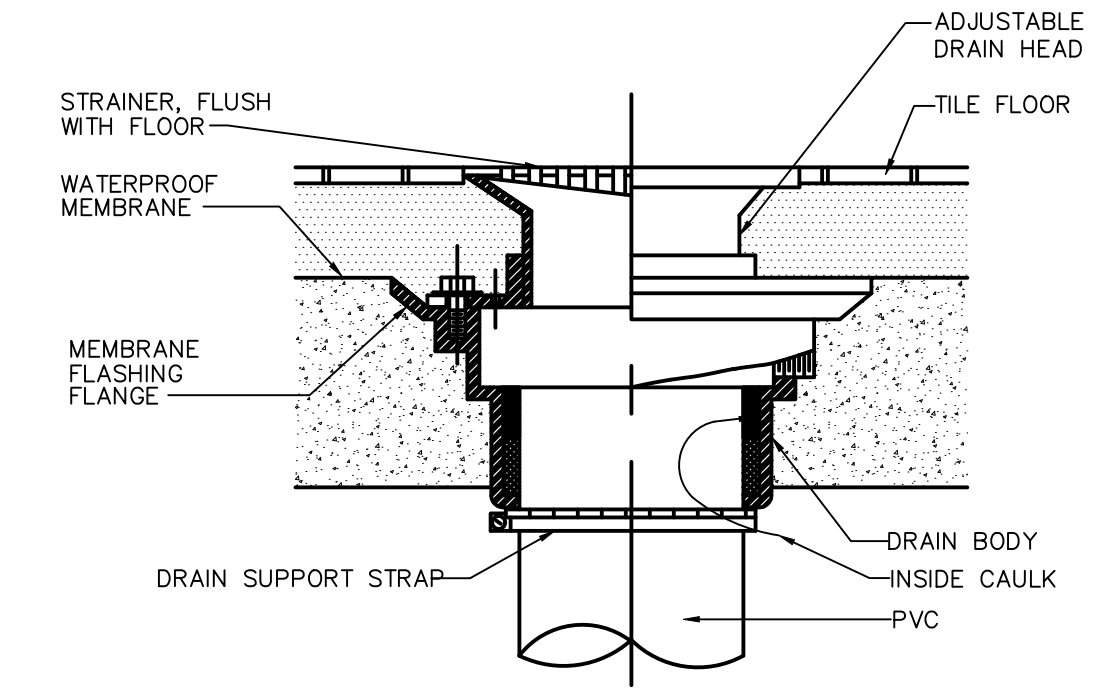
1 THERMOSTATIC MIXING VALVE  
P4 NTS



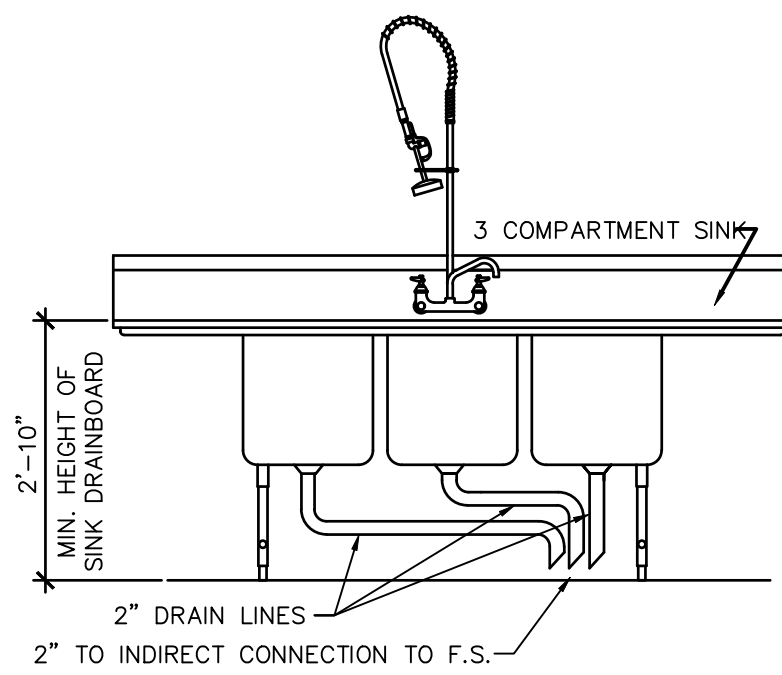
2 WATER FILTER/SCHEMATIC HOOK - UP  
P4 NTS



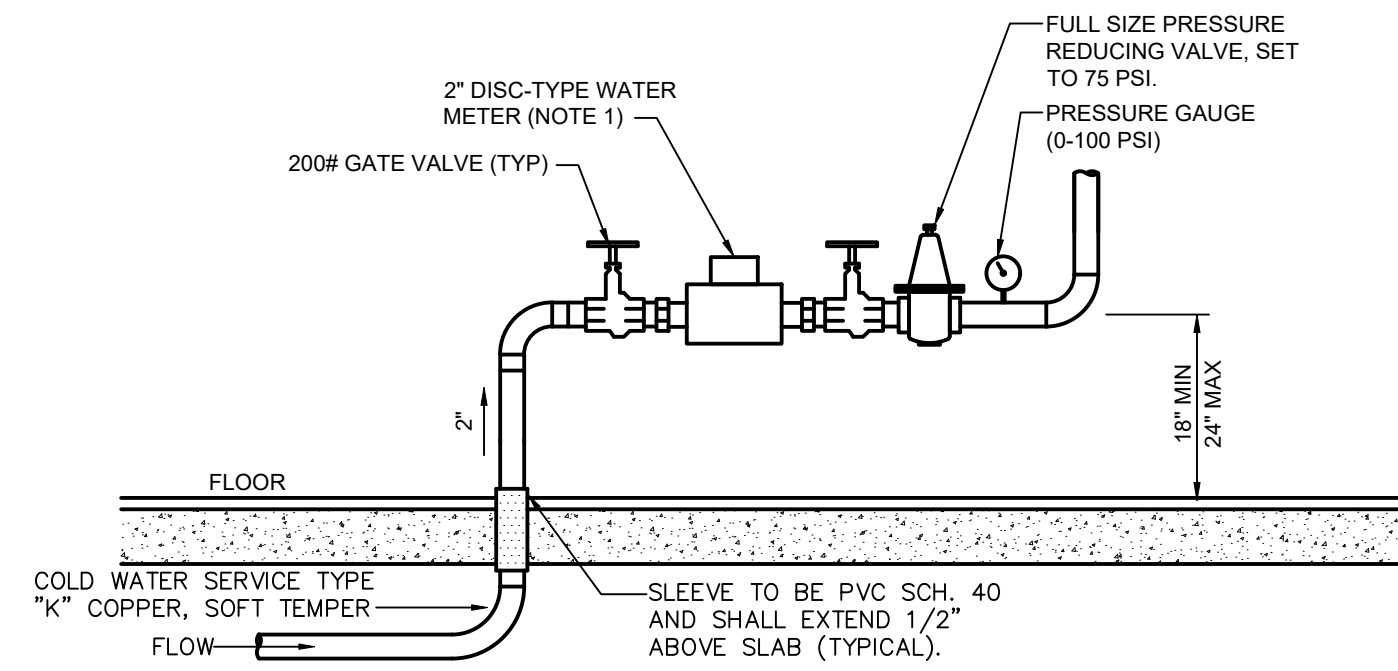
3 GAS @ A/C UNIT  
P4 NTS



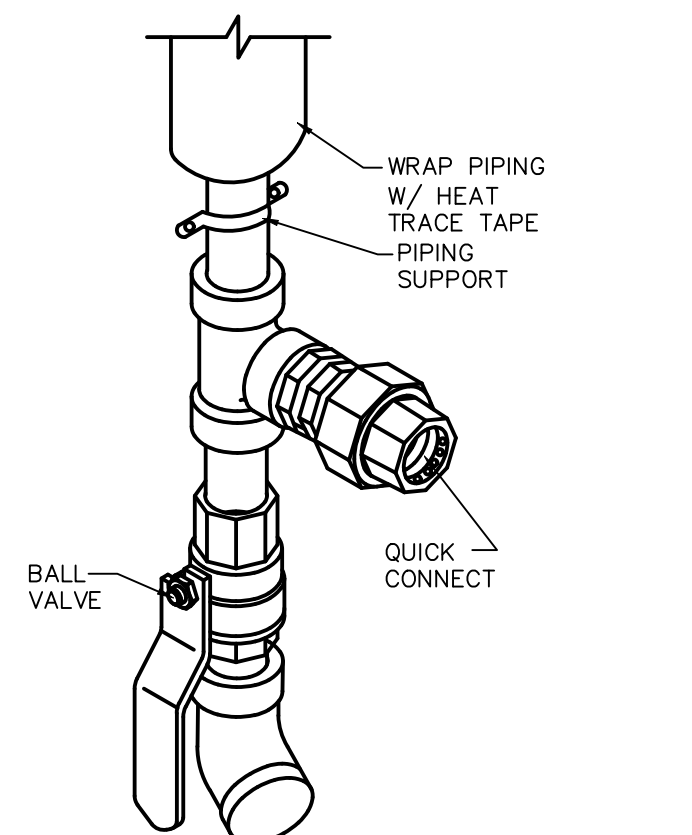
4 FLOOR DRAIN  
P4 NTS



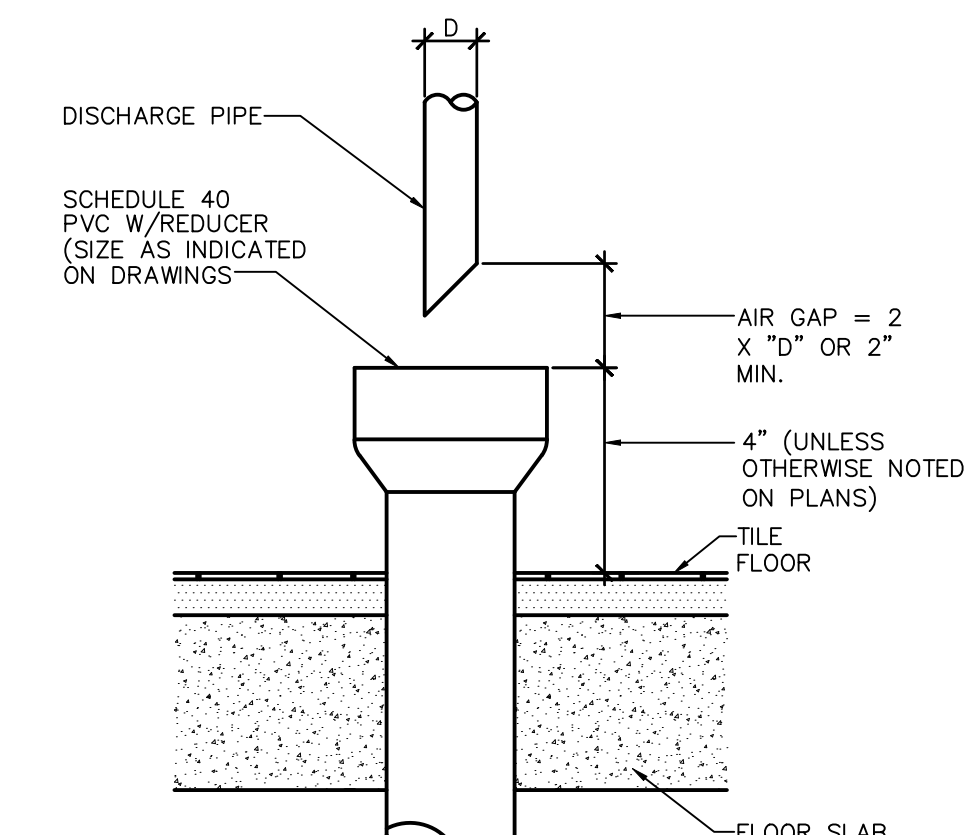
5 3 COMPARTMENT SINK  
P4 NTS



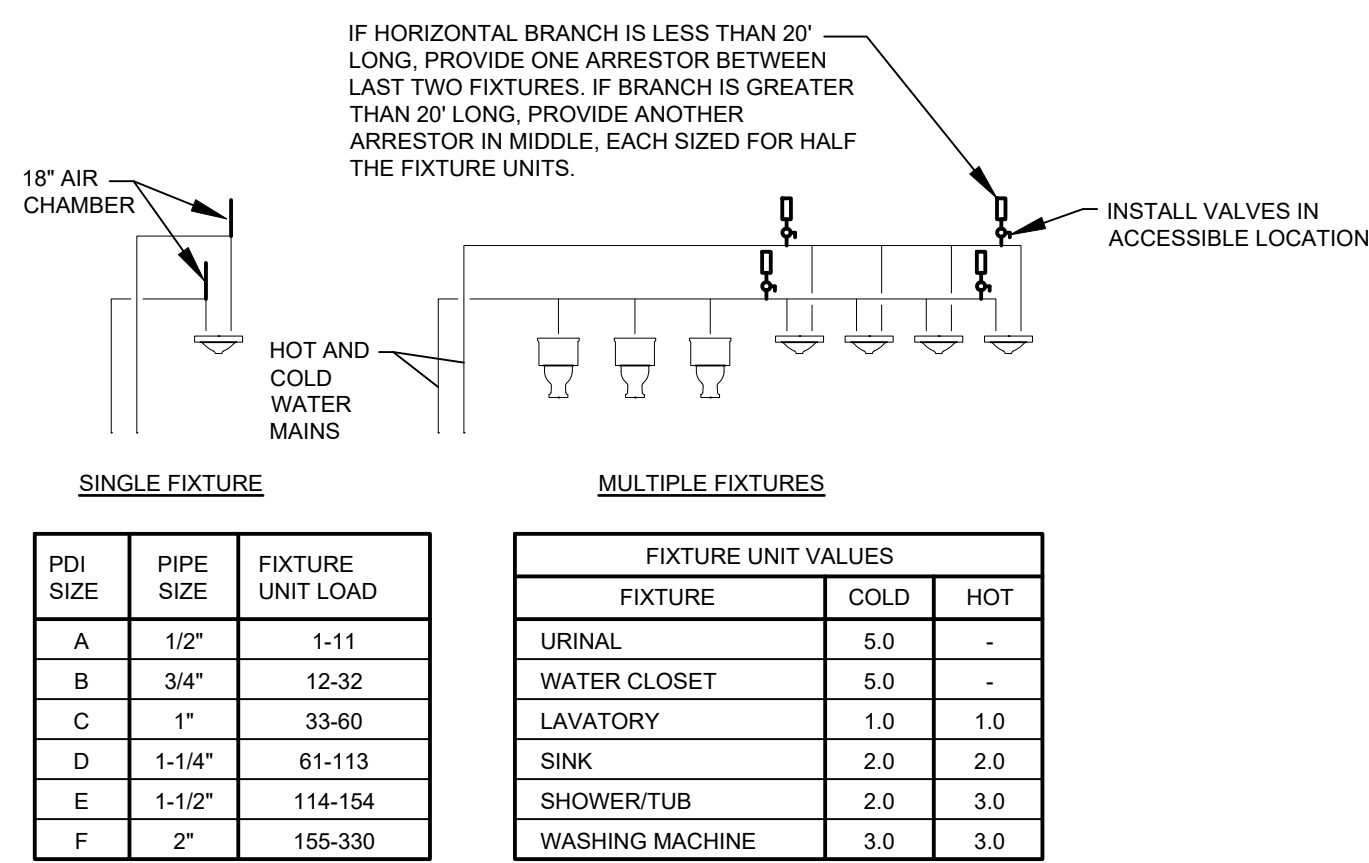
6 WATER SERVICE ENTRANCE DETAIL  
P4 NTS



7 GREASE RECOVERY CONNECTION  
P4 NTS

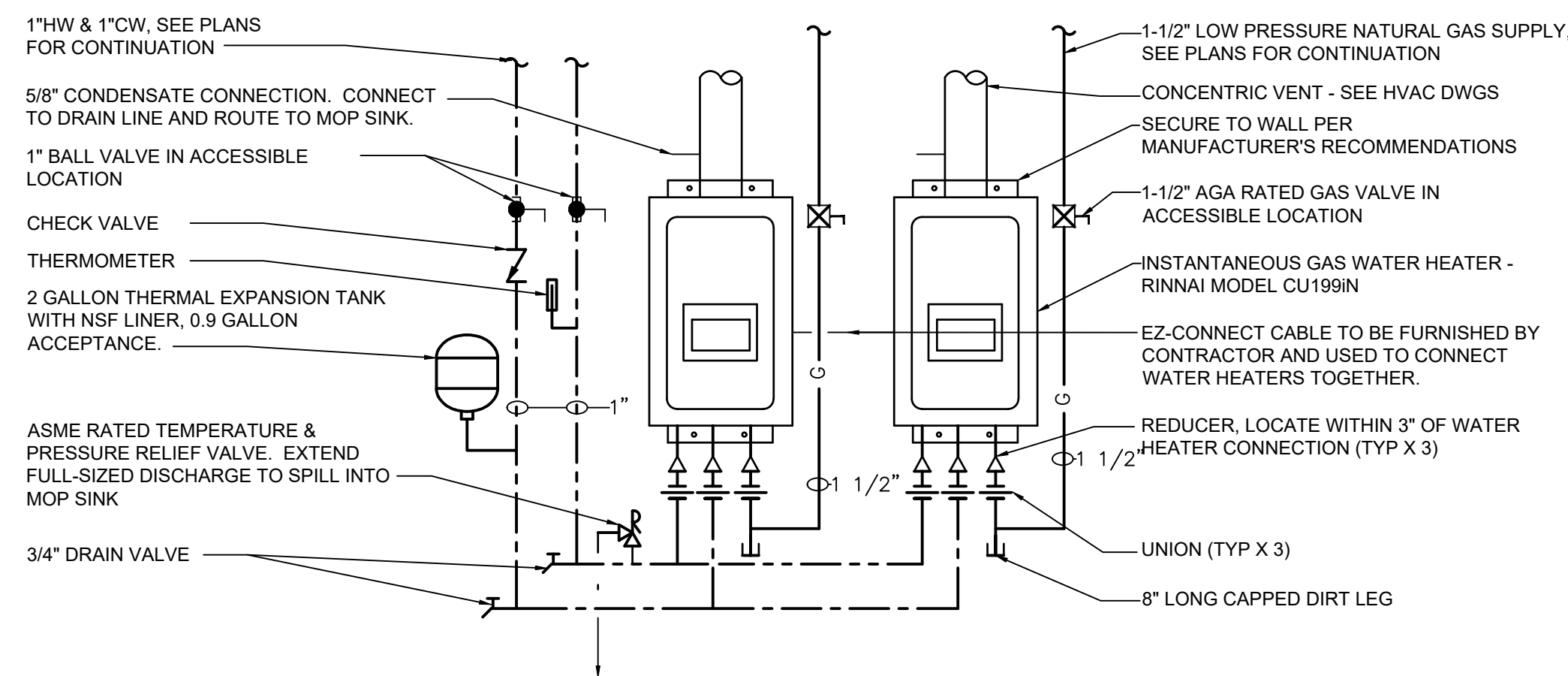


8 HUB DRAIN  
P4 NTS

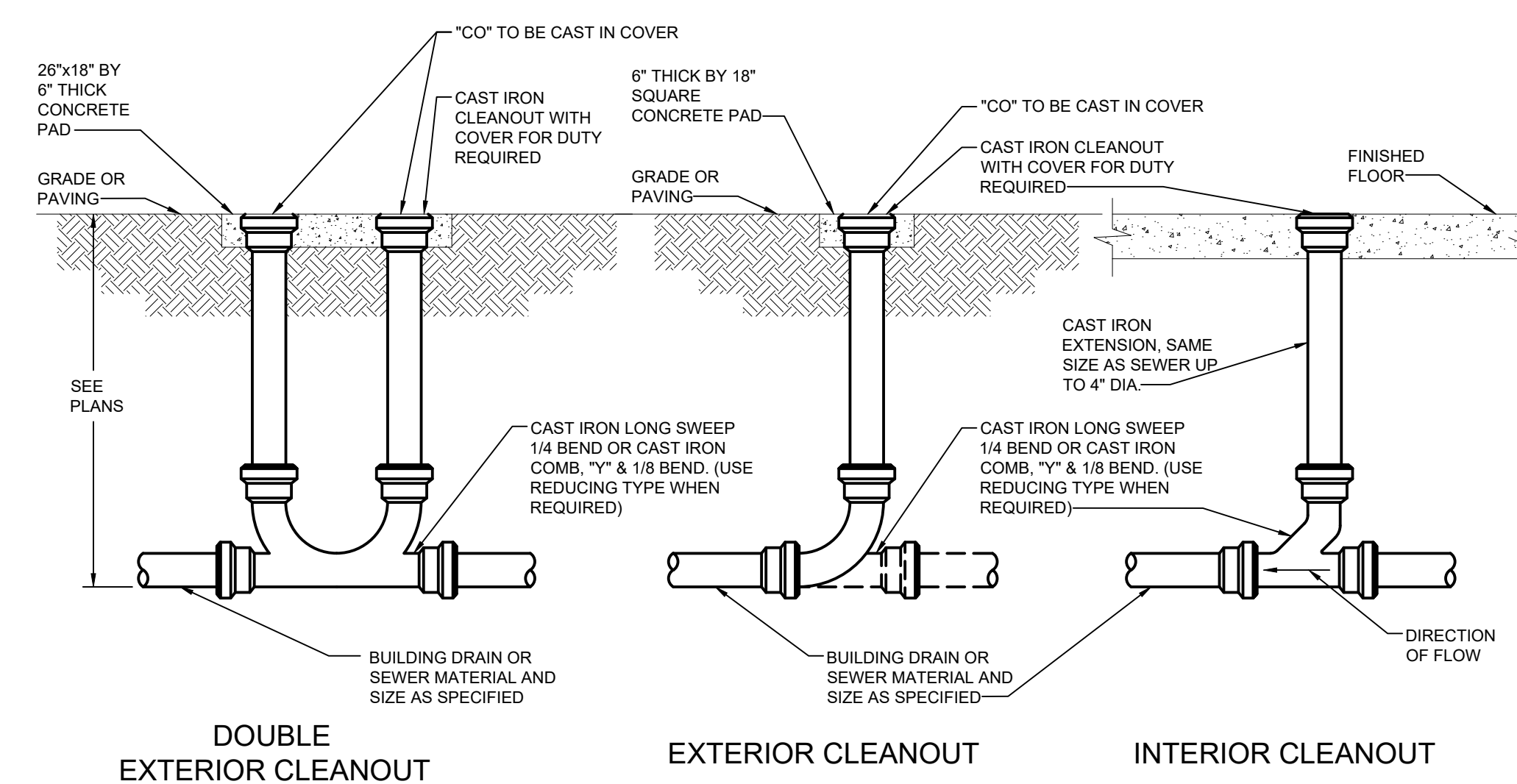


- NOTES:**
- PROVIDE WATER HAMMER ARRESTERS.
  - INSTALL IN HORIZONTAL OR VERTICAL POSITION.
  - SIZE THE UNITS AS SHOWN ON THE DRAWING AND/OR THE TABLES SHOWN ABOVE.
  - INSTALL PER PDI STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.

9 WATER HAMMER ARRESTOR DETAIL  
P4 NTS



10 DUAL INSTANTANEOUS GAS WATER HEATER  
P4 NTS

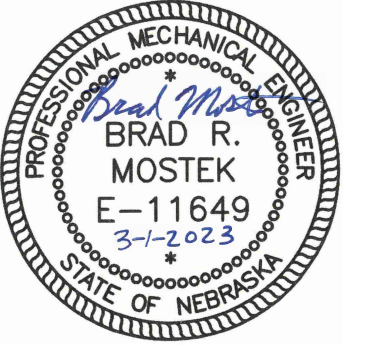


11 CLEANOUT DETAILS  
P4 NTS

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REVISIONS

1 03.01.2023 REV. 01

**POPEYES**  
 NEW CONSTRUCTION  
 3430 NORTH 167TH STREET  
 OMAHA, NE 68116



POPEYES

Project No. | 021-01872  
Issue Date | 12-16-2022

Piping Details



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Sheet No.

P4

ELECTRICAL SPECIFICATIONS
DIVISION 16 - ELECTRICAL SPECIFICATIONS

PART I. GENERAL PROVISIONS

- 1. SCOPE: PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS...
2. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL OF THE FOLLOWING MATERIAL AND EQUIPMENT UNDER THIS DIVISION OF THE SPECIFICATIONS...
3. THE FOLLOWING MATERIAL AND EQUIPMENT SHALL BE FURNISHED AND/OR INSTALLED BY OTHERS...
4. THE FOLLOWING MATERIAL AND EQUIPMENT WILL BE FURNISHED BY OTHERS...
5. GENERAL REQUIREMENTS: ALL WORK SHALL BE PERFORMED BY SKILLED LICENSED ELECTRICIANS...
6. COORDINATION: ALL OUTLETS MUST BE ACCURATELY LOCATED...
7. SERVICE VOLTAGE: THESE DRAWINGS ARE FOR A METERED, UNDERGROUND BUILDING SERVICE...
8. SERVICE EQUIPMENT: THE SERVICE SHALL BE LOCATED AS SHOWN ON THE SITE PLAN...

PART II. MATERIALS

- 1. MATERIALS: ALL MATERIALS SHALL BE NEW AND OF THE QUALITY INDICATED BY THE SPECIFIED BRAND NAMES. SUBSTITUTIONS OF MATERIAL OF EQUAL QUALITY BY OTHER MAJOR MANUFACTURERS OF COMMERCIAL EQUIPMENT MAY BE ACCEPTABLE...

- 1. WIRE AND CABLES: ALL WIRE AND CABLES SHALL BE UNDERWRITERS LABORATORIES LISTED AND LABELED, AND CONFORM WITH APPLICABLE STANDARDS OF UL (44, AND 83), NEMA (WC-5, AND WC-7), IPCEA (S-61-402, AND S-66-524), FEDERAL SPECIFICATIONS (J-C-30A(1), AND HI-I-595C), ANSI, AND OTHER APPLICABLE INDUSTRY STANDARDS...
2. LIGHTING FIXTURES: LIGHTING SHALL BE PURCHASED FROM THE POPEYES APPROVED NATIONAL ACCOUNT PARTNER - HERMITAGE LIGHTING...
3. WIRING DEVICES: ALL WIRING DEVICES SHALL BE UL LISTED, COMMERCIAL SPECIFICATION GRADE...
4. RECEPTACLES: a. NEMA 5-20R: HUBBELL #5362I, OR EQUAL. b. NEMA 5-20R-IG: HUBBELL IG-5362, OR EQUAL...
5. SWITCHES: a. SINGLE POLE: HUBBELL HBL1221-I, OR EQUAL. b. THREE WAY: HUBBELL HBL1223-I, OR EQUAL...
6. NATIONAL ACCOUNT: REFER TO THE NATIONAL ACCOUNT DIRECTORY...
7. SIGNAGE LIGHTING: PROVIDE A 1" RIGID GALVANIZED STEEL ELECTRICAL CONDUIT, AND WIRING, FROM THE PANEL TO ALL ILLUMINATED SIGNS...

- OTHER WIRING:
16. FURNISH AND INSTALL ALL POWER WIRING AND CONDUIT AS INDICATED ON THE DRAWINGS FOR ROOF-TOP HVAC EQUIPMENT, KITCHEN HOOD FANS, AND WALK-IN FREEZER AND COOLER EQUIPMENT...
17. FURNISH AND INSTALL THE LIGHTING CONTACTOR PANEL, AND ALL ASSOCIATED POWER WIRING, AS INDICATED...
18. EMPTY CONDUIT: LEAVE A #12 AWG PULL WIRE IN ALL EMPTY CONDUITS...
19. BOXES AND WIREWAYS: ALL JUNCTION BOXES, PULL BOXES, WIREWAYS, ETC. SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE...
20. EQUIPMENT IDENTIFICATION: PROVIDE NAMEPLATES FOR ALL PANELBOARDS, CONTROLS, AND OTHER ELECTRICAL EQUIPMENT...

PART III. EXECUTION

- 1. TESTS: MAKE ALL TESTS NECESSARY TO ENSURE THAT THE ENTIRE INSTALLATION IS FREE FROM IMPROPER GROUNDS, AND FROM SHORTED AND/OR OPEN CONDUCTORS...
2. GUARANTEE: FURNISH A GUARANTEE IN WRITING TO THE OWNER THAT ALL WORK EXECUTED UNDER THIS SECTION IS FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP...
3. TEMPORARY POWER: AT THE PROJECT SITE, PROVIDE A 100 AMP, 120/240 VOLT, SINGLE PHASE, SERVICE WITH POWER OUTLETS ADEQUATE FOR TEMPORARY CONSTRUCTION POWER...
4. CLEAN-UP: LEAVE THE ELECTRICAL PORTION OF THE WORK IN A CLEAN AND FINISHED CONDITION...
5. AS-BUILT DRAWINGS: MAINTAIN AS-BUILT DRAWINGS, UPDATED DAILY DURING CONSTRUCTION...
6. SYSTEM COMMISSIONING: THE CONTRACTOR SHALL PROCURE THE SERVICES OF AN APPROVED AGENCY TO PROVIDE EVIDENCE OF MECHANICAL AND LIGHTING CONTROLS SYSTEMS COMMISSIONING...

LEGEND
ELECTRICAL SYMBOLS

Diagrammatic legend of electrical symbols including: SINGLE FACE EXIT LIGHT W/ EMERGENCY BATTERY PACK, TRANSFORMER MOUNTED ACCESSIBLE, LED LIGHT FIXTURE WITH INTEGRAL EMERGENCY BATTERY, PENDANT LIGHT FIXTURE, 16" PENDANT LIGHT FIXTURE, 6" LED DOWNLIGHT, TOGGLE SWITCH - SINGLE POLE, DUPLEX RECEPTACLE, RECEPTACLE FLUSH MOUNTED IN CEILING, DUPLEX RECEPTACLE - ISOLATED GROUND SURGE PROTECTED, QUAD RECEPTACLE AS LOCATED ON DRAWINGS, SPECIAL PURPOSE RECEPTACLE, 208/120 PANELBOARD, DISCONNECT SWITCH SIZE AS NOTED, DOOR SWITCH MOUNTED IN DOOR FRAME, SEE ELECTRICAL NOTES, ABOVE FINISHED CEILING, FURNISHED BY CONTRACTOR, GROUND FAULT INTERRUPTING WEATHERPROOF, CONDUIT RUN CONCEALED IN WALLS OR CL., SPACES, ARROWS INDICATE HOMERUNS, SUBSCRIPT INDICATES PANEL AND CIRCUIT NUMBERS, EQUIPMENT GROUNDING CONDUCTOR REQUIRED IN ALL CONDUITS, SAME AS ABOVE NOTE EXCEPT RUN CONDUIT BELOW FLOOR, EXHAUST FAN, SUPPLY FAN, JUNCTION OR OUTLET BOX, JUNCTION J-BOX FOR SIGN-MOUNT SWITCH NEAR SIGN, MAKE ALL CONNECTIONS REQ'D, VERIFY ALL ASPECTS WITH SIGNAGE VENDOR, JUNCTION BOX FOR SMOKE DETECTOR (F.B.C.) 120V WIRING BY THIS CONTRACTOR, COMBINATION DUAL DATA OUTLET AND TELEPHONE OUTLET, TELEPHONE OUTLET, DATA OUTLET, PROVIDE 'ON/OFF' SELECTOR SWITCH AND PILOT LIGHT IN NEMA 4 STAINLESS STEEL ENCLOSURE MOUNTED ON THE FACE OF THE HOOD, SPEAKER: CEILING MOUNTED, SPEAKER OUTLET IN WALL STUB 3/4" CONDUIT TO SPACE ABOVE ACCESSIBLE CEILING.



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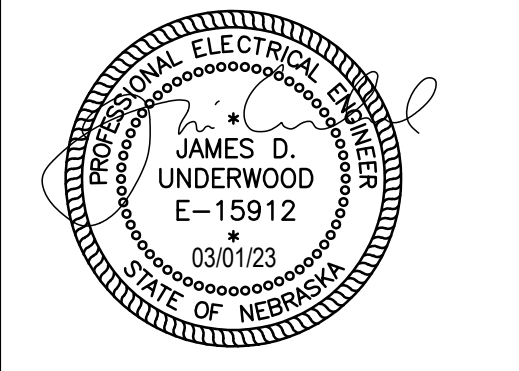


Table with 3 columns: REVISIONS, Date, Description. Includes entry for 03.01.2023 REV. 01.



POPEYES
NEW CONSTRUCTION
3430 NORTH 167TH STREET
OMAHA, NE 68116



POPEYES

Project No. | 021-01872
Issue Date | 12-16-2022

Specifications

Sheet No.

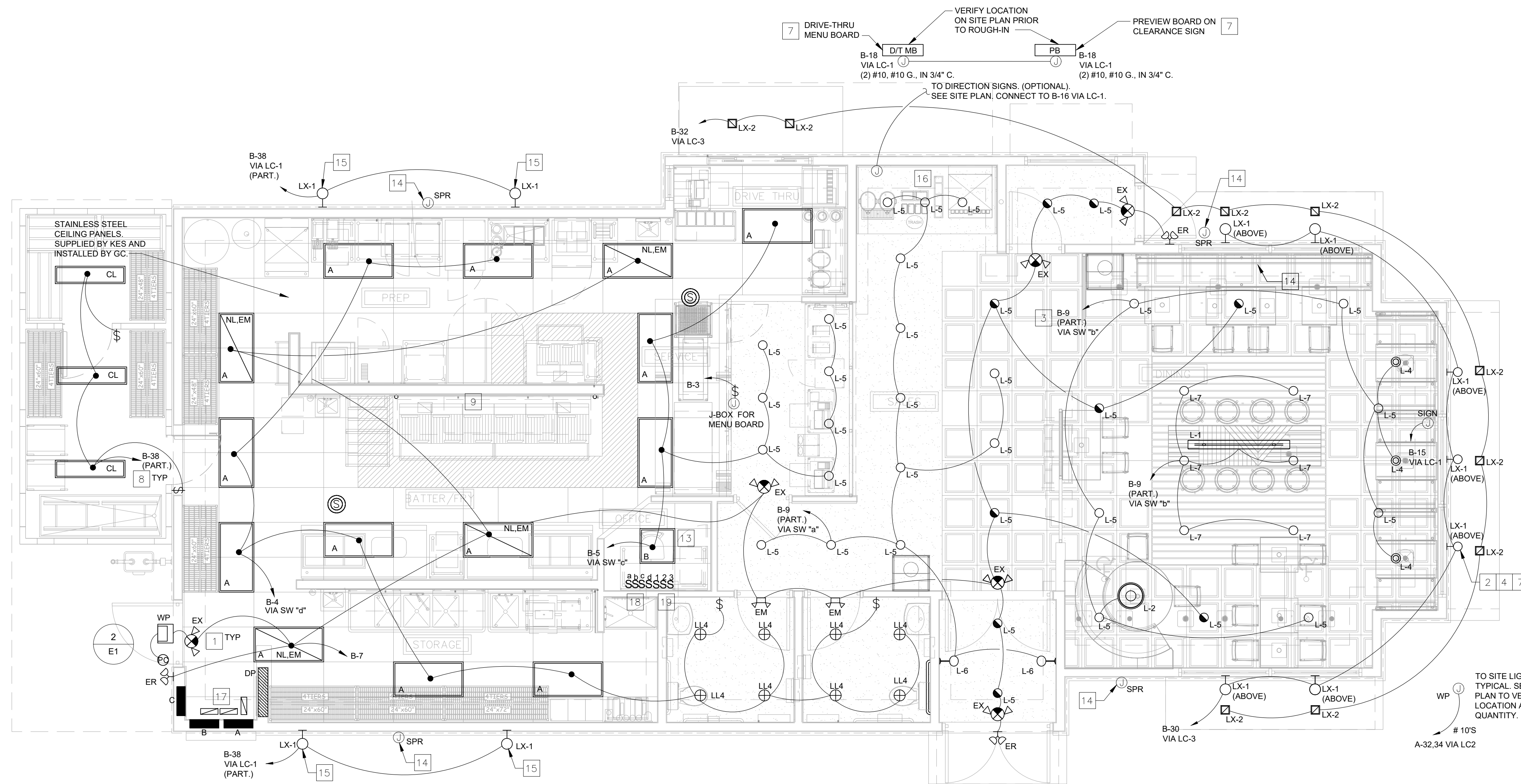


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**NOTE:**  
 REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, EXTERIOR ELEVATIONS AND WALL SECTIONS FOR DIMENSIONED LOCATIONS OF LIGHTING FIXTURES.

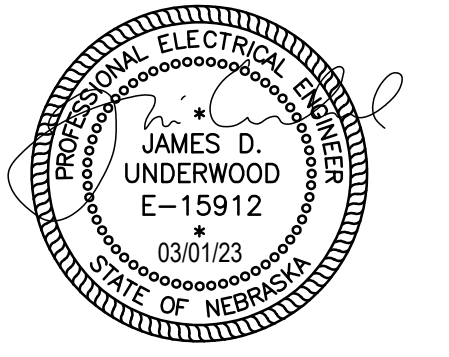


**SHEET NOTES:**

- 1 ALL EMERGENCY & EXIT LIGHTING FIXTURES SHALL BE CONNECTED AHEAD OF ROOM/AREA SWITCHES PER NATIONAL ELECTRICAL CODE (NEC) ARTICLE 700-12(F).
- 2 VERIFY THE EXACT LOCATION OF SIGNS AND FASCIA BOXES BEFORE INSTALLATION OF JUNCTION BOXES (TYP).
- 3 HOMERUNS MAY BE COMBINED AS ALLOWED BY THE NATIONAL ELECTRICAL CODE. ALL CONDUIT SHALL BE SIZED PER THE 2017 NEC.
- 4 ELECTRICAL CONTRACTOR SHALL VERIFY EXACT SIGN(S) WIRING REQUIREMENTS WITH THE SIGN SUPPLIER PRIOR TO SUBMITTING A BID FOR THE ELECTRICAL.
- 5 ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF THE PYLON SIGN ON THE SITE PLAN.
- 6 PROVIDE 2P/30A NEMA 3R, FUSED DISCONNECT SWITCH W/ LIQUID-TIGHT FLEXIBLE CONNECTION TO PYLON SIGN. FUSE SIZE PER SIGN MFR'S RECOMMENDATION.
- 7 THE BUILDING SIGNAGE, PYLON SIGN, FASCIA LIGHTING, BUILDING SIGN LIGHTING, DRIVE-THRU MENUBOARD(S), AND SITE LIGHTING SHALL BE WIRED THRU THE LIGHTING CONTACTORS FOR AUTOMATIC & MANUAL CONTROL.
- 8 PROVIDE RACEWAYS AND WIRING FOR ALL LIGHT FIXTURES FURNISHED W/ THE FREEZER/COOLER/STORAGE UNIT. LIGHT FIXTURES SHALL BE INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE THE INSTALLATION OF SWITCHES AND PLATES WITH THE EQUIP. SUPPLIER.
- 9 J-BOX ON HOOD FOR PRE-WIRED HOOD LIGHTS.
- 10 G.C. TO VERIFY EXACT ELECTRICAL REQUIREMENTS FOR ILLUMINATED SITE/MONUMENT SIGN STRUCTURE W/ SIGN SUPPLIER PRIOR TO INSTALLATION. G.C. TO PROVIDE FINAL ELECTRICAL HOOK-UP.
- 11 NOT USED.
- 12 NOT USED.
- 13 FIXTURE TYPE "B" EQUIPPED WITH EMERGENCY LIGHTING BATTERY PACK, THE BATTERY PACK SHALL BE WIRED AHEAD OF ANY SWITCHES.
- 14 JUNCTION BOX FOR SPEAKER, MOUNT AT 14'-6" TO CENTERLINE ABOVE FINISHED GRADE, SIDEWALK, OR PAVEMENT.
- 15 ALL GOOSENECK "LX-1" FIXTURES TO BE CENTERED OVER THE SHUTTERS AND THE AWNINGS ACCORDING TO THE ELEVATIONS. THE MIDDLE GOOSENECK SHALL BE CENTERED ON THE FRONT AWNING, AND THE SIDE GOOSENECKS SHALL BE INSTALLED ACCORDING TO THE FRONT ELEVATION.
- 16 CONTRACTOR SHALL INSTALL THE PENDANT LIGHTS AT THE SELF SERVE DRINK STATION AFTER ALL THE EQUIPMENT HAS BEEN INSTALLED AND SHOWN TO BE OPERATIONAL.
- 17 LIGHTING CONTACTORS "LC-1", "LC-2" AND "LC-3" IN THIS AREA. REFER TO LIGHTING CONTACTOR DIAGRAM ON THIS SHEET AND POWER RISER DIAGRAM ON E-3.
- 18 LOCATE LIGHTING AND FAN ON/OFF CONTROL SWITCHES "a, b, c, d, e, f" AT THIS LOCATION.
- 19 LOCATE SEL. SWITCH CONTROLS FOR LIGHTING CONTACTORS "LC-1", "LC-3" LIGHTING CONTACTORS, AND PUSHBUTTON CONTROL FOR "LC-2" LIGHTING CONTACTOR AT THIS LOCATION.



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REVISIONS	
1	03.01.2023 REV. 01



**POPEYES**  
 NEW CONSTRUCTION  
 3430 NORTH 167TH STREET  
 OMAHA, NE 68116



**POPEYES**

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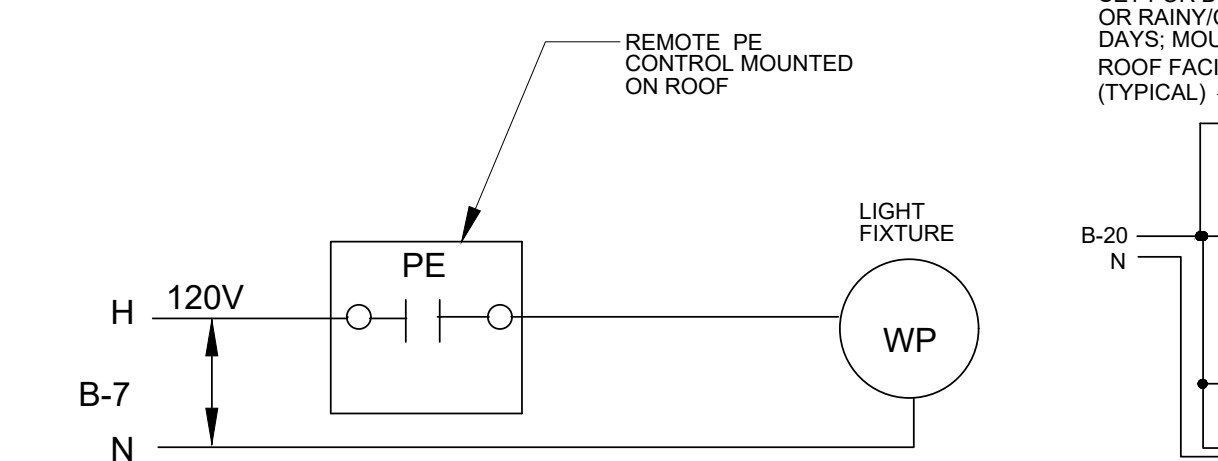
Lighting Plan

Sheet No. **E1**

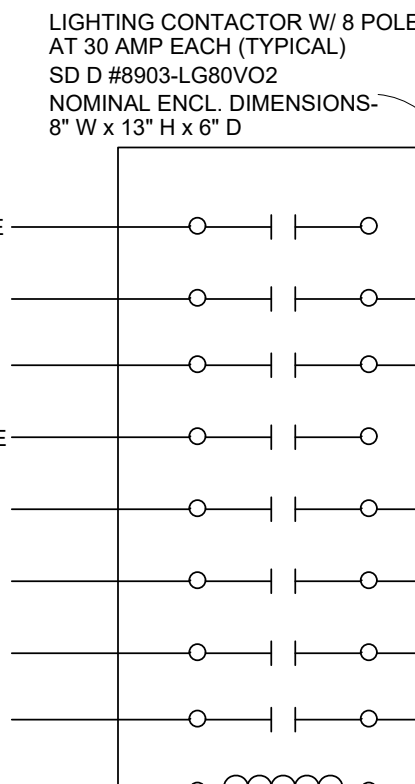
**1 LIGHTING REFLECTED CEILING PLAN**  
 1/4"=1'-0"

POPEYES RADIO SYSTEM			
DESCRIPTION	MAKE	MODEL	QUANTITY
RECESSED SPEAKERS* (DINING)	BOSE	MODEL #16, BLACK	4
RECESSED SPEAKERS* (KITCHEN)	MUZAK	MBS 8-5T3, BLACK	2
OUTDOOR BOX SPEAKERS*	QUM	701	4
AMPLIFIER	PASO	MU 3130 BGM	1
SPEAKER SUPPORT	QUM	SSB-2	2
SPEAKER BACKCAN	QUM	ERD-8	2
CABLE CONNECTORS, HARDWARE AND SHELF	VARIOUS	VARIOUS	1
AREA VOLUME CONTROL	QUM	QC-10	3
RECEIVER	ECHO STAR	3000	1
DISH	CHANNEL MASTER	1.0 ANTENNA	1

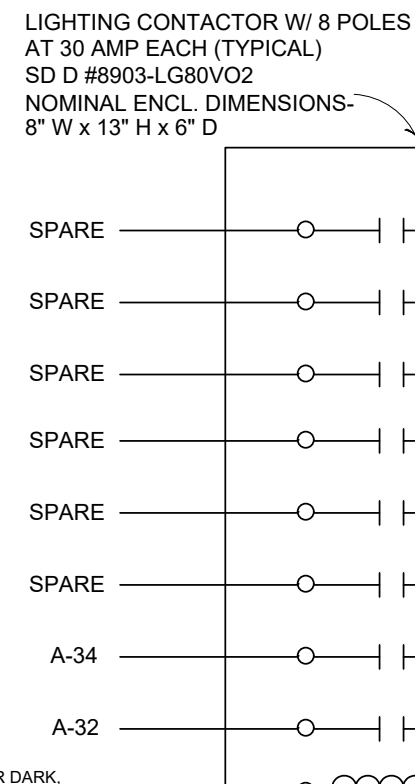
\* NUMBER OF SPEAKERS MAY VARY DUE TO DESIGN CONSIDERATIONS  
 \*\* LABOR INCLUDES INSTALLATION OF 150' OF 12 GAUGE SPEAKER WIRE.  
 SEE THE NATIONAL ACCOUNT VENDOR LIST FOR THE CONTACT INFORMATION FOR RETAIL RADIO.



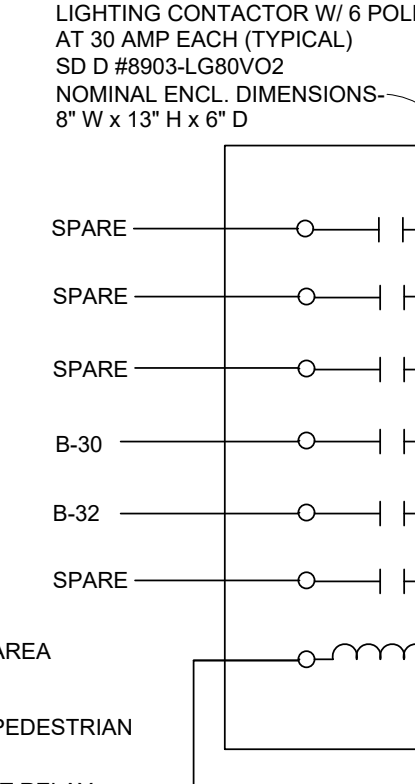
**LC-1**



**LC-2**



**LC-3**



- CONTACTOR DIAGRAM NOTES:**
1. THE LIGHTING CONTACTORS SHALL BE HELD MAGNETICALLY IN A NEMA 1 ENCLOSURE.
  2. THE SIGN & CANOPY LIGHTING SHALL BE SET TO COME ON FIRST, EVEN ON RAINY/CLOUDY DAYS AND THE PARKING LOT LIGHTING SHALL BE SET TO COME ON LATER.
  3. THE CONTROLS SHALL BE WIRED SO THAT EACH GROUP OF LIGHTING (SIGNAGE/CANOPY AND PARKING LOT) IS INDEPENDENT, AND MAY BE MANUALLY SWITCHED OFF AT CLOSING WITH ITS SELECTOR SWITCH VIA TIME DELAY RELAY - SEE CONTACTOR DIAGRAM DETAIL THIS SHEET.

**3 LIGHTING CONTACTOR DIAGRAM**  
 NOT TO SCALE

**LIGHT FIXTURE SCHEDULE**

QTY.	MARK	DESCRIPTION	MANUFACTURER	LIGHT FIXTURE	COLOR	BULBS
14	A	2 x 4 LED TROFFER	HERMITAGE	65-317 (48 W, 3500K, 5000L)	WHITE	LED INCLUDED
1	B	2 x 2 LED TROFFER	SATCO	65-311 (37 W, 3500K, 3800L)	WHITE	LED INCLUDED
3	CL	COOLER/FREEZER	BY OTHERS	BY COOLER MANUFACTURER		
2	EM	EMERGENCY LIGHTING UNIT	EXITRONIX	90902323	WHITE	(2) 1.1W
3	ER	REMOTE EMERGENCY LIGHTING UNIT	EXITRONIX	90901052	WHITE	(1) 5W
6	EX	LED EXIT EMERGENCY COMBO	EXITRONIX	90902167	WHITE	INCLUDED
1	L-1	18" LED PENDANT	HERMITAGE	H-HP23TPNSLN	CUSTOM	9.12 WATTS
1	L-2	18" LED PENDANT	HERMITAGE	H-PP18SHD80P	CUSTOM	100 WATTS
8	LL4	6" RECESSED DOWNLIGHT	HERMITAGE	S8470 (12W, 3000K)	WHITE	14W LED
3	L-4	6.75" LED PENDANT	HERMITAGE	1JT-GALTN-LED-SN	TAN	19 WATTS
35	L-5	6" LED DOWNLIGHT	LSI	PDL6KADJLED-07030-120-	WHITE	14 WATTS
2	L-6	LED GOOSENECK	HERMITAGE	H-HP22A3Y044L	CUSTOM	38 WATTS
6	L-7	2" LED DOWNLIGHT	HERMITAGE	2" DIAMETER DOWNLIGHT	WHITE	19 WATTS
11	LX-1	LED GOOSENECK	HERMITAGE	H-HP22A3Y044L	CUSTOM	38 WATTS
10	LX-2	LED CANOPY	HERMITAGE	E-CP2L04CS	CUSTOM	42 WATTS
1	WP	WALL PACK w/ PHOTO CELL (REAR DOOR)	CREE	SWP-100MH-DB-MT	WHITE	9 WATTS

SITE LIGHTING (VERIFY COUNTS AND TYPE WITH SITE PLAN)						
3	PT1	LED POST TOP PEDESTRIAN LIGHT	U.S. ARCHITECTURAL LIGHTING	LAA2-YA-PA2-III-32LED-350mA-30K-120-PT-RAL-9005-T	BLACK	34 WATTS
3	PT1	8" ROUND POLE ON DECORATIVE BASE	SUN VALLEY LIGHTING	POLE: 1030C, BASE: 300	BLACK	N/A
6	PT2	LED POST TOP AREA LIGHT	U.S. ARCHITECTURAL LIGHTING	LAA2-YA-PA2-III-48LED-525mA-30K-120-PT-RAL-9005-T	BLACK	78 WATTS
6	PT2	12'-3" ROUND, TAPERED POLE ON DECORATIVE BASE	SUN VALLEY LIGHTING	POLE: 1030C, BASE: 300	BLACK	N/A

**NOTE:**

1. VERIFY WIND LOAD TO ENSURE POLE SIZE IS SUFFICIENT.
2. NO SUBSTITUTION ALLOWED FOR SPECIFIED LIGHT FIXTURES.

ALL LIGHT FIXTURES LISTED IN THE ABOVE SCHEDULE SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR, EXCEPT AS NOTED ELECTRICAL SPECIFICATIONS.

**FIXTURE NOTES:**

1. SEE ARCHITECTURAL DETAILS FOR MOUNTING LOCATIONS.
2. ALL OUTLETS FOR LIGHTS SHALL BE SUPPORTED INDEPENDENTLY OF CEILING SYSTEM USING 1/4" ALL THREAD ROD.
3. PROVIDE REMOTE MOUNTED (ON ROOF) PE CELL FOR ALL EXTERIOR FIXTURE, TYPE "WP" NOT ON THE LIGHTING CONTACTOR.



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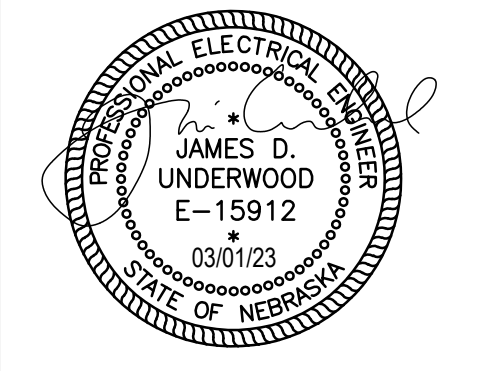
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**POWER PLAN KEY NOTES**

- 1 REFER TO FOOD SERVICE DRAWING K-SHEETS FOR TAG LOCATIONS AND MOUNTING HEIGHTS NOT SHOWN THIS SHEET.
- 2 REFER TO HVAC SHEET M1 FOR EXACT LOCATIONS FOR MECHANICAL HVAC EQUIPMENT.
- 3 3P30A NEMA 3R FUSED DISC. ON WALK-IN COND. UNIT LOCATED ON ROOF OF UNIT. FUSE PER EQUIPMENT NAMEPLATE. LIQUID TIGHT FLEX CONNECTION.
- 4 MAKE FINAL POWER CONNECTION TO WALK-IN COOLER EVAPORATOR. PROVIDE MOTOR SWITCH IN CAST BOX.
- 5 MAKE FINAL POWER CONNECTION TO WALK-IN FREEZER. FREEZER EVAP., DEFROSTER, HEAT TAPE & DOOR HEATER.
- 6 PROVIDE LOCAL 3P60A NEMA 3R NON-FUSED DISC SW. ON A/C RTU LOCATED ON ROOF. PROVIDE LIQUID TIGHT FLEX CONNECTION TO UNIT. FUSE PER UNIT MANUFACTURER'S NAMEPLATE INFORMATION.
- 7 PROVIDE GFCI PROTECTED 5-20R DUPLEX RECEPT. INSTALLED IN WP BOX W/ WP COVER AT RTU. (TYP.)
- 8 PROVIDE 120V WIRING TO DUCT MOUNTED SMOKE DETECTORS AND REMOTE TEST INDICATORS. FOR EXACT LOCATIONS OF DUCT DETECTORS, REMOTE INDICATORS & TEST SW'S. (SEE HVAC PLANS).
- 9 E.C. SHALL INSTALL AND WIRE RELAY CONTROL PANEL PACKAGE FOR HOOD EXHAUST FANS EF-1, EF-2, AND EF-3. PROVIDE POWER AND INTERLOCK CONTROL WIRING FOR HP-1 CONTROL PANEL AND HOOD FIRE SUPPRESSION SYSTEM. SEE HOOD FAN CONTROL INTERLOCK WIRING DIAGRAM (SHEET M2) MOUNT STARTERS AND CONTROLS ON WALL.
- 10 "ON/OFF" SELECTOR SWITCH AND PILOT LIGHT IN NEMA 4V STAINLESS STEEL ENCLOSURE MOUNTED ON THE FACE OF THE HOOD. PROVIDED BY HOOD MFR.
- 11 PROVIDE 2P30A NEMA 3R FUSED DISC SWITCH & L.T. FLEX CONNECTION TO ROOF MTD ICE MAKER COND UNIT. FUSE SIZE PER MFG'S NAMEPLATE DATA.
- 12 PROVIDE WALL OUTLET 108" AFF W/ ISOLATED GROUND RECEPTACLES FOR VIDEO MONITOR/PRINTER AND/OR HEADSET. VERIFY EXACT REQUIREMENTS & LOCATION.
- 13 PROVIDE 3/4" x 18" x H x 24" W PLYWOOD TELEPHONE BOARD PAINTED WITH 2 COATS OF "LISTED" FIRE RETARDANT LIGHT GRAY COLOR PAINT. AT 96" A.F.F. PROVIDE QUAD RECEPTACLE ADJACENT TO BOARD. PROVIDE # 6 CU. GROUND TO SERVICE ENTRANCE GROUND. SEE DETAIL ARCHITECTURAL ELEVATIONS.
- 14 PROVIDE ELECTRICAL CONDUIT THROUGH WALL FROM CEILING TO 18" AFF FOR THE PRODUCTION COUNTER. EQUIPMENT REQUIRES ONE 3-PHASE CIRCUIT, AND FIVE 1-PHASE CONDUITS.
- 15 PRODUCTION COUNTER ELECTRICAL POWER CIRCUITS: REFER TO SHEET E3a, AND PANEL SCHEDULE "C" FOR CIRCUIT NOS. CONFIRM WITH EQUIPMENT SUPPLIER SHOP DRAWINGS FOR EXACT LOCATIONS AND TYPE OF CONNECTIONS FOR EQUIPMENT AND HEAT LAMPS IN OR ON PRODUCTION COUNTER.
- 16 BRANCH CIRCUIT(S) CONTINUED TO ADDITIONAL OUTLETS, HOMERUN SHOWN FOR CLARITY ONLY.
- 17 CONNECTION FOR SECURITY CAMERA. VERIFY EXACT LOCATIONS AND TYPE CONNECTIONS FOR INDOOR AND OUTDOOR CAMERAS WITH G.C.
- 18 ROUTE ALL CONDUIT ROOF PENETRATIONS THRU (WITH-IN) ROOF CURBS FOR THE EQUIPMENT. REFER TO MECH. PLANS FOR CURB DETAILS. (TYPICAL)
- 19 PROVIDE 1" CONDUIT TO 6" ABOVE CEILING FOR DATA CABLE.
- 20 HOOD ANSUL FIRE SUPPRESSION SYSTEM.
- 21 MAKE FINAL CONNECTION TO EQUIPMENT.
- 22 COORDINATE EXTERIOR CAMERA LOCATIONS WITH INSTALLED AWNINGS TO AVOID OBSTRUCTED VIEWS.
- 23 PRODUCTION COUNTER LOAD CENTER PANEL H10.3PD FURNISHED AND MOUNTED IN PRODUCTION COUNTER. PROVIDE CONNECTIONS FOR EQUIPMENT (2) 'D92', 'D93.1', 'D94', 'J40' AND HEAT LAMPS. REFER TO SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION.
- 24 PROVIDE LOCAL 3P100A NEMA 3R NON-FUSED DISC SW. ON A/C RTU-1 LOCATED ON ROOF. PROVIDE LIQUID TIGHT FLEX CONNECTION TO UNIT. FUSE PER UNIT MANUFACTURER'S NAMEPLATE INFORMATION.



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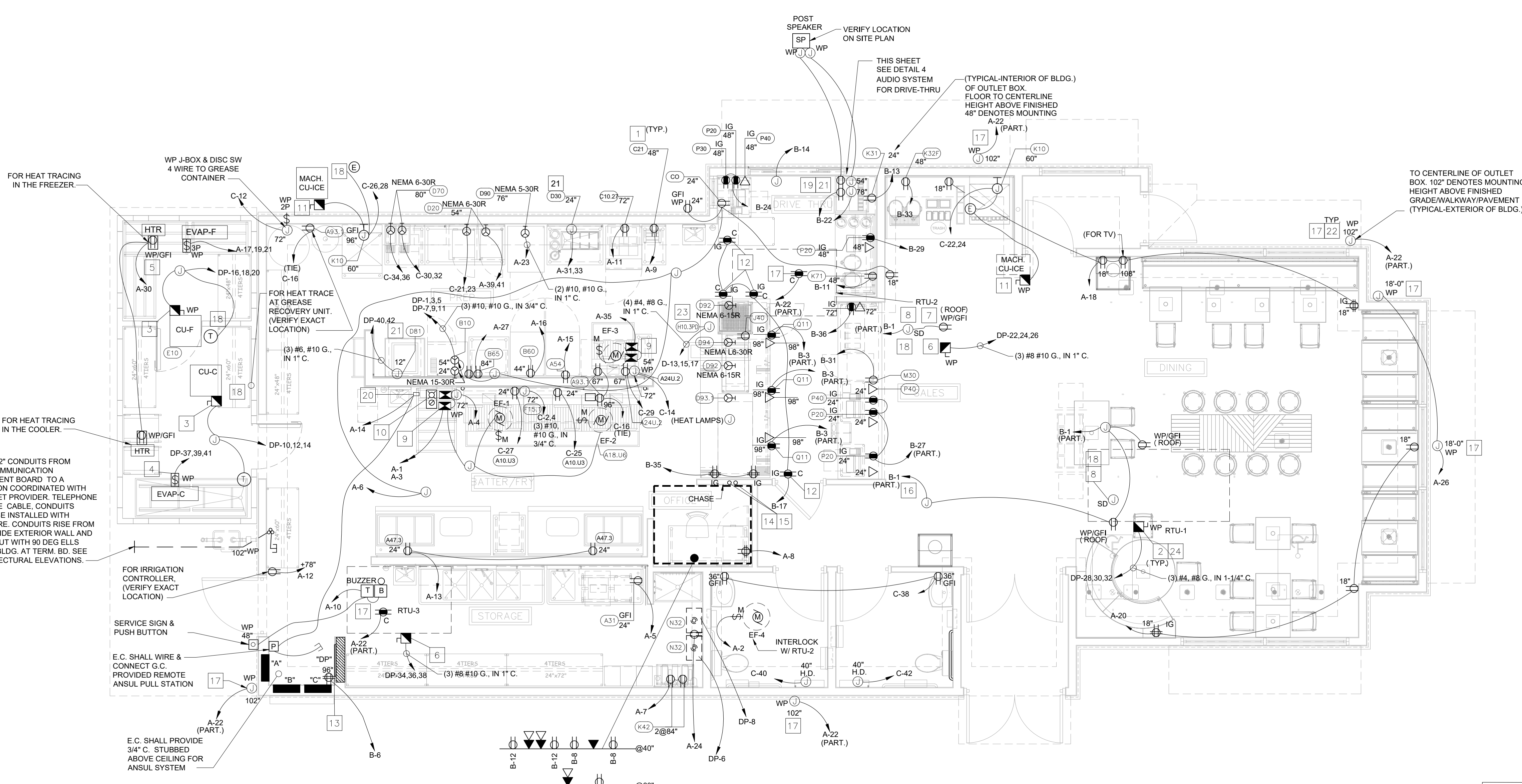


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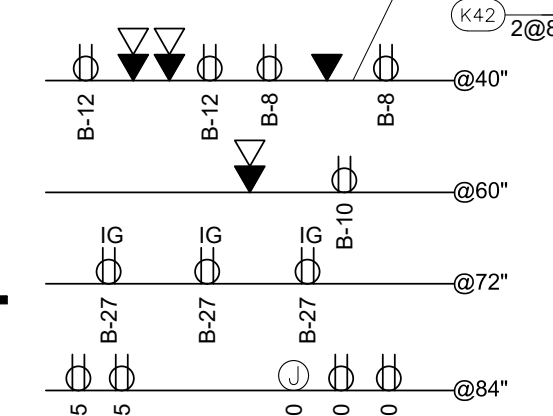
Project No. | 021-01872  
Issue Date | 12-16-2022

Power Plan

Sheet No. **E2**



**1 ELECTRICAL POWER PLAN AND DETAILS**  
1/4"=1'-0"



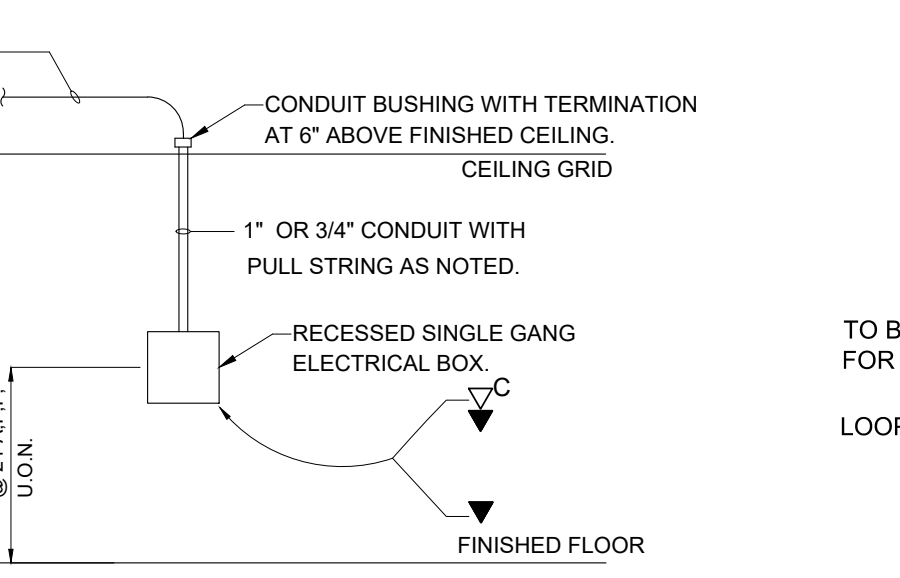
**NOTE:**  
REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT DIMENSIONED LOCATIONS FOR ALL WALL OUTLETS

**P.O.S. NOTES:**

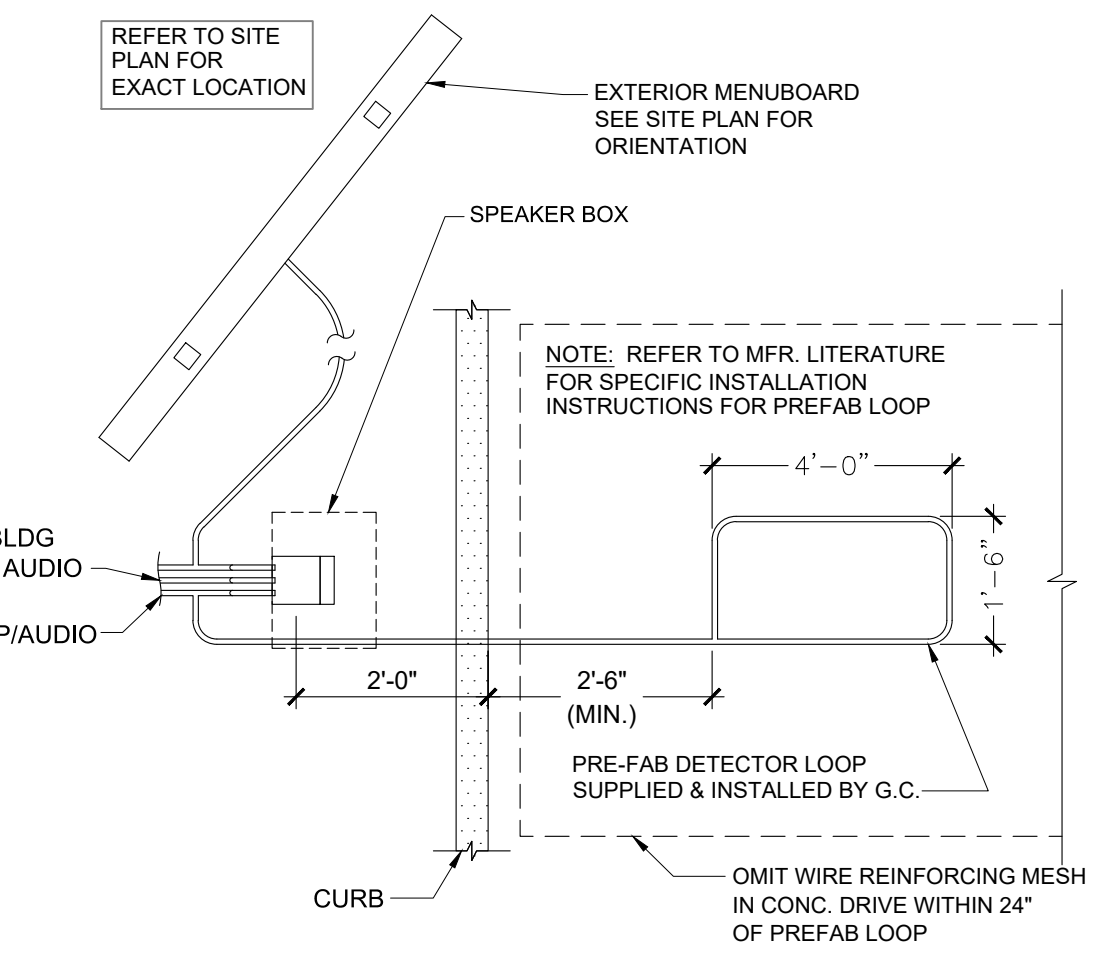
1. ALL P.O.S. (POINT OF SALE) CIRCUITS SHALL HAVE AN ISOLATED GROUND WIRE BACK TO THE PANEL. ALL P.O.S. EQUIP. SHALL BE WIRED INDEPENDENTLY OF ANY NON-P.O.S. EQUIPMENT.
2. ALL RECEPTACLES FOR P.O.S. EQUIPMENT SHALL BE ISOLATED GROUND WITH SURGE SUPPRESSOR TYPE. ALL RECEPTACLES FOR P.O.S. EQUIPMENT SHALL BE SINGLE UNIT, UNLESS A DUPLEX RECEPTACLE CAN BE USED TO SUPPLY TWO P.O.S. UNITS. DUPLEX RECEPTACLES MAY BE USED IN THE MANAGER'S OFFICE FOR NON-P.O.S. EQUIPMENT (COMPUTER, MUSIC, FIRE ALARM, SECURITY, ETC.)
3. ALL CIRCUITS FOR P.O.S. EQUIPMENT SHALL BE CONNECTED TO THE SAME PHASE OF POWER IN THE PANEL. ALL BRANCH CIRCUIT BREAKERS SUPPLYING P.O.S. EQUIPMENT SHALL HAVE LOCKING HANDLES DEVICES.
4. EACH RECEPTACLE TYPE (LOCKING OR STRAIGHT BLADE) SHALL MATCH THAT OF THE EQUIPMENT FURNISHED. WHERE P.O.S. EQUIPMENT IS FURNISHED WITHOUT A PLUG THE RECEPTACLE SHALL BE LOCKING TYPE. COORDINATE RECEPTACLE TYPES WITH THE P.O.S. EQUIPMENT SUPPLIER.

**GENERAL NOTES:**

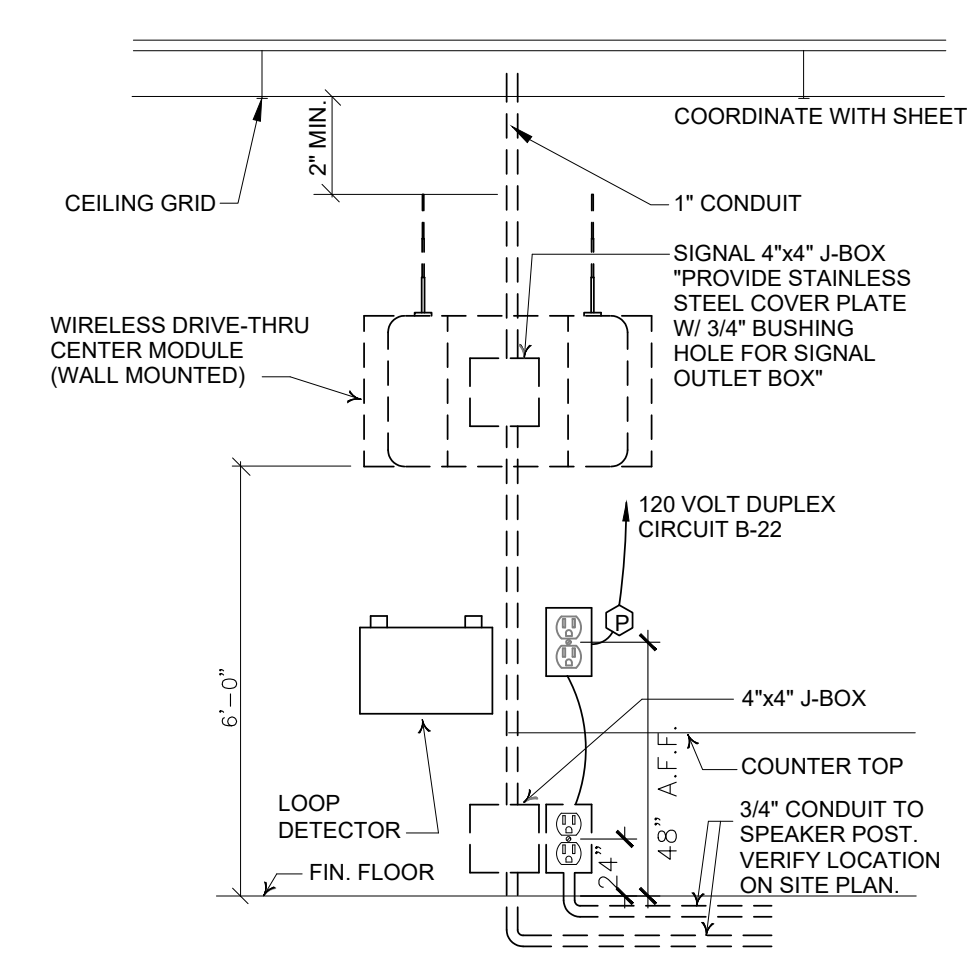
- A. VERIFY MOUNTING HEIGHTS OF ALL RECEPTACLES WITH EQUIPMENT SUPPLIED PRIOR TO INSTALLATION.
- B. ALL EQUIPMENT ELECTRICAL OUTLETS ARE DIMENSIONED TO CENTERLINE OF BOX FROM ABOVE FINISHED FLOOR.
- C. ELECTRICAL CONTRACTOR TO PROVIDE CORD & PLUG CONNECTIONS FOR EQUIPMENT AS REQUIRED.
- D. ALL 120V, 20A OUTLETS IN THE FOOD PREP AREA SHALL BE GROUND FAULT INTERRUPT TYPE.
- E. BEFORE PHONE IS INSTALLED, THE FOLLOWING NEEDS TO BE IN PLACE:  
E.A. CONDUIT AND PULL STRING  
E.B. BACK BOARD - GROUNDED ON FIRE RETARDANT WALL.
- F. KVS 3 ON BACK LINE NEEDS TO BE A POLE MOUNT.
- G. PROVIDE "UP" OUTLET AT ROOFTOP EQUIPMENT.



**2 TYP. COMM. STUB UP DETAIL**  
NOT TO SCALE



**3 DRIVE THRU DETECTOR LOOP**  
NOT TO SCALE



**4 DRIVE THRU AUDIO TIMERS**  
NOT TO SCALE

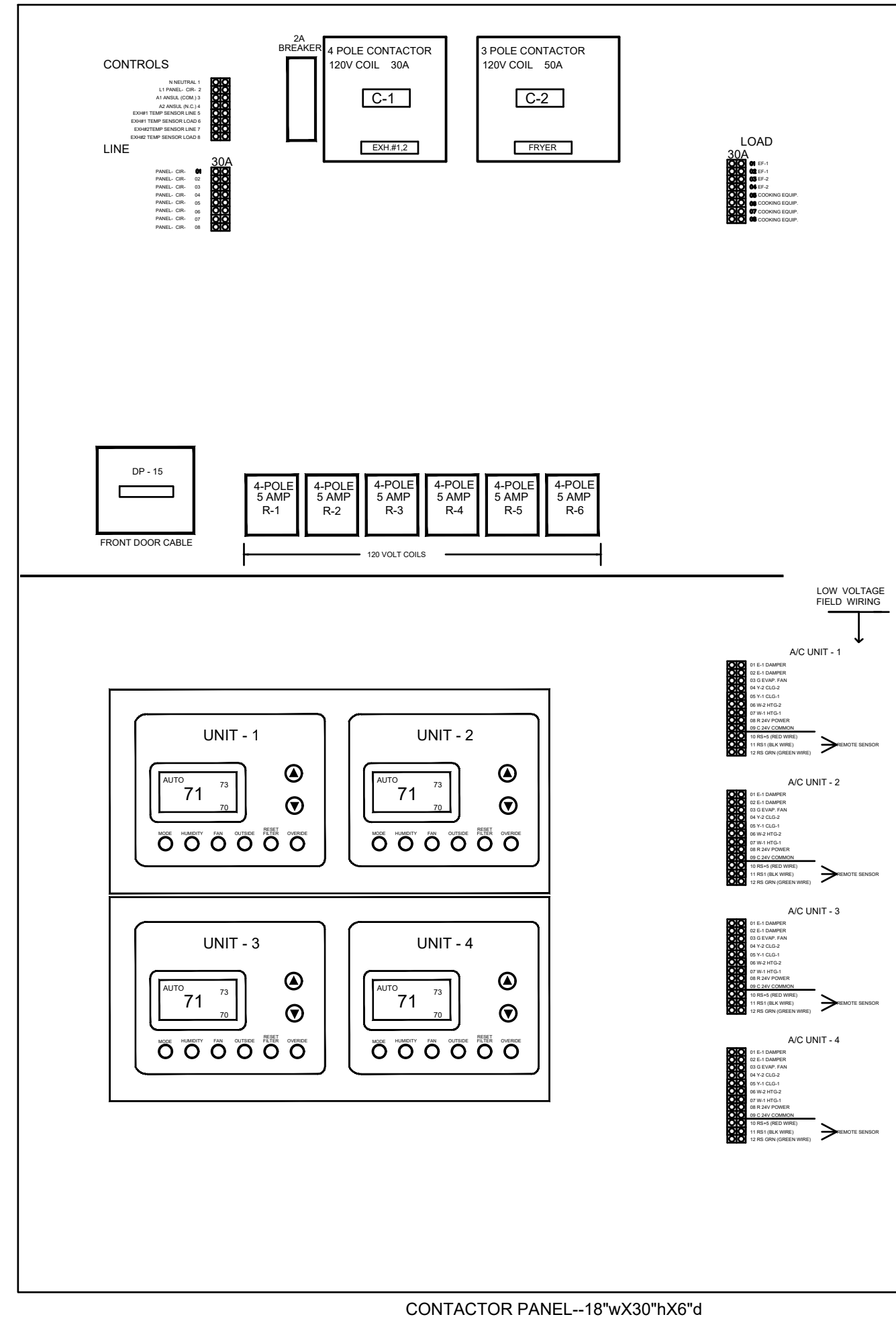
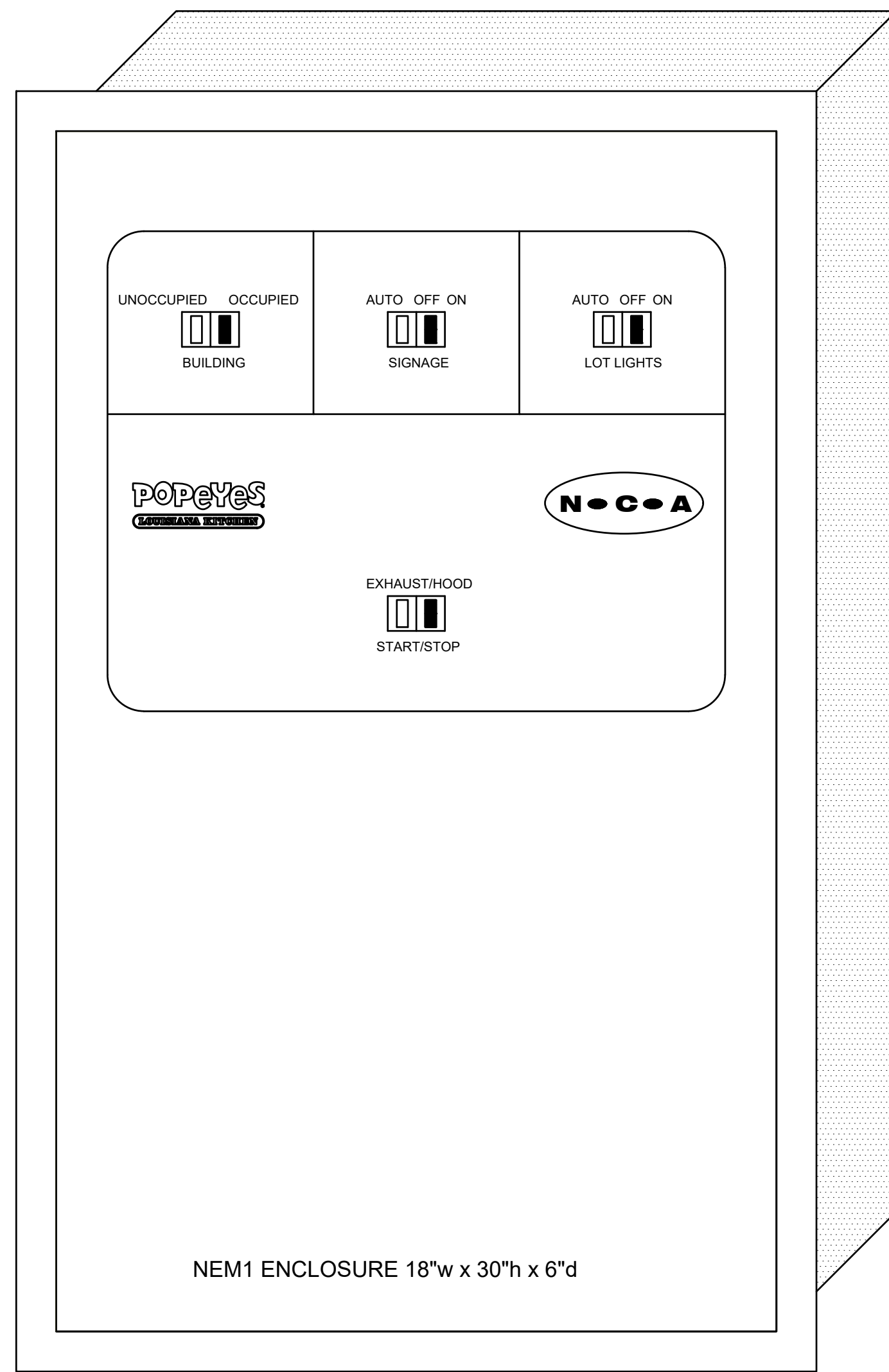
HIGH OUTPUT PRODUCTION COUNTER									
PANEL "H10.3PD"; 120-208V 60HZ									
CIRCUIT	QTY	PART	VOLTS	PH	AMPS	L1 (KVA)	L2 (KVA)	L3 (KVA)	WIRING
1	1	HOLDING CABINET DHB-P1A (D-92)	208	1	13.87	1.44		1.44	2#12, 1#120, 3/4"
2	1	HOLDING CABINET DHB-P1A (D-92)	208	1	13.87	1.44	1.44		2#12, 1#120, 3/4"
3	1	LVC REFRIGERATOR (J40)	120	1	4.90	0.59			2#12, 1#120, 3/4"
4	1	HOLDING CABINET DHB-SPT-41 (D-94)	208	1	23.7	2.46	2.46		2#10, 1#100, 3/4"
5	1	CERAMIC HEAT LAMP	120	1	5.1		0.61		2#12, 1#120, 3/4"
6	1	HOLDING CABINET DHB-SPT-60P (D-93.1)	208	3	28	3.36	3.36	3.36	4#8, 1#100, 3/4"
			TOTAL (KVA)			6.83	7.87	7.26	
			MINIMUM CIRCUIT AMPACITY:			76.2			
			MAXIMUM OVER CIRCUIT PROTECTION:			100			



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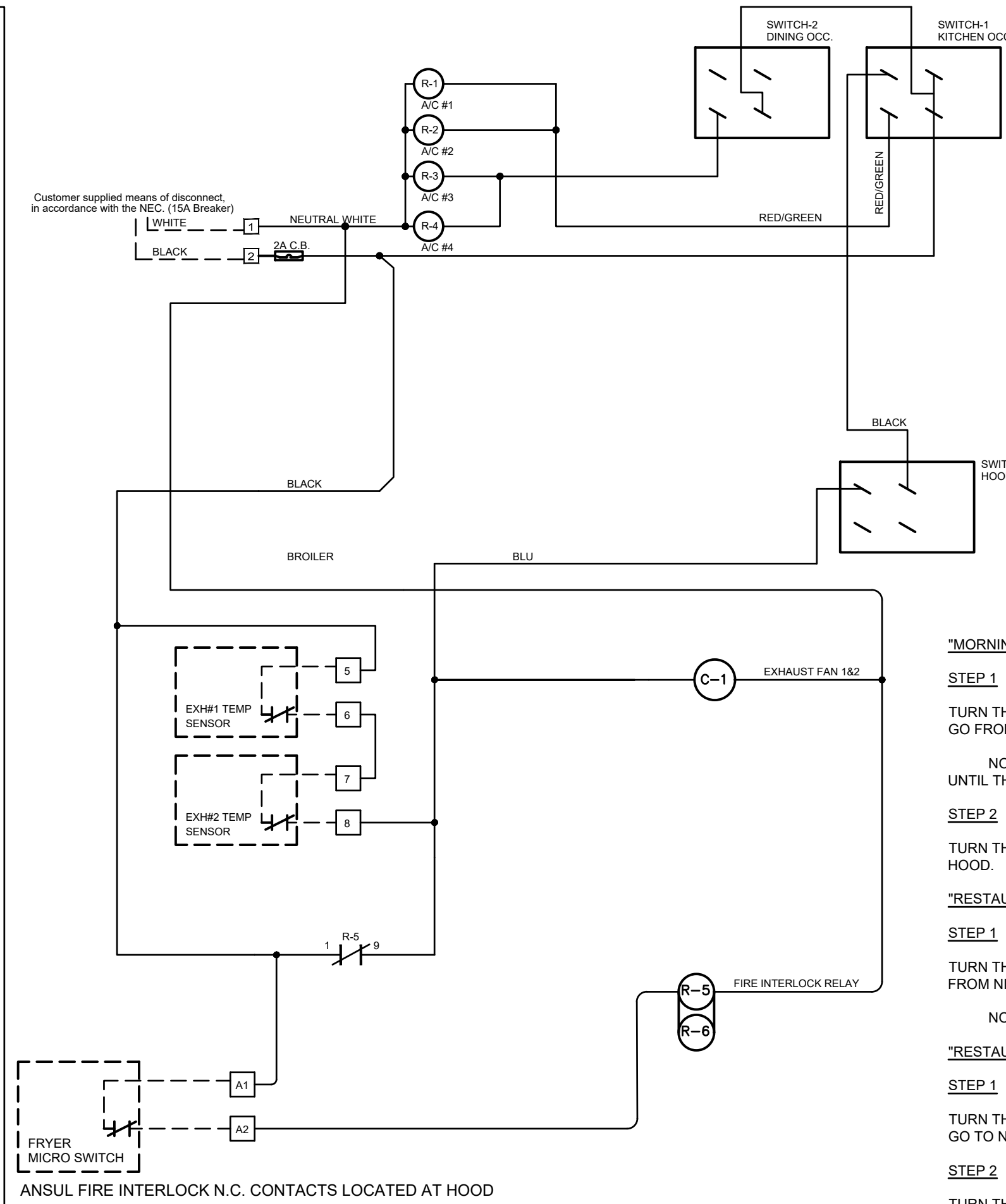


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PANEL LAYOUT

ON-OFF CONTROL PANEL WIRING



PANEL SCHEMATIC DIAGRAMS

**N-C-A**  
CONSULTANTS/GROUP  
NATIONAL CORPORATE ACCOUNT SERVICES, INC.

DRAWINGS SHOWN ARE FOR PROTOTYPICAL CONSIDERATIONS ONLY. SITE-SPECIFIC DESIGN IS REQUIRED BY POPEYES LOUISIANA KITCHEN AS A COURTESY. NCA CONSULTANTS PROVIDES SITE-SPECIFIC DESIGN WITH SITE-SPECIFIC PROFESSIONAL ENGINEER SEAL UNDER AN AGREEMENT BETWEEN NCA CONSULTANTS AND POPEYES LOUISIANA KITCHEN.

FOR SITE-SPECIFIC DESIGN, ARCHITECTS EMAIL REFLECTED CEILING PLAN, ELEVATIONS, KITCHEN PLANS, FLOOR PLAN, AND ROOF STRUCTURAL PLAN TO DESIGN@NCACONSULTANTS.COM  
TO CONTACT THE DESIGN DEPARTMENT BY PHONE CALL TOLL-FREE (877) 530-0078.

DATE	DESCRIPTION	PREPARED BY
03/01/23	PROTOTYPICAL USE ONLY	ODEVNEY

NOT FOR CONSTRUCTION

**\*MORNING ARRIVAL\***

**STEP 1**  
TURN THE KITCHEN UN-OCCUPIED/OCCUPIED SWITCH TO THE THE OCCUPIED POSITION. THE KITCHEN AIR CONDITIONING SYSTEM WILL GO FROM NIGHT SETBACK MODE TO THE THERMOSTATS OCCUPIED SET POINT.

NOTE: THE KITCHEN AIR CONDITIONING BLOWER FANS WILL START AND RUN CONTINUOUSLY. THE EXHAUST FAN WILL NOT RUN UNTIL THE KITCHEN A/C SWITCH IS IN THE OCCUPIED POSITION.

**STEP 2**

TURN THE HOOD/EXH SWITCH TO THE ON POSITION THIS WILL TURN ON YOUR EXHAUST FAN AND THE COOKING EQUIPMENT UNDER THE HOOD.

**\*RESTAURANT OPEN FOR BUSINESS\***

**STEP 1**

TURN THE DINING UN-OCCUPIED/OCCUPIED SWITCH TO THE THE OCCUPIED POSITION. THE DINING AIR CONDITIONING SYSTEM WILL GO FROM NIGHT SETBACK MODE TO THE THERMOSTATS OCCUPIED SET POINT.

NOTE: THE DINING AIR CONDITIONING BLOWER FANS WILL START AND RUN CONTINUOUSLY.

**\*RESTAURANT CLOSE FOR BUSINESS\***

**STEP 1**

TURN THE DINING UN-OCCUPIED/OCCUPIED SWITCH TO THE THE UNOCCUPIED POSITION. THE DINING AIR CONDITIONING SYSTEM WILL GO TO NIGHT SETBACK MODE.

**STEP 2**

TURN THE EXHAUST FAN SWITCH TO THE OFF POSITION.

**\*MANAGER/LAST PERSON LEAVING THE BUILDING\***

**STEP 1**

TURN THE KITCHEN UN-OCCUPIED/OCCUPIED SWITCH TO THE UN-OCCUPIED POSITION. THE KITCHENS THERMOSTATS WILL SWITCH FROM THEIR OCCUPIED SETPOINTS TO THEIR NIGHT SETBACK SETPOINTS.

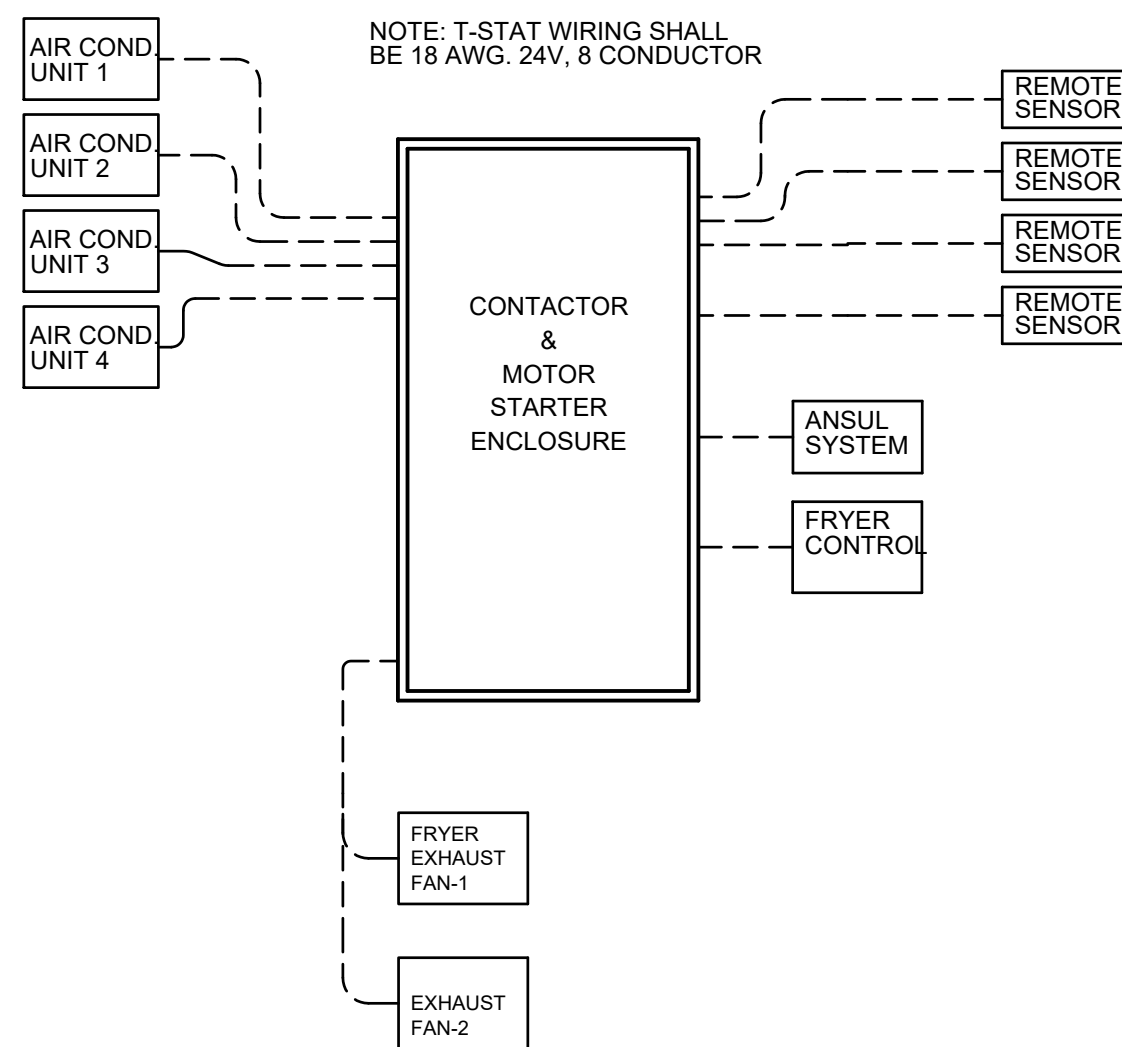
**NOTE:**  
ELECTRICAL CONTRACTOR OR HVAC SHALL ORDER THE HVAC CONTROL PANEL BY CALLING MARKETING AT NCA TOLL-FREE (877) 530-0078

**NOTE:**  
THE CONTROL PANEL SHALL BE COMPLETE WHEN SHIPPED TO THE JOB SITE. NO INTERNAL WIRING SHALL BE REQUIRED. MAKE ALL EXTERNAL WIRING CONNECTIONS AS REQUIRED.

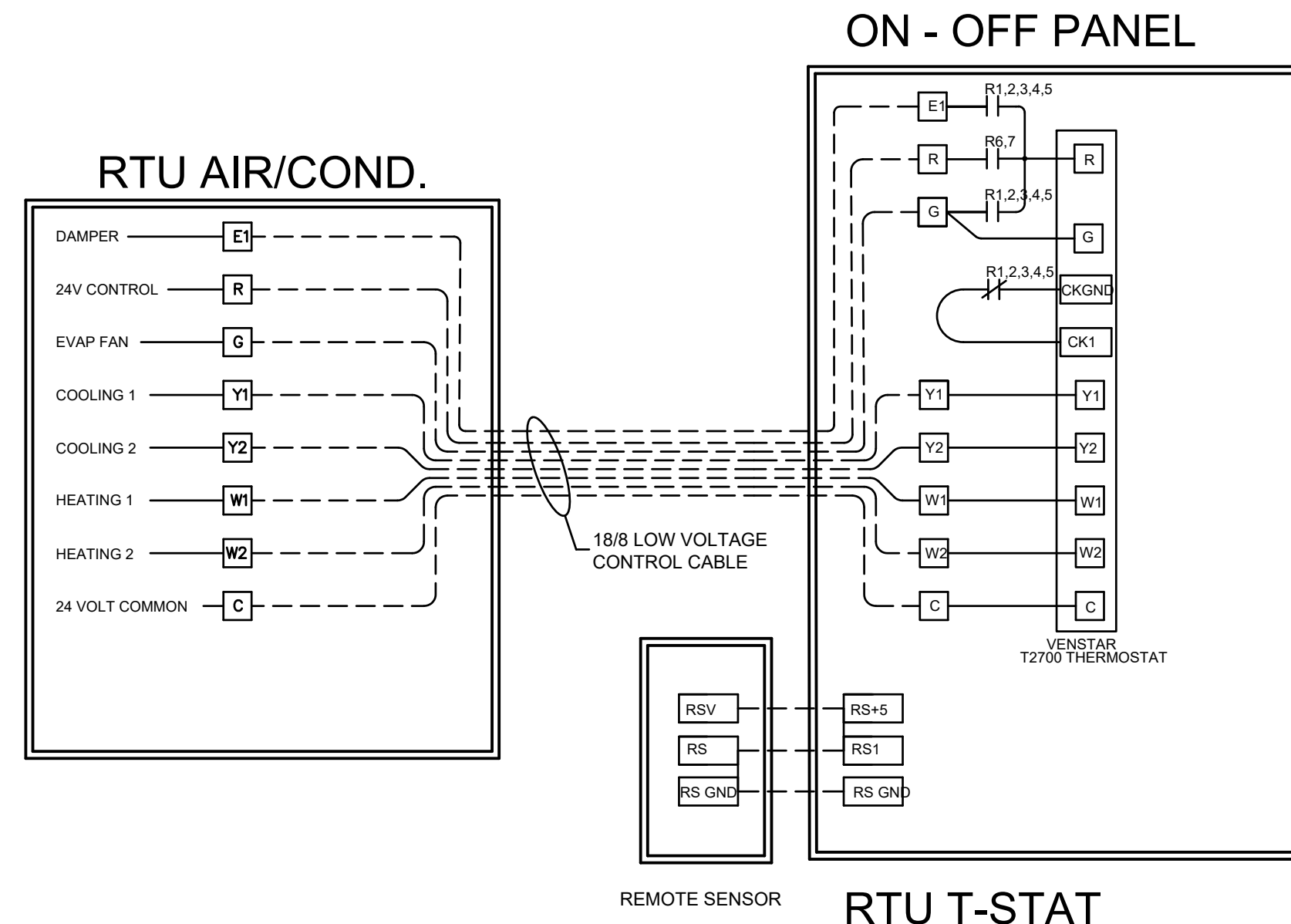
**ELECTRICAL CONTRACTOR NOTES:**

1. RUN ONE (10) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM EACH ROOFTOP AIR CONDITIONING UNIT TO THE CONTROL PANEL.
2. RUN ONE (3) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM THE CONTROL PANEL TO EACH REMOTE SENSOR LOCATION.
3. RUN ONE (10) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM EACH SMOKE DETECTOR TO THE ATTENDANT AUDIO-VISUAL ANNUNCIATOR.
4. TERMINATION OF ALL 24 VOLT AIR CONDITIONING CONTROL WIRING SHALL BE DONE BY THE MECHANICAL CONTRACTOR.

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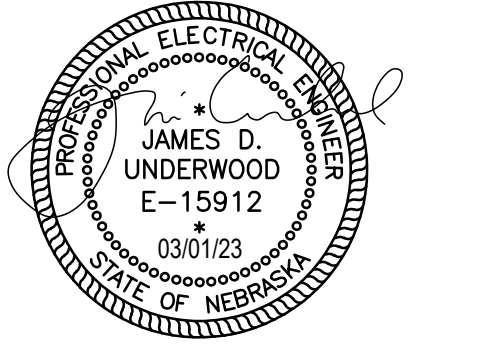
CONTROL RISER DIAGRAM



LOW VOLTAGE CONTROL WIRING  
ONE AIR CONDITIONING SYSTEM SHOWN



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POPEYES

Project No. | 021-01872  
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NCA Control Panel

Sheet No.

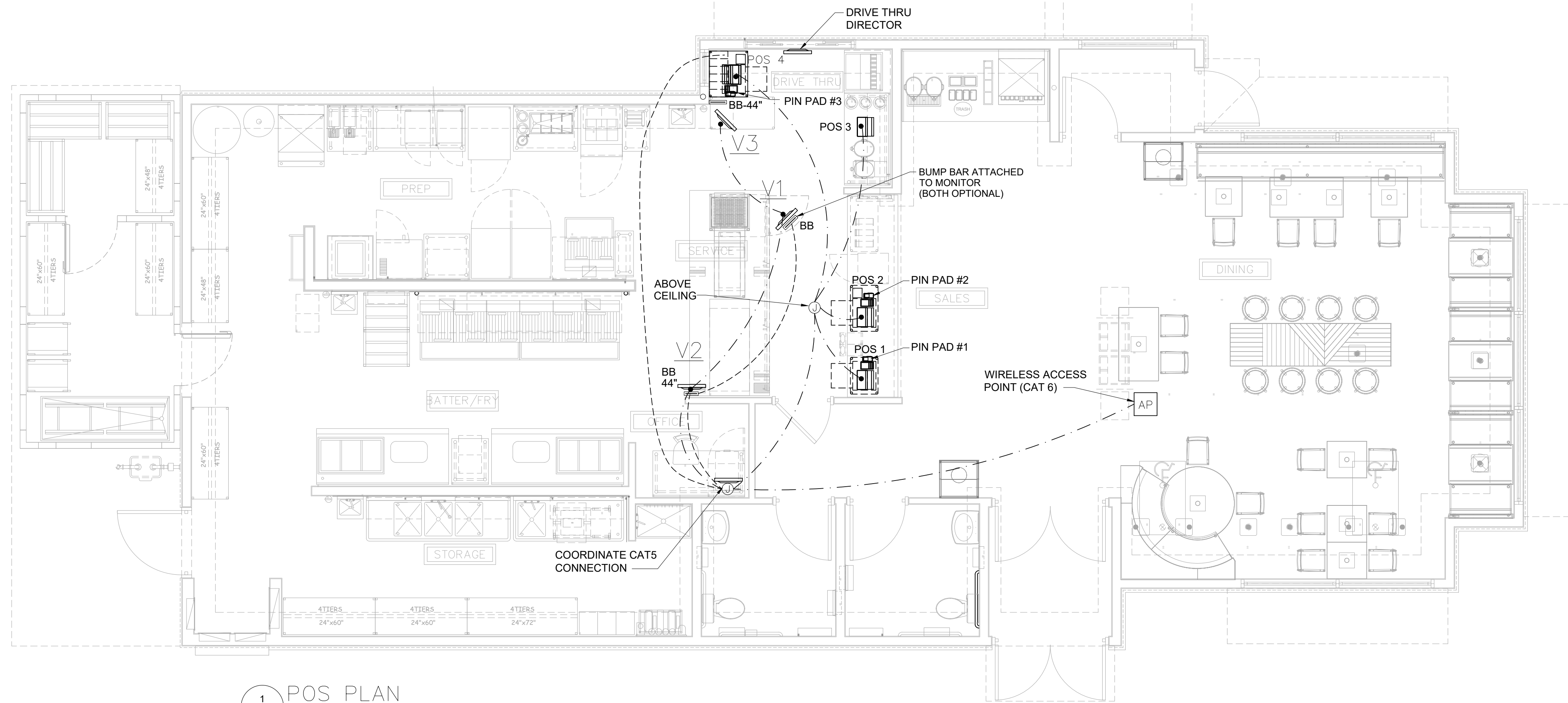
E2A



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**NOTE:**  
 THE ARCHITECT AND ENGINEERS OF RECORD SHALL VERIFY AND COORDINATE, IF NECESSARY, THE REQUIREMENT THAT A PERMIT MAY BE NEEDED FOR THE LOW VOLTAGE INSTALLATION IN THE RESTAURANT.

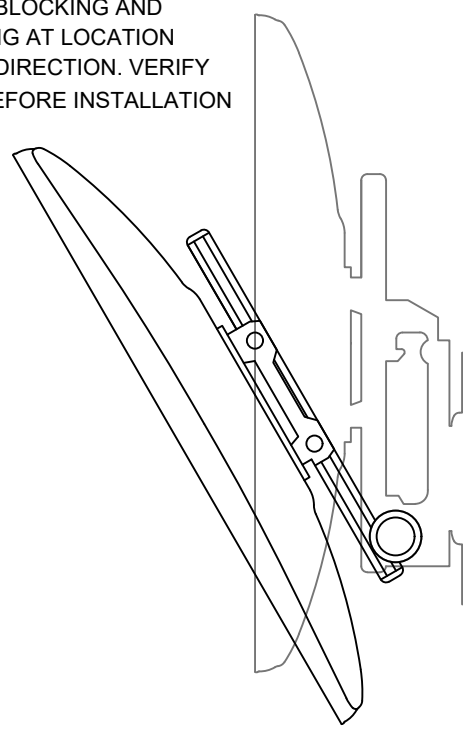
**LEGEND**

- BUMP BAR WIRING
- VIDEO MONITOR AND POS WIRING
- == BB - BUMP BARS
- V1 = VIDEO 1  
V2 = VIDEO 2  
V3 = VIDEO 3  
DRIVE THRU DIRECTOR
- POS PIN PAD
- POS- POINT OF SALE TERMINAL

1 POS PLAN  
 E4 1/4"=1'-0"

- REGISTER CONNECTIONS**
- CABLES SHALL BE COAX.
  - BUMP BARS SHALL BE MOUNTED TO DELIVERY SYSTEM AT AREAS MARKED "BB".
  - BUMP BAR CABLES SHALL BE RUN THROUGH DELIVERY SYSTEM FROM MOUNT UP THROUGH WALLS TO ABOVE THE CEILING AND BACK TO THE MANAGER STATION.
  - REFER TO THE ELECTRICAL SHEETS AND A13 FOR THE INSTALLATION LOCATIONS FOR THE J-BOXES
  - CRT MONITORS SHALL BE MOUNTED ON CEILING BRACKETS PROVIDED BY REGISTER SYSTEM.
  - WHERE CABLING IS INSTALLED IN WALLS, IT SHALL BE ROUTED IN A 1" CONDUIT THROUGH WALL TO ABOVE ACCESSIBLE CEILING.

- NOTES:**
- MONITOR BRACKETS TO BE SUPPLIED AND INSTALLED BY P.O.S. VENDOR.
  - G.C. TO SUPPLY 2x4 BLOCKING AND TO SECURE BLOCKING AT LOCATION PER P.O.S. VENDOR DIRECTION. VERIFY W/ P.O.S. VENDOR BEFORE INSTALLATION



2 LCD INSTALLATION  
 E4 BY POS

**SICOM DIGITAL MENU BOARD EQUIPMENT SPECIFICATIONS**

LG 49M56K LCD Display	
Viewable Size	124.46 cm (49")
Resolution	1320 x 1080
Brightness	450 cd/m <sup>2</sup>
External Control	RS232C, RJ45, IR receiver, Pixel Sensor, USB 1.0, SD Card
Power Consumption Typical	85W(Max), 60W(S4S)
Measurements	1102.2 x 638.5 x 38.6 mm (43.4" x 25.1" x 1.5")

LG 42WS50MS-1 LED Display	
Viewable Size	106.66 cm (42")
Resolution	1920 x 1080
Brightness	700 cd/m <sup>2</sup>
External Control	RS232C, RJ45
Power Consumption Typical	113W(Max), 75W(S4S)
Measurements	962.7 x 551.7 x 33 mm (37.9" x 21.8" x 1.3")

SICOM Digital Menu Board Controller	
CPU	AMD A4-5000 APU (quad-core, 1.5 GHz)
GPU	AMD Radeon HD 8350
Memory	6GB(DDR3, 4GB RAM)
Power Consumption	9W-25W
Measurements	127 mm x 127 mm x 45 mm (5.0" x 5.0" x 1.77")

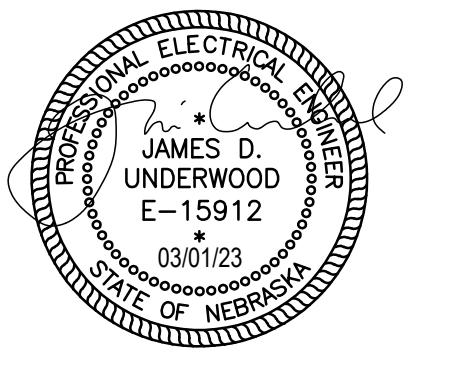
NETGEAR ProSafe-16-port 10/100 Desktop Switch	
Standards	IEEE 802.3 10Base-T; IEEE 802.3u 100Base-TX; IEEE 802.3x Flow Control
Switch Fabric	3.2Gbps forwarding capacity
Network Ports	16 auto-sensing 10/100 ports
Power Consumption	12V DC, 1.5A, 18W
Measurements	2.7 cm x 28.7 cm x 10.3 cm (1.1" x 11.3" x 4.1")

CyberPower CP1500EG Uninterruptible Power Supply	
Output Connections	(4) NEMA 5-15P (Battery Backup)
(Surge/Battery Backup)	(4) NEMA 5-15P (Surge Protection)
Input	90Vac - 140Vac
Output Power Capacity	1500VA(300 Watts)
Measurements	24.76 cm x 15.24 cm x 6.64 cm (9.75" x 6" x 2.62")

Software / Network / Electrical Requirements	
Integrates directly with POS Software	SICOM - All S-Series versions MICROS - Versions 4.x
Stand-alone	Can operate as a stand-alone DMB system for any POS.
Network	LAN w/ 2 dedicated IP's per DMB Example: 4 Screen Req. 8 IP Addresses
Internet / Router	High-Speed Internet connection w/ Port forwarding for Open VPN, port 1194
Electrical	Single dedicated 20A Circuit

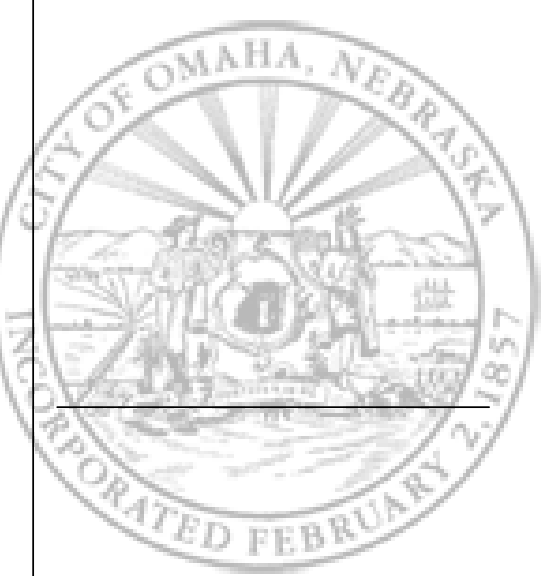
4434 Progress Meadow Drive, Doylestown, PA. 18902 | SICOM Systems Inc. 1

3 SICOM D/T DIRECTOR  
 E4 NTS



**REVISIONS**

1	03.01.2023	REV. 01
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**POPEYES**  
 NEW CONSTRUCTION  
 3430 NORTH 167TH STREET  
 OMAHA, NE 68116



**POPEYES**

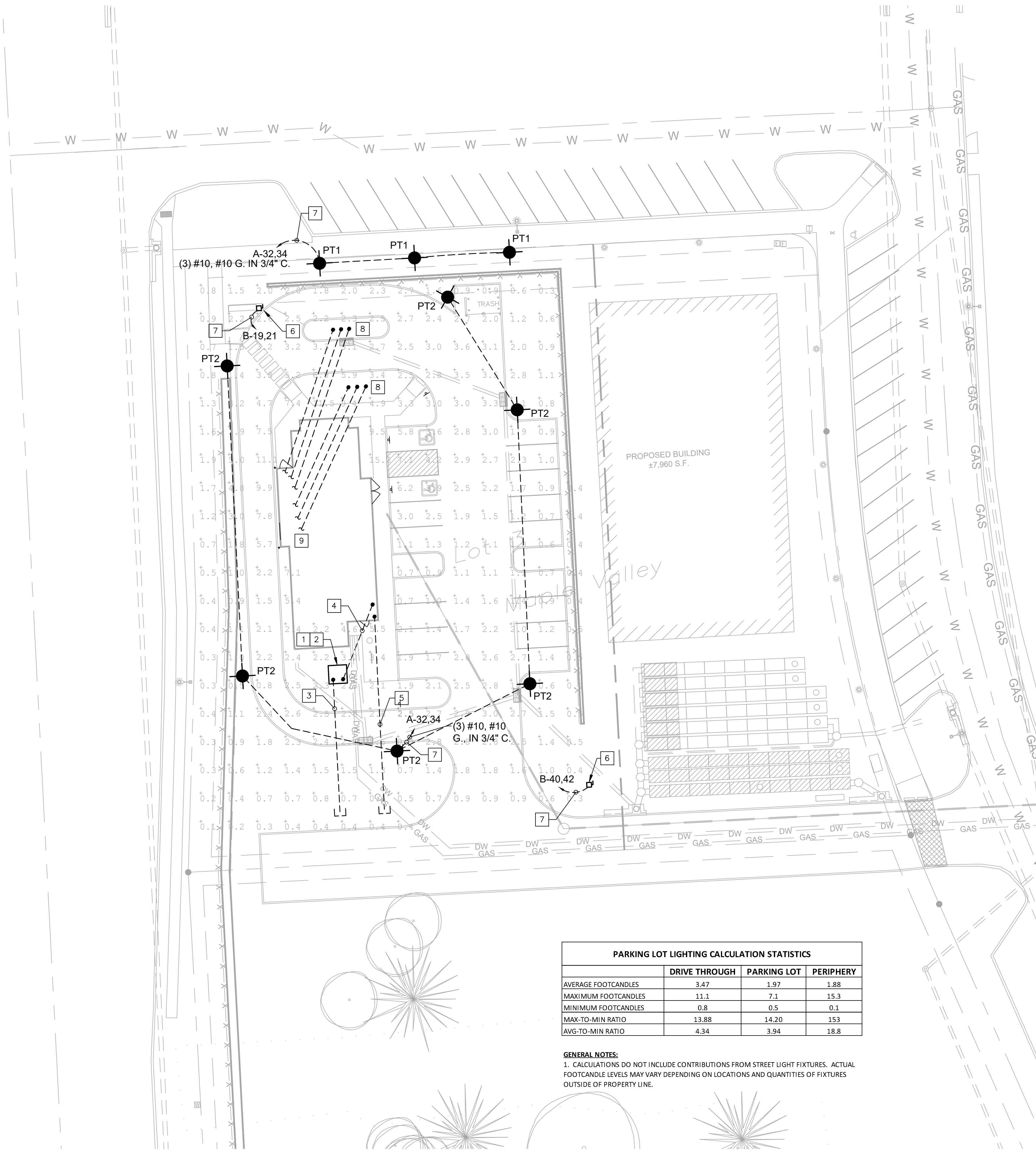
Project No. | 021-01872  
 Issue Date | 12-16-2022

POS Plan

Sheet No.  
**E4**



DWG: \\oa.ad.occonsulting.com\mnts-ns\Projects\2021\01501-02000\021-01872\40-Design\AutoCAD\Final Plans\Sheets\MECH\Electrical\A\_PUTIL\_02101872.dwg  
 DATE: Mar 08, 2023 11:41am XREFS: XTOPO\_021-01872 A\_PBASE\_02101872 A\_PUTIL\_02101872 USER: adevney



PARKING LOT LIGHTING CALCULATION STATISTICS			
	DRIVE THROUGH	PARKING LOT	PERIPHERY
AVERAGE FOOTCANDLES	3.47	1.97	1.88
MAXIMUM FOOTCANDLES	11.1	7.1	15.3
MINIMUM FOOTCANDLES	0.8	0.5	0.1
MAX-TO-MIN RATIO	13.88	14.20	153
AVG-TO-MIN RATIO	4.34	3.94	18.8

**GENERAL NOTES:**  
 1. CALCULATIONS DO NOT INCLUDE CONTRIBUTIONS FROM STREET LIGHT FIXTURES. ACTUAL FOOTCANDLE LEVELS MAY VARY DEPENDING ON LOCATIONS AND QUANTITIES OF FIXTURES OUTSIDE OF PROPERTY LINE.

1 ELECTRICAL SITE PLAN  
 ES1 1"=20'-0"

**GENERAL SHEET NOTES:**

- A. INSTALL UNDERGROUND CONDUITS 24" DEEP (MIN.) UNLESS NOTED OTHERWISE.
- B. USE #10 AWG FROM POLE BASE TO LUMINAIRE. MINIMUM SIZE FOR SITE BRANCH CIRCUIT CONDUITS AND WIRE SHALL BE 1" AND #10 AWG.
- C. ALL WORK SHALL BE IN ACCORDANCE WITH THE NEC. CONTRACTOR IS RESPONSIBLE FOR ALL FEES, LICENSES AND PERMITS.
- D. ALL BURIED CONDUITS SHALL BE SCHEDULE 40 PVC CONDUIT. PROVIDE LONG SWEEP ELBOWS FOR TURNS. NO CONDUITS SHALL BE EXPOSED. CONDUIT ABOVE GRADE SHALL BE GRS CONDUITS.
- E. COORDINATE LIGHT POLE LOCATIONS WITH SURROUNDING UTILITIES.
- F. INSTALL A DEDICATED EQUIPMENT GROUNDING CONDUCTOR WITH ALL BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH THE NEC.

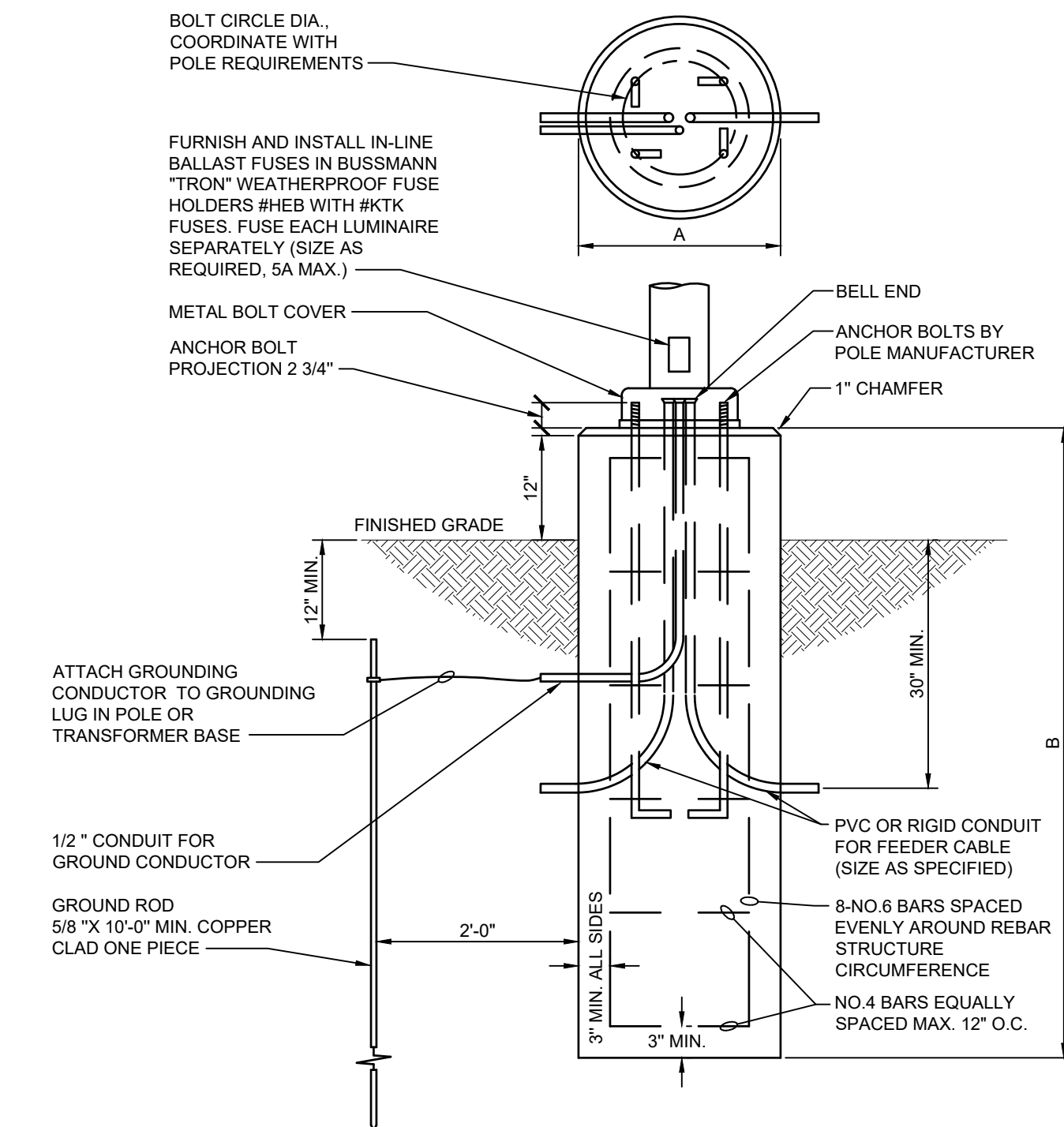
**SHEET KEY NOTES:**

- 1 PROPOSED POWER CO. TRANSFORMER LOCATION. PROVIDE CONCRETE PAD. SEE OPD METER SPECIFICATION MANUAL FIGURE 8.08.4 "30 PADMOUNT TRANSFORMER SLAB DETAIL" FOR ADDITIONAL INFORMATION.
- 2 POWER CO. METER. SEE OPD METER SPECIFICATION MANUAL FOR INSTALLATION REQUIREMENTS.
- 3 UNDERGROUND POWER CO. PRIMARY. SEE ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION. ROUTE CONDUIT AS DIRECTED BY POWER CO.
- 4 UNDERGROUND SECONDARIES. SEE ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 5 PROVIDE (2) 2" CONDUITS FOR INCOMING TELECOMMUNICATIONS SERVICE(S). ROUTE FROM PROPERTY LINE TO TELEPHONE BOARD. CAP AND FLAG CONDUIT END. COORDINATE CONDUIT ROUTING WITH SERVICE PROVIDER.
- 6 PROVIDE 30A NON-FUSED NEMA 3R DISCONNECT SWITCH FOR MONUMENT SIGN. COORDINATE FINAL LOCATION AND CONNECTION REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- 7 ROUTE CIRCUIT THROUGH LIGHTING CONTRACTOR. REFER TO SHEET E1 FOR ADDITIONAL INFORMATION.
- 8 COORDINATE CONDUIT PENETRATIONS FOR DRIVE-THROUGH MENU BOARDS, PREVIEW BOARDS, AND POST SPEAKERS WITH CIVIL AND ARCHITECTURAL DRAWINGS.
- 9 FOR CONDUIT CONTINUATION REFER TO SHEET E1 AND E2. COORDINATE CONDUIT SIZE AND QUANTITY FOR POWER AND DATA WITH ELECTRICAL SHEETS.

**LIGHTING FOUNDATION DATA**

MOUNTING HEIGHT	A	B	STEEL	CONCRETE
UP TO 30'	2'-0"	5'-0"	50 lb.	0.58 CU. YDS.

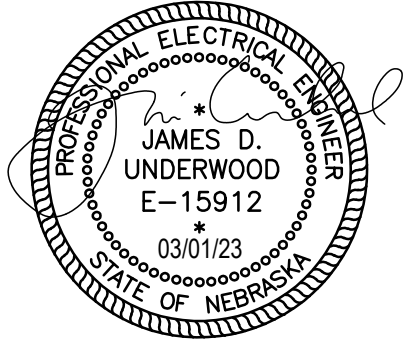
CONCRETE CLASS "47B-3000"  
 REINFORCING STEEL: GRADE 60



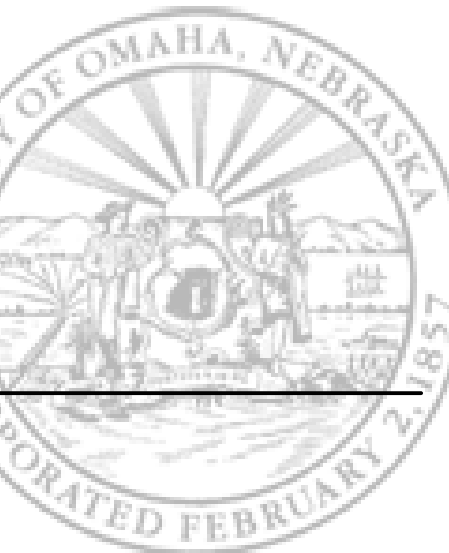
2 IN-GRADE CONCRETE FOUNDATION  
 ES1 NOT TO SCALE



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Electrical Site Plan

Sheet No.

ES1



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