# BUILDING

# **ENVELOPE**

WALL - SIMULATED STONE FINISH - U-VALUE = 0.078 WALL - E.F.I.S. FINISH - U-VALUE = 0.080

WALL - SIMULATED STONE FINISH 75 FT. SQ. WALL - E.F.I.S. FINISH - 291 FT. SQ.

WALL - SIMULATED STONE FINISH - 17 FT. SQ. WALL - E.F.I.S. FINISH - 442 FT. SQ.

WALL - SIMULATED STONE FINISH - 183 FT. SQ.

# WALL - E.F.I.S. FINISH - 749 FT. SQ.

RIGHT SIDE WALL - SIMULATED STONE FINISH - 165 FT. SQ. WALL - E.F.I.S. FINISH - 714 FT. SQ.

# <u>GLASS</u>

WINDOW GLASS - U-VALUE WINTER = 0.29 WINDOW GLASS - U-VALUE SUMMER= 0.27

# FRONT WINDOW GLASS - 99 FT. SQ.

# REAR WINDOW GLASS - 0.0 FT. SQ

<u>LEFT SIDE</u> WINDOW GLASS - 123 FT. SQ.

# WINDOW GLASS - 68 FT. SQ.

SINGLE PLY POLYVINYL-CHLORIDE ROOFING W/ TWO SHEETS DURO-GUARD ISO II (FLAT), 2 PLIES ATLAS FR-10 ON 1/2" PLYWOOD ROOF DECK. R-VALUE 30 (MIN)

TOTAL ROOF AREA - 2,030 FT. SQ.

GLASS - U-VALUE = 0.45 STEEL W/PAPER HONEY CONE CORE U-VALUE= 0.45

# FRONT NO DOOR - 0.0 FT. SQ.

STEEL DOOR - 26.0 FT. SQ.

RIGHT SIDE GLASS DOOR - 42.0 FT. SQ.

# <u>FLOOR</u>

SLAB ON GRADE W/ 3" RIGID INSULATION U-VALUE = 0.0667R-VALUE = 15

TOTAL FLOOR AREA - 2,143 FT. SQ.

FLOOR PERIMETER - 212 FT.

# EXHAUST HOOD DUCT NOTES (BY G.C.)

- 1. FRYER EXHAUST DUCTWORK ARE SIZED TO MAINTAIN A MINIMUM 1660 FPM EXHAUST AIR VELOCITY. ALL GREASE EXHAUST DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH NFPA-96. GREASE EXHAUST DUCTWORK SHALL HAVE ALL SEAMS, JOINTS AND PENETRATIONS SEALED LIQUID TIGHT.
- 2. ALL HORIZONTAL RUNS OF GREASE DUCT, EXHAUST AND CONDENSATE SHALL SLOPE BACK TOWARD THE HOOD, GRILLE OR DRAIN AT A SLOPE OF 1" PER FOOT.
- 3. THE MECHANICAL CONTRACTOR IS TO PROVIDE CLEANOUTS, AS REQUESTED PER DETAIL ON M2 SHEET.
- 4. THE DISCHARGE OF THE GREASE EXHAUST FAN SHALL BE UPWARD AND A MINIMUM OF 40" ABOVE THE ROOF SURFACE AND A MINIMUM OF 10' FROM ANY OUTSIDE AIR INTAKE.
- 5. ALL GREASE EXHAUST DUCTS SHALL HAVE RADIUSED ELBOWS. **EXHAUST DUCT PROTECTION:**
- 6. GREASE EXHAUST DUCT SHALL BE CARBON STEEL 16 GAUGE WELDED DUCTS PER NFPA-96 PROTECTED WITH THE FOLLOWING: 1" AIR SPACE FROM DUCT TO 22 GA SHEET METAL COVERED WITH 1" MINERAL WOOL AND WIRE MESH SECURED TO COMBUSTIBLES WITH 1" NON COMBUSTIBLE SPACERS TO REDUCE CLEARANCE TO COMBUSTIBLES TO 3" PER NFPA 96 A-1-3.2.

OPTIONAL COMBUSTIBLE PROTECTION: USE FIRE MASTER GREASE DUCT FIRE PROTECTION SYSTEM BY "THERMAL CERAMICS" WHICH OFFERS ZERO CLEARANCE TO COMBUSTIBLE & 2 HR. RATING.

# EXHAUST HOOD NOTES

- 1. THE FOLLOWING EQUIPMENT SHALL BE SUPPLIED BY OWNER AND INSTALLED BY THE HVAC CONTRACTOR.
- 1.1. STAINLESS STEEL HOODS AS SPECIFIED PRE PIPED FOR FIRE PROTECTION SYSTEM, CEILING CLOSURE STRIP, AND ALL EXHAUST FANS AND CURBS.
- 2. THE HVAC CONTRACTOR SHALL RECEIVE THE ABOVE EQUIPMENT UNCRATE, BE RESPONSIBLE FOR REPORTING DAMAGE RECEIVED DURING SHIPMENT, AND BE RESPONSIBLE FOR LOSS OR DAMAGE TO THE ABOVE EQUIPMENT ONCE RECEIVED ON THE JOB.
- 3. EXHAUST HOODS PROVIDED WILL MEET OR EXCEED THE FOLLOWING
- REQUIREMENTS, OR AS BY THE ACTIONABLE CODE: 3.1. NSF # 1362 BEAR THE NSF SEAL OF APPROVAL
- 3.2. U.L. CLASSIFICATION # 24N1 3.3. MEET OR EXCEED NFPA # 96, 1998 EDITION
- 3.4. 2006 IMC
- 4. THE MECHANICAL ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING A SET OF SHOP DRAWINGS FROM THE HOOD MANUFACTURER. THE ENGINEER SHALL BE RESPONSIBLE FOR NOTIFYING THE ARCHITECT OF ANY LOCAL CODES WHICH WILL AFFECT THE HOOD MANUFACTURE OR
- 5. THE HOOD MANUFACTURER SHALL PROVIDE PRE-PIPED AUTOMATIC FIRE CONTROL SYSTEMS FOR THE FRYER HOOD INCLUDING FIRE CONTROL CABINETS - AND FURNISH A 2 POLE MICRO SWITCH FURNISHED FOR EQUIPMENT SHUT OFF. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL INSTALLATION AND INSPECTIONS OF THE HOOD EXHAUST SYSTEM HOOD EXTINGUISHING SYSTEM BY CERTIFIED FIRE SUPPLY CONTRACTOR.
- 6. THE PLUMBING CONTRACTOR SHALL INSTALL THE MECHANICAL GAS VALVE IN ACCORDANCE WITH THE APPLICABLE CODES. THE VALVE SHALL BE PROVIDED BY PLUMBING CONTRACTOR.
- 7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING IN ACCORDANCE WITH THE "HOOD WIRING DIAGRAM" SHEET AS DIRECTED BY THE ELECTRICAL ENGINEER.
- 8. MANUAL PULL STATION SHALL BE PROVIDED BY HOOD CONTRACTOR AND INSTALLED BY FIRE SUPPLY CONTRACTOR.

# REGIONAL COORDINATION

MAKE-UP AIR FOR THE FRYER HOOD SHALL BE INDUCED THROUGH THE HVAC SYSTEMS, AS LONG AS THE OUTSIDE AIR QUANTITIES DO NOT EXCEED 25% OF THE HVAC SYSTEM CAPACITIES. IF ADDITIONAL MAKE-UP AIR IS REQUIRED. THE ENGINEER SHALL CONTACT THE HOOD MANUFACTURER TO DESIGN AN ADDITIONAL TEMPERED OR NON-TEMPERED MAKE-UP AIR SYSTEM, DEPENDING ON REGIONAL WEATHER REQUIREMENTS.

# SECTION 15B - HEATING, VENTILATION, AIR

# CONDITIONING AND REFRIGERATION

- **GENERAL PROVISIONS**
- 1. SCOPE: PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING HEATING, VENTILATING, AIR CONDITIONING. REFRIGERATION SYSTEMS BY OTHERS. WORK UNDER THIS SECTION INCLUDES, BUT IS NOT NECESSARILY LIMITED TO
- 1.1. FURNISH AND INSTALL THE FOLLOWING: ROOFTOP UNITS AND CURBS, INSULATION, DUCT WORK FOR AIR DEVICES, HVAC CONTROLS AND PROPER LOW VOLTAGE COMPONENTS FOR COMPLIANCE WITH NFPA 96 AND 72.
- 1.2. INSTALL THE FOLLOWING: EXHAUST FANS, HOODS, AND GREASE RISER. ICE MACHINE AIR COOLED CONDENSER ON ROOF BY OTHERS.
- 1.3. GENERAL REQUIREMENTS: ALL WORK UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH FEDERAL, STATE, AND LOCAL CODES. WHERE THESE PLANS AND SPECIFICATIONS ARE IN CONFLICT WITH SUCH CODES, THE CODES SHALL GOVERN. PAY FOR AND OBTAIN NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION.

COORDINATE WORK WITH OTHER TRADES. LOCATIONS SHOWN ON DRAWINGS ARE APPROXIMATE. FIELD LOCATE ROOF CURBS BASED ON THE GENERAL DIRECTIONS GIVEN ON CONSTRUCTION DOCUMENTS.

# 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 POPEYES DEVELOPMENT. A SUBSTITUTIONS LIST SHALL BE SUBMITTED IN TRIPLICATE FIVE (5)DAYS BEFORE THE CONTRACT IS TO BE LET.
- NATIONAL ACCOUNTS: ROOFTOP HVAC EQUIPMENT, TOILET EXHAUST FANS, HVAC DUCT SYSTEMS, AND HVAC DIFFUSERS, GRILLES, AND PLENUM BOXES ARE AVAILABLE FROM NATIONAL ACCOUNTS INDICATED ON THE DRAWING COVER SHEET. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH PLANS AND MANUFACTURERS' INSTRUCTIONS. FOR NATIONAL ACCOUNTS INFO REFER TO DIRECTORY
- ROUTING OF DUCT SYSTEMS: COORDINATE ROUTING OF DUCT SYSTEMS WITH OTHERS, LINE UP WORK TRUE TO ADJACENT SPACES AND IN A WORKMANLIKE MANNER, AND USE STANDARD RADIUS 90 ELBOWS. WHERE REQUIRED, DUCTWORK IS TO BE STURDILY SUPPORTED AND SEPARATED IN ACCORDANCE WITH ASHRAE & SMACNA STANDARDS.
- DUCTWORK FOR HVAC SYSTEM:

A LICENSED TEST AND BALANCE CONTRACTOR SHALL PROVIDE ALL TOOLS AND TEST EQUIPMENT NECESSARY FOR BALANCING ALL HVAC AND EXHAUST AIR SYSTEMS. A "DIGITAL" ANEMOMETER MODEL DA 4000 WITH A 275 PROBE IS RECOMMENDED FOR MEASURING HOOD EXHAUST.

# 4.1. GENERAL NOTES:

- 4.1.1. VOLUME DAMPERS SHALL BE INSTALLED AT ALL BRANCH RUNOUTS 4.1.2. DUCT DIMENSIONS INDICATED ARE INSIDE DIMENSIONS
- 4.1.3. DUCTWORK SHALL BE BUILT IN ACCORDANCE WITH ASHRAE AND
- SMACNA STANDARDS.
- 4.1.4. DUCT BOARD IS NOT ALLOWED.
- 4.2. METAL DUCTWORK:
- 4.2.1. DUCTWORK SHALL BE CONSTRUCTED OF G-90 GALVANIZED SHEET METAL.
- 4.2.2. THE GAUGES OF METAL TO BE USED AND THE CONSTRUCTION AND BRACING OF JOINTS SHALL BE IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS.
- 4.2.3. METAL DUCT SHALL BE SUPPORTED FROM BUILDING STRUCTURE ON STRIP HANGERS NOT OVER 5'-0" APART.
- 4.3. EXTERNAL S/A. R/A DUCT WRAP:
- 4.3.1. INSULATE EXTERIOR OF ALL S/A, R/A METAL DUCT FITTINGS WITH 2" THICK FIBERGLASS, 3/4 LB.DENSITY, BLANKET INSULATION WITH FOIL BACKING ANDUL LABELED.
- 4.3.2. INSULATION SHALL HAVE A FLAME SPREAD OF TWENTY FIVE (25) OR LESS AND A SMOKE DEVELOPED RATING OF FIFTY (50) OR
- 4.3.3. INSULATION SHALL BE OWENS-CORNING FRK25 OR EQUAL. 4.3.4. INSULATION SHALL BE LIGHTLY LAPPED WITH 2" WIDE VAPOR BARRIER PRESSURE-SENSITIVE TAPE.
- 4.3.5. DUCT WRAP SHALL BE INSTALLED IN A NEAT AND COMPETENT MANNER WITH ALL EDGES COVERED WITH APPROVED METALLIC DUCT TAPE TO VAPOR-PROOF THE ENTIRE DUCT.
- 4.4. FLEX CONNECTORS/FLEX DUCT:
- 4.4.1. INSULATION AND VAPOR BARRIERS PRESENT ON ALL FLEX CONNECTORS SHALL BE FITTED OVER THE CORE CONNECTION AND SHALL BE SUPPLEMENTALLY SECURED WITH A DRAW BAND
- 5. TEMPERATURE SETTINGS:
- 5.1. AT CONCLUSION OF PROJECT, SET POINTS SHALL BE APPROXIMATELY COOLING 78 DEGREES F/ HEATING 68 DEGREES F, AND INSTRUCT OWNER HOW TO RESET.
- ROOF CURBS:
- 6.1. CURBS TO BE FURNISHED BY NCA CONSULTANTS AND INSTALLED IN ACCORDANCE WITH DETAILS ON SHEET M2. COORDINATE WITH ROOF CONTRACTOR. RTU'S SHALL BE INSTALLED SUCH THAT ROOF DECK IS CONTINUOUS BENEATH, AND OPEN PLENUM CURBS FLANGE TO FLANGE. SEE M2 SHEET.
- 7. TESTING AND ADJUSTING OF HVAC SYSTEM: 7.1. UPON COMPLETION OF THE INSTALLATION, THE PROJECT SHALL BE
- TESTED AND ADJUSTED AS FOLLOWS: 7.1.1. ADJUST FAN DRIVES TO ACHIEVE REQUIRED AND RATED CFM. 7.1.2. ADJUST TEMPERATURE AND FAN CONTROL SEQUENCE. 7.1.3. ADJUST THE ENTIRE INSTALLATION AS TO MINIMIZE NOISE AND
- VIBRATION FROM FANS. 7.1.4. ELIMINATE ANY DUCT PULSATION BY USE OF STIFFENERS OR ADDITIONAL SUPPORTS AS REQUIRED.
- 7.1.5. CORRECT ANY EQUIPMENT OR COMPONENT WHICH IS GENERATING OBJECTIONABLE NOISE IN THE OPINION OF THE OWNER OR BY LOCAL AUTHORITIES.
- 7.1.6. BALANCE EXHAUST AND OUTSIDE AIR TO QUANTITIES INDICATED ON THE PLANS. REFER TO BUILDING AIR BALANCE SCHEDULE.
- 7.1.7. PROVIDE OWNER AND ENGINEER OF RECORD TWO(2)COPIES OF A WRITTEN AIR BALANCE REPORT INDICATING ALL FINAL EXHAUST, SUPPLY, AND OUTSIDE AIR FLOWS.

- 8. PIPING TO BE HERMETICALLY SEALED.
- 9. CONTROLS: FURNISH AND INSTALL AS INDICATED ON DRAWINGS. FURNISH AND INSTALL ALL CONTROL WIRING AND CABLES FROM HVAC UNITS, TEMPERATURE SENSORS, PHOTOCELL, AND CONTRACTOR PANEL IF USED. ROUTE CONTROL WIRING IN RACEWAY IN EQUIPMENT IF PROVIDED.
- 10. HOOD EXHAUST FANS AND DUCTWORK: INSTALL ALL HOOD EXHAUST FANS IN ACCORDANCE WITH THE PLANS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. COOKING EXHAUST FANS ARE SUPPLIED BY OWNER. VENTILATOR EXHAUST DUCT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 96.
- 11. CLEANUP: AFTER COMPLETION OF THE WORK BEFORE FINAL INSPECTION CLEAN HVAC EQUIPMENT.
- 12. FILTERS: PROVIDE CLEAN SET OF FILTERS FOR EACH HVAC UNIT WHEN TURNED OVER TO THE OWNER.
- 13. HVAC OPERATOR'S MANUAL AND DIAGRAMS:
- 13.1. PROJECTS PARTICIPATING IN THE NATIONAL ACCOUNTS PROGRAM SHALL FOLLOW THE PROCEDURE OUTLINED IN THE NATIONAL ACCOUNT.
- 13.2. PROJECTS NOT PARTICIPATING IN THE NATIONAL ACCOUNT SHALL FOLLOW THE FOLLOWING PROCEDURE:
- 13.2.1. PREPARE IN DUPLICATE A MANUAL DESCRIBING THE PROPER MAINTENANCE AND OPERATION OF THE SYSTEM. THIS MANUAL SHALL NOT CONSIST OF STANDARD FACTORY-PRINTED INSTRUCTIONS, ALTHOUGH THESE MAY BE INCLUDED, BUT SHALL BE PREPARED TO DESCRIBE THIS PARTICULAR PROJECT.
- THE MANUALS SHALL BE BOUND, INDEXED, DATED, AND SIGNED BY THE GENERAL CONTRACTOR. ONE (1) COPY SHALL BE SENT TO POPEYES DEVELOPMENT AND THE OTHER TO THE OWNER. QUALIFIED REPRESENTATIVES OF THE AIR CONDITIONING CONTRACTOR SHALL MEET WITH THE DESIGNATED REPRESENTATIVE OF THE OWNER. THE OWNER'S REPRESENTATIVE SHALL BE INSTRUCTED IN THE PROPER OPERATION AND MAINTENANCE OF THE HVAC AND CONTROL
- 14. GUARANTEE: MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR ONE (1) YEAR FROM DATE OF COMPLETION. IN ADDITION, ALL REFRIGERATION COMPRESSORS SHALL BEAR A NON-PRORATED 5-YEAR FACTORY WARRANTY, AND ALL EXTENDED WARRANTIES.
- 15. SERVICE ACCESS:
- 15.1. PROVIDE SERVICE ACCESS AS REQUIRED IN MANUFACTURER'S INSTALLATION INSTRUCTIONS. IF SUCH ACCESS IS NOT AVAILABLE. NOTIFY OWNER AND ATTEMPT TO SEE IF NECESSARY CHANGES CAN BE WORKED OUT WITH OTHER TRADES. IF NOT, DO NOT INSTALL EQUIPMENT WHICH DOES NOT MEET MANUFACTURER'S REQUIREMENTS FOR ACCESSIBILITY. IN NO CASE BID, SUBMIT, OR INSTALL EQUIPMENT IN SITUATIONS THAT DO NOT MEET THE
- MANUFACTURER'S WARRANTY REQUIREMENTS. 16. ENVIRONMENTAL CORROSION PROTECTION. CONDENSER, COOLING/HEATING COILS:
- 16.1. REQUIRED FACTORY DIPPED COATING WITHIN ONE MILE OF ANY SALT WATER BODY. FACTORY PRE-COAT WITHIN ONE TO FIVE MILES OF ANY SALT WATER BODY.

# GENERAL NOTES:

HVAC CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT. AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, ETC.

2. ALL ROOF MOUNTED EQUIPMENT AND PENETRATIONS SHALL BE

- FLASHED A MINIMUM OF 12" ABOVE THE ROOF. PROVIDE AMPLE CURBS.
- 3. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY EXHAUST FAN OR PLUMBING VENT. REFER TO ROOF PLAN.
- 4. THE HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH HE INSTALLS. AND OTHER ITEMS FURNISHED BY OTHERS AS WELL AS THOSE FURNISHED BY HIM.
- 5. CONDENSATE DRAINAGE FROM ROOF TOP HVAC UNITS SHALL BE TRAPPED. REFER TO ROOF PLAN.
- 6. PROVIDE VIBRATION ISOLATION GASKETS AT FLANGE MARRIAGES. SEE DETAIL ON M4 SHEET.

ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE

- 8. MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND
- DIFFUSER LOCATIONS WITH LIGHTING LAYOUTS AS REQUIRED. 9. THE CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATION TO THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR COMPLETION AND COORDINATION OF THE COMPLETE
- 10. THIS CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS, WALLS AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
- 11. THERMOSTATS SHALL BE LOCATED GENERALLY AS SHOWN BUT THEIR EXACT LOCATION SHALL BE FIELD COORDINATED TO AVOID INTERFERENCE WITH WALL MOUNTED ITEMS. MOUNT 54" AFF.
- 12. MECHANICAL CONTRACTOR TO INSULATE BACKSIDE OF ALL DIFFUSERS.

SERVICES OF AN APPROVED AGENCY TO PROVIDE EVIDENCE OF MECHANICAL AND LIGHTING CONTROLS SYSTEMS COMMISSIONING IN ACCORDANCE WITH THE PROVISIONS OF THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), SECTION C408. THE REQUIRED DOCUMENTS SHALL BE PROVIDED TO THE BUILDING OWNER OR THE OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY. FOR MECHANICAL SYSTEMS THE REQUIRED DOCUMENTS SHALL INCLUDE THE SYSTEM BALANCING REPORT AND FINAL COMMISSIONING REPORT. FOR LIGHTING CONTROLS SYSTEMS THE REQUIRED DOCUMENTS SHALL INCLUDE DRAWINGS WITH THE LOCATION AND CATALOG NUMBER OF EACH PIECE OF EQUIPMENT, OPERATING AND MAINTENANCE MANUALS AND THE FINAL TESTING REPORT. ALTERNATIVELY, THE REQUIREMENTS FOR SYSTEM COMMISSIONING MAY BE MET VIA THE EQUIVALENT SECTIONS OF ASHRAE 90.1-2016, ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS, SECTIONS 6.7 AND 9.7, RESPECTIVELY.

# **HVAC CONTROL NOTES:**

THE HVAC CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING DIAGRAMS FOR THE HVAC EQUIPMENT. 24 VOLT WIRING AND CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR. PROVIDE ADDITIONAL 24 VOLT TRANSFORMERS AS REQUIRED.

# ROOFTOP AIR CONDITIONING UNITS

THE AIR CONDITIONING UNIT FANS, HEATING AND COOLING SHALL BE CONTROLLED FROM 24 VOLT ROOM THERMOSTATS LOCATED APPROXIMATELY AS SHOWN ON THE PLANS. THE THERMOSTATS SHALL BE MOUNTED BY THIS CONTRACTOR 54" A.F.F.

EF-1, EF-2, & EF-3 SHALL BE CONTROLLED BY A SWITCH LOCATED ON THE HOOD SERVED BY THAT FAN.

### EF-4 SHALL BE CONTROLLED BY A SWITCH LOCATED IN OFFICE REFER TO ELECTRICAL DRAWINGS.

HVAC UNITS RTU-1 AND RTU-2 SHALL BE PROGRAMMED FOR "FAN-ON" DURING OCCUPIED TIMES, FAN SHALL CYCLE WITH UNITS DURING UNOCCUPIED TIMES.

PROVIDE EACH AIR CONDITIONING UNIT WITH A DUCT MOUNTED SMOKE DETECTOR IN THE RETURN AND SUPPLY AIR DUCT SYSTEM PRIOR TO MIXTURE OF OUTSIDE AIR CAPABLE OF SHUTTING DOWN ITS RESPECTIVE AIR CONDITIONING UNIT UPON ACTIVATION. THE SMOKE DETECTOR SHALL CONSIST OF A SIMPLEX DUCT DETECTOR WITH PHOTOELECTRIC DETECTOR, AND SAMPLING TUBE. ALL LINE VOLTAGE WIRING AND CONDUIT SHALL BE BY THE ELECTRICAL CONTRACTOR AND ALL OTHER WORK SHALL BE BY THE HVAC CONTRACTOR. ACTIVATION OF A DUCT SMOKE DETECTORS SHALL INITIATE A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION.

# **HVAC SYMBOL LEGEND**

OA

UP DN THRU

ABOVE FINISHED FLOOR **CUBIC FEET PER MINUTE** CFM **HORSEPOWER** ΚW KILOWATT

REVOLUTIONS PER MINUTE RTU **ROOFTOP UNIT** 

> SUPPLY AIR (SA) DUCTWORK RETURN AIR (RA) DUCTWORK

OUTSIDE AIR

WET-BULB

EXHAUST AIR (EA) DUCTWORK

(T) RTU-1 WALL MOUNTED THERMOSTAT FOR UNIT INDICATED REMOTE DUCT TEMPERATURE SENSOR

FL FUSIBLE LINK DUCT SECTION, POSITIVE PRESSURE, FIRST FIGURE IS ARROW SIDE

DUCT SECTION, EXHAUST

REMOTE HOOD PULL STATION

DUCT SECTION, NEGATIVE PRESSURE, RETURN

CEILING DIFFUSER

CEILING RETURN CEILING EXHAUST

RADIUS ELBOW - INSIDE RADIUS MINIMUM ONE HALF DUCT WIDTH

SQUARE TO ROUND TRANSITION

GENERAL CONTRACTOR SHALL COORDINATE TRUSS SPACING PLUM TO ACCOMMODATE STRAIGHT GREASE

RISERS FROM HOOD TO FAN INLET. APPROVED HVAC NATIONAL ACCOUNT APPROVED VENDORS: CARRIER TRANE

LENNOX

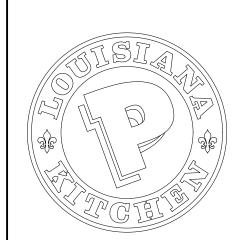


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REVISIONS

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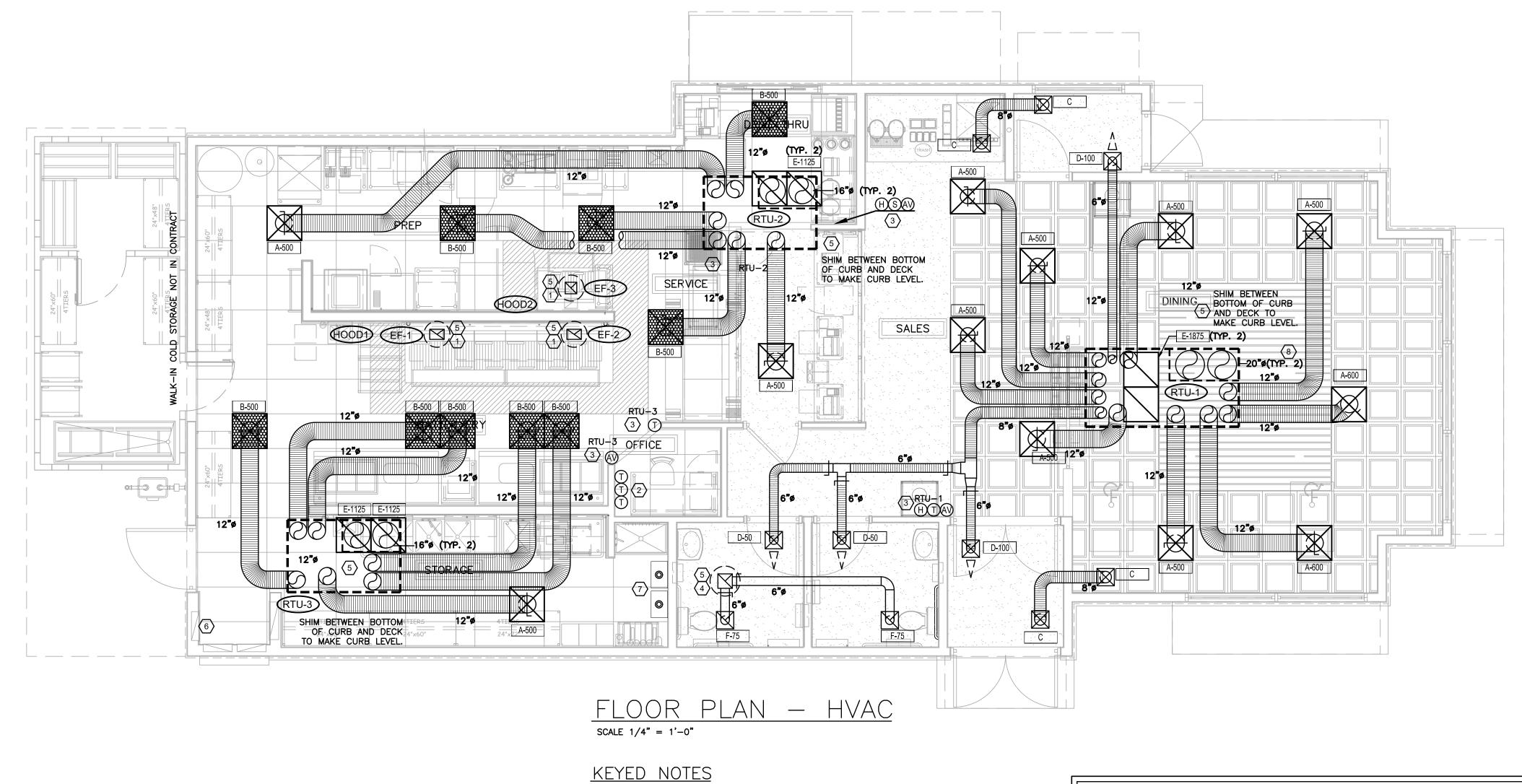
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PLENUMIZED CURB INSTALLATION NOTES . CAREFULLY LOCATE AND MARK ROOF CURB LOCATIONS SO THAT DUCT WORK CAN BE INSTALLED IN THE APPROXIMATE LOCATIONS AS SHOWN BY THE FLOOR PLAN. PAY ATTENTION TO THE LOCATION OF THE ROOF STRUCTURE IN

2. MARK THE EXACT LOCATION OF EACH ROOF CURB. LAY OUT ALL EQUIPMENT LOCATIONS IN ORDER TO MAINTAIN PROPER CLEARANCES FROM EXHAUST FANS AND VENTS AS WELL AS PROVIDING FOR PROPER SERVICE

ORDER TO ACCOMMODATE THE DUCT DROPS.

3. GENERAL CONTRACTOR SHALL CUT ROOF DECKING MATERIAL TAKING CARE TO AVOID CUTTING ANY STRUCTURAL COMPONENTS. GENERAL CONTRACTOR SHALL ALSO INSTALL ANY NECESSARY FRAMING OR BLOCKING AT OPENINGS. 4. WITH ROOF CURB UPSIDE DOWN (SOLID METAL BOTTOM UP) MEASURE AND MARK THE LOCATION OF ANY JOISTS OR OTHER FRAMING MEMBERS THAT MUST BE AVOIDED. MEASURE AND MARK THE LOCATION OF ALL THE DUCT

5. CUT ALL DUCT TAPS INTO THE BOTTOM PANEL OF THE ROOF CURB. BE CAREFUL NOT TO DAMAGE THE ROOFING SURFACE WHILE MAKING THESE CUTS. 6. INSTALL DUCT TAP FITTINGS AND MANUAL DAMPERS INTO THE OPENINGS PREVIOUSLY CUT. SEAL ALL CONNECTIONS ON BOTH THE BOTTOM AND THE TOP SIDES OF THE TAPS.

7. FLATTEN TAB OF START COLLAR INSIDE CURB, TIGHT AGAINST INSULATION. SEAL INSIDE OF COLLAR AND TABS TO INSULATION USING MASTIC DUCT SEALER. ALLOW SEALER TO DRY PRIOR TO PROCEEDING.

8. APPLY DUCT SEALER TO OPEN END OF COLLAR. SLIDE INNER CORE OF FLEXIBLE DUCT ONTO COLLAR, AND CONNECT PANDUIT STRAP PER MANUFACTURERS INSTRUCTIONS.

9. SLIDE OUTER INSULATION SLEEVE OF FLEX TIGHT TO BOTTOM OF CURB. SEAL INSULATION TO BOTTOM OF CURB WITH PRESSURE-SENSITIVE FOIL TAPE. DO NOT USE TAPE MEANT FOR RIGID DUCTBOARD. SQUEEGEE OUT ALL AIR

10. TURN CURB RIGHT SIDE UP, LEVEL CURB BETWEEN BOTTOM OF CURB AND DECK, INSTALL IN ROOF OPENING. SECURE CURB TO ROOF FRAMING AS

11. GENERAL CONTRACTOR OR ROOFING CONTRACTOR SHALL FLASH AND ROOF

IN THE CURB AS DETAILED ON THE DRAWINGS. 12. INSIDE BUILDING, THE DUCT RUNS SHALL BE INSTALLED FROM THE TAPS TO THE DIFFUSER LOCATIONS AS SHOWN ON THE PLANS. SUPPORT PER

SMACNA AND LOCAL CODES.

13. NOTE: IF NECESSARY, FLEX DROPS MAY BE CONNECTED TO TAPS AFTER CURB HAS BEEN INSTALLED. REFER TO STEPS #8 AND #9.

PROVIDE TYPE-I HOOD WITH 16 GAUGE BLACK IRON GREASE EXHAUST DUCT CONTINUOUSLY WELDED LIQUID TIGHT WITH CLEAN OUTS AND ACCESS PANELS INSTALLED AT ANY REQUIRED FIELD		FAN SC	HEDULE	
OFFSETS. SLOPE DUCT TOWARDS HOOD IF ANY HORIZONTAL OFFSETS ARE REQUIRED. COMPLY	UNIT NUMBER	EF-1, EF-2	EF-3	EF-4
STRICTLY TO NFPA 96 AND LOCAL CODES. COORDINATE DUCT CONNECTION SIZE, TRANSITION, AND	AREA SERVED	GREASE HOOD	GREASE HOOD	REST
LOCATION WITH HOOD MANUFACTURER. REFER TO DETAILS ON SHEET M-3. VERIFY LOCATIONS OF	MANUFACTURER	CAPTIVEAIRE	CAPTIVEAIRE	CAPT
HOOD AND EXHAUST FAN ON SITE WITH MOST RECENT KITCHEN EQUIPMENT PLANS.	MODEL NUMBER	DU85H	DU50H	DR12
(A) T 2000 PROCRAMMARIE THERMOSTAT WITH LOCKING COVER MOUNT T STATE 40" A F.F. IN	CFM	935 (EACH)	600	150
②T-2900 PROGRAMMABLE THERMOSTAT WITH LOCKING COVER. MOUNT T-STATS 42" A.F.F. IN MANAGERS OFFICE ABOVE DESK AND BELOW CABINET. SEAL WALL OPENINGS WITH CAULK.	STATIC PRESSURE, "WG	1.25	1.25	0.37
MANAGERS OFFICE ABOVE DESK AND BELOW CABINET. SEAL WALL OF LININGS WITH CACEN.	FAN H.P.	0.75	0.50	0.18
(3) REMOTE SENSOR 66" A.F.F. ON WALL NEAR LOCATION INDICATED THIS SHEET. AUDIO-VISUAL	DRIVE	BELT	BELT	DIRE
ANNUNCIATOR TIED INTO SMOKE DETECTOR. COORDINATE LOCATION ON SITE WITH G.C. AND	RPM	1276	1456	1250
EQUIPMENT. AVOID SOURCES OF HEAT. SEAL WALL OPENINGS WITH CAULK. PROVIDE THERMOSTATS	ELECTRICAL SERVICE	115/1/60	115/1/60	115/

IN MANAGERS AREA. (4)10X10 PLENUM DROP WITH END CAP DOWN FROM EF-4 CURB. BRANCH CONNECT ONLY RIGID

(5) SHIM CURBS ON ROOF IN ORDER TO MAKE TOP OF CURBS LEVEL. SEE DETAIL ON SHEET M-2. (6)OCCUPIED/UNOCCUPIED PANEL FOR NIGHT SET-BACK LOCATED NEAR SWITCH GEAR. COORDINATE LOCATION ON SITE WITH GENERAL CONTRACTOR AND WALL—MOUNTED EQUIPMENT.

7>PLUMBING CONTRACTOR SHALL PROVIDE COMBUSTION AIR FOR WATER HEATER. DISCHARGE SHALL BE MINIMUM 10 FEET FROM AIR INTAKES. OFFSET AND TRANSITION AT CONNECTIONS AS NEEDED. USE MANUFACTURERS RECOMMENDATIONS.

(8) ROUTE (2) 20" RETURN DUCTS FROM PLENUM CONNECTIONS TO TYPE G RETURN GRILLE BOOT, DUCTS NOT SHOWN ON PLAN FOR CLARITY.

		DIF	-USER	SCHEDU	ノレヒ		
SYM	SIZE	TYPE	DUCT SIZE	MODEL#	FINISH	BOOT SIZE	OPENING SIZE
Α	24X24	SUPPLY 4 WAY	12 <b>"</b> ø	NCA12	WHITE	12 <b>"</b> ø	T-BAR
В	24X24	SUPPLY PERFORATED	14 <b>"</b> ø	7500-6-AL-16	WHITE	14 <b>"</b> ø	T-BAR
С	12X12	SUPPLY 1 WAY/TRANSFER	8"ø	630	WHITE	12X12	SIZE + 1/4"
D	12X12	SUPPLY 1 WAY	6"ø	630	WHITE	12X12	SIZE + 1/4"
E*	24X24	RETURN	20 <b>"</b> ø	630TB	WHITE	22X22	T-BAR
F	12X12	EXHAUST	6"ø	630	WHITE	12X12	SIZE + 1/4"

		AIR I	BALANCE	E SCHEI	DUI F	
TAG	SUPPLY AIR	OUTSIDE AIR		EXHAUST AIR	BLDG. PRESSURE	% OUTSIDE AIR
RTU-1	5000 CFM	1250 CFM	2750 CFM		+ 1250 CFM	25
RTU-2	3000 CFM	750 CFM	2250 CFM		+ 750 CFM	25
RTU-3	3000 CFM	750 CFM	2250 CFM		+ 750 CFM	25
4					275 2511	
EF-1				935 CFM	- 935 CFM	
EF-2 EF-3				935 CFM 600 CFM	<ul><li>– 935 CFM</li><li>– 600 CFM</li></ul>	
EF-4				150 CFM	- 150 CFM	
•						
TOTAL	10000 CFM	2750 CFM	7250 CFM	2620 CFM	+ 130 CFM	25

UNIT NUMBER	EF-1, EF-2	EF-3	EF-4
AREA SERVED	GREASE HOOD	GREASE HOOD	RESTROOMS
MANUFACTURER	CAPTIVEAIRE	CAPTIVEAIRE	CAPTIVEAIRE
MODEL NUMBER	DU85H	DU50H	DR12HFA
CFM	935 (EACH)	600	150
STATIC PRESSURE, "WG	1.25	1.25	0.375
FAN H.P.	0.75	0.50	0.18
DRIVE	BELT	BELT	DIRECT
RPM	1276	1456	1250
ELECTRICAL SERVICE	115/1/60	115/1/60	115/1/60
NCA CURB SIZE (LXWXH)	23x23x32	19.5x19.5x32	17.5X17.5X14
ACCESSORIES	B,D,E,H,I,J,K,L,N	B,D,E,H,I,J,K,L,N	A,B,C,D,F
NOTES/ACCESSORIES  A. ALUMINIZED BIRDSCREE  B. SAFETY DISCONNECT S  C. GRAVITY BACKDRAFT D	N I. INTERLOCK W WITCH J. REFER TO K	FAN DISCHARGE 40" ABO' ITH ANSUL SYSTEM PER ITCHEN BALANCE SCHEDU HAUST DISCHARGES >10'	NFPA96 REQUIREMENTS LE

. AMCA SEAL & U.L. CERTIFIED L. COORDINATE WITH MANUFACTURER FOR FINAL SELECTION

PREFABRICATED ROOF CURB N. U.L. LISTED PREFAB EXTENDED HINGED BASE TO ATTACH FAN

M. ENSURE AIR INTAKE IS >10' FROM EXHAUST DISCHARGES

PACKAGE ROOFTOP UNIT	SCHEDULE	(RTU-1,2,3)
TAG	RTU-1	RTU-2,3
MANUFACTURER	CARRIER	CARRIER
MODEL	48HCED14 (12.5 TON)	48HCED08 (7.5 TON)
TYPE OF HEAT	NATURAL GAS	NATURAL GAS
TOTAL COOLING CAPACITY, MBTU/HR	151.5	95.2
SENSIBLE COOLING CAPACITY, MBTU/HR	118.5	71.0
ENTERING AIR CONDITIONS, DB°F/WB°F	80/67	80/67
AMBIENT AIR DB TEMPERATURE, 'F	95	95
SUPPLY AIR, CFM	5000	3000
OUTSIDE AIR, CFM	SEE SCHEDULE	SEE SCHEDULE
EXTERNAL STATIC PRESSURE, "WG	0.75	0.75
BHP — MEDIUM STATIC MOTOR	3.7	2.4
E.E.R.	12.2	12.0
GAS INPUT MBTU/HR	180/224	90/180
GAS OUTPUT MBTU/HR	148/184	73/148
UNIT WEIGHT, LBS.	1300	1100
ELECTRICAL REQUIREMENT, V/PHASE/HZ	208-230/3/60	208-230/3/60
MINIMUM CIRCUIT AMPERAGE	65	46
MAXIMUM OVER CURRENT PROTECTION	80	50
ACCESSORIES: 1. 100% ECONOMIZER WITH BAROMETRIC RELIEF		

NCA PLENUMIZED CURB. TO ORDER CALL TOLL-FREE (877) 530-0078. AQUAGUARD AG-3180E MOISTURE SENSOR FOR PRIMARY PAN ADDITIONAL FOUR YEAR PARTS WARRANTY COVERING COMPRESSORS

5. SMOKE DETECTOR (SEE HVAC ROOF PLAN, SHEET M-2) RTU-1,2,&3 TO HAVE STAINLESS STEEL HEAT EXCHANGER AND MODULATING HOT-GAS REHEAT DEHUMIDIFICATION CONTROL.

# CONTRACTORS NOTES

HVAC CONTRACTOR

1. THE HVAC CONTRACTOR SHALL INSTALL THE TYPE 1 FRYER HOODS LEVEL & AT THE PROPER LOCATION, GREASE RISERS, ALL HVAC ROOF CURBS, RTU'S, ALL HVAC DUCTWORK, GRILLES, HVAC CONTROLS AS NOTED, INCLUDING SMOKE DETECTORS. REFER TO THE HOOD SHEETS FOR PROPER HOOD INFORMATION. THE HVAC CONTRACTOR SHALL INSTALL GREASE RATED EXHAUST DUCT FROM THE HOOD COLLAR TO THE BASE OF THE EXHAUST FANS ON THE ROOF PER NFPA96 AND LOCAL CODES. FLARE GREASE EXHAUST RISER AT THE TOP TO THE OPENING OF THE VENTURI OF FAN. THE HVAC CONTRACTOR SHALL VERIFY LOCATIONS FOR EF-1, EF-2, EF-3. AND THE HOODS ON SITE WITH DIRECT COORDINATION WITH THE G.C. THE G.C. SHALL SIGN OFF ON THE LOCATION OF FRYER HOOD, SO THAT RISERS CAN BE FIT PROPERLY. TRUSS ENG. GROUP ALLOW SPACING FOR GREASE RISER TO PASS THRU CENTER OF TRUSS BAY AT 2 LOCATIONS. G.C. SHALL COORDINATE STRUCTURAL FRAMING TO ACCOMMODATE PLUM RISERS. G.C. SHALL PROVIDE PERIMETER FRAMING & PENETRATIONS AT ALL ROOF CURBS.

2. SEE NCA PACKAGE SCHEDULE NOTES FURNISHED ITEMS FOR HVAC INSTALLATION. ALL NON-FURNISHED ITEMS NECESSARY TO COMPLETE THE DESIGN INTENT OF THESE DOCUMENTS SHALL BE BY THE HVAC CONTRACTOR. 3. ALL NCA PROVIDED ROOF CURBS SHALL BE FABRICATED FROM 18 GA. G-90 MTL. WITH FULLY WELDED SEAMS,

WATER TIGHT AND INTERNALLY INSULATED. FACTORY CURB CONVERSION SHALL NOT BE ACCEPTED. I. SHIMS SHALL BE PROVIDED BY HVAC CONTRACTOR BETWEEN THE ROOF DECK AND THE CURBS TO COMPENSATE FOR ROOF PITCH ON BUILT UP ROOFS ONLY. OTHER ROOF CONSTRUCTIONS SHALL BE EVALUATED FOR BUILT-IN PITCH ON

5. ALL FLEX DUCT SHALL BE U.L. LISTED, R-6 BENEATH THERMAL BLDG. ENVELOPE & R-8 WHEN CEILING INSULATION IS USED. FLEX SHALL BE FOIL-BACKED, CLASS 1 AIR DUCT WITH FIRE AND SMOKE RATING [25]-[50]. FLEX DUCT SHALL BEAR A RECTANGULAR OR SQUARE SYMBOL FOR UNLIMITED LENGTH OF RUN OUT OR AS PER LOCAL

6. ALL METAL DUCT AND AIR DISTRIBUTION DEVICES SHALL BE INSULATED WITH R-6, 2" X .75 DENSITY FOIL-BACKED INSULATION, WITH FIRE AND SMOKE RATING [25]-[50].

7. ALL DUCTWORK SHALL BE INDEPENDENTLY HUNG FROM STRUCTURAL MEMBERS.

8. ALL DUCTWORK SHALL BE FABRICATED, INSTALLED, SEALED, AND EXTERNALLY INSULATED PER SMACNA LOW-VELOCITY DUCT MANUAL (LATEST ISSUE). INTERNALLY LINED DUCTWORK IS NOT ALLOWED.

9. UNLESS OTHERWISE NOTED, ALL SUPPLY TAKEOFFS SHALL HAVE A MANUAL VOLUME CONTROL DAMPER. (SEE DAMPER SYMBOLS EXPRESSED ON PLAN. 10. THE HVAC CONTRACTOR SHALL COORDINATE DIFFUSER LOCATIONS ON SITE WITH THE MOST RECENT REFLECTED

CEILING PLAN. 11. THE HVAC CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE COVERING A ONE-YEAR PERIOD FOR ALL HVAC EQUIPMENT AND PROVIDE AN ADDITIONAL FOUR-YEAR PERIOD FOR THE COMPRESSORS IN THE RTUS. ALL FANS TO BE

12. UPON COMPLETION OF PROJECT, THE HVAC CONTRACTOR IS TO PROVIDE A CERTIFIED TEST AND BALANCE, AND A WRITTEN REPORT TO NCA CONSULTANTS. ALL CAPACITIES MUST BE SET TO WITHIN ±10% OF AMOUNTS INDICATED ON THE FLOOR PLAN AND SCHEDULES.

13. THE HVAC CONTRACTOR IS TO MAKE ALL LOW-VOLTAGE WIRING FINAL CONNECTIONS FOR ALL HVAC EQUIPMENT INCLUDING TEMPERATURE CONTROLS, RTUS, AND SMOKE DETECTORS.

GENERAL CONTRACTOR

1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO RECEIVE, OFFLOAD, AND STORE ALL HVAC MATERIALS WHICH ARRIVE AT THE JOB SITE. ALL MATERIAL MUST BE STORED INSIDE THE BUILDING. FRYER HOOD MUST BE STORED IN THE KITCHEN NEAR PROPOSED LOCATION AWAY FROM THE RISK OF DAMAGE.

2. ACCURATE MEASUREMENTS SHALL BE USED WHEN LOCATING GREASE RATED EXHAUST FAN ROOF PENETRATIONS. G.C. SHALL CONFIRM & SIGN — OFF TO ELEVIATE ANY FUTURE DEVIATIONS OF FINAL HOOD LOCATION. THE G.C. SHALL COORDINATE ANY EFFORT WITH THE STRUCTURAL ENG. GROUP TO ARRANGE TRUSS SPACING TO ALLOW FOR PASSAGE OF GREASE RISER IN THE MIDDLE OF THE BAY BETWEEN TRUSSES.

3. ALL ROOF, CEILING, WALL, AND STRUCTURAL FRAMING REQUIRED FOR UNIT, FAN, DUCT, DIFFUSER, AND ALL OTHER HVAC WORK SHALL BE BY THE G.C. COORDINATE ON SITE WITH HVAC CONTRACTOR. GENERAL CONTRACTOR SHALL PROVIDE ANY SCREENING, GUARD RAILS, ETC. FOR ROOF-MOUNTED HVAC EQUIPMENT PER IBC AND LOCAL CODES. ROOF FRAMING SIZES ARE BASED OFF OF THE FAN & ROOF TOP UNIT EQUIPMENT SCHEDULEDS. IF OTHER EQUIPMENT IS USED, VERIFY ROOF FRAMING REQUIREMENTS WITH SCHEDULES. COORDINATE ON SITE WITH HVAC CONTRACTOR. ROOFING MATERIAL SHALL NOT COVER THE TOP OF ANY ROOF CURB.

ELECTRICAL CONTRACTOR

1. THE ELECTRICAL CONTRACTOR SHALL ROUTE HIGH & LOW VOLTAGE WIRING CONTROL WIRING, LOW VOLTAGE WIRING SHALL BE FURNISHED BY THE HVAC CONTRACTOR. LOW & HIGH VOLTAGE WIRING MAY NOT BE IN THE SAME CONDUIT. WIRING MAY NOT ENTER OR EXIT CURB AT ANY POINT. ALL WIRING SHALL ENTER ROOF TOP UNIT AT OUTER ACCESS. USE WEATHER PROTECTED CONNECTIONS, BOXES & CONDUIT. DISCONNECTS SHALL BE PROVIDED BY THE E.C. FOR ALL

2. THE ELECTRICAL CONTRACTOR SHALL USE A MINIMUM OF 4'-6" SEALTITE FLEXIBLE CONDUIT WHEN WIRING KITCHEN HOOD EXHAUST FANS ON ROOF SO THAT FANS MAY BE REMOVED FROM CURBS AND PLACED ON ROOF FOR CLEANING

3. FOR EACH UNIT, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ONE SINGLE-GANG RECEPTACLE TEST STATION FOR THE T-STAT, AND ONE DOUBLE-GANG RECEPTACLE TEST STATION FOR THE ANNUNCIATOR, WITH GREEN AND RED LIGHT INDICATORS. THE FIRE AND MECHANICAL INSPECTORS WILL DETERMINE SUITABLE LOCATION FOR TEST STATIONS. ANNUNCIATORS AND TEST STATION WILL BE LOOPED IN THE CIRCUITRY OF THE SMOKE DETECTION DEVICES. WIRING WILL BE INSTALLED BY ELECTRICAL CONTRACTOR.

4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL INTERLOCKING DEVICES REQUIRED BETWEEN THE HOODED APPLIANCES & HVAC TO COMPLY WITH NFPA-96, INCLUDING THE INSTALLATION OF THE NCA INTERLOCK PANEL PER SHEET M-5, THIS SET. THE PANEL FULLY COMPLIES WITH NFPA-96. ELECTRICAL DISTRIBUTION PLANS & SCHEDULES SHALL BE FORWARDED TO NCA FOR THE PRODUCTION OF THE PANEL PRIOR TO ROUGH-IN DISCIPLINES OF THE ELECTRICAL CONTRACTOR TO ROUTE HIGH VOLTAGE CIRCUITS THROUGH ASSIGNED DRY CONTACT TERMINALS IN PANEL & FOR FIELD LOCATION. CONTACTOR PANEL MUST BE IN PLACE PRIOR TO HIGH VOLTAGE ROUGH-IN. IF PANEL IS NOT USED THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALLL INTERLOCKING REQUIRED PER NFPA96 AND LOCAL CODES. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ANY ADDITIONAL INTERLOCKING REQUIRED PER NFPA96 AND LOCAL CODES.

. THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL CONDENSATE DRAINS DOWNSTREAM OF P-TRAPS FOR A/C EQUIPMENT & DISPOSE OF CONDENSATE AT AN APPROVED LOCATION. DO NOT PENETRATE RTU CURB FOR MOUNTING OR

2. THE PLUMBING CONTRACTOR SHALL PROVIDE NATURAL GAS SUPPLY TO ROOF TOP UNITS. 3. THE PLUMBING CONTRACTOR IS TO COORDINATE PLUMBING VENT STACKS AND WATER HEATER FLUES WITH OUTSIDE AIR INTAKES OF A/C UNITS. 10'-0" MINIMUM CLEARANCE REQUIRED OR PER LOCAL CODE.

4. THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL FLUE GAS EXHAUST VENT FOR WATER HEATER. MAINTAIN 10'-0" MINIMUM CLEARANCE TO AIR INTAKES, OR PER LOCAL CODE. COORDINATE ON SITE WITH G.C. AND HVAC CONTRACTOR.

UPON COMMENCEMENT OF ROUGH-IN, THE AIR CONDITIONING CONTRACTOR IS TO REMAIN ON THE JOB SITE FULL TIME UNTIL THE ROUGH—IN IS 100% COMPLETE. THE GENERAL CONTRACTOR'S SITE SUPERINTENDENT WILL VERIFY. UPON COMMENCEMENT OF TRIM-OUT, THE AIR CONDITIONING CONTRACTOR IS TO REMAIN ON THE JOB SITE FULL TIME UNTIL THE TRIM-OUT IS 100% COMPLETE. THE GENERAL CONTRACTOR'S SITE SUPERINTENDENT WILL VERIFY.

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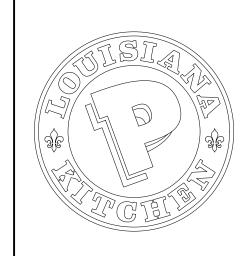


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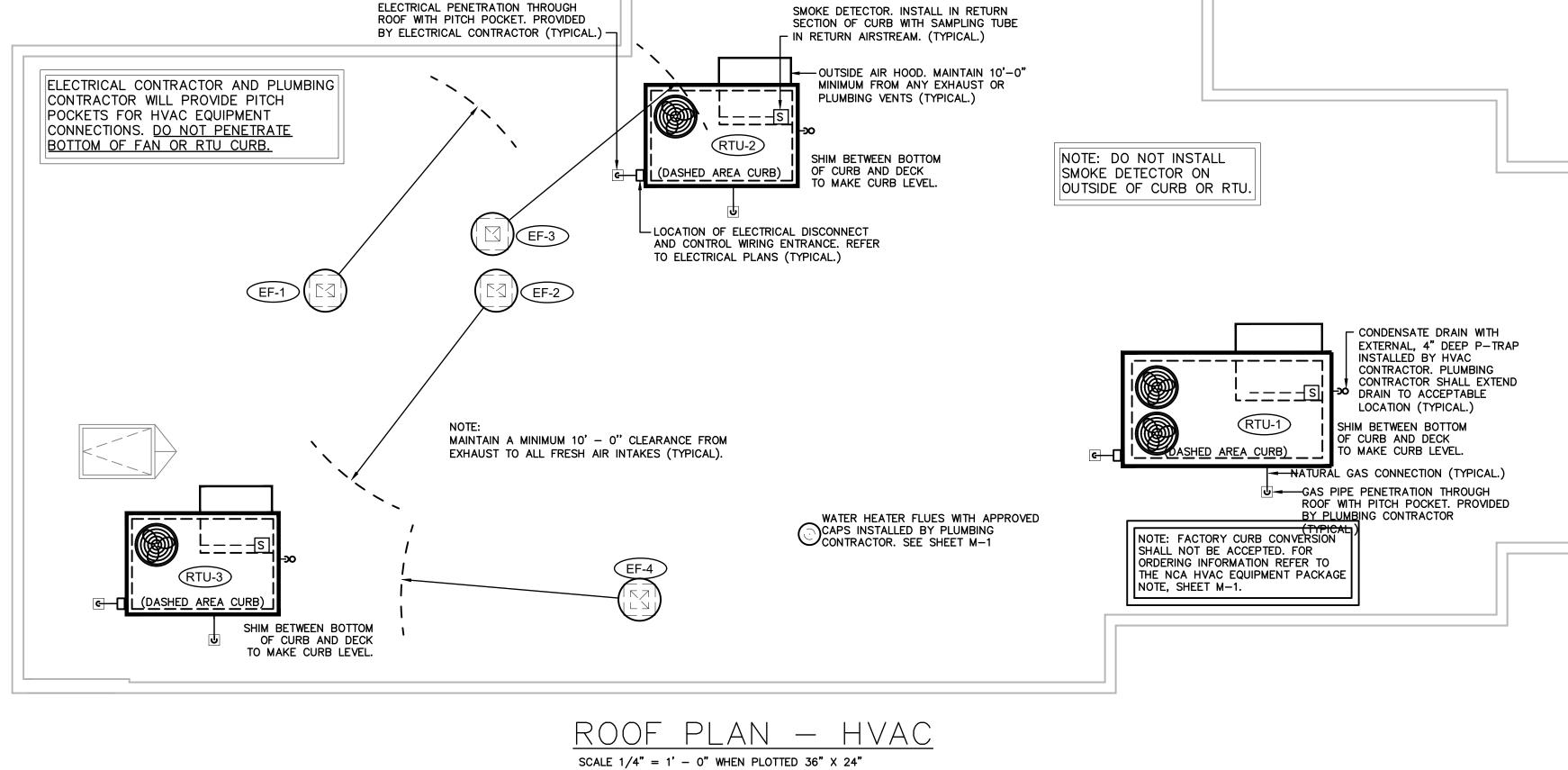
REVISIONS

1 03.01.2023 REV. 01



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

> **HVAC Floor** Plan, Notes, And Schedules

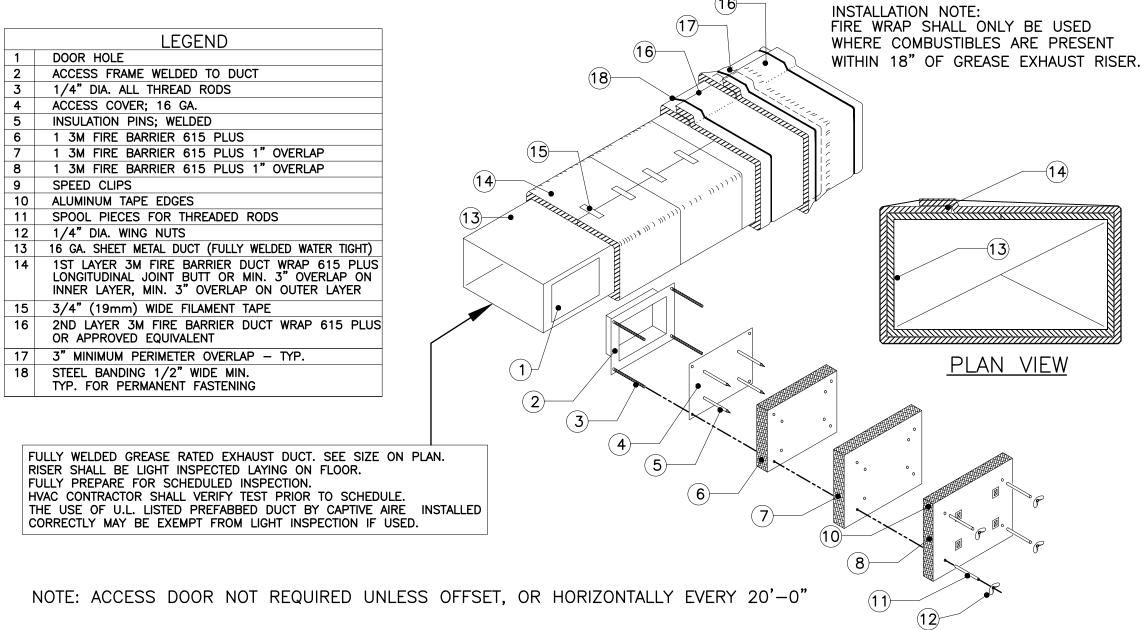


1. BANDING MATERIAL, 3/4" WIDE, MINIMUM 0.015" THICK, CARBON STEEL FOR CONSTRUCTION REQUIREMENTS OF ZERO CLEARANCE TO COMBUSTIBLES OR 1 HR. RATINGS. STAINLESS STEEL BANDING IS

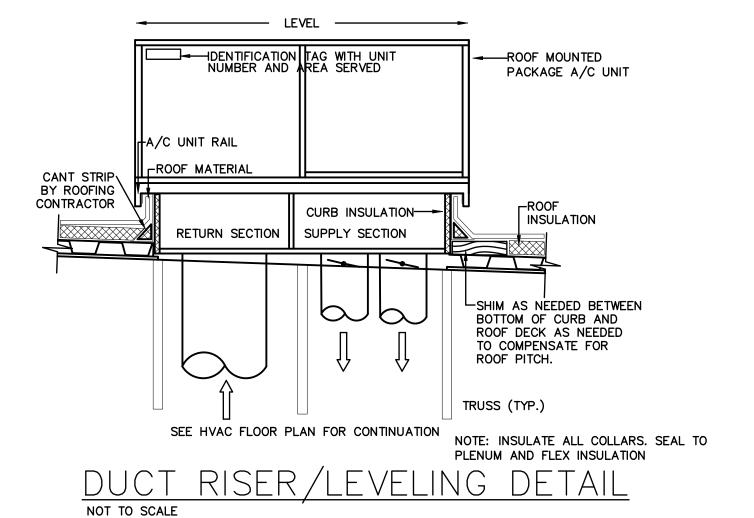
USED FOR 2 HR. REQUIREMENTS. 2. 3M FIRE BARRIER DUCT WRAP 615+. 1-1/2" THICK. 24" OR 48" WIDE. 300" STANDARD LENGTH (2 LAYERS) 6 LBS PER CUBIC FT TO BE

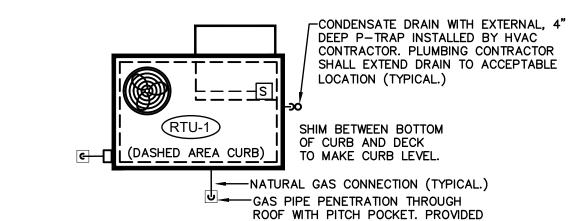
3. HOLD INTERIOR WRAP OF INSULATION USING 1" WIDE FILAMENT TAPE (NO. 898) MANUFACTURED BY 3M COMPANY.

4. SEAL CUT EDGES OF BLANKET WITH ALUMINUM FOIL TAPE.



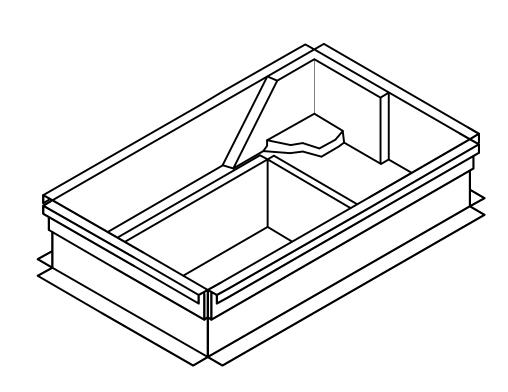




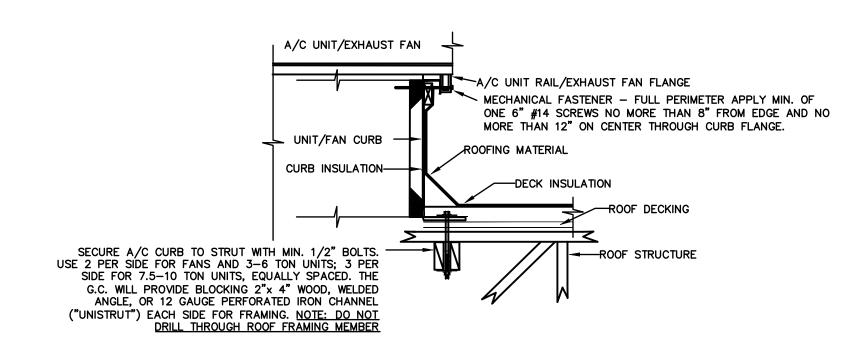


(TYPICAL.)

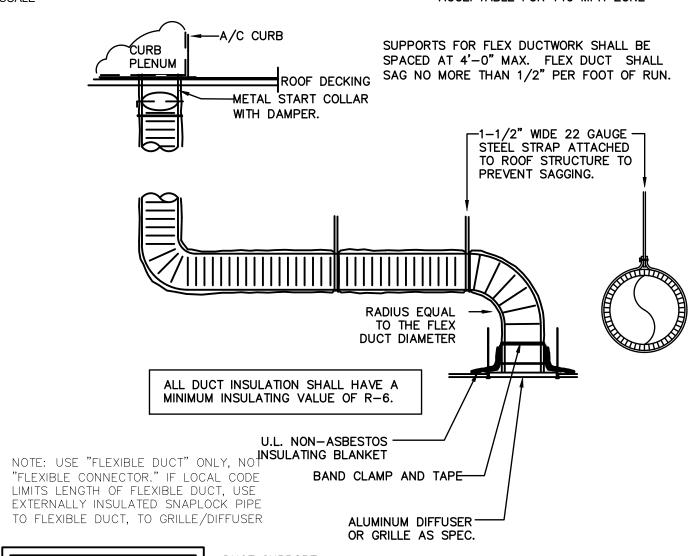
BY PLUMBING CONTRACTOR



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



ACCEPTABLE FOR 140 MPH ZONE ACCEPTABLE FOR 140 MPH ZONE



DUCT SCHEDULE 6"ø – 8"ø 28 <u> 10"ø – 12"ø 📗 26</u> 14"ø – 16"ø 24 

SUPPORT DUCTWORK WITH 1-1/2" WIDE 22 GAUGE STEEL STRAPS FIRMLY ATTACHED TO THE BUILDING STRUCTURE. SPACING SHALL BE MAXIMUM 10-0" FOR RIGID DUCTWORK, AND MINIMUM 4'-0" FOR FLEXIBLE DUCTWORK. 12 GAUGE WIRE MAY BE SUBSTITUTED FOR STRAPS IF 1-1/2" WIDE 22 GAUGE STEEL SADDLES ARE USED TO FULLY ENCIRCLE DUCT. REFER TO THE HVAC DUCT CONSTRUCTION STANDARDS PUBLISHED BY SMACNA FOR ADDITIONAL DETAILS. FULLY COMPLY WITH MECHANICAL

RIGID/FLEXDUCT CONNECTION/INSTALL DETAIL NOT TO SCALE

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REVISIONS

1 03.01.2023 REV. 01



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

> **HVAC** Roof Plan And Details

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			,,,	MAX.			EXHAU	ST PLEN	MUI				HOOD C	CONFIG.
HOOD	TAG	MODEL	LENGTH	COOKING	TOTAL			RISE	R(S)			HOOD	END TO	
NO.	TAG	MODEL	LENGIA		EXH. CFM	WIDTH	LENG.	HEIGHT	DIA.	CFM	S.P.	CONSTRUCTION	END	ROW
1		2812	11, 700,	600	1001	7"	10"	4"		935	-0.429"	304 SS	AL ONE	۸۱ ۵۸۱
l		BLL	11' 3.00"	Deg.	1901	7"	10"	4"		935	-0.429"	Where Exposed	ALONE	ALONE

HOOD INFORMATION

				FILTER(S	5)			LIGHT(S)					UTILITY CABINET(S)			FIRE	HOOD
HOOD	TAG								WIRE			FI	RE SYSTEM	ELECTRICAL	SWITCHES		HANGING
NO.	TAG	TYPE	QTY.	HEIGHT	LENGTH   EF	FFICIENCY @ 9 MICRONS	QTY.		GUARD	LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY	PIPING	
1		SS Baffle with Handles	8	10"	16"	30%	0			Wall Mnt	12"x36"x24"	Ansul R102	3.0/3.0/3.0			YES	206 LBS

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1		BACKSPLASH 112.00" High X 208.00" Long 304 SS Vertical
		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 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
2		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 - 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 filler 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 hood shall have:

-A sloped grease drain system which shall be an enclosed integral part of the hood back with an exposed, removable ½ pint grease cup to facilitate cleaning. -Low profile design to allow plate shelf and passover

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.

RYER BATTERY WITH MINIMUM

MIN. SIDE OVERHANG AND

4.5"FRONT UNDERHANG BY HOOD

VHB/VHB-0

\* ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR HANGING ANGLE IS PRE-PUNCHED AT FACTORY

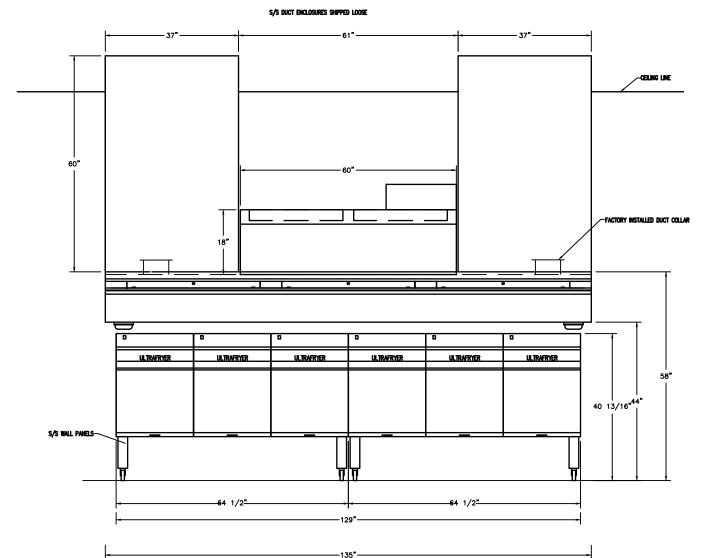
# SS DUCT ENCLOSUR 4.5" - 116.62" FRYER BATTERY FRYER BATTERY WITH MINIMUM 2" MIN. SIDE OVERHANG AND 4.5"FRONT UNDERHANG BY HOOD PRINCE CASTLE" # HPC-2A CONTROL W/ J-BOX MOUNT PER ETL LISTING FILE #3054804-001 ON S/S ANGKE HERE <u>PLAN VIEW - Hood #1</u>

PRINCE CASLTE HP19-26A HEATER PANEL BY N. WASSERSTROM & SONS

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



CLEARANCE TO COMBUSTIBLES

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

<u>SECTION VIEW - MODEL 2812BLL</u>

SECTION VIEW - MODEL 2812BLL

11' 3.00" LONG 2812BLL

# GENERAL NOTES

# <u>INSTALLATION</u>

- ALL ELECTRICAL "FIELD" CONNECTIONS AND RELATED INTERCONNECTIONS BY ELECTRICAL 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 CONTRACTORS'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 RESTAINTS ARE RESPONSIBILITY OF INSTALLING CONTRACTOR.
- O. INSTALLING CONTRACTOR.

  1. INSTALLING CONTRACTORS ASSUME ALL RELATED REPONSIBILITY 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.

- . KITCHEN HOODS MUST BE BALANCED WITH KITCHEN.
- 13. RESTAURANT SHALL BE POSITIVE WITH RESPECT TO AMBIENT PRESSURE.

14. WRITTEN HOOD DIMENSIONS HAVE PRECEDENCE OVER SCALE. 15. SIGNED AND "APPROVED" COPIES OF THIS DOCUMENT MUST BE RECEIVED BY THE FACTORY PRIOR TO COMMENCEMENT OF FABRICATION.

PER ETL LISTING FILE #3054804-001 ND-2 HANGING ANGLE DETAIL HANGING ANGLE LOCATIONS | CALCULATIONS UTILIZED 1/2" DIA. HEAVY DUTY NUT 1/2" DIA. ALL THREAD ROD DIM FROM REAR ONE ABOVE AND ONE BELOW HOOD STYLE DIM FROM DIM FROM CONNECTED TO ROOF JOIST SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED THROUGH ANOTHER HANGING TOTAL DUCT AREA 4.166" 2.246" 2.246 DUCT DEPTH ND2 BAPTIVE-AFE NUCT CONNECTION SZES ARE CALCULATED USING AN EXHAUST BACHLOE 1501 500 400 FPM. ND2-PSP-F 2.246" 4.166" 2.246" CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH: BACKSHELF 4.166" 2.246 BD-2

36"X36"

42"X42"

48"X48"

2.246" | Listed under ETL File number 3054804-001/002

CAPTIVE-AIRE HOODS HAVE OPTIONAL CLEARANCE REDUCTION SYSTEMS AVAILABLE AS FOLLOWS: **CLEARANCE REDUCTION SYSTEM** 3" UNINSULATED STANDOFF 1" INSULATED STANDOFF

Omaha, NE 68106

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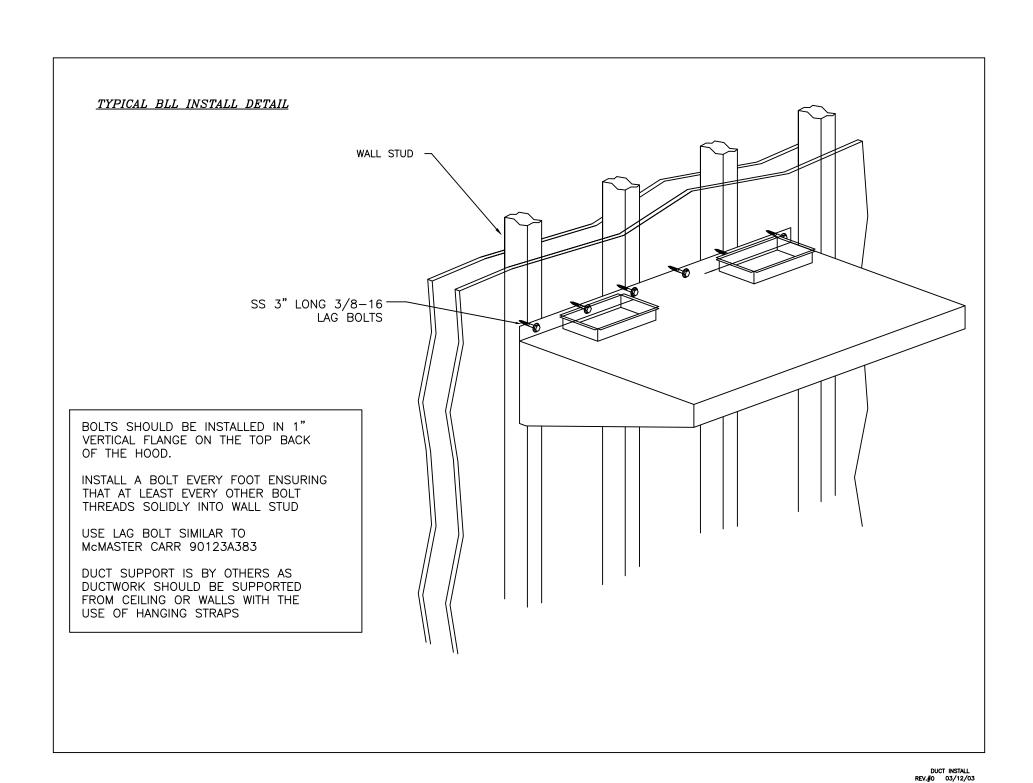
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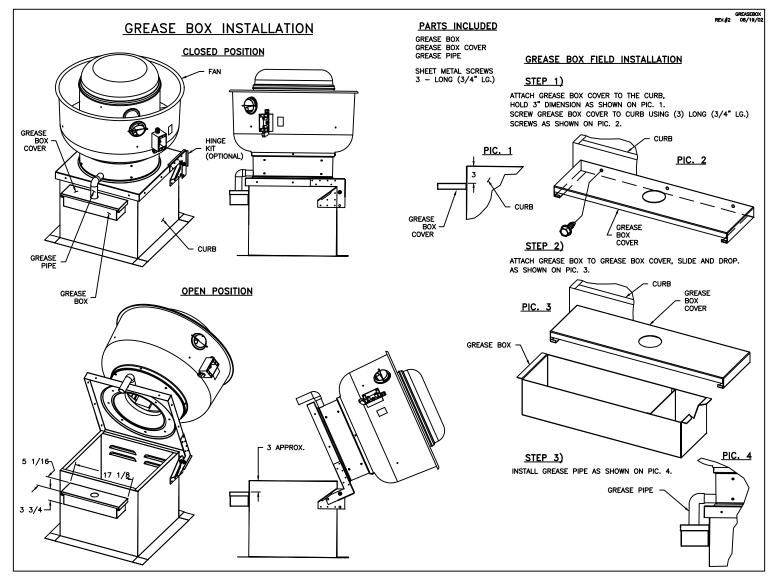


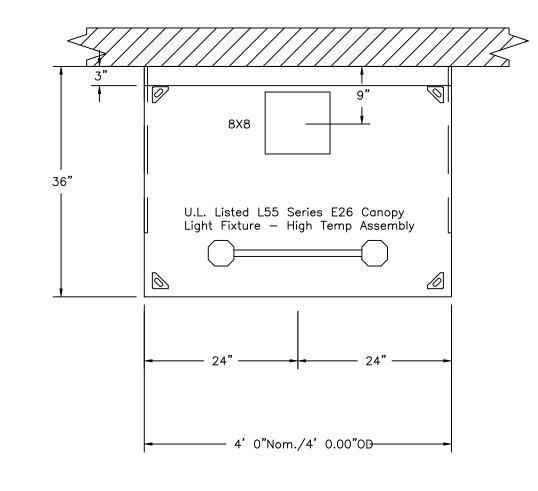
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**Hood Details** 

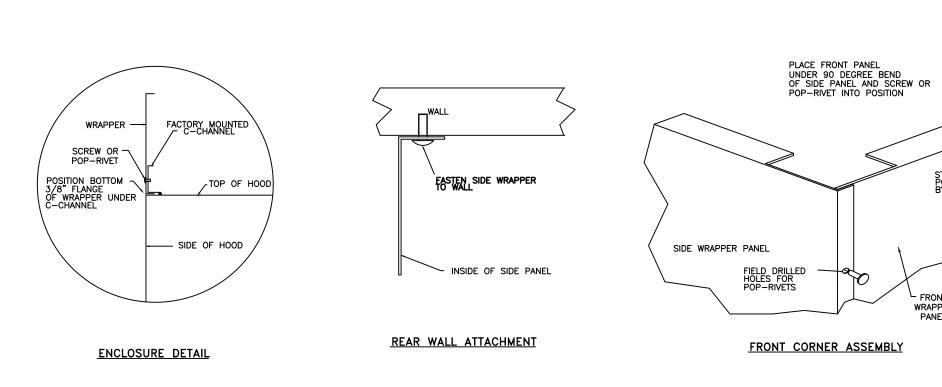




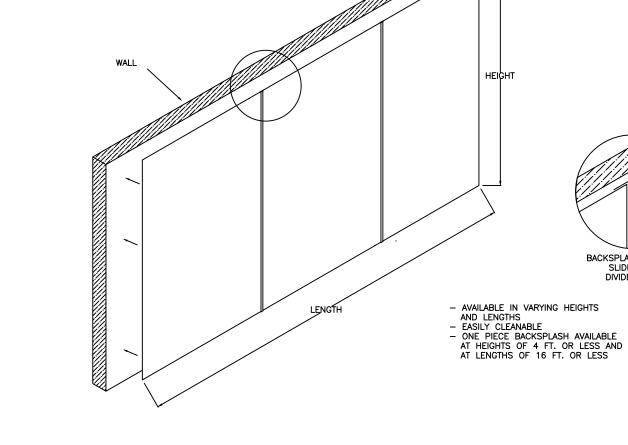




<u>PLAN VIEW — Hood #1</u> 4'0.00" LONG 3650BD—2

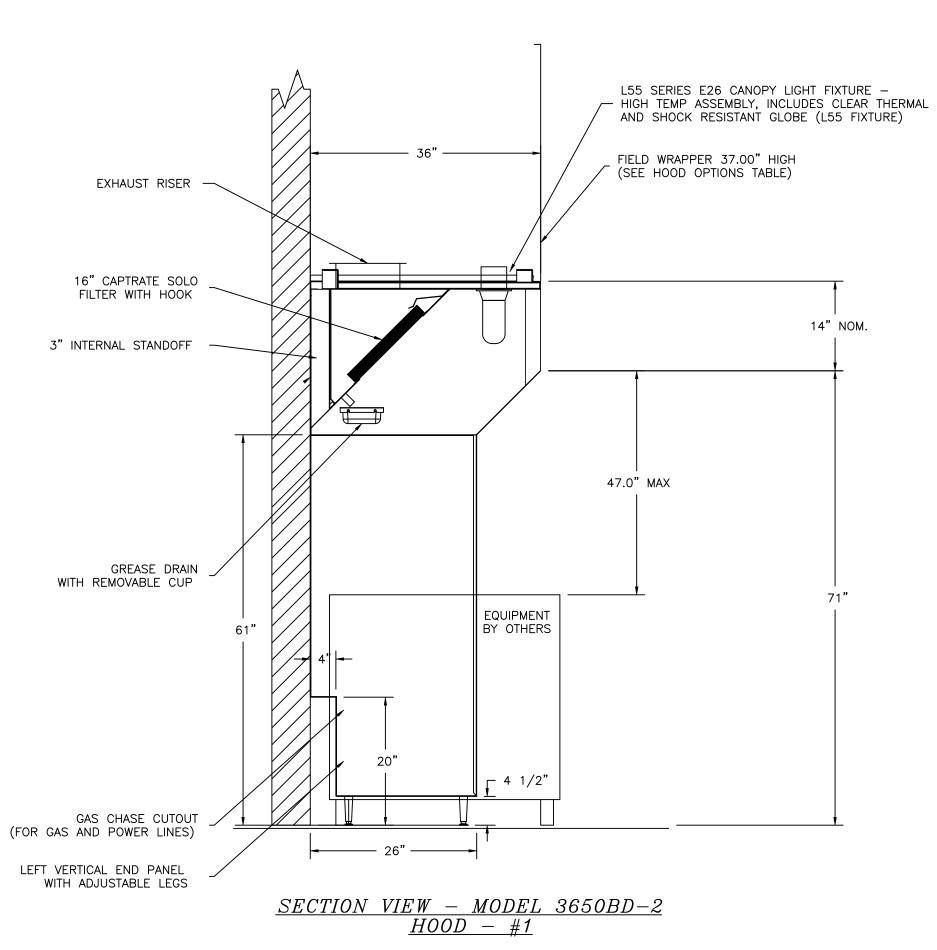


CAPTIVEAIRE HOOD DETAILS



BACKSPLASH PANELS SLIDE INTO DIVIDER BAR

**BACKSPLASH** 



<i>H00</i>	DD $I$	<u>INFOI</u>	R <i>MATION</i>														
					FILTER(S	)			LIGHT(S)				UTILITY CABINET(S)			FIRE	HOOD
H00E	>	ΓAG					EFFICIENCY @ 7			WIRE			FIRE SYSTEM	ELECTRICAL	SWITCHES		/ HANGING
NO.			TYPE	QTY.	HEIGHT	LENGTH	MICRONS	QTY.	TYPE	GUARD LOCATION	SIZE	TYPE	SIZE	MODEL #	QUANTITY	PIPING	
1			Captrate Solo Filter	2	16"	20"	85% See Filter Spec.	2	L55 Series E26	NO						NO	242 LBS

HOOD NO. TAG

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 Issue Date | 12-16-2022

**Hood Details** 

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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 0NE (10) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM THE "UNOCCUPIED-OCCUPIED" PANEL TO THE THERMOSTAT LOCATION.
- 3. RUN 0NE (10) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM THE ROOFTOP AIR CONDITIONING UNIT TO THE NIGHT SETBACK THERMOSTAT LOCATION, IF NOT CONTROLLED WITH P-374-2700 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 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

TURN THE DINING UNOCCUPIED—OCCUPIED SWITCH TO THE 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

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

"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.

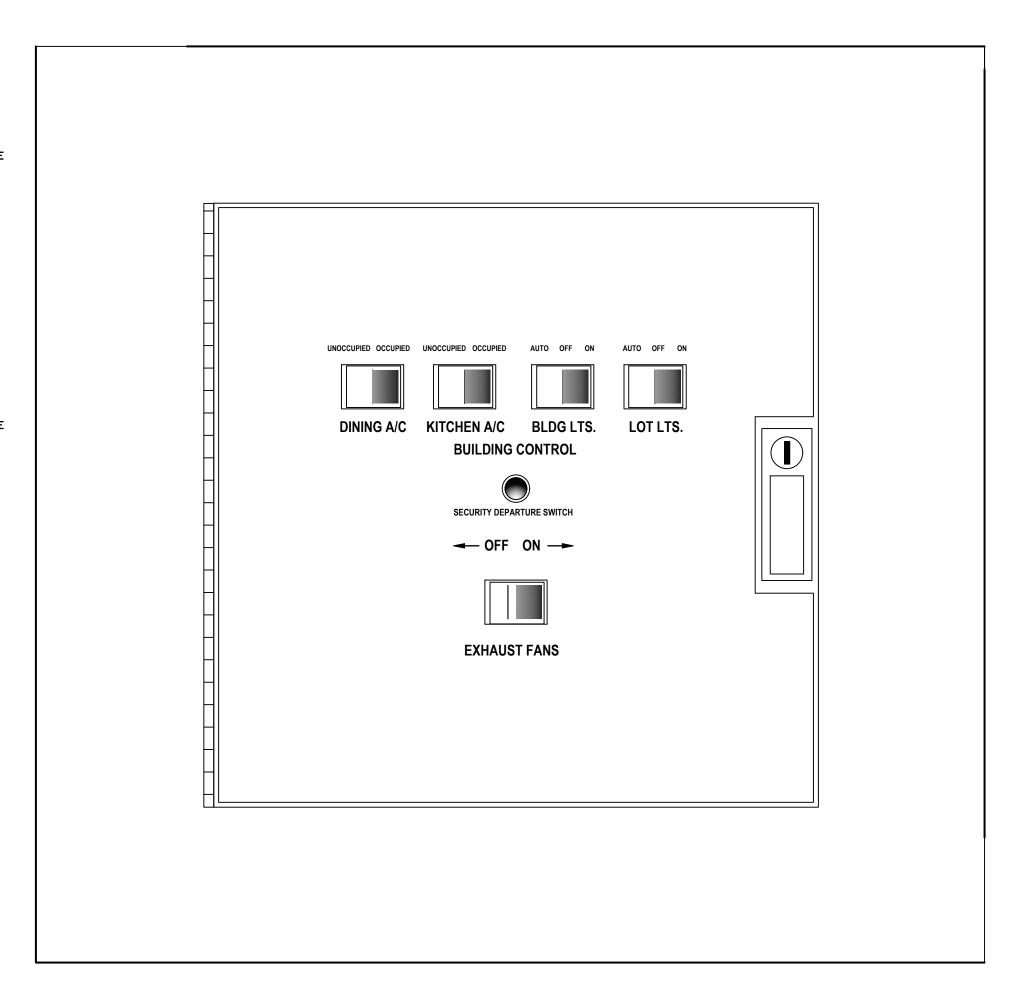
"HOOD VENTILATION SYSTEM NOTE"

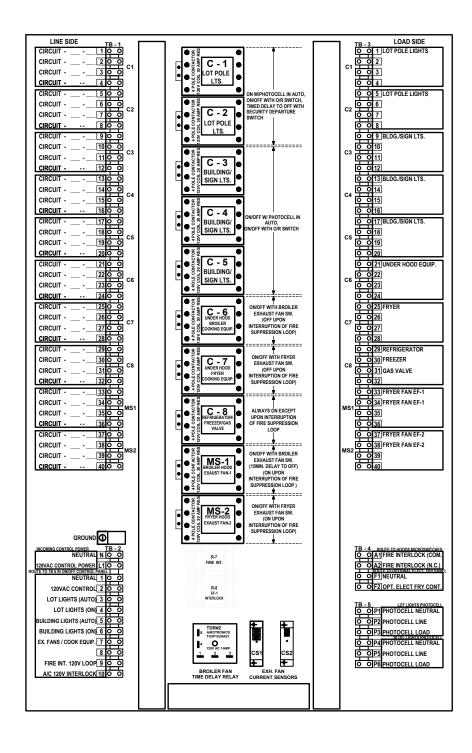
WHEN THE HOOD EXHAUST FAN CURRENT SENSOR DETECTS A DROP IN AMPERAGE (SUCH AS A BELT BREAKING) IT WILL DISABLE THE LINE VOLTAGE TO THE COOKING EQUIPMENT UNDER THE HOOD. THE EXHAUST FAN SWITCH SHOULD BE PLACED IN THE OFF POSITION AND THE FAN SHOULD BE CHECKED AND/OR REPAIRED BEFORE TURNING THE SWITCH TO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

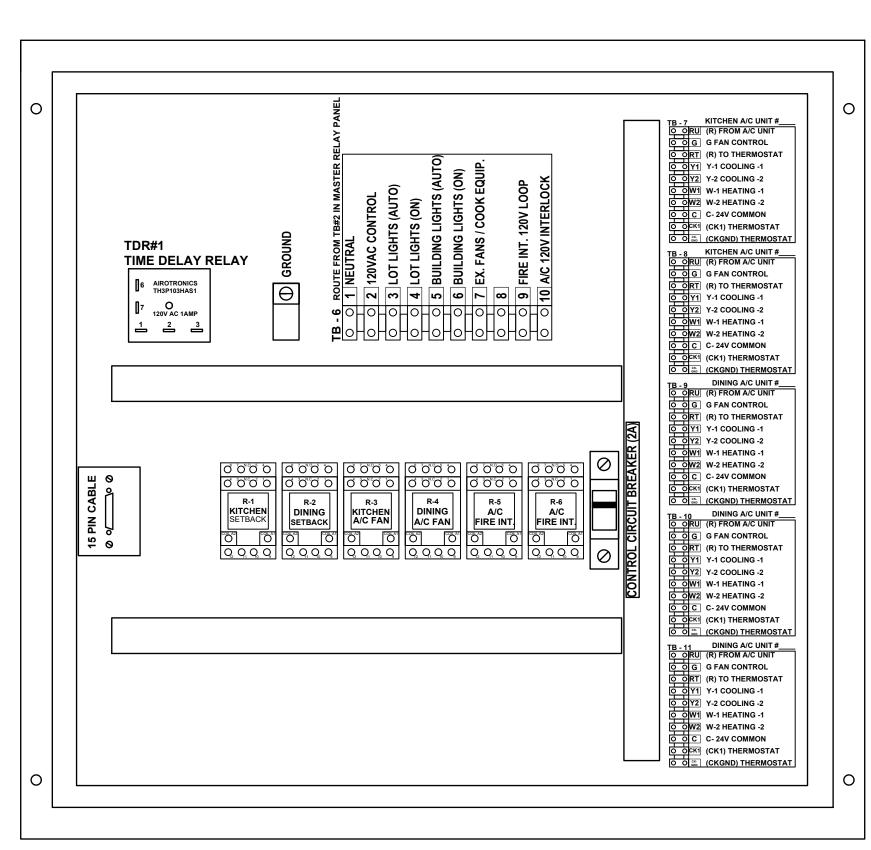
"PARKING LOT LIGHTING NOTE"

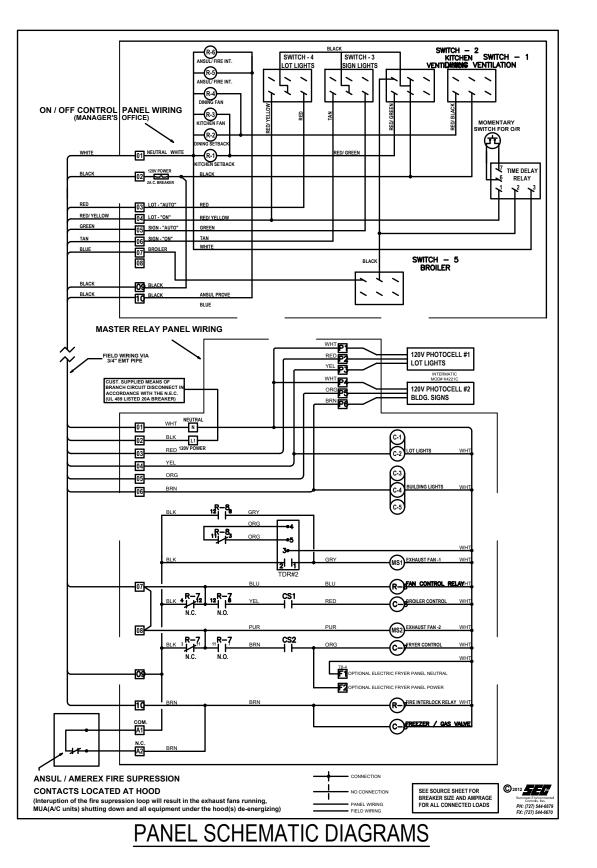
# WHEN THE PARKING LOT LIGHTS ARE TURNED OFF, THEY MUST COOL DOWN FOR ABOUT 10 MINUTES BEFORE THEY WILL COME BACK ON.

\*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 contactors 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 hoods 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 EQUIPEMENT SHALL BE STARTED BY MOVING THE EXHAUST FANS ON/OFF SWITCH TO THE ON POSITION. IF THE 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 BULUIDING ACCENT LIGHTING.

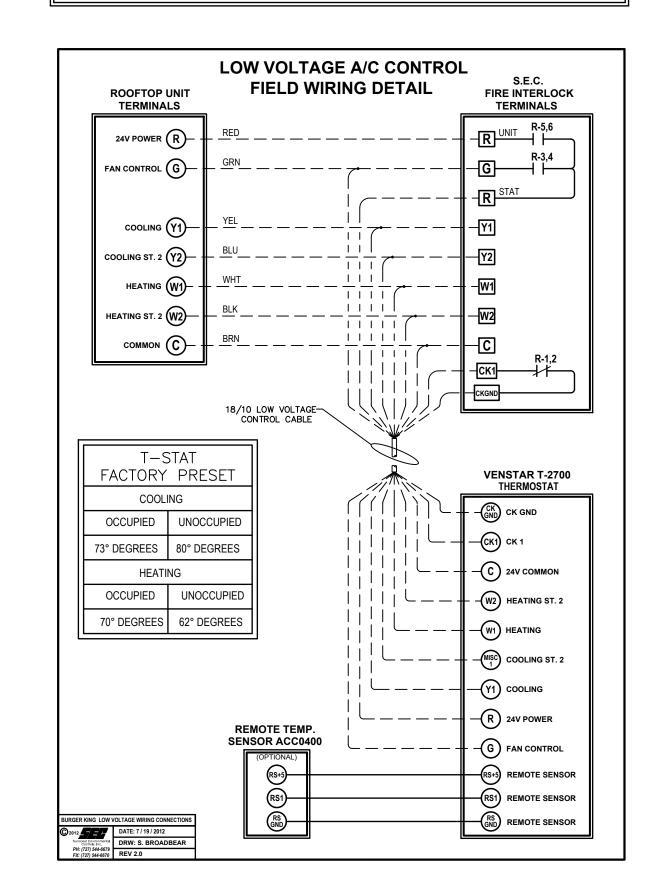
ON POSITION: LIGHTING SHALL BE ON PERMANENTLY.

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"

OSSON

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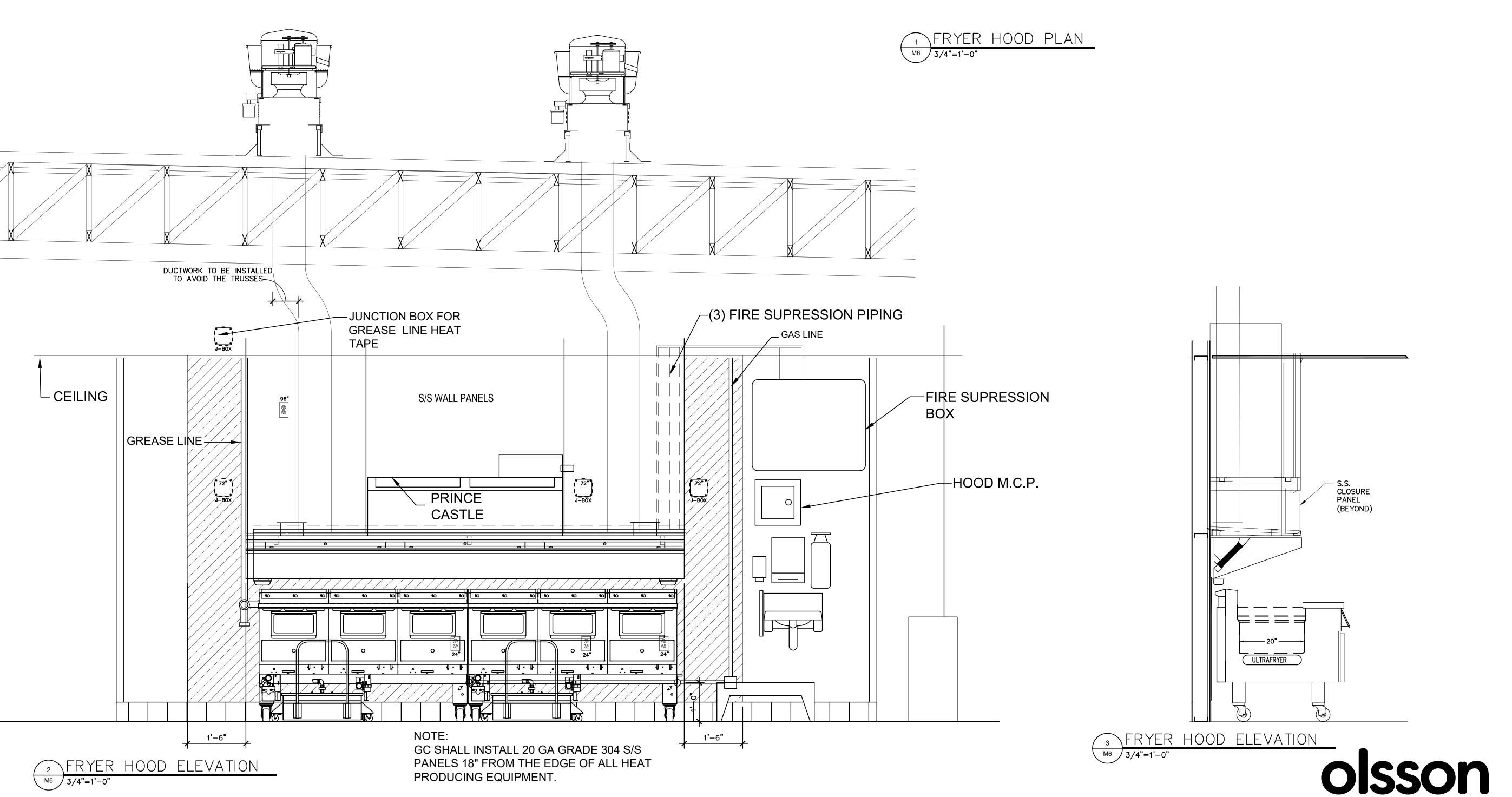
> Interlock Panel Details

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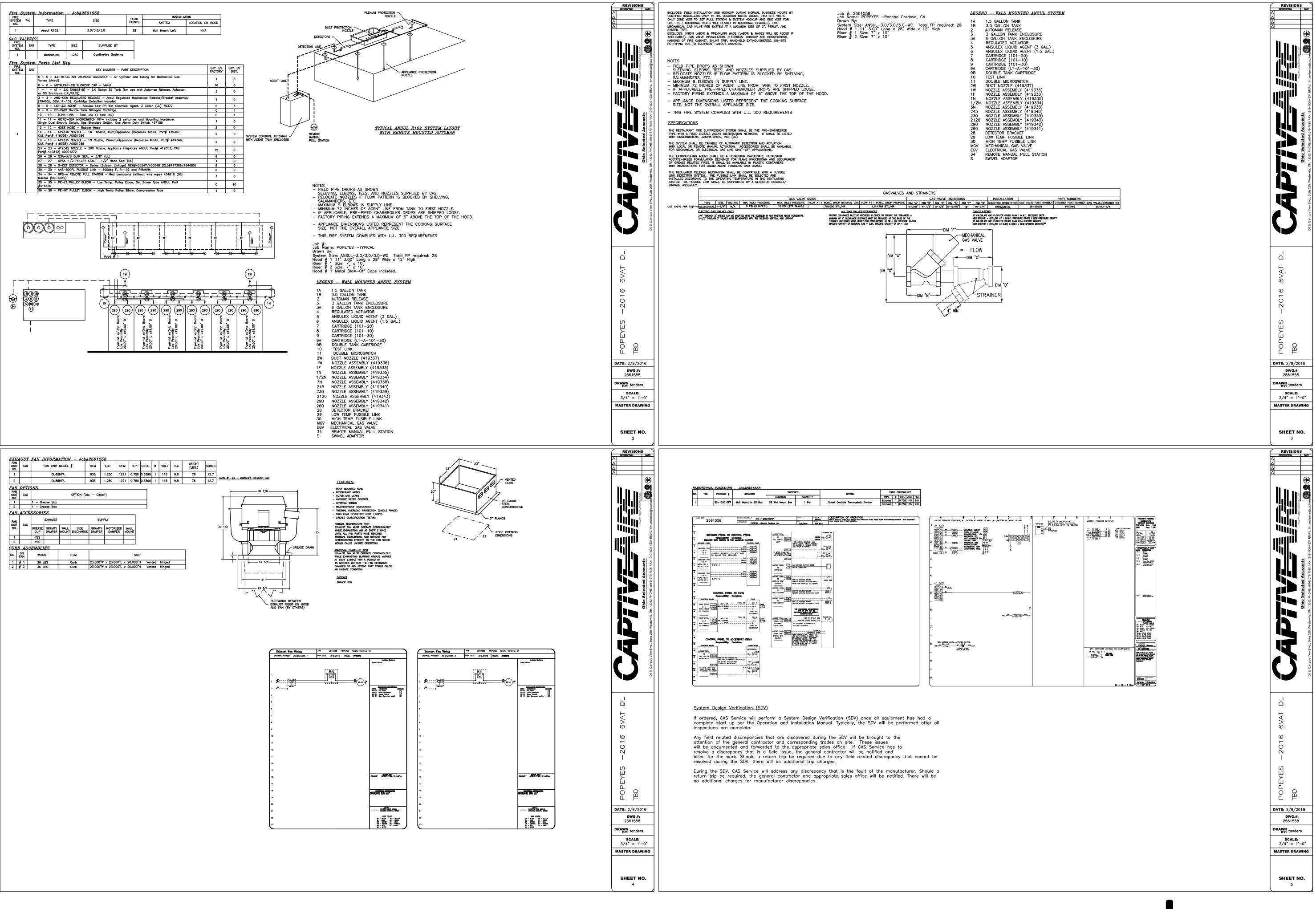
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## **GENERAL NOTES:**

- PLUMBING CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PRECEDES WITH A MINIMUM OF INTERFERENCE WITH OTHER TRADES.
- REQUIREMENTS IN FIELD.
- 3. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO PLUMBING FIXTURES AND KITCHEN EQUIPMENT. THIS INCLUDES, WITH SILICONE CAULKING. BUT NOT LIMITED TO FURNISHINGS AND INSTALLING ALL TRAPS, DRAINS AND SUPPLIES WITH STOPS. 13. INSTALL GAS VALVE (FBC) IN GAS LINE TO COOKING
- 4. THE PLUMBING CONTRACTOR SHALL VERIFY THAT ALL PIPING, AS SHOWN ON THESE DRAWINGS WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, EQUIPMENT, ETC.
- 5. COORDINATE ROUTING AND LOCATIONS OF WASTE AND VENT PIPING WITH ALL OTHER TRADES.
- 6. THE PLUMBING CONTRACTOR SHALL COORDINATE 15. PROVIDE VACUUM BREAKERS AT FIXTURES WITH WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, 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.
- 7. ALL ITEMS PROJECTING THROUGH ROOFS SHALL BE 18. PROVIDE 1"Ø SCH 40 BLACK STL PIPE FOR GREASE FLASHED, A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10' FROM ANY OUTSIDE AIR INTAKE.
- 8. ALL FLOOR DRAINS SHALL HAVE 6" DEEP SEAL TRAPS.
- 9. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING WATER SUPPLY TO THE COFFEE MAKERS TEA BREWERS AND ICE MACHINES.
- 10. 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.

- 2. VERIFY EXACT ROUGH-IN AND FINAL EQUIPMENT 11. INSULATE ALL WATER AND WASTE PIPING UNDER LAVATORIES WITH HANDY-SHIELD JACKET BY PLUMBEREX: (619) 633-1772.
  - 12. POT SINKS TO BE ANCHORED TO WALL AND SEALED
  - EQUIPMENT. INTERLOCK WITH HOOD FIRE PROTECTION SYSTEM. VERIFY REQUIREMENTS WITH HOOD SUPPLIER. INSTALL UNIONS AT THE SOLENOID VALVE.
  - 14. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL SHUTOFF COCKS, QUICK DISCONNECTS AND FLEXIBLE LINES AT GAS EQUIPMENT.
  - HOSE THREAD CONNECTIONS.
  - 16. PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS.
  - 17. LAVATORY FAUCETS SHALL LIMIT HOT WATER FLOW TO 0.5 GPM AND HOT WATER TEMPERATURE TO 110° F
  - DISCHARGE. RUN LINE FLUSH ON WALL BESIDE FRYERS, VERTICALLY UP IN WALL THRU CLG. SLOPE LINE @ 1"/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

# **SPECIFICATIONS:**

### SECTION 15A: PLUMBING

# **GENERAL PROVISIONS**

1. 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.

- 2. 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 THE CONTRACTOR MUST MAKE ANY NECESSARY CHANGES IN THE PIPING RUNS, ETC., AND AT NO ADDITIONAL COST TO THE OWNER. OUTLET LOCATIONS 7. ARE CRITICAL AND MUST BE LOCATED EXACTLY ACCORDING TO THE PLUMBING PLAN. COORDINATE THIS WORK WITH THE INSTALLERS OF EQUIPMENT 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 9. PLUMBING FIXTURES: FURNISH AND INSTALL PLUMBING FIXTURES AS SHOWN ON APPEARANCE.

# MATERIALS AND PERFORMANCE

- 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 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 SCREENINGS 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 SOIL AND WASTE 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"

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. 12. CLEANUP: CLEAN ALL PLUMBING FIXTURES AND EQUIPMENT THOROUGHLY 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.

- 4. 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,
- 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.

# 5. 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

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.
- WASTE PIPING: INSTALL HORIZONTAL DRAIN AND WASTE PIPES WITH 1/4" FT.
- 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 CS188 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.

FREEZERS AT 5 WATTS/LINEAR FOOT (MINIMUM).

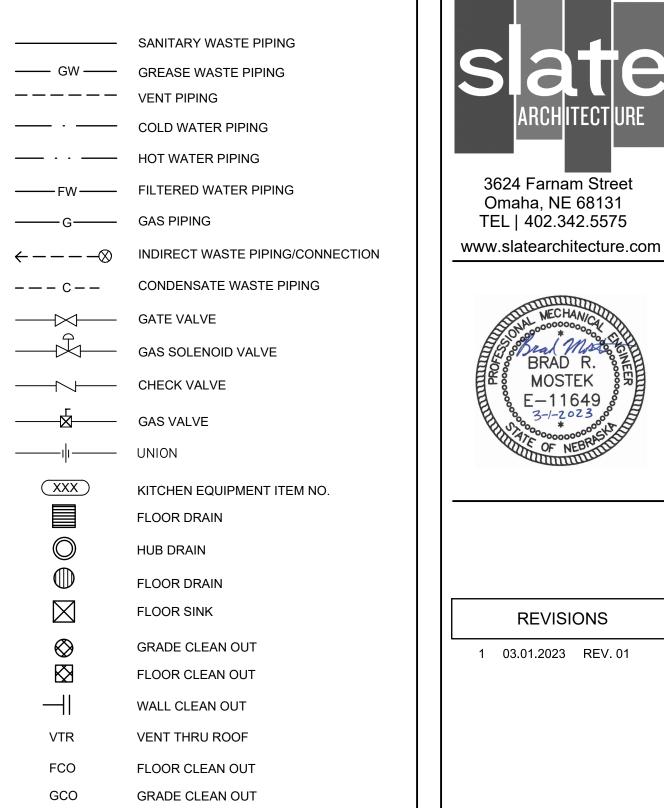
- HEAT TRACING: HEAT TRACE ALL CONDENSATE DRAIN LINES INSIDE COOLERS AND
- FURNISHED AND INSTALLED BY OTHERS. REFER TO THE OTHER DRAWINGS FOR 8. PIPE SLEEVES/ESCUTCHEONS: PROVIDE CHROME-PLATED ESCUTCHEONS ON ALL PIPES PASSING THROUGH WALLS, FLOORS, OR CEILINGS OF FINISHED ROOMS. ESCUTCHEONS TO BE BEATON & 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.
  - 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 THUS 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.
- 11. 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.
- BEFORE FINAL INSPECTION, LEAVING ALL READY FOR USE.
- 13. 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 REBUILT ASSEMBLIES TO THE SITE FOR ANY SUCH EQUIPMENT OR MATERIALS WHICH FAIL DURING THIS PERIOD. AND INSTALL AT NO ADDITIONAL COST TO THE OWNER.
- 14. 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

WCO



WALL CLEAN OUT

ABOVE FINISH FLOOR

FLOOR DRAIN

FLOOR SINK

**HUB DRAIN** 



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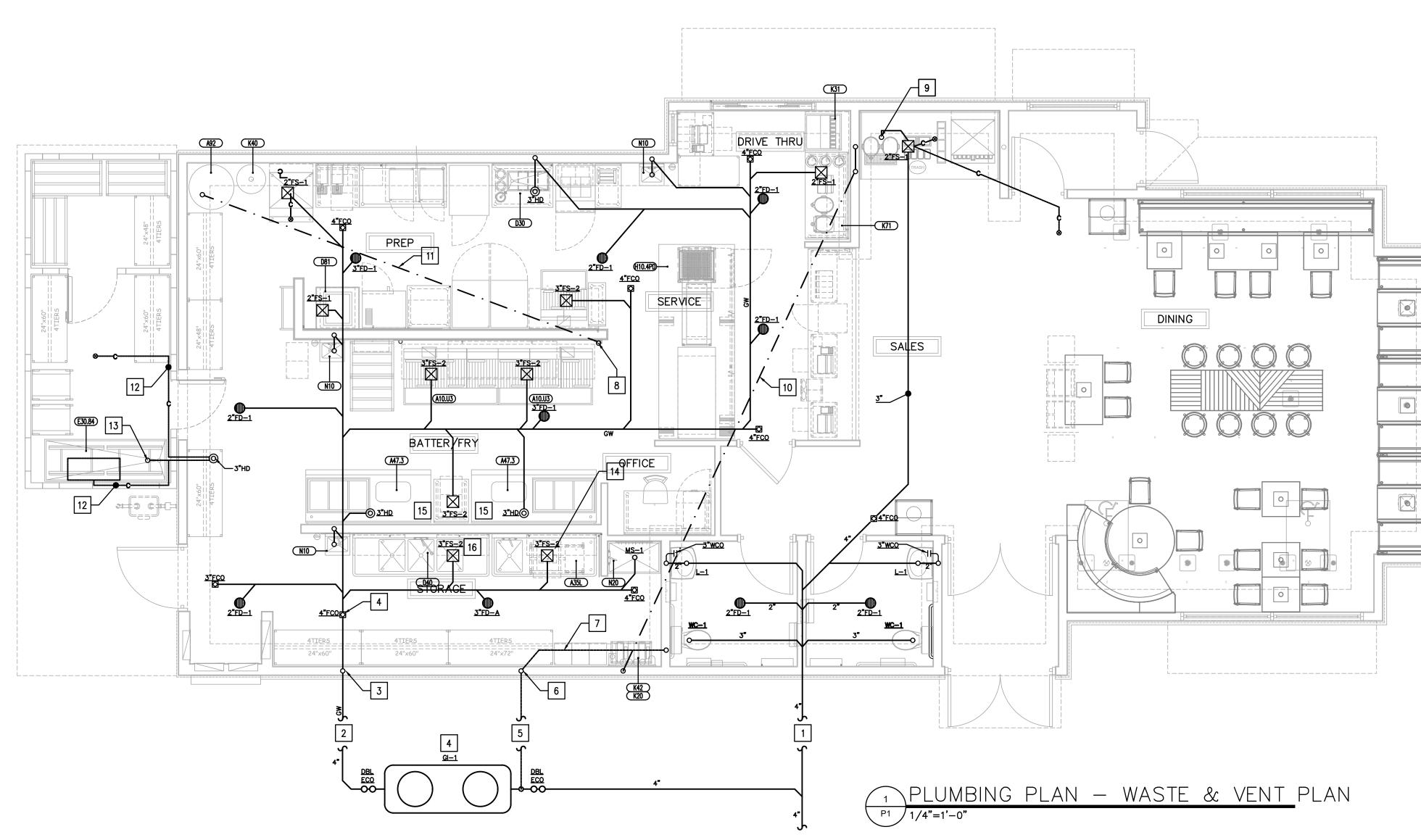
> Plumbing Specification And Notes

Sheet No.

2111 South 67th Street, Suite 200

Omaha, NE 68106

Project #020-01872 TEL 402.341.1116 www.olsson.com



						PLUMBING FIX	TUF	RE SCH	EDI	JLE	_		
MARK	FIXTURE	C	ONN.		MANUFAC.	DESCRIPTION	MARK	FIXTURE	С	ONN.		MANUFAC.	DESCRIPTION
IVIAIXIX	TIXTORE	W	cw	HW	& MODEL	DESCRIPTION	IVIAIN	TIXTORE	W	cw	HW	& MODEL	DESCRIPTION
	WATER CLOSET FLOOR MOUNTED				KOHLER	ELONGATED, VITREOUS CHINA BOWL WITH SIPHON-JET DESIGN, FLOOR MOUNTED, 1-1/2" TOP SPUD, FLOOR OUTLET, 1.6 GPF, ADA-COMPLIANT.  INCLUDE BOLT CAPS MATCHING FIXTURE, KOHLER	HD-1	HUB DRAIN	3"	-	-	-	SEE DETAIL SHEET P4
WC-1	FLUSH VALVE ADA	4"	1-1/4"	-	"HIGHCLIFF" K-4368	"LUSTRA" K-4670-C, ELONGATED SEAT, OPEN FRONT, NO LID (WHITE).  SLOAN ROYAL MODEL 111 MANUAL-OPERATED FLUSHOMETER, 1.6 GPF, ADA COMPLIANT, WITH CHROME-PLATED EXPOSED PIECES.	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.
						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	GCO	GRADE CLEANOUT	4"	-	-	ZURN Z-1400-HD	ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODY, WITH GAS AND WATERTIGHT 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	CAST-BRASS TRAP WITH CLEANOUT AND WALL ESCUTCHEONS. KOHLER CORALAIS K-15593 FAUCET, ADA-COMPLIANT, CHROME-PLATED, SINGLE LEVER HANDLE FAUCET, 1.2 GPM AERATOR, AND CHROME PLATED BRASS GRID STRAINER.	wco	WALL CLEANOUT	SEE RISER	-	-	ZURN Z-1446	CLEANOUT TEE, DURA COATED CAST IRON BODY, GAS AND WATERTIGHT, ABS TAPERED THREAD PLUG AND ROUND, SMOOTH STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW.
						COVER EXPOSED HOT AND COLD SUPPLIES AND WASTE PIPING WITH PROTECTIVE SHIELDING GUARD, TRUEBRO INSULATED VINYL PIPE COVERS WITH ANTI-MICROBIAL, REUSABLE FASTENERS	WHD	WALL HYDRANT	-	3/4"	-	WOODFORD MODEL 65	ANTI-SIPHON, AUTO DRAINING, W/ VACUUM BREAKER, FREEZLESS 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 CONTSTRUCTION, 24" H20 GAS-TIGHT CAST-IRON COVERS. PROVIDE RISERS AS REQUIRED TO MEET GRADE.

1. VERIFY ALL CONNECTIONS & MOUNTING HEIGHTS WITH CODES, MANUFACTURERS, AND PLANS.

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

			DR	AIN		COLD	WATER	нот \	WATER
FIXTURE	QTY.	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
TOTAL			14	78	92		45		15.75

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)

\*\* FIXTURE HAS INDIRECT WASTE TO FLOOR SINK.

TOTAL SANITARY = 92 DFU USE 4" SANITARY

PLAN NOTES

SITE CONDITIONS.

SITE CONDITIONS.

3 4" VENT UP IN WALL FURRING.

5 46 SEATS X 4.2 = 193.2 LBS OF GREASE

3" VENT BELOW GRADE FROM GREASE TRAP.

3" VENT UP IN WALL FURRING.

4" SANITARY WASTE PIPING. SEE CIVIL ENGINEERING DRAWINGS FOR CONTINUATION. COORDINATE EXACT INVERT ELEVATION WITH

4" GREASE WASTE PIPING. SEE CIVIL ENGINEERING DRAWINGS FOR CONTINUATION. COORDINATE EXACT INVERT ELEVATION WITH

4 CERTIFIED GREASE INTERCEPTOR, SCHIER B-250, 100 GPM RATED FLOW, 1,895 LBS GREASE HOLDING CAPACITY AT 96.7%

OFFSET VENT LINES ABOVE CEILING, AND ROUTE TO VTRs AT

EFFICIENCY. SEE DETAIL 13 ON SHEET P4. GREASE INTERCEPTOR SIZED PER 2015 OMAHA PLUMBING CODE: CATEGORY C, NO

	8 GRE AFF 9 COV 10 80L 11 PRO 12 3/4 13 W/II 14 THR 15 FLO 16 HUE	SET VENT I ATIONS SHO ATIONS SHO ASE DISPO (SEE DETA ER TO CEIL TE DRAINA PVC LINE R PRDINATE W PVIDE HEAT DING TO T " CONDENS NDIRECT CO END CHICKI OUGH COOL PVIDE 1 1/2 OR SINK.  PVIDE DRAIN DVIDE 2" IN OR SINK.	OWN, TO SAL LINE ALL 7/P4) LING - S GE TO SI RUN THRO ATTH THE TRACE T CANK. SEE SATE PIPI DNNECTION EN VAT'S LER WALL TO SEE TO SI	MOUNT ). G.C.: EE GENI INK UND DUGH CE SODA II TAPE ON E GENER NG BRA N INTO 2" COF TO DIS CT WAS	O.A. INTA ED FLUSH SHALL PR ERAL NOT DER ITEM EILING FOI NSTALLER A EXPOSE RAL NOTE CED TO N HUB DRA PPER INDI SCHARGE TE FROM	H AGAIN ROVIDE: TE #18/ K-32. R CO2 H 18/PO WALK-IN INTO H 1 COMF	RTUs. ST WALL STAINLESS PO. AND SODA SE LINE F D. WALLS. WASTE LINE UB DRAIN. PARTMENT	© 3'-0" STEEL LINES. FROM SPILL SINK TO	GW	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  KITCHEN EQUIPMENT ITEM NUMBER  FIXTURE DESIGNATION	
									<u>P–1</u>	FIXTURE DESIGNATION	
									AFF	ABOVE FINISHED FLOOR	
									PC	PLUMBING SUB-CONTRACTOR	
									GC	GENERAL CONTRACTOR	
									MC	MECHANICAL SUB-CONTRACTOR	
									EC	ELECTRICAL SUB-CONTRACTOR	
								,	FCO	FLOOR CLEAN OUT	
1G	FIX	TUF	RE S	SUN	MMA	AR'	Y		WCO	WALL CLEAN OUT	
		AIN			WATER		VATER		GCO	GRADE CLEAN OUT	
F.U.	SAN WASTE	GREASE WASTE	F.U.	F.U. CW	TOTAL CW	F.U. HW	TOTAL HW		НВ	HOSE BIBB	
4 1	8		8	5 1	10	0.75	1.5		FD	FLOOR DRAIN	
2		6	6	2	6	1	3		FS	FLOOR SINK	
				6	6	4.5	4.5		HD	HUB DRAIN	
				6	6	4.5	4.5		CW	COLD WATER	
				5 1	10 2				HW	HOT WATER	
2		16	16						TW	TEMPERED WATER	
2	4		4						FW	FILTERED WATER	
5		8 45	35						AAV	AIR ADMITTANCE VALVE (STUDOR VENT)	
. )		1 4:0	(3:7)	. '					_		- 1

TIE INTO EXISTING

NOT ALL SYMBOLS AND ABBREVIATIONS IN THIS LEGEND WILL

PLUMBING LEGEND

DOMESTIC COLD WATER PIPING

DOMESTIC HOT WATER PIPING

HOT WATER RECIRC

WASTE (SANITARY SEWER)

EXIST. WASTE (SANITARY SEWER)

EXIST. DOMESTIC COLD WATER

EXIST. DOMESTIC HOT WATER

--c---- CONDENSATE DRAIN

FW------ FILTERED WATER

---- VENT PIPING

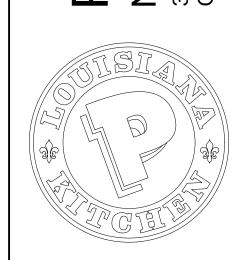


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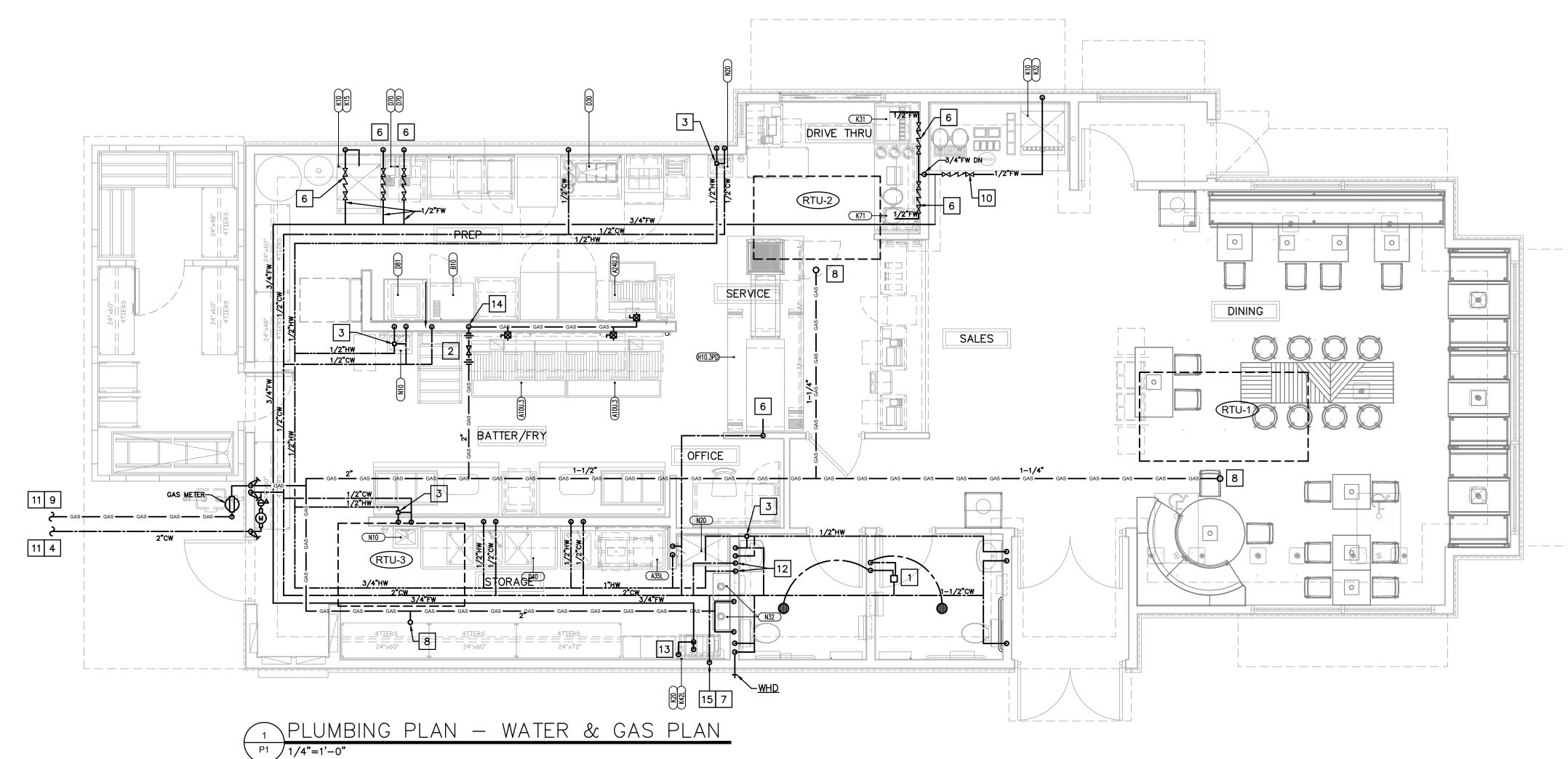


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> Waste And Vent Plan

olsson

APPEAR IN DRAWING.



# PLAN NOTES

- 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 "L" SOFT COPPER TRAP PRIMER LINES DOWN TO BELOW FLOOR TO CONNECTIONS TO FD-B.
- 1-1/2" AUTOMATIC GAS VALVE EXPOSED 6" BELOW CEILING HEIGHT. PROVIDED BY OWNER INSTALLED BY CONTRACTOR. INTERLOCK WITH HOOD SUPRESSION SYSTEM. REDUCE FROM 2" AT INLET, AND INCREASE TO 2" AT OUTLET. PROVIDE 2" UNION ON INLET AND OUTLET.
- 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.
- 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.
- 1" HW, 1" CW, AND 1-1/2" NATURAL GAS DOWN TO TANKLESS GAS WATER HEATER MOUNTED ON WALL. REFER TO DETAIL 10/P4.
- WATER FILTER MOUNTED ON WALL ABOVE BAG-IN-BOX SYSTEM. STUB-OUT WATER SUPPLY @ 8'-4" A.F.F. SEE DETAIL 2/P4.
- 2" GAS DOWN, EXPOSED ON WALL. EXTEND UNDER EQUIPMENT TO FINAL CONNECTIONS. PROVIDE PLUG VALVE, REDUCER, AND AGA RATED FLEX SUPPLY AT
- 1/2" WATTS NO. 9 DUAL CHECK BACKFLOW PREVENTER IN SUPPLY LINE TO ICE MACHINE. LOCATE IN ACCESSIBLE LOCATION ABOVE CEILING.

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-CASTL
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 SI	JMMARY					
DESCRIPTION	GAS LOAD (BTUH)					
BUILDING HEATING	584,000					
WATER HEATING	398,000					
KITCHEN EQUIPMENT	630,000					
TOTAL GAS LOAD	1,612,000 BTUH © 7.5" W.C. DELIVERY PRESSURE					
FRYER'S GAS PRESSURE REQ. '	WATER COLUMN					

7" INPUT SIDE. 4" OUTPUT SIDE.

G.C. TO VERIFY READINGS WHEN CHECKING SYSTEM.

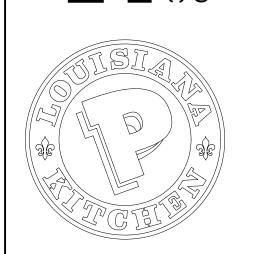
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> Water And Gas

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**PLUMBING LEGEND** 

—---- DOMESTIC COLD WATER PIPING

DOMESTIC HOT WATER PIPING

HUB DRAIN

FLOOR SINK

FLOOR CLEAN OUT

GRADE CLEAN OUT

WALL CLEAN OUT

FIXTURE DESIGNATION

ABOVE FINISHED FLOOR

GENERAL 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

TIE INTO EXISTING

NOT ALL SYMBOLS AND ABBREVIATIONS IN THIS LEGEND WILL

APPEAR IN DRAWING.

AIR ADMITTANCE VALVE (STUDOR VENT)

PLUMBING SUB-CONTRACTOR

MECHANICAL SUB-CONTRACTOR

ELECTRICAL SUB-CONTRACTOR

KITCHEN EQUIPMENT ITEM NUMBER

——FW—— FILTERED WATER

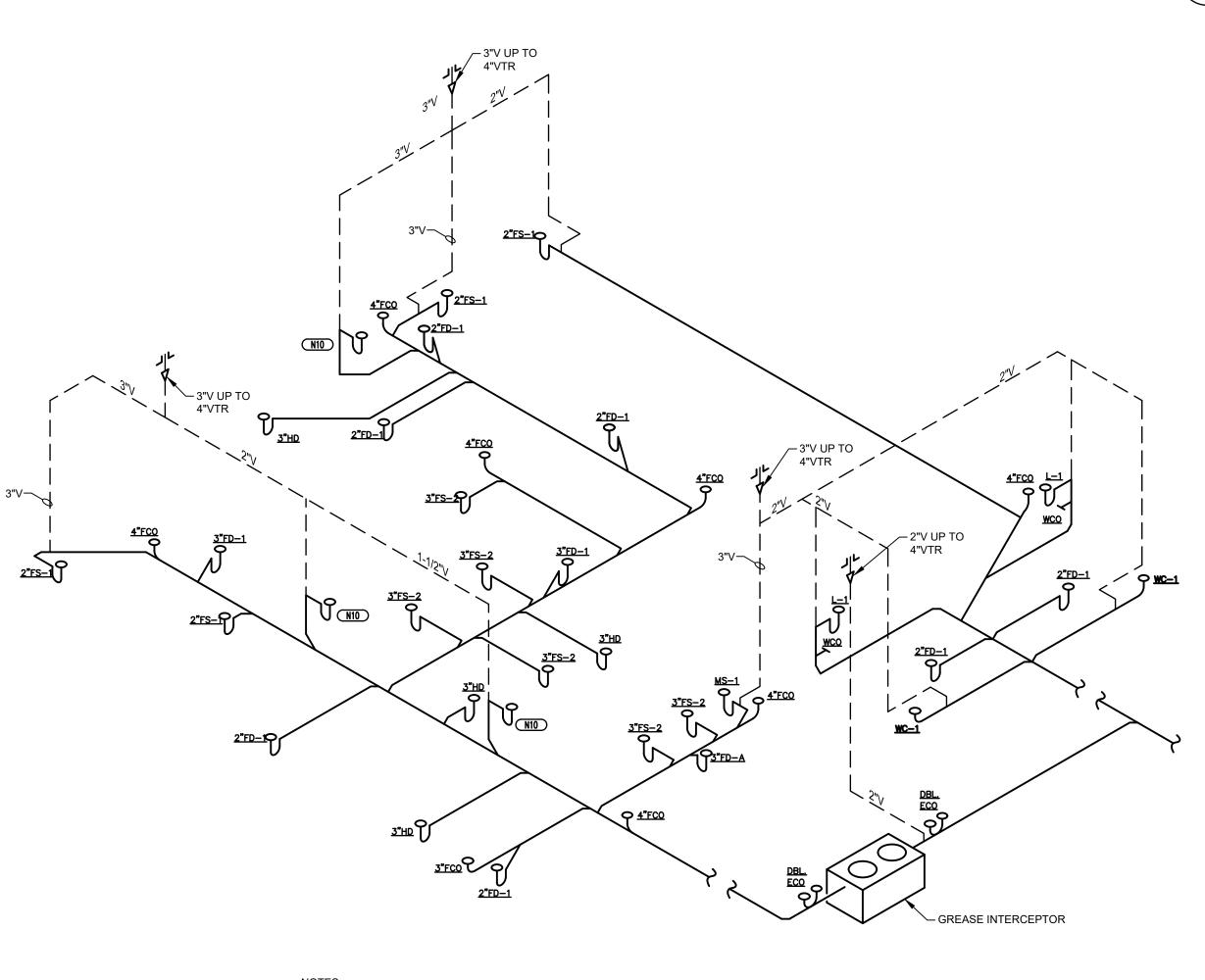
GAS SOLENOID VALVE

— SVO — GAS VALVE

— GAS — GATE VALVE

— GAS — CHECK VALVE

— GAS — GAS — BALANCING VALVE

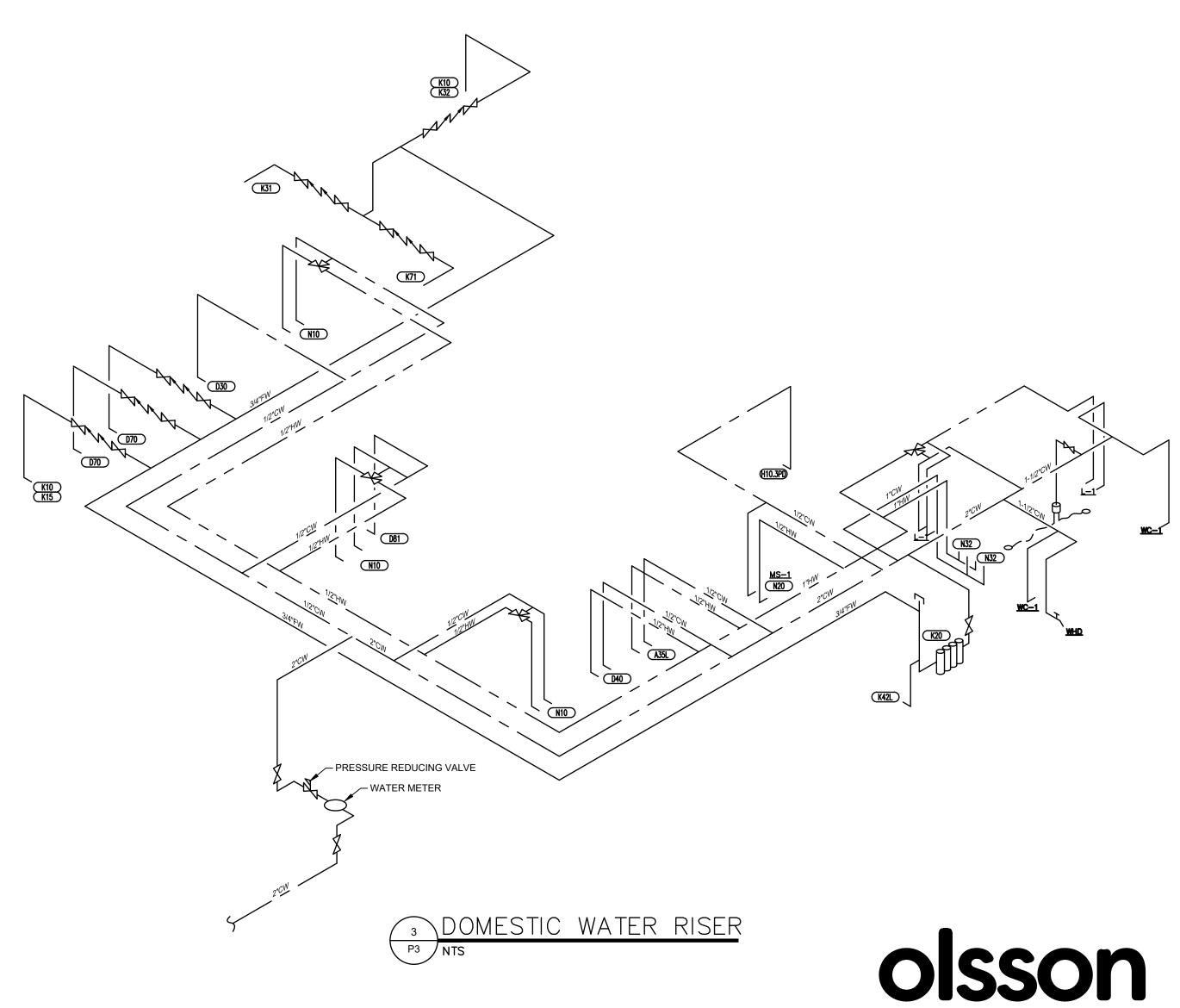


NOTES:

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.

SANITARY WASTE AND VENT RISER
P3 NTS





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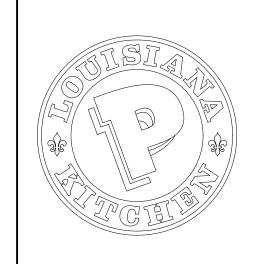
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POPEYES

VEW CONSTRUCTION

A 20 NORTH 167TH STREET



POPEYES

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Riser Diagram

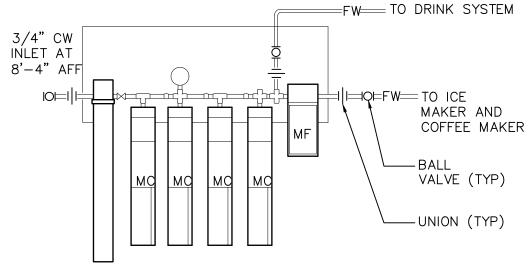
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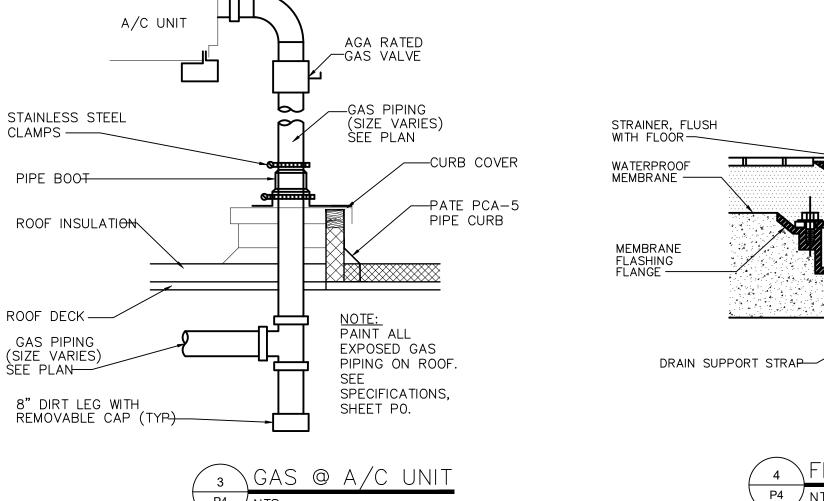
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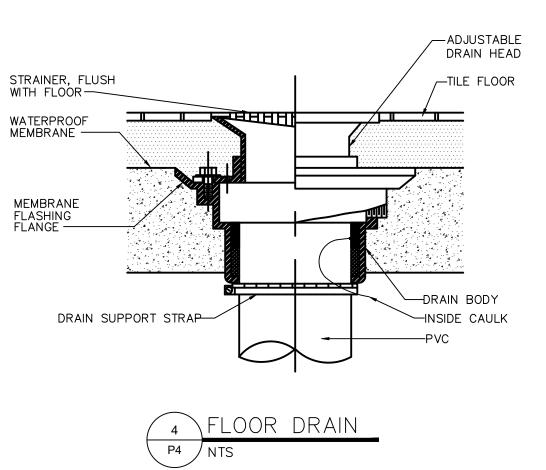
- 1. SURFACE MOUNTED THERMOSTATIC MIXING VALVE ASSEMBLY TO BE SYMMONS MAXLINE SERIES 7-225-CK OR APPROVED EQUAL. 4.5 GPM AT 5 PSI MAXIMUM PRESSURE DROP,
- 2. SEE FEMNY PORTON SIZES FROM WATER HEATER SYSTEM TO MIXING VALVE ASSEMBLY.
- REDUCE AT ASSEMBLY AS REQUIRED.
- 3. INSTALL PER MANUFACTURERS PUBLISHED RECOMMENDATIONS.

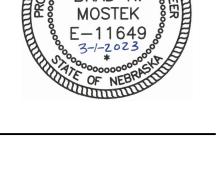












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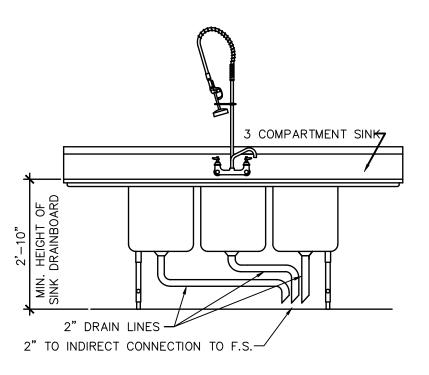


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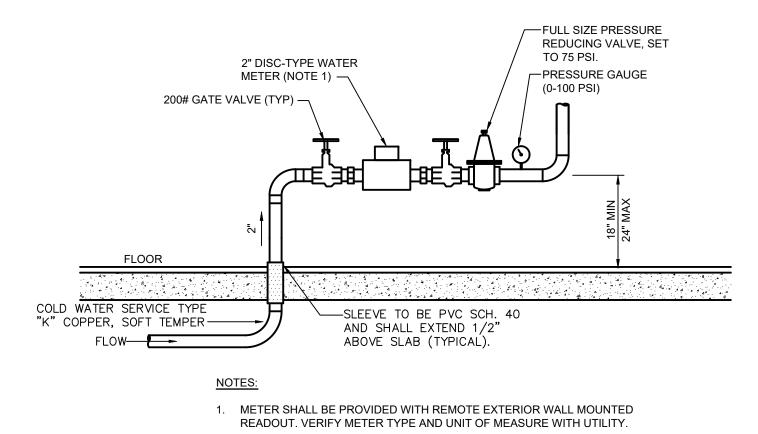


Project No. | 021-01872 Issue Date | 12-16-2022

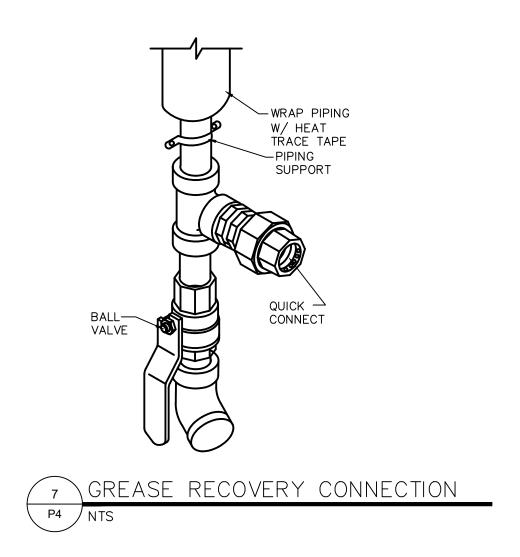
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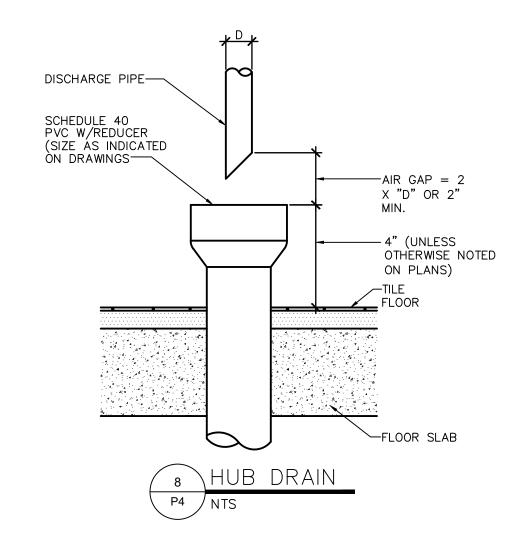


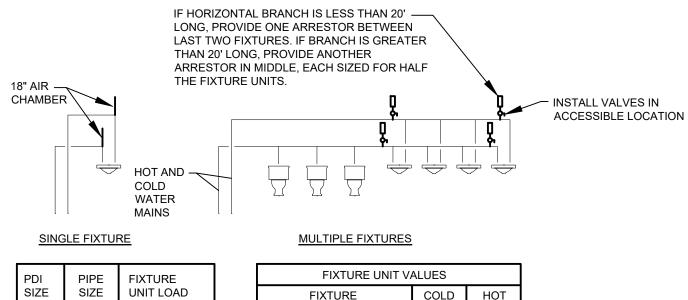








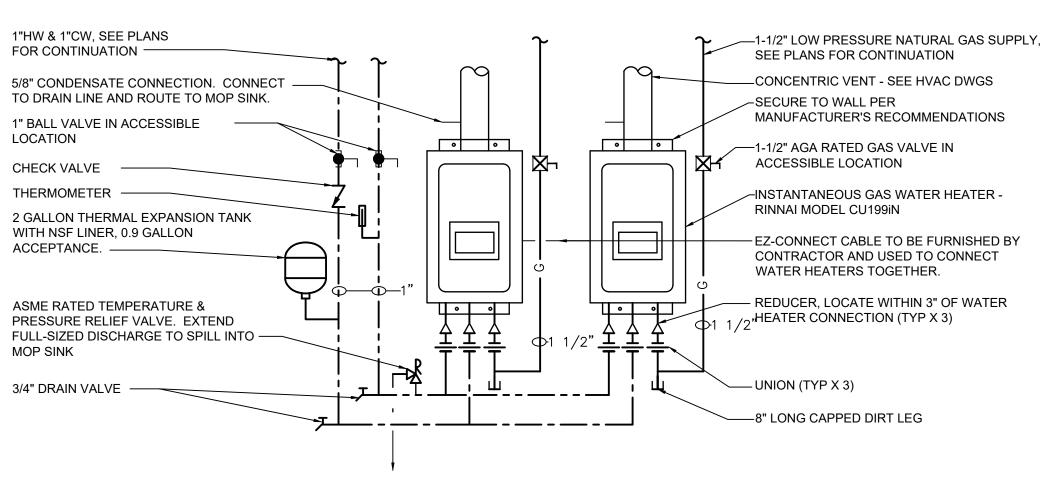




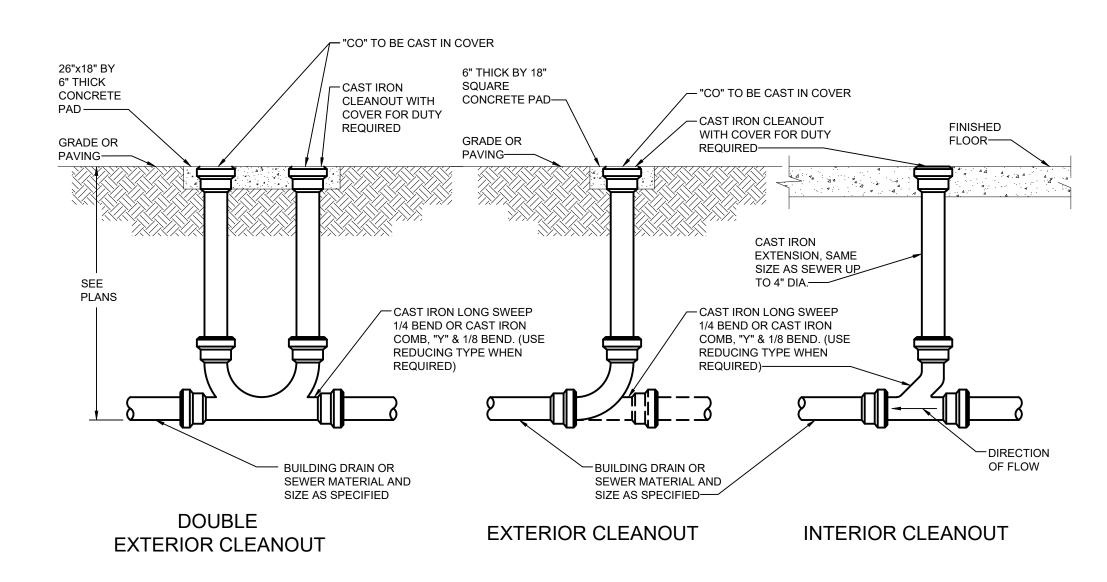
PDI	PIPE	FIXTURE	]	FIXTURE UNIT VALUES						
SIZE	SIZE	UNIT LOAD		FIXTURE	COLD	НОТ				
Α	1/2"	1-11		URINAL	5.0	-				
В	3/4"	12-32		WATER CLOSET	5.0	-				
С	1"	33-60		LAVATORY	1.0	1.0				
D	1-1/4"	61-113		SINK	2.0	2.0				
Е	1-1/2"	114-154		SHOWER/TUB	2.0	3.0				
F	2"	155-330		WASHING MACHINE	3.0	3.0				





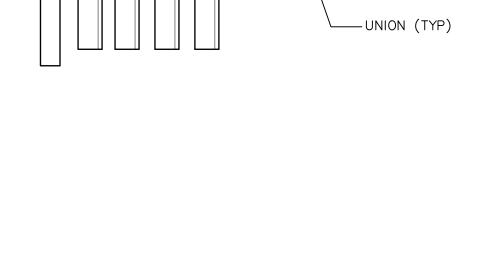


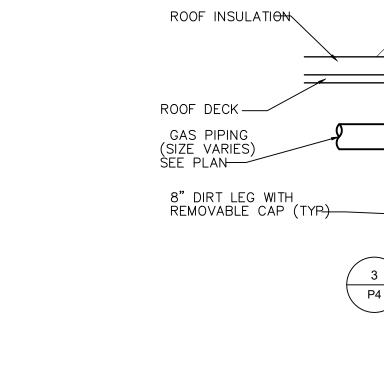


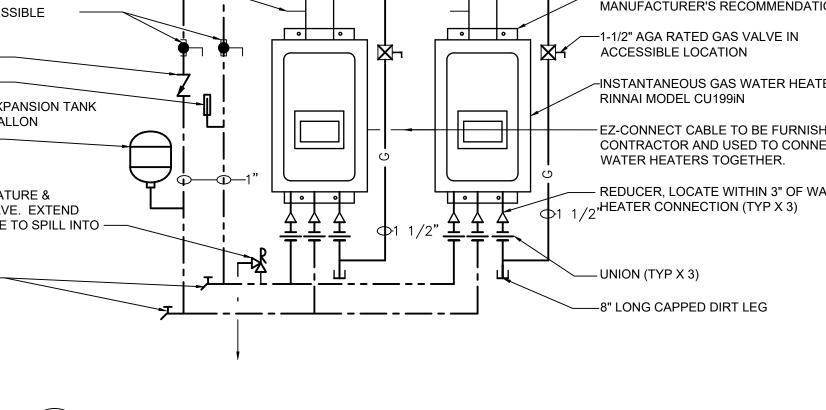












2111 South 67th Street, Suite 200

- 1. SCOPE: PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT IN ACCORDANCE WITH THESE SPECIFICATIONS, AND THE ACCOMPANYING DRAWINGS TO PROVIDE A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM FOR THE BUILDING.
- 2. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL OF THE FOLLOWING MATERIAL AND EQUIPMENT UNDER THIS DIVISION OF THE SPECIFICATIONS, UNLESS NOTED OTHERWISE: PANELBOARDS; LIGHTING FIXTURES; LAMPS; RACEWAYS; 600 VOLT WIRE AND CABLE; WIRING DEVICES; DEVICE PLATES; DEVICE, PULL, AND JUNCTION BOXES; SAFETY SWITCHES; MOTOR STARTERS; LIGHTING CONTROLS; CIRCUIT BREAKERS; FUSES; TIME CLOCKS; EQUIPMENT IDENTIFICATION (NAMEPLATES AND DIRECTORIES); WIRE AND CABLE TERMINATIONS; CONNECTIONS TO INDIVIDUAL UNITS OF EQUIPMENT FOR THE WALK-IN FREEZERS AND COOLERS; AND TEMPORARY POWER.
- 3. THE FOLLOWING MATERIAL AND EQUIPMENT SHALL BE FURNISHED AND/OR INSTALLED BY OTHERS. OR UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, UNLESS NOTED OTHERWISE: LOW VOLTAGE (24 VOLT) WIRE AND CABLE, COMMUNICATION DEVICES, SECURITY EQUIPMENT, POINT OF SALE (POS) EQUIPMENT, SIGNAGE, CONCRETE BASES FOR SITE LIGHTING POLES.
- 4. THE FOLLOWING MATERIAL AND EQUIPMENT WILL BE FURNISHED BY OTHERS, OR UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, AND INSTALLED BY THE CONTRACTOR, UNLESS NOTED OTHERWISE: SITE LIGHTING FIXTURES AND POLES.
- 5. GENERAL REQUIREMENTS: ALL WORK SHALL BE PERFORMED BY SKILLED LICENSED ELECTRICIANS IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE, MEETING THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. APPLICABLE FEDERAL, STATE AND LOCAL CODES, AND THE REQUIREMENTS OF THE ELECTRICAL UTILITY COMPANY FURNISHING THE SERVICES. ALL NECESSARY CONSTRUCTION PERMITS AND CERTIFICATES OF INSPECTION SHALL BE PURCHASED AND OBTAINED UNDER THIS CONTRACT.
- COORDINATION: ALL OUTLETS MUST BE ACCURATELY LOCATED, PARTICULARLY APPLIANCE OUTLETS WHICH SHALL BE LOCATED FROM THE DIMENSIONS GIVEN ON THE DRAWING AND FIELD VERIFIED. REVIEW THE ARCHITECTURAL, PLUMBING AND HEATING AND VENTILATING PLANS IN ORDER TO COORDINATE THIS WORK WITH OTHER TRADES, AND COOPERATE WITH THEM IN THE ENTIRE INSTALLATION.
- 7. SERVICE VOLTAGE: THESE DRAWINGS ARE FOR A METERED, UNDERGROUND BUILDING SERVICE OF 120/208 VOLT, THREE PHASE, FOUR WIRE, 60 HERTZ. ALL KITCHEN AND AIR CONDITIONING EQUIPMENT HAS BEEN DESIGNED AND PURCHASED FOR USE ON THIS ELECTRICAL SYSTEM. THE CONTRACTOR SHALL CONTACT THE ELECTRICAL UTILITY AND VERIFY ALL OF THE ABOVE SERVICE CHARACTERISTICS, AND THE AVAILABLE FAULT CURRENT.
- 8. SERVICE EQUIPMENT: THE SERVICE SHALL BE LOCATED AS SHOWN ON THE SITE PLAN, OR AS INDICATED IN THE INSTRUCTIONS TO BIDDERS, UTILITY POLES, PADS FOR UTILITY TRANSFORMERS. CURRENT TRANSFORMER ENCLOSURES, METERING EQUIPMENT SERVICE MASTS. AND OTHER RELATED MATERIALS AND EQUIPMENT SHALL BE APPROVED. FURNISHED. AND INSTALLED AS REQUIRED. INCLUDE THE COST OF ALL THE ABOVE ITEMS. SERVICE CONNECTIONS, AND METER CHARGES IN THE BASE BID. MAIN SERVICE SWITCHES AND CURRENT TRANSFORMER CABINETS SHALL BE INCLUDED IN THE BASE BID. UNLESS NOTED OTHERWISE, A MAIN SERVICE SWITCH WITH CURRENT LIMITING FUSES MAY BE USED WHEN THE AVAILABLE FAULT CURRENT (AFC) IS EXCESSIVE, IN ORDER TO USE STOCK PANELBOARDS, WITH 10K OR 22K AIC

# 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, PROVIDED A LIST OF SUCH SUBSTITUTIONS IS APPROVED IN WRITING BY THE POPEYES DESIGN MANAGER, AND THE POPEYES CONSTRUCTION MANAGER. THE CONTRACTOR SHALL SUBMIT A SUBSTITUTION LIST IN TRIPLICATE AT LEAST FIVE DAYS PRIOR TO THE BID OPENING.

- PANELBOARDS: PANELBOARDS SHALL BE BOLT-ON CIRCUIT BREAKER TYPE, AS SHOWN ON THE PLANS. PANELS SHALL BE OF PANELBOARD CONSTRUCTION, 20 INCHES WIDE (MINIMUM), 5-3/4" TO 6-1/2" DEEP, UL LISTED, AND MEET UL 67, UL 50, AND FEDERAL SPECIFICATION W-P-115B AS TYPE 1, CLASS 1, WITH BOLT-ON CIRCUIT BREAKERS, COPPER BUS BARS, NEUTRAL BUS, GROUND BUS, AND A HINGED LOCKABLE DOOR. CABINETS SHALL BE CODE GAUGE, GALVANIZED STEEL, MOUNTED AS SHOWN. PROVIDE TYPEWRITTEN CIRCUIT DIRECTORIES WITH CLEAR PLASTIC PROTECTORS IN ALL PANELS. ALL WIRES SHALL BE TAGGED WITH PANEL AND CIRCUIT NUMBERS. PANEL "DP" SHALL BE UL LISTED AND LABELED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT. APPROVED MANUFACTURERS OF PANELS ARE SQUARE D/TELEMECHANIQUE, CUTLER-HAMMER, GENERAL ELECTRIC, WESTINGHOUSE, AND SIEMENS (I-T-E).
- LIGHTING FIXTURES: LIGHTING SHALL BE PURCHASED FROM THE POPEYES APPROVED NATIONAL ACCOUNT PARTNER -HERMITAGE LIGHTING. CONTACT HERMITAGE LIGHTING FOR SPECIAL PACKAGE PRICING. IF PRODUCT IS NOT PURCHASED FROM HERMITAGE LIGHTING, THEN THE PRODUCT IS SUBJECT TO POSSIBLE REMOVAL BY CONTRACTOR AND CORRECT PRODUCT INSTALLED AT THE CONTRACTOR'S EXPENSE. ALL SUBSTITUTIONS NEED TO BE APPROVED IN WRITING BY A PLK DESIGN MANAGER.
- WIRING DEVICES: ALL WIRING DEVICES SHALL BE UL LISTED, COMMERCIAL SPECIFICATION GRADE. SWITCHES SHALL BE RATED 20 AMPS AT 120/277 VOLTS, AC. STANDARD RECEPTACLES SHALL BE 20 AMP, DUPLEX, GROUNDING TYPE, IN NEMA CONFIGURATIONS, UNLESS NOTED OTHERWISE. SWITCHES IN THE SAME LOCATION SHALL BE GANGED BEHIND A SINGLE PLATE. DEVICE PLATES IN THE KITCHEN AREA SHALL BE METAL. ALUMINUM OR STAINLESS STEEL. DEVICE PLATES IN THE DINING AREA SHALL BE TAMPER RESISTANT, AND THERMOPLASTIC PLASTIC (NYLON) OR METAL, COLOR AS APPROVED BY POPEYES DESIGN. APPROVED MANUFACTURERS OF SWITCHES AND RECEPTACLES ARE HUBBELL, ARROW HART, BRYANT, LEVITON, PASS & SEYMOUR, GENERAL ELECTRIC, SLATER, OR EQUAL.
- a. SINGLE POLE: HUBBELL HBL1221-I, OR EQUAL. b. THREE WAY: HUBBELL HBL1223-I, OR EQUAL.
- RECEPTACLES:
- a. NEMA 5-20R: HUBBELL 5362I, OR EQUAL b. NEMA 5-20R-IG: HUBBELL IG-5362, OR EQUAL c. NEMA 5-20R-IG/SS: HUBBELL IG-5362-OS, OR EQUAL d. NEMA 5-20R-GFCI: HUBBELL GF5362-I, OR EQUAL. e. NEMA 6-20R: HUBBELL 5462-I, OR EQUAL. f. OTHERS: COMMERCIAL OR INDUSTRIAL GRADE, UL LISTED, FEDERAL SPECIFICATION WC596F.
- WP PLATES: WEATHERPROOF COVERS ARE PERMITTED UNDER NEC ARTICLE 406.8(B)(I).
- NATIONAL ACCOUNT: REFER TO THE NATIONAL ACCOUNT DIRECTORY. THE FOLLOWING EQUIPMENT MAY BE AVAILABLE: MAIN SERVICE PANELBOARD WITH BREAKERS INSTALLED. LIGHTING AND DISTRIBUTION PANELBOARDS WITH BREAKERS INSTALLED, ROOF-TOP DISCONNECTS FOR HVAC UNITS AND KITCHEN HOOD FANS, LIGHTING CONTACTOR PANEL, AND SHUNT TRIP SYSTEMS (IF REQUIRED PER LOCAL CODE).
- EXCAVATIONS: PERFORM ALL NECESSARY EXCAVATING AND BACK-FILLING REQUIRED FOR THIS INSTALLATION. ALL EXCAVATIONS BELOW THE BOTTOM OF FOOTINGS SHALL BE BACKFILLED WITH 3000 PSI CONCRETE. WHERE DITCHES ARE EARTH IN 12" LAYERS AND LEAVE THE GROUND LEVEL AND EQUAL TO ITS ORIGINAL CONDITION.
- 10. CONDUIT AND FITTINGS: CONDUIT PERMITTED: (A) RIGID GALVANIZED STEEL (RGS), (B) EMT, (C) PVC, AND (D) ENT. TYPES UTILIZED SHALL BE RUN ONLY AS PERMITTED PER CODE. ALL WIRING SHALL BE RUN IN CONDUIT. CONDUIT PLACED IN CONCRETE OR RUN UNDERGROUND SHALL BE RIGID GALVANIZED CONDUIT OR PVC. IF PVC IS USED, ALL ELBOWS, SWEEPS AND STUB-UPS SHALL BE RGS. CONDUIT EXPOSED OR RUN IN MASONRY WALLS ABOVE GRADE MAY BE PVC OR EMT 17. FURNISH AND INSTALL THE LIGHTING CONTACTOR PANEL, AND WHERE ALLOWED BY LOCAL CODES. IF EMT IS NOT PERMITTED, RIGID SCREWED GALVANIZED PIPE CONDUIT AND FITTINGS SHALL BE USED. IF SHIELDED CABLE IS REQUIRED FOR CONTROL CIRCUITRY, IT SHALL BE TAN, GREY OR ANY NEUTRAL COLOR CONDUIT SMALLER THAN 3/4" SHALL BE INSTALLED EXCEPT FOR TWO-WIRE SWITCH LEGS. ALL CONDUIT BENDS SHALL BE FREE FROM DENTS AND KINKS. ALL CONDUITS SHALL BE ELECTRICALLY CONTINUOUS FROM THE SERVICE EQUIPMENT TO ALL OUTLETS, AND SHALL BE SECURED TO ALL METAL BOXES WITH ONE LOCK NUT OUTSIDE, AND ONE INSIDE THE BOX WITH A REINFORCED BAKELITE BUSHING. IF PVC, OR ENT, IS USED, THEN 20. EQUIPMENT IDENTIFICATION: PROVIDE NAMEPLATES FOR ALL APPROPRIATE SIZED, ELECTRICALLY CONTINUOUS, BOND WIRES SHALL BE RUN FROM THE SERVICE EQUIPMENT TO ALL OUTLETS, AND SHALL BE SECURED TO EACH WIRING DEVICE PER THE NATIONAL ELECTRICAL CODE. WHERE CONNECTIONS ARE TO BE MADE BETWEEN CONDUIT TERMINATIONS AND MOTORS, EQUIPMENT, OR APPARATUS NECESSITATING FLEXIBLE CONNECTIONS, APPROVED FLEXIBLE CONDUIT SHALL BE USED. OUTDOOR CONNECTIONS TO FANS, HVAC UNITS, OR ROTATING EQUIPMENT SHALL B MADE WITH HELICAL WOUND, LIQUIDTIGHT, FLEXIBLE STEEL CONDUIT. EXPOSED CONDUIT SHALL BE SUITABLY SUPPORTED AT INTERVALS NOT TO EXCEED FIVE (5) FEET. DURING CONSTRUCTION, CONDUIT SHALL BE KEPT FREE OF ALL FOREIGN MATTER BY USE OF CAPPED BUSHINGS ON ALL TURNED UP ENDS. PAPER OR WOOD PLUGS ARE NOT ACCEPTABLE FOR THIS PURPOSE.

- 11. 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 HH-I-595C), ANSI, AND OTHER APPLICABLE INDUSTRY STANDARDS. CONNECTORS AND LUGS SHALL MEET UL PUBLICATION 486. ALL BRANCH CIRCUIT WIRING SHALL BE 600 VOLT, COPPER, 75 DEGREE C (MIN), TYPE THHN/THWN WITH A MINIMUM SIZE OF #12 AWG, UNLESS NOTED OTHERWISE. WIRE SIZES OF #8 AWG AND LARGER SHALL BE STRANDED. SERVICE AND FEEDER CABLES SHALL BE 600 VOLT, STRANDED COPPER, 75 DEGREE C (MIN), TYPE XHHW. ALL CIRCUITS SHALL HAVE A SEPARATE GROUND CONDUCTOR PROVIDE GREEN-INSULATED GROUND WIRE IN ALL RACEWAYS, CABLE ASSEMBLIES, AND WHERE NOTED. SIZE EQUIPMENT GROUNDS PER TABLE 250-122 OF THE NATIONAL ELECTRICAL CODE. INSULATION COLOR CODES SHALL BE BLACK, RED, AND BLUE (PHASE), WHITE (NEUTRAL), AND GREEN (GROUND).
- 12. ALL WIRING SHALL BE INSTALLED IN CONDUIT, EXCEPT WHERE SPECIFICALLY SHOWN ON THE DRAWINGS. NON-METALLIC SHEATHED (TYPE NM) CABLE IS NOT PERMITTED.
- 13. ALL BRANCH CIRCUIT, COMMUNICATION, SIGNALING, AND CONTROL WIRING TO KITCHEN, FIRE PROTECTION, AND OTHER EQUIPMENT SHALL BE ROUTED ABOVE THE CEILING. VERIFY WHETHER OR NOT THE SPACE ABOVE THE CEILING IS USED AS A SPACE FOR RETURN AIR FOR THE ENVIRONMENTAL AIR SYSTEM IF IT IS USED FOR RETURN AIR, PROVIDE APPROVED RACEWAYS FOR ALL OVERHEAD WIRING PER NEC ARTICLE 300-22(B). IF IT IS NOT "OTHER SPACE USED FOR ENVIRONMENTAL AIR", APPROVED LOW VOLTAGE CABLES MEETING THE REQUIREMENTS OF NEC ARTICLES 725 AND 760 MAY BE RUN WITHOUT RACEWAYS, UNO. ALL SAFETY CONTROL WIRING FOR FIRE PROTECTION SYSTEMS, SHUNT TRIPS, ETC. SHALL BE RUN IN A RACEWAY IN ACCORDANCE WITH NEC ARTICLES 725.25 AND 725.28.
- SITE LIGHTING: THE NATIONAL ACCOUNT VENDOR SHALL FURNISH THE SITE LIGHTING PACKAGE, AS REQUIRED FOR THE SPECIFIC LOCATION. UNDER THIS SPECIFICATION SECTION, PROVIDED ARE 1" RIGID GALVANIZED STEEL ELECTRICAL CONDUIT, AND THE REQUIRED WIRING FROM THE PANEL TO THE POLE. SET FIXTURES AND POLES ON CONCRETE BASES. GROUND/BOND ALL SITE LIGHTING FIXTURES/POLES PER THE NEC. THE BRANCH CIRCUIT CONDUCTORS SHALL BE INCREASED FROM #10 AWG TO #8 AWG IF THE HORIZONTAL DISTANCE FROM THE PANEL TO THE POLE IS GREATER THAN EIGHTY (80) FEET. ALL SITE LIGHTING SHALL BE CONTROLLED THROUGH THE LIGHTING CONTROL SYSTEM SHOWN ON THE DRAWINGS. REFER TO THE SITE PLAN FOR QUANTITY AND LOCATION OF ALL SITE LIGHTING. SET FIXTURES AS SPECIFIED, AND AIM AFTER DARK FOR UNIFORM LIGHT DISTRIBUTION. THE NATIONAL ACCOUNT VENDOR SHALL PROVIDE A SITE PHOTOMETRIC AT NO COST, WHICH MAY BE A PART OF THE CONSTRUCTION DOCUMENTS SET, BUT SHALL BE SUBMITTED TO POPEYES DESIGN FOR THEIR RECORDS.
- SIGNAGE LIGHTING: PROVIDE A 1" RIGID GALVANIZED STEEL ELECTRICAL CONDUIT, AND WIRING, FROM THE PANEL TO ALL ILLUMINATED SIGNS AS SHOWN ON THE LIGHTING AND SITE PLANS. GROUND/BOND EACH SIGN. SIGNS WILL BE FURNISHED AND INSTALLED BY THE SIGN COMPANY CONTRACTED BY THE GC, OR UNDER A SEPARATE CONTRACT WITH THE OWNER. POWER AND WIRING SHALL BE FURNISHED AND INSTALLED UNDER THIS SECTION OF THE SPECIFICATIONS.

# OTHER WIRING:

- CUT FOR OUTSIDE RUNS OF CONDUIT, REPLACE AND TAMP THE 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. DISCONNECT SWITCHES. AVAILABLE FROM THE NATIONAL ACCOUNT, SHALL BE FURNISHED AND INSTALLED FOR EACH UNIT OF HVAC EQUIPMENT, AND FOR KITCHEN EQUIPMENT WITHOUT A CORD AND PLUG. BEFORE ENERGIZING ANY EQUIPMENT, VERIFY THAT THE CORRECT POWER SUPPLY VOLTAGE, AMPACITY, AND PHASING HAS BEEN PROVIDED AT THE LOAD SIDE OF THE DISCONNECT.
  - ALL ASSOCIATED POWER WIRING, AS INDICATED. THE LIGHTING CONTACTOR PANEL IS CUSTOM BUILT, AND AVAILABLE FROM THE NATIONAL ACCOUNT.
- OTHER THAN THAT AS SPECIFIED FOR POWER DISTRIBUTION. NO 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.
  - PANELBOARDS, CONTROLS, AND OTHER ELECTRICAL EQUIPMENT. EQUIPMENT VISIBLE TO THE PUBLIC SHALL BE IDENTIFIED WITH ENGRAVED LAMINATED NAMEPLATES ATTACHED WITH STAINLESS STEEL FASTENERS. ELECTRICAL EQUIPMENT NOT VISIBLE TO THE PUBLIC MAY BE NEATLY IDENTIFIED WITH BLACK PERMANENT MARKERS.

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. VOLTAGE, CURRENT, AND ROTATION TESTS SHALL BE MADE BEFORE ANY MOTORS ARE PLACED IN OPERATION. ALL LOADS SHALL BE BALANCED ACROSS PHASES. CHECK TO SEE THAT ALL LIGHTS WORK, AND ARE CONTROLLED BY SWITCHES INDICATED ON DRAWINGS, OR CIRCUIT BREAKERS SO INDICATED ON PANEL SCHEDULE.
- GUARANTEE: FURNISH A GUARANTEE IN WRITING TO THE OWNER THAT ALL WORK EXECUTED UNDER THIS SECTION IS FREE FROM DEFECTS OF MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. IN ADDITION, DURING THE TERM OF THIS GUARANTEE, THE REPAIR AND/OR REPLACEMENT OF ANY DEFECTIVE WORK, AND ALL RESULTING DAMAGES SHALL BE MADE AT NO ADDITIONAL EXPENSE TO THE OWNER.
- TEMPORARY POWER: AT THE PROJECT SITE, PROVIDE A 100 AMP, 120/240 VOLT, SINGLE PHASE, SERVICE WITH POWER OUTLETS ADEQUATE FOR TEMPORARY CONSTRUCTION POWER. TEMPORARY LIGHTING SHALL BE MAINTAINED IN ALL AREAS OF THE BUILDING UNTIL PERMANENT POWER SOURCES HAVE BEEN
- 4. CLEAN-UP: LEAVE THE ELECTRICAL PORTION OF THE WORK IN A CLEAN AND FINISHED CONDITION.
- AS-BUILT DRAWINGS: MAINTAIN AS-BUILT DRAWINGS, UPDATED DAILY DURING CONSTRUCTION, AND PRESENT THE OWNER WITH ONE SET UPON COMPLETION. PROVIDE THE OWNER'S PERSONNEL WITH ON-SITE INSTRUCTION IN THE OPERATION AND

AINTENANCE OF THE COMPLETED ELECTRICAL SYSTEM. THE SERVICES OF AN APPROVED AGENCY TO PROVIDE EVIDENCE OF MECHANICAL AND LIGHTING CONTROLS SYSTEMS COMMISSIONING IN ACCORDANCE WITH THE PROVISIONS OF THE 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC), SECTION C408. THE REQUIRED DOCUMENTS SHALL BE PROVIDED TO THE BUILDING OWNER OR THE OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY. FOR MECHANICAL SYSTEMS THE REQUIRED DOCUMENTS SHALL INCLUDE THE SYSTEM BALANCING REPORT AND FINAL COMMISSIONING REPORT. FOR LIGHTING CONTROLS SYSTEMS THE REQUIRED DOCUMENTS SHALL INCLUDE DRAWINGS WITH THE LOCATION AND CATALOG NUMBER OF EACH PIECE OF EQUIPMENT, OPERATING AND MAINTENANCE MANUALS, AND THE FINAL TESTING REPORT. ALTERNATIVELY, THE REQUIREMENTS FOR SYSTEM COMMISSIONING MAY BE MET VIA THE EQUIVALENT SECTIONS OF ASHRAE 90.1-2016, ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL UILDINGS, SECTIONS 6.7 AND 9.7, RESPECTIVELY.

# ELECTRICAL SYMBOLS

DENOTES MARK, SEE FIXTURE SCHEDULE.

BATTERY ON NIGHT LIGHT CIRCUIT.

LED LIGHT FIXTURE.

6" LED DOWNLIGHT

HUBBEL #5362-I

CONFIGURATION.

& PRINTERS

FOR MONITORS

208/120 PANELBOARD.

SEE ELECTRICAL NOTES.

ABOVE FINISHED CEILING.

WEATHERPROOF

**BELOW FLOOR** 

EXHAUST FAN.

SUPPLY FAN.

**FURNISHED BY CONTRACTOR** 

GROUND FAULT INTERRUPTING

REQUIRED IN ALL CONDUITS.

JUNCTION OR OUTLET BOX.

LOCATION AS SHOWN.

WIRING BY THIS CONTRACTOR.

SPEAKER; CEILING MOUNTED

SPEAKER OUTLET IN WALL STOD 3/4 CONSCI. . . . SPACE ABOVE ACCESSIBLE CEILING. PROVIDE PULL

ABOVE CEILING. PROVIDE PULL WIRE.

DISCONNECT SWITCH SIZE AS NOTED.

PENDANT LIGHT FIXTURE

16" PENDANT LIGHT FIXTURE.

6" ADJUSTABLE LED DOWNLIGHT

TOGGLE SWITCH - SINGLE POLE - HUBBEL #HBL1221-I

DUPLEX RECEPTACLE; NUMBER SUBSCRIPT INDICATES

MOUNTING HEIGHT AFF IF DIFFERENT THAN SPECIFIED.

DUPLEX RECEPTACLE - IN WEATHER PROOF ENCLOSURE

OR COVER. GROUND FAULT INTERRUPTER

RECEPTACLE FLUSH MOUNTED IN CEILING.

DUPLEX RECEPTACLE - ISOLATED GROUND SURGE

DUPLEX RECEPTACLE - ISOLATED GROUND SURGE

QUAD RECEPTACLE AS LOCATED ON DRAWINGS

DOOR SWITCH MOUNTED IN DOOR FRAME (F.B.C.)

CONDUIT RUN CONCEALED IN WALLS OR CL. SPACES. ARROWS

INDICATE HOMERUNS. SUBSCRIPT INDICATES PANEL AND

CIRCUIT NUMBERS. EQUIPMENT GROUNDING CONDUCTOR

SAME AS ABOVE NOTE EXCEPT RUN CONDUIT

SIGN CONNECTIONS REQ'D. VERIFY ALL ASPECTS WITH SIGNAGE

JUNCTION BOX FOR SMOKE DETECTOR (F.B.C.) 120V

CONDUIT TO ABOVE CEILING. PROVIDE PULL WIRE.

THE HOOD. PROVIDED BY HOOD MANUFACTURER.

SPEAKER OUTLET IN WALL STUB 3/4" CONDUIT TO

JUNCTION J-BOX FOR SIGN-MOUNT SWITCH NEAR SIGN. MAKE ALL

VENDOR. SEE ARCHITECTURAL ELEVATIONS FOR HEIGHT AND

COMBINATION DUAL DATA OUTLET AND TELEPHONE OUTLET

HEIGHT AS NOTED ON PLANS WITH 3/4 "EMPTY CONDUIT TO

TELEPHONE OUTLET, WALL TYPE, 24" AFF U.N.O ON PLANS WITH 3/4 " EMPTY CONDUIT TO ABOVE CEILING. PROVIDE PULL WIRE.

DATA OUTLET, HEIGHT AS NOTED ON PLANS WITH 3/4 "EMPTY

PROVIDE 'ON/OFF' SELECTOR SWITCH AND PILOT LIGHT IN NEMA 4 STAINLESS STEEL ENCLOSURE MOUNTED ON THE FACE OF

Omaha, NE 68106

PROTECTED - HUBBELL #IG-5362-OSP FOR POS EQUIP.

PROTECTED; MOUNTED IN CEILING. HUBBELL #IG-5362-OSP

VERIFY EXACT LOCATION AND NEMA

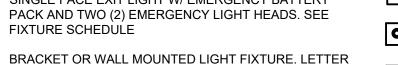


NL,EM

WP/GFI

SINGLE FACE EXIT LIGHT W/ EMERGENCY BATTERY PACK AND TWO (2) EMERGENCY LIGHT HEADS. SEE FIXTURE SCHEDULE

LED LIGHT FIXTURE WITH INTEGRAL EMERGENCY



TRANSFORMER MOUNTED ACCESSIBLE

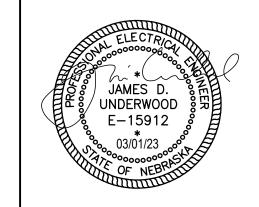


EDWARDS #590 48" MOUNTING HEIGHT ELECTRIC DOOR BUZZER: 8" BELOW CEILING

**ELECTRIC DOOR PUSHBUTTON:** 



**PHOTOCELL** 



3624 Farnam Street

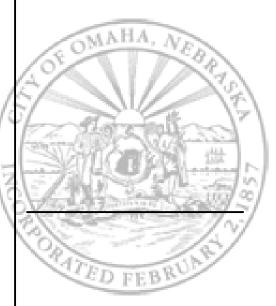
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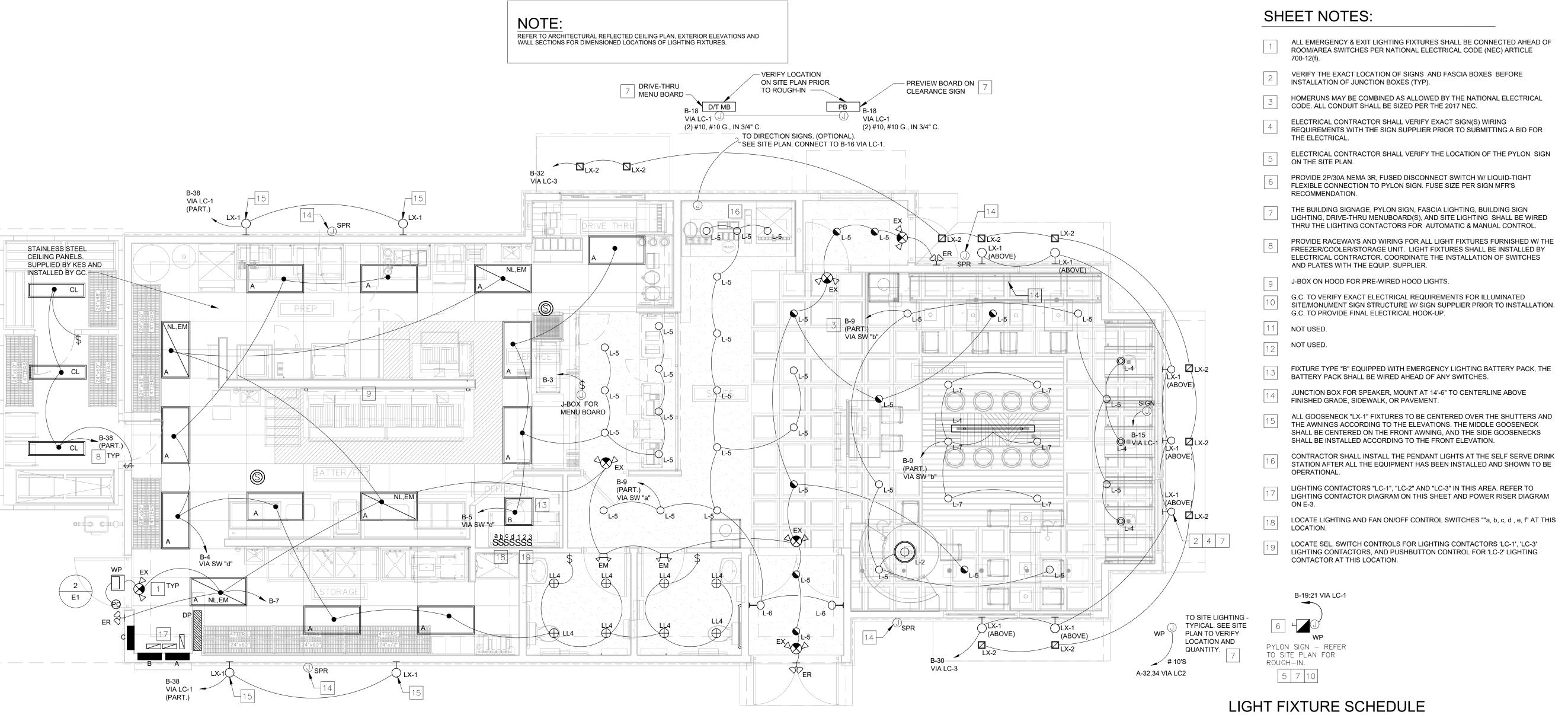


Project No. | 021-01872 Issue Date | 12-16-2022

**Specifications** 

2111 South 67th Street, Suite 200





	E1 1/4"	'=1'-0"			 LC-1			LC-2		LC-3
POPEYES	S RADIO	SYSTEM	<u>M</u>	AT 3	HTING CONTACTOR W/ 8 POLES 30 AMP EACH (TYPICAL) D#8903-LG80VO2		LIGHTING CONTA AT 30 AMP EACH SD D #8903-LG80	ACTOR W/ 8 POLES I (TYPICAL)	AT 30 AMP EAC SD D #8903-LG	NTACTOR W/ 6 POLES CH (TYPICAL) 880VO2
DESCRIPTION	MAKE	MODEL	QUANTITY		MINAL ENCL. DIMENSIONS- / x 13" H x 6" D		NOMINAL ENCL. 8" W x 13" H x 6"	DIMENSIONS-	NOMINAL ENC 8" W x 13" H x 6	L. DIMENSIONS- 5" D
RECESSED SPEAKERS* (DINING)	BOSE	MODEL #16, BLACK	4					, ,		
RECESSED SPEAKERS* (KITCHEN)	MUZAK	MBS 8-ST3, BLACK	2	SPARE			SPARE		SPARE ———	
OUTDOOR BOX SPEAKERS*	OWI	701	4				0171112			
AMPLIFIER	PASO	MU 3130 BGM	1	B-38 ———		WALL ART	SPARE	<del>                                     </del>	SPARE	
SPEAKER SUPPORT	QUAM	SSB-2	2	B-15 ———		FRONT SIGN	SPARE ———		SPARE ———	
SPEAKER BACKCAN	QUAM	ERD-8	2			THOM SIGH	OI AIL		<u> </u>	
CABLE, CONNECTORS, HARDWARE AND SHELF	VARIOUS	VARIOUS	1	SPARE			SPARE	<del>                                     </del>	B-30 ———	<del>                                     </del>
AREA VOLUME CONTROL	QUAM	QC-10	3	B-19 —		PYLON SIGN	SPARE		B-32 ———	
RECEIVER	ECOHO STAR	3000	1							
DISH	CHANNEL MASTER	1.0 ANTENNA	1	B-21 ———		PYLON SIGN	SPARE		SPARE ———	
* NUMBER OF SPEAKERS MAY VARY DU  * * LABOR INCLUDES INSTALLATION OF 1				B-18 ———		——— MENU BOARD	A-34 ———		SITE LIGHTS - AREA	
SEE THE NATIONAL ACCOUNT VENDO			RADIO.	B-16 ————		——— DIR SIGNS OPTIONAL	A-32 ———	<del> </del>	SITE LIGHTS - PEDESTRIAN	
				SET FOR DUSK		SET FO MOUN	OR DARK, T ON ROOF		PROVIDE DPDT RELAY SQUARE D #8501-KP12V20 &	

LIGHTING REFLECTED CEILING PLAN

NATIONAL ACCOUNT VENDOR LIST FOR THE CONTACT INFORMATION FOR RETAIL RADIO.	B-16 ————	0-11-0	OPTIONAL SET FOR DARK,	0-11-0	SITE LIGHTS - PEDESTRIAN
REMOTE PE CONTROL MOUNTED ON ROOF  LIGHT FIXTURE  WP	SET FOR DUSK OR RAINY/CLOUDY DAYS; MOUNT ON ROOF FACING NORTH (TYPICAL)  B-20 N PE	AUTO OFFO O	PROVIDE PUSHBUTTON SQUARE D #9001 KR1 RH13 & #9001KN202 "OFF" LEGEND	OFF R1 NC R1	PROVIDE DPDT RELAY SQUARE D #8501-KP12V20 & #8501 NR51 BASE AND ADJUSTABLE TIMER & BLOCK SET FOR 30 MIN TIME DELAY WHEN TURNED OFF.

DETAIL (PE CONTROL FOR FIXTURE "WP")

LIGHTING CONTACTOR DIAGRAM

QTY.	MARK	DESCRIPTION	MANUFACTURER	LIGHT FIXTURE	COLOR	BULB
14	А	2 x 4 LED TROFFER	HERMITAGE: SATCO	65-317 (48 W; 3500K, 5000L)	WHITE	LED INCL
1	В	2 x 2 LED TROFFER	HERMITAGE: SATCO	65-311 (37 W; 3500K, 3800L)	WHITE	LED INCL
3	CL	COOLER/FREEZER	BY OTHERS	BY COOLER MANUFACTURER		
2	EM	EMERGENCY LIGHTING UNIT	EXITRONIX	90902323	WHITE	(2) 1.1
3	ER	REMOTE EMERGENCY LIGHTING UNIT	EXITRONIX	90901052	WHITE	(1) 5
6	EX	LED EXIT EMERGENCY COMBO	EXITRONIX	90902167	WHITE	INCLUE
1	L-1	18" LED PENDANT	HERMITAGE	H-HLP2STPNSLN	CUSTOM	9.12 WA
1	L-2	18" LED PENDANT	HERMITAGE	H-PP18SHD80P	CUSTOM	100 WA
8	LL4	6" RECESSED DOWNLIGHT	HERMITAGE: SATCO	S9470 (12W; 3000K)	WHITE	14W L
3	L-4	6.75" LED PENDANT	HERMITAGE	1JT-GALTN-LED-SN	TAN	19 WA
35	L-5	6" LED DOWNLIGHT	LSI	PDL6KADJ-LED-07030-120- PDL6KADJHSGNC	WHITE	14 WA
2	L-6	LED GOOSENECK	HERMITAGE	H-HLPP82A3Y044L	CUSTOM	38 WA
6	L-7	2" LED DOWNLIGHT	HERMITAGE	2" DIAMETER DOWNLIGHT	WHITE	19 WA
11	LX-1	LED GOOSENECK	HERMITAGE	H-HLPP82A3Y044L	CUSTOM	38 WA
10	LX-2	LED CANOPY	HERMITAGE	E-CP2L04CS	CUSTOM	42 WA
1	WP	WALL PACK w/ PHOTO CELL (REAR DOOR)	CREE	SWP-100MH-DB-MT	WHITE	9 WAT

	SITE	LIGHT	ING (VERIFY COUNTS AND T	YPE WITH SITE PLA	AN)		
Y	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
Y	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

1. VERIFY WIND LOAD TO ENSURE POLE SIZE IS SUFFICIENT. OF LIGHTING (SIGNAGE/CANOPY 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:

— GOOSENECK LIGHTS

— EXT. SOFFIT LIGHTS

**CONTACTOR DIAGRAM NOTES:** 

COME ON LATER.

THE CONTROLS SHALL BE

AND PARKING LOT) IS

DETAIL THIS SHEET.

OFF O

WIRED SO THAT EACH GROUP

INDEPENDENT, AND MAY BE

MANUALLY SWITCHED OFF AT

CLOSING WITH ITS SELECTOR

SWITCH VIA TIME DELAY RELAY - SEE CONTACTOR DIAGRAM

THE LIGHTING CONTACTORS SHALL BE HELD MAGNETICALLY IN A NEMA 1 ENCLOSURE.

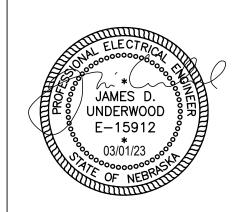
THE SIGN & CANOPY LIGHTING SHALL BE SET TO COME ON FIRST, EVEN ON RAINY/CLOUDY DAYS AND THE PARKING LOT LIGHTING SHALL BE SET TO

- SEE ARCHITECTURAL DETAILS FOR MOUNTING LOCATIONS. 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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Lighting Plan

# POWER PLAN KEY NOTES

- REFER TO FOOD SERVICE DRAWING K-SHEETS FOR TAG LOCATIONS AND MOUNTING HEIGHTS NOT SHOWN THIS SHEET.
- REFER TO HVAC SHEET M1 FOR EXACT LOCATIONS FOR MECHANICAL HVAC EQUIPMENT.
- 3P30A NEMA 3R FUSED DISC. ON WALK-IN COND. UNIT LOCATED ON ROOF OF UNIT. FUSE PER EQUIPMENT NAMEPLATE. LIQUID TIGHT FLEX CONNECTION.
- MAKE FINAL POWER CONNECTION TO WALK-IN COOLER EVAPORATOR, PROVIDE MOTOR SWITCH IN CAST BOX.
- MAKE FINAL POWER CONNECTION TO WALK-IN FREEZER FREEZER EVAP.,

DEFROSTER, HEAT TAPE & DOOR HEATER.

- 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.
- PROVIDE GFCI PROTECTED 5-20R DUPLEX RECEPT. INSTALLED IN WP BOX W/ WP COVER AT RTU. (TYP).
- 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).
- 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 HP1-F CONTROL PANEL AND HOOD FIRE SUPPRESSION SYSTEM. SEE HOOD FAN CONTROL INTERLOCK WIRING
- "ON/OFF" SELECTOR SWITCH AND PILOT LIGHT IN NEMA 4X STAINLESS STEEL ENCLOSURE MOUNTED ON THE FACE OF THE HOOD. PROVIDED BY HOOD

DIAGRAM (SHEET M2) MOUNT STARTERS AND CONTROLS ON WALL.

- 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.
- PROVIDE WALL OUTLET 108" AFF W/ ISOLATED GROUND RECEPTACLES FOR VIDEO MONITOR/PRINTER AND/OR HEADSET. VERIFY EXACT REQUIREMENTS & LOCATION.
- PROVIDE 3/4" x 18" 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.
- 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.
- PRODUCTION COUNTER ELECTRICAL POWER CIRCUITS: REFER TO SHEET E3a, AND PANEL SCHEDULE "C" FOR CIRCUIT NO'S. CONFIRM WITH EQUIPMENT SUPPLIER SHOP DRAWINGS FOR EXACT LOCATIONS AND TYPE OF CONNECTIONS FOR EQUIPMENT AND HEAT LIGHTS IN OR ON PRODUCTION COUNTER.
- BRANCH CIRCUIT(S) CONTINUED TO ADDITIONAL OUTLETS, HOMERUN SHOWN FOR CLARITY ONLY.
- CONNECTION FOR SECURITY CAMERA. VERIFY EXACT LOCATIONS AND TYPE CONNECTIONS FOR INDOOR AND OUTDOOR CAMERAS WITH G.C..
- ROUTE ALL CONDUIT ROOF PENETRATIONS THRU (WITH-IN) ROOF CURBS FOR THE EQUIPMENT. REFER TO MECH. PLANS FOR CURB DETAILS.
- 19 PROVIDE 1" CONDUIT TO 6" ABOVE CEILING FOR DATA CABLE.
- HOOD ANSUL FIRE SUPPRESSION SYSTEM.
- $\overline{21}$  MAKE FINAL CONNECTION TO EQUIPMENT.
- COORDINATE EXTERIOR CAMERA LOCATIONS WITH INSTALLED AWNINGS TO AVOID OBSTRUCTED VIEWS.
- 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.
- 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.

# HIGH OUTPUT PRODUCTION COUNTER

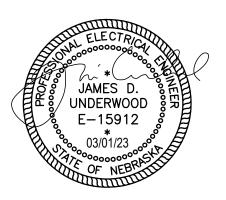
PANEL "H10.3PD": 120-208V 60HZ

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#12G, 3/4"C
2	1	HOLDING CABINET DHB-P1A (D-92)	208	1	13.87	1.44	1.44		2#12, 1#12G, 3/4"C
3	1	U/C REFRIGERATOR (J40)	120	1	4.90	0.59			2#12, 1#12G, 3/4"C
4	1	HOLDING CABINET DHB-3PT-41 (D-94)	208	1	23.7		2.46	2.46	2#10, 1#10G, 3/4"C
5	1	CERAMIC HEAT LAMP	120	1	5.1		0.61		2#12, 1#12G, 3/4"C
6	1	HOLDING CABINET DHB2PT-60P (D-93.1)	208	3	28	3.36	3.36	3.36	4#8, 1#10G, 3/4"C
				TOTAL	(KVA)	6.83	7.87	7.26	

MINIMUM CIRCUIT AMPACITY: 76.2 MAXIMUM OVER CIRCUIT PROTECTION: 100

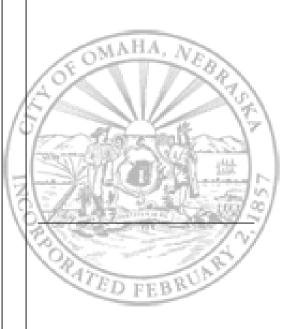


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# POPEYES NEW CONSTRUCTION 3430 NORTH 167TH STREET



POPEYES

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

Power Plan

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Project #020-01872

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E2

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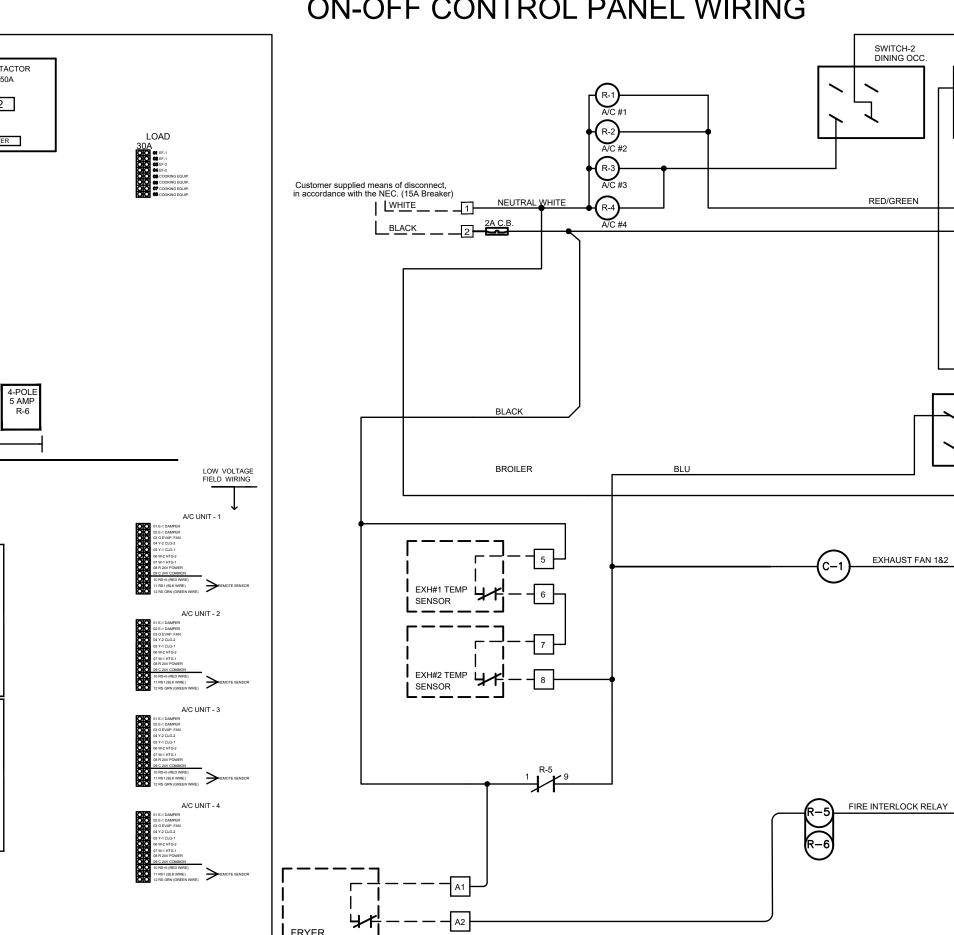
AIR COND. UNIT 1

AIR COND. UNIT 2

AIR COND. UNIT 3

AIR COND. UNIT 4

# ON-OFF CONTROL PANEL WIRING



# "MORNING ARRIVAL"

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.

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

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.

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.

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

"RESTAURANT OPEN FOR BUSINESS"

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.

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

TURN THE EXHAUST FAN SWITCH TO THE OFF POSITION.

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

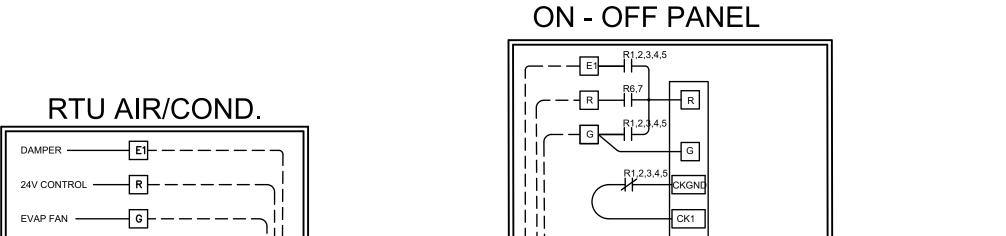
PANEL LAYOUT

CONTACTOR PANEL--18"wX30"hX6"d

UNIT - 2

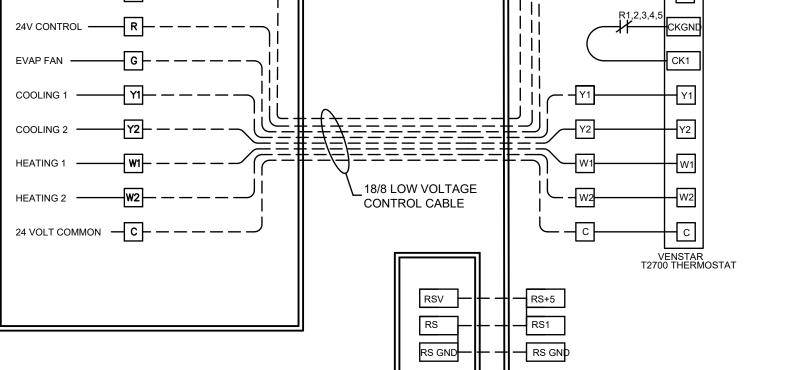
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ANSUL FIRE INTERLOCK N.C. CONTACTS LOCATED AT HOOD

PANEL SCHEMATIC DIAGRAMS



REMOTE SENSOR

RTU T-STAT

MICRO SWITCH

LOW VOLTAGE CONTROL WIRING
ONE AIR CONDITIONING SYSTEM SHOWN

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

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

2. RUN ONE (3) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM THE CONTROL PANEL TO EACH REMOTE

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

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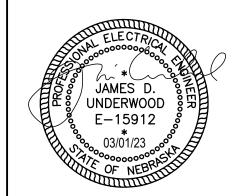
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NCA Control

E2A



EXHAUST FAN-1

EXHAUST FAN-2

NOTE: T-STAT WIRING SHALL BE 18 AWG. 24V, 8 CONDUCTOR

CONTACTOR

MOTOR STARTER

**ENCLOSURE** 

ANSUL SYSTEM

CONTROL

ESTIMATED DEMAND LOADS: 141.6 KVA

TOTAL PHASE B: 424.1 AMPS 50.9 KVA TOTAL PHASE C: 414.8 AMPS 49.8 KVA

PANEL NO. B		TYPE	LIGHTII	NG & APF	PLIANCE						
SERVICE VOLTAGE 120/208Y-3Ø/	 4W	PHASE	BUS RA	ATING	225A		_	MO	UNTING	Flush	
MAIN BREAKER SIZE 225A	_	NEUTR	AL BUS	RATING	225A	- 5	SHORT C				_
	_			,		_					_
	C/B	V	OLT AM	PS	CKT.	CKT.	V	OLT AMF	PS	C/B	
DESCRIPTION	AMP	Α	В	С	NO.	NO.	Α	В	С	AMP	DESCRIPTION
ROOF RECEPTACLES	20/1	720		_	1	2				20/1	SPARE
MENU BOARD (Q11)	20/1		1300		3	4		448		20/1	KITCHEN AND BATH LIGHTS
KITCHEN AND SALES LIGHTS	20/1			279	5	6			360	20/1	TELE. TERMINAL BOARD
EM & NL, EM LIGHTS	20/1	377			7	8	360			20/1	RECEPTACLES OFFICE
DINING LIGHTS	20/1		623		9	10		720		20/1	MUSIC / SOUND
TEA BREWER (K71)	20/1			1680	11	12			720	20/1	COMPUTER EQUIPMENT
SODA DISPENSER (K31)	20/1	180			13	14	1800	·		20/1	DRIVE THRU WINDOW
FRONT SIGN	20/1		100		15	16				20/1	SPARE (OPTIONAL DIRECTIONAL SO
VIDEO MONITORS	20/1			720	17	18			2280	20/1	DRIVE THRU BOARD (Q24)
PYLON SIGN	20/2	1200			19	20	200	·		20/1	LIGHTING CONTROL
			1200		21	22		1200		20/1	DRIVE THRU AUDIO
SPARE (FUTURE FLY FAN)	20/1				23	24			360	20/1	STOREFRONT RECEPTACLES (P20,P
SECURITY SYSTEM	20/1	540	]		25	26				20/1	SPARE
POS SYSTEM (FRONT CNTR)	20/1		1440		27	28				20/1	SPARE
CASH REGISTER (P20)	20/1			540	29	30			266	20/1	GOOSENECK LIGHTS
SAFE (M30)	20/1	600	]		31	32	420	,		20/1	EXT SOFFIT LIGHTS
SODA DISPENSER (K32)	20/1		1680		33	34				20/1	SPARE
FRONT COUNTER WALL	20/1			360	35	36			740	20/1	DIGITAL PRE-SELL M/B
SPARE	20/1		]		37	38	242			20/1	EXTERIOR AND COOLER LIGHTS
SPARE	20/1				39	40		1200		20/2	MONUMENT SIGN
SPARE	20/1				41	42	]		1200		
TOTAL PHASE A: 57.2 AMPS 6.	9 KVA		TC	OTAL CO	NECTE	D LOADS:	26.1	KVA			
TOTAL PHASE B: 82.2 AMPS 9.	9 KVA										
TOTAL PHASE C: 77.9 AMPS 9.	4 KVA		EST	TIMATED	DEMAN	LOADS:	26.7	KVA			

REMOTE ROOF MOUNTED PHOTO-ELEC-CONTROL SWITCH (TYP.) FOR (2) SEE WIRING DIAGRAM SHEET E1.—

PANEL

4 - #4/0, THWN, CU

# 4 CU GND IN 2 1/2" CONDUIT -

STEEL REBARS

IN FOUNDATION — METAL WATER PIPE WHERE AVAILABLE -

PANEL

600A M.C.B

I-LINE S.E.R.

TO EXTERIOR SIGN CIRCUITS MAX. AVAILABLE FAULT \_

CURRENT: 32K A.I.C.

POWER CO. METER, SEE SITE PLAN

(2) RUNS EACH: 4 - #500

- RUN #2/0 CONDUCTOR TO 5/8 " DIA. x 10'-0" LENGTH GROUNDING ROD. GROUNDING TO CONFORM TO SECTION 250-50 (N.E.C.)

/ NOT TO SCALE

KCMIL IN (2) 3 1/2" CONDUITS. -

POWER CO. XFMR, SEE SITE PLAN

ELECTRICAL ONE-LINE DIAGRAM

PROVIDE (2) EMPTY 4"

CONDUITS TO POWER CO. POLE/SWITCH, SEE SITE PLAN  $-\!\!\!/$ 

LTG. CIRCUITS TO EXTERIOR PARKING LOT (\_ LTG. CIRCUITS

4 - #4/0, THWN, CU # 4 CU GND IN 2 1/2" CONDUIT ———

H-O-A SELECTOR

SWITCHES - CONTROLS
FOR LTG CONTACTORS
LOCATED AT SW STATION

NEAR OFFICE AREA.

SERVICE VOLTAGE 120/208Y-3Ø/ MAIN BREAKER SIZE 225A				TING RATING	225A	S	HORT CI		JNTING RATING		<del>-</del> -
	C/B	V	OLT AMF	PS	CKT.	CKT.	VC	OLT AME	PS	C/B	
DESCRIPTION	AMP	Α	В	С	NO.	NO.	Α	В	С	AMP	DESCRIPTION
FRYER HOOD (EF-1)	20/1	870			1	2	520			20/1	FAN EF-1
FRYER HOOD (EF-2)	20/1		870		3	4		300		20/1	HOOD CONTROLS
MONITOR (A31)	20/1			600	5	6			900	20/1	KITCHEN RECEPTACLES
CARBONATOR (K42)	20/1	860		0	7	8	100			20/1	OFFICE CABINET FAN
TOASTER (C21)	20/1		1800		9	10		100		20/1	SERVICE DOORBELL
REFRIGERATOR (C10.27)	20/1			780	11	12			620	20/1	IRRIGATION CONTROLS
BATTER STATION (A47.3)	20/1	276		ē	13	14	600			20/1	ANSUL SYSTEM
FREEZER (A54)	20/1		1080		15	16		1440		20/1	REFRIGERATOR (B60)
FREEZER EVAPORATOR	20/3			530	17	18			900	20/1	RECEPTACLES - DINING
		530		6	19	20	720			20/1	RECEPTACLES - DINING
			530		21	22		1080		20/1	SECURITY CAMERAS
HOLDING CABINET (D90)	25/1		5	2112	23	24			100	20/1	WATER HEATER CONTROLS
SPARE	20/1				25	26	360			20/1	SECURITY CAMERAS
BISCUIT HOLDING (B65)	20/1		540		27	28				20/1	SPARE
SPARE	20/1		3		29	30			1000	20/1	HEAT TRACE
PACKING STATION (D30)	20/2	624			31	32	468			20/2	SITE LIGHTS - AREA, PEDESTRIAN
			624		33	34		96			
FRYER HOOD EF-3	20/1		8	1440	35	36				30/2	SPARE
SPARE	20/1				37	38					
MICROWAVE (D20)	20/2		1487		39	40				30/2	SPARE
				1487	41	42					
TOTAL PHASE A: 43.7 AMPS 5	. <u>2</u> KVA		TC	OTAL CO	NECTE	LOADS:	25.5	KVA			

PANEL NO.		YPE LIGHTING & APPLIANCE										
SERVICE VOLTAGE 120/208Y-3Ø/4W			PHASE BUS RATING 225A				MOUNTING Flush				-	
MAIN BREAKER SIZE 225 A			NEUTRAL BUS RATING 225A				. 3	SHORT CIRCUIT RATING 65kAIC				-
DESCRIPTION		C/B	VOLT AMPS		PS	CKT.	CKT.	VOLT AMPS		PS	C/B	
		AMP	Α	В	С	NO.	NO.	Α	В	С	AMP	DESCRIPTION
SPARE		20/2				1	2	1950		,	25/2	HEAT AND HOLD (F15.1)
						3	4		1950			
SPARE		20/2				5	6				20/1	SPARE
						7	8				20/1	SPARE
SPARE		20/1				9	10				20/1	SPARE
SPARE		20/1				11	12			1200	20/1	GREASE COLLECTION SYSTEM
SPARE		20/1				13	14	300		,	20/1	HOOD CONTROLS
SPARE		20/1				15	16		1200		20/1	HEAT TRACE
SPARE		20/1				17	18				20/1	SPARE
SPACE ONLY			850			19	20				20/1	SPARE
MICROWAVE (D20)		20/2		850		21	22		1240		20/2	ICE MACHINCE (K10)
					850	23	24			1240		
FRYER (A10.U3)		20/1	1000			25	26	1240			20/2	ICE MACHINCE (K10)
FRYER (A10.U3)		20/1		1000		27	28		1240			
FRYER (A24U.2)		20/1			1440	29	30			2250	30/2	HOT WATER DISP. (D70)
SPACE ONLY						31	32	2250				
SPACE ONLY						33	34		2250		30/2	HOT WATER DISP. (D70)
SPARE		30/2				35	36			2250		
						37	38	360			20/1	RESTROOM RECEPTACLES
SPARE		20/2				39	40		1500		20/1	HAND DRYER
			1			41	42			1500	20/1	HAND DRYER
TOTAL PHASE A: 44.1 AMPS 5.3 KVA TOTAL CONNECTED LOADS: 30.0 KVA												
TOTAL PHASE B: 68.	7_AMPS 8.2	2 KVA										
TOTAL PHASE C: 62.	5 AMPS 7.5	5 KVA		EST	TIMATED	DEMAND	LOADS:	21.1	<b>KVA</b>			



- 1. PROVIDE A "TYPE" WRITTEN DIRECTORY OF ALL CIRCUITS IN EACH PANEL.
- 2. ALL EQUIPMENT MOUNTED UNDER THE EXHAUST HOOD SHALL BE CIRCUITED USING SHUNT-TRIP BREAKERS TIED TO THE FIRE SUPPRESSION SYSTEM. UPON ACTIVATION OF THE FIRE SUPPRESSION SYSTEM, THE EQUIPMENT UNDER THE HOOD SHALL BE DEACTIVATED UNLESS OPTIONAL NCA PANEL IS PROVIDED.
- 3. PROVIDE HACR TYPE CIRCUIT BREAKERS FOR MECHANICAL ROOFTOP UNITS (RTU-X), AND FOR THE WALK-IN COOLER AND FREEZER COMPRESSORS.
- 4. P.O.S. SYSTEM, COMPUTER, PRINTERS, MONITORS, CREDIT CARD MACHINES, AND MODEM SHALL BE ON AN ISOLATED GROUND CIRCUIT.
- 5. PROVIDE #12, #12 N., #12G. IN 3/4C. FOR ALL CIRCUITS UNLESS NOTED OTHERWISE ON PLAN.
- 6. ALL 120V THROUGH 250V RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES BY 3-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS, INSTALLED IN THE FOLLOWING LOCATIONS SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR
- PERSONNEL. a. BATHROOMS OR RESTROOMS b. KITCHENS
- c. ROOFTOPS d. OUTDOORS
- e. RECEPTACLES WITHIN 6' OF A SINK
- f. INDOOR DAMP AND WET LOCATIONS g. OTHER LOCATIONS AS REQUIRED BY 2020 NEC 210.8 (B)
- JAMES D. UNDERWOOD E-15912

3624 Farnam Street

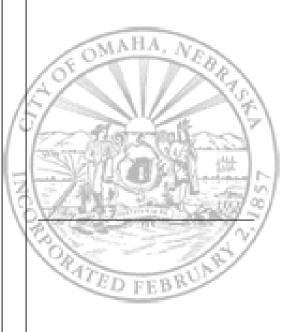
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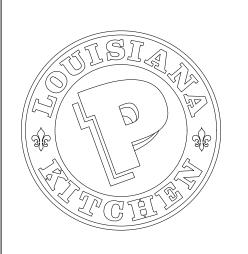
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Project No. | 021-01872 Issue Date | 12-16-2022

> Panel Schedules

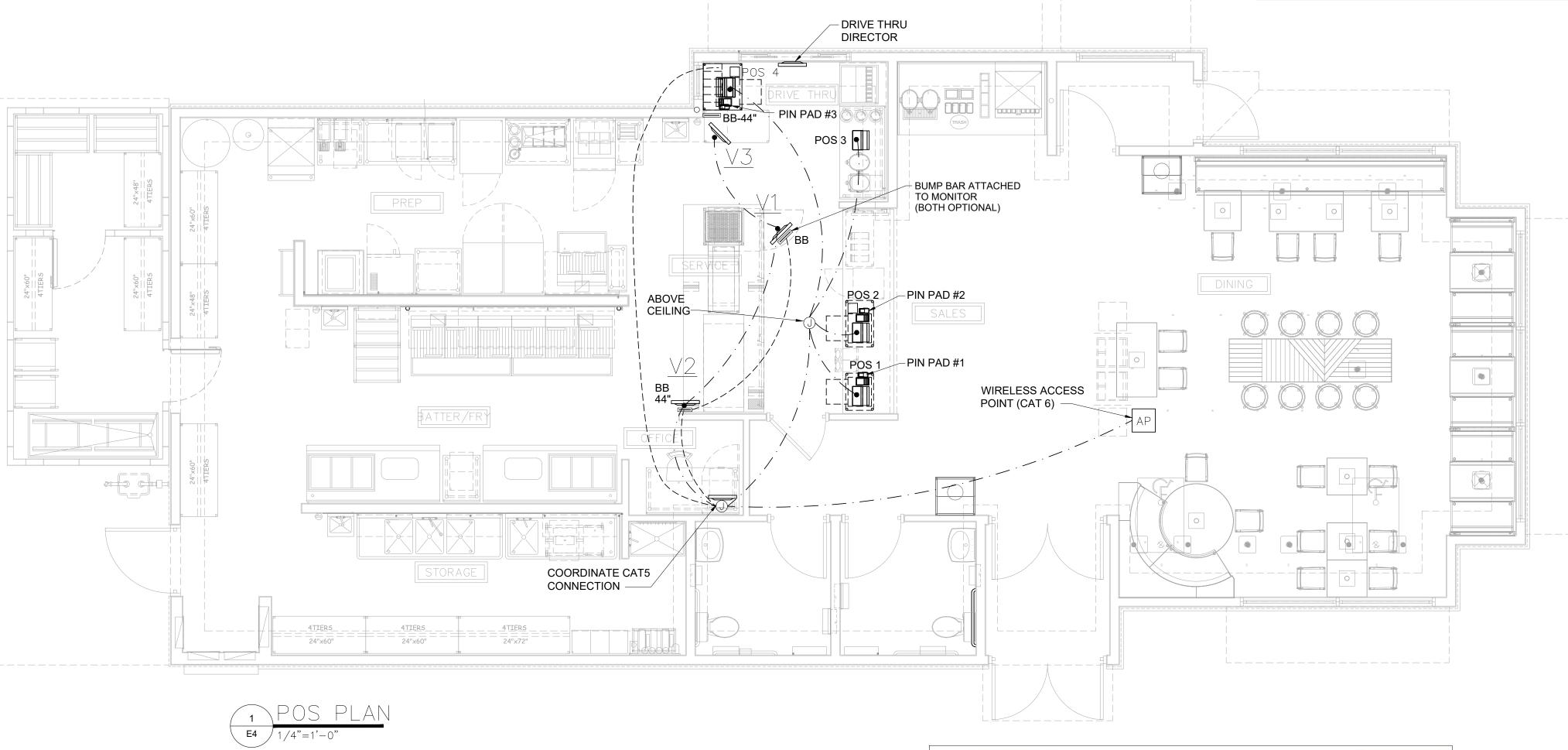
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Sheet No. **E**3

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

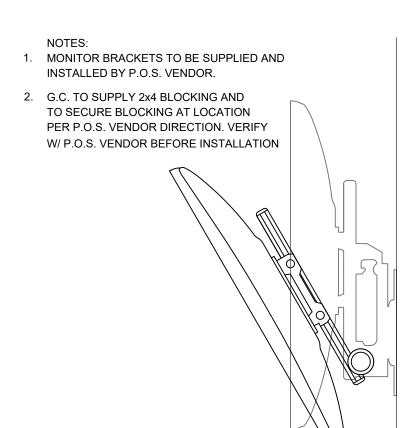
V1 = VIDEO 1
V2 = VIDEO 2
V3 = VIDEO 3
DRIVE THRU DIRECTOR

POS PIN PAD

POS- POINT OF SALE
TERMINAL

# REGISTER CONNECTIONS

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



2 LCD INSTALLATION

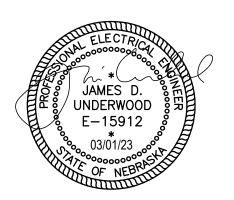


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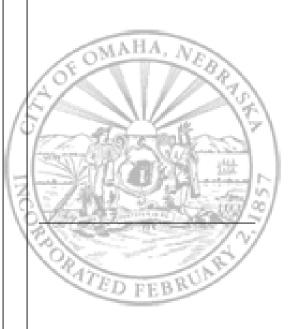


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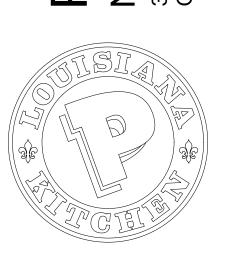


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# OPEYES EW CONSTRUCTION 30 NORTH 167TH STREET



POPEYES

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

POS Plan

Sheet No.

E4

SECURITY CO. TO RUN FLEX CONDUIT INSIDE LIGHT POLES- EC TO RUN CONDUIT FROM RESTAURANT TO BASE OF LIGHT POLE & MOUNT JUNCTION BOX 15' ABOVE FINISHED PAVEMENT ON POLE.

OUTDOOR CAMERAS

A-1 : DRIVE THRU WINDOW AND CAR STACK A-2: SECONDARY, SINGLE ENTRY DOOR A-3: MAIN DOUBLE ENTRY DOOR A-4: REAR ENTRY DOOR A-5 : ORDER CONFIRMATION BOARD AT DRIVE THRU

INDOOR CAMERAS

INDOOR CEILING MOUNT IN TINTED DOME.

FASTEN SCREW IN CEILING FOR DOMES SO NOT EASILY DROPPED OUT OF TILE.

B-1 : DINING ROOM AREA, H-COUNTER B-2 : DINING ROOM AREA, H-COUNTER

B-3: FRONT SALES COUNTER FROM DINING ROOM B-4 : CONDIMENT AREA, H-COUNTER

B-5: FRONT SALES COUNTER FROM PRODUCTION COUNTER

B-6: DRIVE THRU B-7: PREPARATION AREA TOWARDS REAR OF BUILDING

B-8 : OFFICE B-9 : BATTER / FRY AREA TOWARDS REAR OF BUILDING

B-10: REAR DOOR FROM STORAGE AREA B-11 : STORAGE AREA FROM REAR DOOR

B-12: WALK-IN COOLER (OPTIONAL) B-13: WALK-IN FREEZER (OPTIONAL)

OFFICE AREA

BAC- BURGLAR ALARM CONTROL-VISTA 20SEUL

D-VCR: E-VCR: F-MONITOR:

QUICK REFERENCE SHEETS

ALARM INSTRUCTION SHEET TO BE MOUNTED ON WALL IN EMPLOYEE ONLY AREA CLOSEST TO KEYPAD OR IN OFFICE AREA PER CUSTOMER INSTRUCTION.

FOR LOCATIONS WITH 6 OR MORE CAMERAS: ADD MULTIPLEXER. LTC 2641/60-PLACE ON SECURITY LOCK FOR NO TAMPER

FOR LOCATIONS WITH 4 CAMERAS OR LESS: ADD VIDQUAD 4 CHANNEL LTC 2272/60

HUB: HOLD UP BUTTON 441494 SERIES LATCHING HUB.

MANAGER AREA-36" AFF OUT OF SITE FROM FRONT COUNTER.

DRIVE-THRU WINDOW-18" AFF & OUT OF SITE FROM OUTSIDE. FRYER/PREP AREA

SL: STROBE LIGHT - AS SL-401B-BLUE STROBE MOUNT BEHIND MENU BOARD, IT WILL FLASH CONTINUOUSLY WHILE BACK DOOR IS OPEN.

S: SOUNDER-AS-PAL328N-LOW TONE SOUNDER MOUNT WITH STROBE BEHIND MENU BOARD, IT WILL SOUND WHEN BACK DOOR IS OPENED, MANAGER WILL SILENCE ST SOUNDER AT KEYPAD AFTER 1 TONE.

MD: MOTION DETECTOR-AP 669 PIR-360 MOTION MOUNT IN STOVE AREA TO GET AREA FROM DRIVE-UP WINDOW AND GENERAL REAR AREA.

B-12(opt)

IEI

 $A-4\nabla$ 

LOBBY/PERIMETER AREA/BACK OF HOUSE

KP: KEY PAD-MOUNT 40" AFF GB: FG 1025 GLASS BREAK-LOBBY GLASS ONE EACH SIDE OF BUILDING SEE DRAWING

C: B4039 CONTACT-ALL EXTERIOR DOORS

BACK DOOR CONTACT TO ACT AS ALARM POINT FOR BACK DOOR ALARM-24 HOUR LOCATION POINT-SOUNDER & BLUE STROBE TO ACTIVATE WHEN BACK DOOR IS OPEN

HUB: 3050CT SERIES LATCHING HUB IN COOLER/FREEZER-MOUNT 18" AFF ON HINGE SIDE OF DOOR, STUB UP CONDUIT TO PROTECT WIRING FROM CONDENSATION/DAMAGE NO DRIP LOOP AT HUB

POC: POINT OF CONNECTION TO NKL SAFE-PIGTAIL PROVIDED BY NKL SAFE

POPEYES ADD ON MODIFICATION NAMES AND PHONE NUMBERS

1. INSTALLER PLEASE CONTACT YOUR SECURITY AND ALARM SYSTEM VENDOR FOR ANY ADD-ONS OR MODIFICATIONS TO YOUR JOB. THEY WILL CONTACT THE NATIONAL ACCOUNT MANAGER FOR APPROVALS/PAPERWORK. 2. CONTACT THE NATIONAL ACCOUNT MANAGER.

BATTER/FRY

STORAGE

SECURITY PLAN

POPEYES PROBLEM RESOLUTION NAMES & PHONE NUMBERS

NCCC PROJECT COORDINATOR: PHONE NUMBER:

NATIONAL ACCOUNT MANAGER:

NEW INSTALLS/NEW CONSTRUCTION MANAGER EXISTING SITES/RENOVATION PROJECTS/FACILITIES MANAGER LOSS PREVENTION DIRECTOR:

POPEYES INSTALLATION ACCEPTANCE FORM/CHECKLIST

FOR INSTALL SITE MODIFICATIONS IE/DEVICE PLACEMENT CHANGES FROM BLUEPRINT, HAVE CUSTOMER INITIAL MODIFY PER SITE OPTION TO SHOW APPROVAL

CAMERAS

A-CAMERA: FOR LOCATIONS WITH OUTDOOR CAMERAS

OUTDOOR POLE MOUNT 15' ABOVE FINISHED PAVEMENT YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_ GROUND ISOLATION TRANSFORMERS YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_

ADT TO RUN CONDUIT INSIDE LIGHT POLES-EC TO RUN CONDUIT FROM RESTAURANT TO BASE OF LIGHT POLE & MOUNT JUNCTION BOX 15' ABOVE FINISHED PAVEMENT ON POLE

MODIFY PER SITE\_\_\_\_\_ YES\_\_\_\_\_ N/A\_\_\_\_ A-1; DRIVE THRU WINDOW AND CAR STACK YES\_\_\_\_\_ N/A\_\_\_\_

MODIFY PER SITE\_\_\_\_\_ A-2: SECONDARY, SINGLE ENTRY DOOR YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_ A-3: MAIN DOUBLE ENTRY DOOR

YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_ A-4: REAR ENTRY DOOR MODIFY PER SITE\_\_\_\_\_ YES\_\_\_\_\_ N/A\_\_\_\_

A-5: ORDER CONFIRMATION BOARD AT DRIVE THRU YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_ B-CAMERA: FOR LOCATIONS WITH INDOOR CAMERAS INDOOR CEILING MOUNT IN TINTED DOME

YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_ FASTEN SCREW IN CEILING FOR DOMES SO NOT EASILY DROPPED OUT OF TILE

YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_ B-1: DINING ROOM AREA, H-COUNTER MODIFY PER SITE\_\_\_\_ \_\_\_\_\_ N/A\_\_\_\_ B-2: DINING ROOM AREA, H-COUNTER

YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_ B-3: FRONT SALES COUNTER FROM DINING ROOM

YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_ B-4: CONDIMENT COUNTER, H-COUNTER AREA

YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_ B-5: FRONT SALES COUNTER FROM PRODUCTION COUNTER

YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_ B-6: DRIVE THRU YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_

YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_

SALES

B-7: PREPARATION AREA TOWARDS REAR OF BUILDING YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_ B-8: OFFICE

B-9: BATTER FRY AREA TOWARDS REAR OF BUILDING

MODIFY PER SITE\_\_\_\_\_ YES\_\_\_\_\_ N/A\_\_\_\_ B-10: REAR DOOR FROM STORAGE AREA MODIFY PER SITE\_\_\_\_\_ YES\_\_\_\_\_ N/A\_\_\_\_ B-11: STORAGE AREA FROM REAR DOOR YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_ B-12 & B-13: COOLER FREEZER BOXES

YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_

OFFICE AREA

D-VCR LOCK BOX: TC3922 SERIES YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_ E-VCR: LTC 3924 SERIES PLACE ON SECURITY LOCK FOR NO TAMPER

YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_ QUICK REFERENCE SHEETS

ALARM INSTRUCTION SHEET TO BE MOUNTED ON WALL IN EMPLOYEE ONLY AREA CLOSEST TO KEYPAD OR IN OFFICE AREA PER CUSTOMER INSTRUCTION

YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_ VCR INSTRUCTION SHEET( 2) 1-REVIEW & 1-RECORD-TO BE MOUNTED ON WALL CLOSEST TO VCR YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_ FOR LOCATIONS WITH 6 OR MORE CAMERAS: ADD MULTIPLEXER

LTC 2641/60-PLACE ON SECURITY LOCK FOR NO TAMPER YES\_\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_

FOR LOCATIONS WITH 4 CAMERAS OR LESS: ADD VIDQUAD 4 CHANNEL LTC 2272/60

HUB: HOLD UP BUTTON 441494 SERIES LATCHING HUB MANAGER AREA-36" AFF OUT OF SITE FROM FRONT COUNTER

MODIFY PER SITE\_\_\_\_\_ \_\_\_\_\_ N/A\_\_\_\_

DRIVE-THRU WINDOW-18" AFF & OUT OF SITE FROM OUTSIDE YES\_\_\_\_\_\_ N/A\_\_\_\_\_ MODIFY PER SITE\_\_\_\_\_

DOOR CONTACT

HORN/SOUNDER

CONTROL PANEL

MOTION DETECTOR

(CEILING MOUNT)

GLASS BREAK HOLD UP BUTTON

**KEY PAD** 

DEVICE

(Additional button for 2nd drive-thru window design)

DINING

YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_

LOBBY/PERIMETER AREA/BACK OF HOUSE

KP: KEYPAD-MOUNT 40" AFF WALL ENTERING KITCHEN AREA FROM LOBBY

YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_ GB: FG 1025 GLASS BREAK- LOBBY GLASS ONE EACH SIDE OF BUILDING SEE DRAWING FOR

YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_ C: B4039 CONTACT-ALL EXTERIOR DOORS YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_

BACK DOOR CONTACT TO ACT AS ALARM POINT FOR BACK DOOR ALARM-24 HOUR LOCATION POINT-SOUNDER & BLUE STROBE TO ACTIVATE WHEN BACK DOOR IS OPEN

YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_ YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_ POC: POINT OF CONNECTION TO NKL SAFE-PIGTAIL PROVIDED BY NKL SAFE

YES\_\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_ FRYER/PREP AREA

SYMBOL LEGEND

QTY.

2

Dome

14" Monitor

IEI KEYPAD

STROBE LIGHT

PIEZO

GB 💿

0

DIGITAL VIDEO RECORDER

EXTERIOR DOME CAMERA

SYMBOL

SL: STROBE LIGHT-AS SL-401B-BLUE STROBE MOUNT BEHIND MENU BOARD, IT WILL FLASH CONTINUOUSLY WHILE BACK DOOR IS OPEN

YES\_\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_ S: SOUNDER-AS-PAL328N-LOW TONE SOUNDER MOUNT WITH STROBE BEHIND MENU BOARD,

YES\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_

DRIVE-UP WINDOW AND GENERAL REAR AREA

IT WILL SOUND WHEN BACK DOOR IS OPENED, MANAGER WILL TONE SILENCE SOUNDER AT

MD: MOTION DETECTOR-AP 669 PIR - 360 MOTION MOUNT IN STOVE AREA TO GET ARE FROM

YES\_\_\_\_\_\_ N/A\_\_\_\_ MODIFY PER SITE\_\_\_\_\_

DEVICE

(Additional camera for dual drive-thru order design)

SYMBOL

DVR

 $\square$ 

**HOLD-UP BUTTON** 

M-11 S/S MANAGER'S

QTY.

POPEYES MATERIAL LIST

5 OR 6 LOCATIONS ( LOCATIONS W/OUTDOOR CAMERAS ) 5 UR 5 LOCATIONS (LOCATIONS WIGHT DUON CAMBERS)
2 OR 3 GIT100-GROUND ISOLATION TRANSFORMERS
LTC 0430/20-38 SERIES CAMERA W/ 3.5-8MM VARIFOCAL AUTOIRIS LENS TC 9340A SERIES OUTDOOR HOUSING

TO9211PM POLE MOUNT ADAPTER
BNC CONNECTORS FOR PLENUM CABLE
FLEX CONDUIT FOR OUTDOOR CAMERAS RUN INSIDE POLE FOR CABLING INDOOR CEILING MOUNT IN TINTED DOME NOTE: FASTEN SCREW IN CEILING FOR DOMES SO NOT EASILY DROPPED OUT OF TILE LTC 0430/20-38 SERIES CAMERA W/ 3.5MM-8MM VARIFOCAL AUTOIRIS LENS

OFFICE AREA

BAC-BURGLAR ALARM CONTROL: VISTA 20SEUL D-VCR LOCK BOX: TC3922 SERIES
E-VCR: LTC 3924 SERIES PLACE ON SECURITY LOCK FOR NO TAMPER
F-MONITOR: LTC 2813/60 SERIES ALTV248: 8 POSITION POWER SUPPLY QUICK REFERENCE SHEETS
ALARM INSTRUCTION SHEET TO BE MOUNTED ON WALL IN EMPLOYEE ONLY AREA CLOSEST TO KEYPAD OR IN OFFICE AREA PER CUSTOMER INSTRUCTION VCR INSTRUCTION SHEETS (2) 1-REVIEW & 1-RECORD-TO BE MOUNTED ON WALL CLOSEST TO VCR

FOR LOCATIONS WITH 6 OR MORE CAMERAS : ADD MULTIPLEXER LTC 2641/60-PLACE ON SECURITY LOCK

FOR LOCATIONS WITH 4 CAMERAS OR LESS : ADD VIDQUAD 4 CHANNEL LTC 2272/60 2-HUB: HOLD UP BUTTON 441494 SERIES LATCHING HUB

STOVE/PREP AREA

SL: STROBE LIGHT-AS SL-401B-BLUE STROBE MOUNT BEHIND MENU BOARD, IT WILL FLASH CONTINUOUSLY WHILE BACK DOOR IS OPEN S: SOUNDER-AS-PAL328N-LOW TONE SOUNDER MOUNT WITH STROBE BEHIND MENU BOARD, IT WILL SOUND WHEN BACK DOOR IS OPENED, MANAGER WILL SILENCE ST SOUNDER AT KEYPAD AFTER 1ST TONE

MD; MOTION DETECTOR-AP 669 PIR-360 MOTION MOUNT IN STOVE AREA TO GET AREA FROM DRIVE-UP LOBBY/PERIMETER AREA/BACK OF HOUSE

KP: KEYPAD-MOUNT 40" AFF WALL ENTERING KITCHEN AREA FROM LOBBY 2-GB; FG 1025 GLASS BREAK-LOBBY GLASS ONE EACH SIDE OF BUILDING SEE DRAWING FOR DEVICE

3 OR 4-C: B4039 CONTACT-ALL EXTERIOR DOORS BACK DOOR CONTACT TO ACT AS ALARM POINT FOR BACK DOOR ALARM-24 HOUR LOCAL POINT-SOUNDER & BLUE STROBE TO ACTIVATE WHEN BACK DOOR IS OPEN 1 OR 2-HUB: 3050CT SERIES LATCHING HUB IN COOLER/FREEZER-MOUNT 18" AFF ON HINGE SIDE OF DOOR

1-POC: POINT OF CONNECTION TO NKL SAFE-PIGTAIL PROVIDED BY NKL SAFE RELAYS FOR BACK DOOR/POC/ZONE EXPANSION WATTS LINE

2'-6"

**VERIFY LOW VOLTAGE** 

PERMIT REQUIREMENTS

**ELECTRICAL REQUIREMENTS** 

SUPPLY 120 VAC FOR ALL CCTV HEAD END EQUIPMENT.

SUPPLY 120 VAC FOR BURGLAR ALARM PANEL.

LOCATIONS OF DEVICES.

ELECTRICAL SUPPLY ALL 120 VAC FOR CAMERA SYSTEM AND BURGLAR

FOR OUTDOOR CAMERAS ALL TRENCHING, CONDUIT AND PULL STRINGS

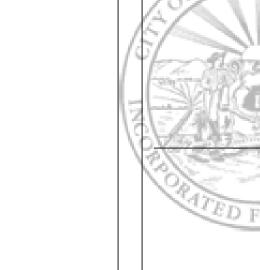
SECURITY CO. SUPPLY AND INSTALL ALL SECURITY EQUIPMENT RUN ALL LOW VOLTAGE CABLE FOR THE SECURITY SYSTEM. SET UP, TEST AND

2111 South 67th Street, Suite 200 Omaha, NE 68106

AS A BACK BOX MOUNTED ON THE POLE FOR ELECTRICAL AND COAX

TRAIN ON CCTV AND BURGLAR ALARM SYSTEMS. SPECIFY ALL

FRONT COUNTER PANIC





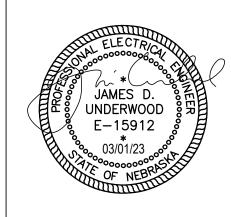
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Security Plan

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E5

\_\_\_ W \_\_\_ W \_\_\_ W \_\_\_ W \_\_\_

A-32,34

PROPOSED BUILDING

±7,960 S.F.

PARKING LOT LIGHTING CALCULATION STATISTICS

1. CALCULATIONS DO NOT INCLUDE CONTRIBUTIONS FROM STREET LIGHT FIXTURES. ACTUAL FOOTCANDLE LEVELS MAY VARY DEPENDING ON LOCATIONS AND QUANTITIES OF FIXTURES

AVERAGE FOOTCANDLES MAXIMUM FOOTCANDLES

MINIMUM FOOTCANDLES

OUTSIDE OF PROPERTY LINE.

MAX-TO-MIN RATIO

**GENERAL NOTES:** 

DRIVE THROUGH | PARKING LOT | PERIPHERY

0.5

14.20

3.94

15.3

153

9 1.7 2.0 2.6 2.7 1.4

ELECTRICAL SITE PLAN

(3) #10, #10 G. IN 3/4" C.

# GENERAL SHEET NOTES:

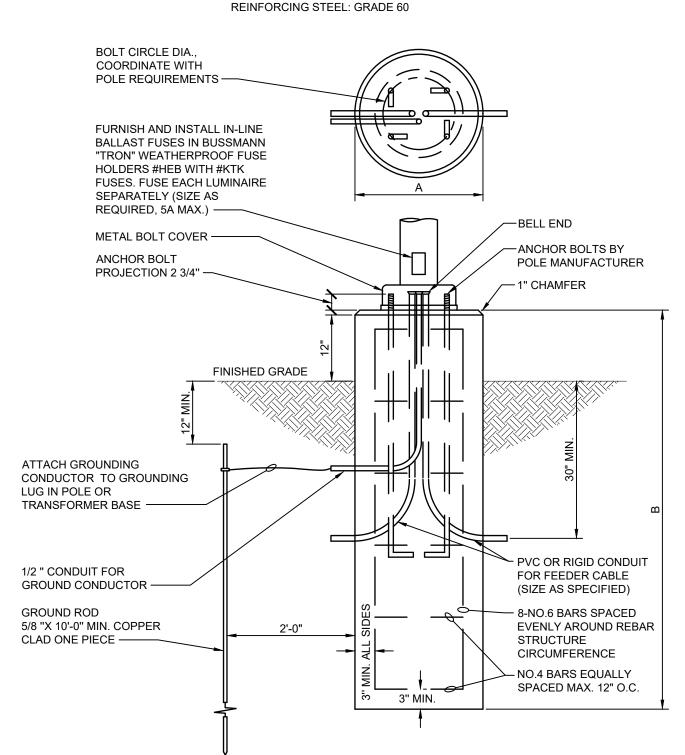
- A. INSTALL UNDERGROUND CONDUITS 24" DEEP (MIN.) UNLESS NOTED OTHERWISE.
- B. USE #10 AWG FROM POLE BASE TO LUMINAIRE. MINIMUM SIZE FOR SITE BRANCH CIRCUIT CONDUITS AND WIRE SHALL BE 1" AND
- C. ALL WORK SHALL BE IN ACCORDANCE WITH THE NEC. CONTRACTOR IS RESPONSIBLE FOR ALL FEES, LICENSES AND PERMITS.
- 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

# SHEET KEY NOTES:

- PROPOSED POWER CO. TRANSFORMER LOCATION. PROVIDE CONCRETE PAD. SEE OPPD METER SPECIFICATION MANUAL FIGURE 8.08.4 "3Ø PADMOUNT TRANSFORMER SLAB DETAIL" FOR ADDITIONAL INFORMATION.
- POWER CO. METER. SEE OPPD METER SPECIFICATION MANUAL FOR INSTALLATION REQUIREMENTS.
- UNDERGROUND POWER CO. PRIMARY. SEE ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION. ROUTE CONDUIT AS DIRECTED BY POWER CO.
- UNDERGROUND SECONDARIES. SEE ELECTRICAL ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 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.
- PROVIDE 30A NON-FUSED NEMA 3R DISCONNECT SWITCH FOR MONUMENT SIGN. COORDINATE FINAL LOCATION AND CONNECTION REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR. REFER TO SHEET E1 FOR ADDITIONAL INFORMATION.
- COORDINATE CONDUIT PENETRATIONS FOR DRIVE-THROUGH MENU BOARDS, PREVIEW BOARDS, AND POST SPEAKERS WITH CIVIL AND ARCHITECTURAL DRAWINGS.
- 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	А	В	STEEL	CONCRETE					
UP TO 30'	2'-0"	5'-0"	50 lb.	0.58 CU. YDS.					

CONCRETE CLASS "47B-3000"





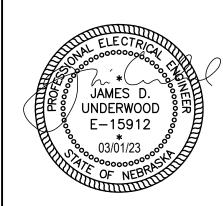


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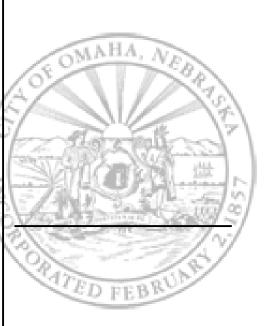


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REVISIONS

1 03.01.2023 REV. 01





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

> **Electrical Site** Plan

ES1