RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/29/2020
Joe Frogge
Digitally signed by Joe Frogge DN: CN=Joe Frogge, OU=Development, OU=LS Users, DC=COLS, DC=LOC Reason: release for construction Date: 2020.12.29 13:54:34-06'00'

REVISION | DATE | BY

ELECTRICAL SYMBOLS

THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED. V3.00

EQUIPMENT REQUIREMENTS

EQUIPMENT ITEM	THIS EQUIPMENT IS FURNISHED BY	THIS EQUIPMENT IS INSTALLED BY	SERVICE DISCONNECT FURNISHED BY	SERVICE DISCONNECT INSTALLED BY	SMOKE DUCT DETECTORS PROVIDED BY	WPGFI RECEPTACLES PROVIDED BY
ROOFTOP HVAC UNITS:						
RTU-*	MC	MC	FACTORY	FACTORY	MC	EC
VAV BOXES W/ REHEAT COILS						
VAV-*	MC	MC	EC	EC	---	---
EXHAUST FANS:						
EF-*	MC	MC	FACTORY	FACTORY	---	---
RECIRCULATION FANS:						
RF-*, CF-*	MC	MC	FACTORY	FACTORY	---	---
OUTDOOR AIR DAMPERS:						
OAI-*	MC	MC	EC	EC	---	---
GAS AND ELECTRIC HEATERS:						
UH-*	MC	MC	EC	EC	---	---
KSH-*	MC	EC	EC	EC	---	---
KITCHEN HOODS:						
H-1 thru H-*	OV	MC	OV	EC	---	---
REFRIGERATION SYSTEM:						
REFRIG. UNITS RR-* AND RP-*	RC	RC	EC	EC	---	---
REFRIG. CONDENSERS RC-*	RC	RC	EC	EC	---	---
REFRIG. CONTROL PANELS RCP-*	RC	RC	---	---	---	---
ELECTRICAL EQUIPMENT:						
MAIN SWITCH	OV	EC	---	---	---	---
MAIN DISTRIBUTION PANELS	OV	EC	---	---	---	---
MOTOR CONTROL CENTERS	OV	EC	---	---	---	---
ELECTRICAL PANELBOARDS	OV	EC	---	---	---	---
SURGE PROTECTION DEVICES	OV	EC	---	---	---	---
TRANSFORMERS	OV	EC	EC	EC	---	---
POWER MONITORING EQUIP.	OV	EC	---	---	---	---
GEN. CONNECTION PANEL	OV	EC	---	---	---	---
GENERATOR	OV	GC,PC,EC	---	---	---	---
FOOD PREP/COOKING EQUIP.	OV	ALL	EC	EC	---	---
DISHWASHING EQUIPMENT.	OV	ALL	EC	EC	---	---

LEGEND:
- ALL IS ALL APPLICABLE CONTRACTORS.
- EC IS THE ELECTRICAL CONTRACTOR.
- GC IS THE GENERAL CONTRACTOR.
- MC IS THE MECHANICAL HVAC CONTRACTOR.
- OV IS OWNERS VENDOR.
- PC IS THE PLUMBING CONTRACTOR.
- RC IS THE REFRIGERATION CONTRACTOR.

'PROVIDE' REFERS TO 'FURNISH AND INSTALL'

NOTES:
1. THIS LISTING IN NO WAY SUMMARIZES THE SCOPE OF WORK REQUIRED TO BE PERFORMED BY THE CONTRACTORS.
2. FOR OWNER VENDOR FURNISHED ITEMS THE INSTALLING CONTRACTOR MAY ALSO BE REQUIRED TO RECEIVE, INVENTORY, PROTECT AND STORE, AND ASSEMBLE THE EQUIPMENT (SEE DRAWINGS).
3. SEE THE SPECIFICATIONS, DRAWINGS, AND MANUFACTURER'S INSTALLATION RECOMMENDATIONS FOR COMPLETE, DETAILED INSTALLATION REQUIREMENTS.

ELECTRICAL DEVICES AND EQUIPMENT

UPDATED 2-18-19

EQUAL DEVICES BY LEGRAND ARE APPROVED FOR BIDDING. LEGRAND CATALOG NUMBERS ARE IN [BRACKETS]

DEVICE LABEL	LOCATION	DESCRIPTION
⊗A	SALES FLOOR, PHARMACY, BAKERY, BULK WATER	125V JUNCTION BOX STUBBED UP FROM FLOOR AT DIMENSION SHOWN. WIRE TO EQUIPMENT
⊗B	VESTIBULE DOORS, MISC.	125V JUNCTION BOX. WIRE TO EQUIPMENT
TR⊗C	TAMPER RESISTANT SALES SHELVING - SEE DETAIL 1/E0.0A	125V JUNCTION BOX. STUBBED UP FROM FLOOR AT DIMENSION SHOWN. FURNISH AND INSTALL 125V RECEPT UNDER SALES SHELVING. HUBBELL #CR20GRYTR (GRAY) RECEPT [LEGRAND #5362GRY]
⊗E	BEAUTY - SEE DETAIL 7/E0.0A	125V ALUMINUM SERVICE FITTING. STUBBED UP FROM FLOOR AT DIMENSION SHOWN. LEGRAND 525HB CAST ALUMINUM SERVICE FITTING HOUSING AND BASE, LEGRAND MODEL 500-GFI FACEPLATE (TWO REQUIRED), LEGRAND 800LCK STEEL FLOOR BOX, LEGRAND 825SFCK CONVERSION KIT
⊗F	FLORAL	125V FLOOR BOX RECEPT. STUBBED UP FROM FLOOR AT DIMENSION SHOWN. HUBBELL #B4233 FLOOR BOX, #S3825 DUPLEX FLAP, #HBL5362 (BROWN) RECEPT [WIREMOLD 1-880CS2-1/1-817B/2-828R] [LEGRAND #5362]
WPGF⊗M	MEAT DEPT - SEE DETAIL 3/E0.0A	125V JUNCTION BOX. STUBBED UP FROM FLOOR AT DIMENSION SHOWN. FURNISH AND INSTALL 125V RECEPT. HUBBELL #GFRST20GY (GRAY) SELF-TEST RECEPT. INTERMATIC #WP1010MXD WATERPROOF BOX WITH LID OR EQUAL
WPGF⊗M	KITCHEN, BAKERY - SEE DETAIL 3/E0.0A 4/E0.0A	125V JUNCTION BOX. STUBBED UP FROM FLOOR AT DIMENSION SHOWN. FURNISH AND INSTALL 125V RECEPT. HUBBELL #GFRST20GY (GRAY) SELF-TEST RECEPT. INTERMATIC #WP1010MXD WATERPROOF BOX WITH LID OR EQUAL
Ⓙ	ENTIRE STORE	4x4 JUNCTION BOX; 2x4 HANDY BOX; EQUIPMENT CONNECTIONS
(duplex)	ENTIRE STORE - SEE PLAN FOR LOCATIONS	125V DUPLEX WALL RECEPT. HUBBELL #DR20*** 'STYLE-LINE DECORATOR'. SEE ' DEVICE CHART ' FOR COLOR OF RECEPT FOR SPECIFIC APPLICATION [LEGRAND #26342]
TR	TAMPER RESISTANT ENTIRE STORE - SEE PLAN FOR LOCATIONS (5-1/2' and below in customer accessible areas)	125V DUPLEX WALL RECEPT. HUBBELL #DR20***TR 'STYLE-LINE DECORATOR'. SEE ' DEVICE CHART ' FOR COLOR OF RECEPT FOR SPECIFIC APPLICATION [LEGRAND #TR26342]
WPGFI GFI	ENTIRE STORE - SEE PLAN FOR LOCATIONS	125V DUPLEX GROUND FAULT WALL RECEPT. HUBBELL #GFRST20W (WHITE) [LEGRAND #2097W]
TR GFI	TAMPER RESISTANT ENTIRE STORE - SEE PLAN FOR LOCATIONS (5-1/2' and below in customer accessible areas)	125V DUPLEX GROUND FAULT WALL RECEPT. HUBBELL #GFRST20W (WHITE) [LEGRAND #2097TRW]
D GFI D	SCALES - CLEAN AND DIRTY POWER; PHARMACY PRINTER	125V DUPLEX RECEPT. HUBBELL #DR20*** 'STYLE-LINE DECORATOR'. (RED RECEPT FOR CLEAN POWER, WHITE RECEPT FOR DIRTY POWER); HUBBELL #GFRST20R (RED) FOR GFI APPLICATIONS [LEGRAND #26342xx]
USB/AC	CUSTOMER SERVICE, DIRECTOR, ACCOUNTING, BOOKKEEPING, PHARMACY, BACKROOM OFFICE, DEPT. HEADS, BREAKROOM, CASUAL DINING	125V 20A COMBINATION USB/AC WALL RECEPT. HUBBELL MODEL USB20AC5W USB CHARGER WITH WHITE TAMPER RESISTANT RECEPT [LEGRAND #TR5362USBW]
USB/AC	DINING	125V 20A COMBINATION USB/AC RECEPT. HUBBELL MODEL USB20AC5 USB CHARGER WITH BROWN TAMPER RESISTANT RECEPT AND BROWN COVER PLATE [LEGRAND #TR5362USB/TP26]
USB/AC	BAR (CUSTOMER SIDE OF BAR UNDER BAR TOP)	125V 20A COMBINATION USB/AC RECEPT. HUBBELL MODEL USB20AC5 USB CHARGER WITH BROWN TAMPER RESISTANT RECEPT AND BROWN COVER PLATE [LEGRAND #TR5362USB/TP26]

DEVICE CHART

UPDATED 2-18-19

ALL 120 VOLT ELECTRICAL DEVICES (SWITCHES AND RECEPTACLES) SHALL BE HUBBELL, STANDARD COMMERCIAL TYPE UNLESS AS INDICATED, AND SHALL BE PROVIDED AS FOLLOWS:

WHITE 'STYLE-LINE' RECEPTACLE WITH WHITE COVER PLATE FOR ALL FOOD PREP AREAS AND BEHIND CASE LINEUPS IN MEAT CUTTING, SERVICE MEATS, PRODUCE PRE-PACK, BAKERY, KITCHENS, OFFICES, RESTROOMS, CUSTOMER SERVICE, FLORAL, PHARMACY, LIQUOR SALES, SCAN ROOM.

WHITE 'STYLE-LINE' RECEPTACLE WITH STAINLESS STEEL COVER PLATE FOR COLUMN MOUNTED RECEPTACLES.

GRAY RECEPTACLE MOUNTED IN J-BOX UNDER SALES SHELVING. SEE DETAIL ON THIS DRAWING AND DRAWING E2.0.

GRAY 'STYLE-LINE' RECEPTACLE WITH STAINLESS STEEL COVER PLATE FOR BACKROOM, DOCK, CASE MOUNTED RECEPTS, AND MECHANICAL/ELECTRICAL ROOMS.

RED 'STYLE-LINE' RECEPTACLE WITH MATCHING COVER PLATE FOR ALL GENERATOR POWER SENSITIVE ELECTRONIC EQUIPMENT (PANELS 'LL', 'K', 'KK', 'KP').

WHITE 'STYLE-LINE' SWITCH WITH PILOT LIGHT (FURNISHED AND INSTALLED BY ELECTRICIAN) FOR BAKERY AROMA CIRCULATING FAN.

GRAY 'TOGGLE' SWITCH WITH STAINLESS STEEL COVER PLATE FOR ALL COOKING HOODS (FURNISHED BY HVAC AND INSTALLED BY ELECTRICIAN). PIZZA OVEN HOOD, DISHWASHER HOOD, SEAFOOD EXHAUST FAN (WHERE APPLICABLE).

WHITE WIREFREE RTS 'DECOFLEX' 5 CHANNEL TRANSMITTER SWITCH AS MANUFACTURED BY SOMFY SYSTEMS, INC., WITH WHITE 'STYLE-LINE' COVER PLATE.

BROWN USB/AC RECEPTACLE - SEE 'EQUIPMENT ELECTRICAL DEVICES' CHART ABOVE FOR SPECIFICS.

WHITE USB/AC RECEPTACLE - SEE 'EQUIPMENT ELECTRICAL DEVICES' CHART ABOVE FOR SPECIFICS.

ALL OUTLETS, COVER PLATES, AND SWITCHES NOT SPECIFIED ABOVE TO BE WHITE .

ALL SWITCHES TO BE 'STYLE-LINE' (EXCEPT AS NOTED ABOVE).

ALL PHONE JACKS TO BE GRAY . ALL DATA JACKS TO BE RED .

GENERAL WIRING NOTE

THE ELECTRICAL CONTRACTOR SHALL PROVIDE WIRE COLOR CODING AS FOLLOWS:

120/208V - NEUTRAL= WHITE, PHASE 'A'= BLACK, PHASE 'B'= RED, PHASE 'C'= BLUE

THIS CHART SHALL BE FOLLOWED BY THE ELECTRICAL CONTRACTOR FOR ALL NEW WIRING THROUGHOUT THE PROJECT.

STANDARD MOUNTING HEIGHTS

AUDIBLE APPLIANCES (CENTERLINE)	84"
ALARMS	48"
ANNUNCIATOR PANELS (DISPLAY)	60"
CONTROLS (TOP OF DEVICE)	48"
EXIT SIGNS (WALL MOUNTED)	80"
FIRE ALARM ANNUNCIATOR PANEL (DISPLAY)	60"
FIRE ALARM BELL (EXTERIOR) (CENTERLINE)	120"
FIRE ALARM CONTROL PANEL/UNIT (DISPLAY)	60"
INTERCOM (AFEA ONLY)	36"
INTERCOMS (TOP OF DEVICE)	48"
PULL STATIONS (TOP OF DEVICE)	48"
PHOTOCELLS	144"
RECEPTACLES	16"
RECEPTACLES (EXTERIOR)	24"
RECEPTACLES (GARAGES)	24"
RECEPTACLES (POOLS)	27"
RECEPTACLES (ABOVE COUNTER) +6" ABOVE BACKSPLASH/COUNTER, 40" MAX	
RECEPTACLES IN EQUIPMENT ROOMS	44"
REMOTE INDICATING LIGHT (EQUIPMENT ROOMS)	48"
REMOTE INDICATING LIGHT (FINISHED AREAS)	CEILING
SAFETY SWITCHES (TOP OF DEVICE)	48"
STARTERS (TOP OF DEVICE)	48"
SWITCHES (TOP OF DEVICE)	44"
TELEPHONE, DATA OUTLETS	SAME AS ADJACENT DEVICE, UNO
TELEPHONE TERMINAL BOARD (BOTTOM)	6"
TELEVISION OUTLETS	REFER TO ARCH DRAWINGS
VISIBLE APPLIANCES (CENTERLINE)	84"

INSTALL OUTLET BOXES AT THE MOUNTING HEIGHTS SHOWN ABOVE UNO IN THE CONSTRUCTION DOCUMENTS. MOUNTING HEIGHTS LISTED ABOVE, OR ELSEWHERE IN THE CONSTRUCTION DOCUMENTS, ARE AFF OR AFG TO BOTTOM OF OUTLET BOX, UNO. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA AND LOCAL REQUIREMENTS.

LINETYPE LEGEND

THROUGHOUT THE DRAWINGS DIFFERENT LINETYPES ARE USED IN COMBINATION WITH THE SYMBOLS TO INDICATE THE STATUS OF ITEMS AS EXISTING, TO BE DEMOLISHED, TO BE INCLUDED AS PART OF NEW WORK AND/OR ITEMS WHICH ARE ANTICIPATED TO BE PROVIDED IN THE FUTURE. THE STATUS OF ITEMS USING THESE LINETYPES ARE RELATIVE TO THE VIEW IN WHICH THEY APPEAR. PHASING SHOWN IN DRAWINGS IS NOT INTENDED TO FULLY DESCRIBE ALL NECESSARY CONSTRUCTION PHASING, WHICH IS DETERMINED BY THE CONTRACTOR AS PART OF THEIR RESPONSIBILITIES. ANY SUCH PHASES DESCRIBED IN THE CONSTRUCTION DOCUMENTS ARE GENERAL AND ONLY INTENDED TO INDICATE A BROAD ORDER FOR THE SAKE OF DESCRIBING THE PROJECT. THE FOLLOWING LINETYPES MAY BE USED ON ANY DEVICE, EQUIPMENT, NOTE, LINE, SHAPE, ETC.

EXISTING ——— NEW ———
DEMOLISH — — — — FUTURE - - - - -

ANNOTATION

- MECHANICAL OR FIRE PROTECTION PLAN NOTE CALLOUT
- PLUMBING PLAN NOTE CALLOUT
- ELECTRICAL OR FIRE ALARM PLAN NOTE CALLOUT
- TECHNOLOGY PLAN CALLOUT
- PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES
- EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)
- CU 1 — MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)
- CONNECTION POINT OF NEW WORK TO EXISTING
- 1/E1 — DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
- 1/E1 — SECTION CUT DESIGNATION

CIRCUITING & WIRING

- 7 5 3 [R#] P1 OR P1-3,5,7 — HOMERUN TO PANELBOARD. INFORMATION AT ARROWS ARE CIRCUIT NUMBERS AND PANELBOARD FOR TERMINATION. REFER TO PANELBOARD SCHEDULES FOR BRANCH CIRCUIT CONDUCTOR SIZES.
- INDICATES RELAY NUMBER
- CIRCUIT CONTINUATION OR PARTIAL CIRCUIT
- CONDUIT CONCEALED
- CONDUIT CONCEALED (EMERGENCY)
- CONDUIT IN/UNDER FLOOR/GROUND CONSTRUCTION
- EXPOSED CONDUIT
- EXPOSED CONDUIT (EMERGENCY)
- FLEXIBLE CONDUIT
- LOW VOLTAGE CABLE (NOT ROUTED IN CONDUIT)
- CONDUIT TURNING DOWN
- CONDUIT TURNING UP
- CONNECTION POINT OR EQUIPMENT TERMINATION
- EQUIPMENT TERMINATION

CONDUCTOR TICK MARK LEGEND

WHERE TICK MARKS ARE SHOWN, THE FOLLOWING SHALL GOVERN:

- SWITCHED HOT (PHASE) CONDUCTORS (SHOWN TRAILING NEUTRAL)
- NEUTRAL (GROUNDED) CONDUCTOR
- UNSWITCHED HOT (PHASE) CONDUCTORS (SHOWN LEADING NEUTRAL)
- NOTE: HASH MARKS INDICATE QUANTITY OF CONDUCTORS
- EQUIPMENT GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION OR BARE)
- ISOLATED GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION WITH YELLOW TRACER)

ABBREVIATIONS

AF	AMPERE FUSE SIZE	MCC	MOTOR CONTROL CENTER
AFC	ABOVE FINISHED CEILING	MFR	MANUFACTURER
AFF	ABOVE FINISHED FLOOR	MIN	MINIMUM
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
AHJ	AUTHORITY HAVING JURISDICTION	MLV	MAGNETIC LOW-VOLTAGE
AHU	AIR HANDLING UNIT	MOCP	MAXIMUM OVERCURRENT PROTECTION
AIC	AMPERE INTERRUPTING CAPACITY	MTD	MOUNTED
AS	AMPERE SWITCH SIZE	N/A	NOT APPLICABLE
AT	AMPERE TRIP SETTING	NF	NON-FUSED
ATS	AUTOMATIC TRANSFER SWITCH	NL	NIGHT LIGHT (24HR ON)
AV	AUDIO VISUAL	NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY (CSA, ETL, NSF, UL)
BAS	BUILDING AUTOMATION SYSTEM	NTS	NOT TO SCALE
BKR	BREAKER	OS	OCCUPANCY SENSOR
C	CONDUIT	P	POLE
CAT	CATEGORY	PART	PARTIAL CIRCUIT
CATV	CABLE TELEVISION SYSTEM	PH/Ø	PHASE
CCTV	CLOSED CIRCUIT TELEVISION	PNL	PANEL
CD	CANDELA	PNLBD	PANELBOARD
CKT	CIRCUIT	PROVIDE	FURNISH AND INSTALL
CODE	APPLICABLE CODE ADOPTED BY JURISDICTION	PT	POTENTIAL TRANSFORMER
CT	CURRENT TRANSFORMER	QTY	QUANTITY
CTR	CENTER	R/REL	RELOCATE
CVD	CUMULATIVE VOLTAGE DROP	RCPT	RECEPTACLE
D/DEMO	DEMOLITION	RLA	RUNNING LOAD AMPS
DPDT	DOUBLE-POLE, DOUBLE-THROW	RTU	ROOFTOP UNIT
DPST	DOUBLE-POLE, SINGLE-THROW	SCCR	SHORT-CIRCUIT CURRENT RATING
E/ETR/EX	EXISTING TO REMAIN	SD	SMOKE DUCT DETECTOR
EC	ELECTRICAL CONTRACTOR	SF	SQUARE FEET
EF	EXHAUST FAN	SPDT	SINGLE-POLE, DOUBLE-THROW
EM	EMERGENCY	SPST	SINGLE-POLE, SINGLE-THROW
EMS	ENERGY MANAGEMENT SYSTEM	SSBJ	SUPPLY-SIDE BONDING JUMPER
ELV	ELECTRONIC LOW-VOLTAGE	ST	SHUNT TRIP
EWC	ELECTRIC WATER COOLER	SWBD	SWITCHBOARD
FAAP	FIRE ALARM ANNUNCIATOR PANEL	SWGR	SWITCHGEAR
FACP	FIRE ALARM CONTROL PANEL	TBB	TELECOMMUNICATIONS BONDING BACKBONE
FCA	FAULT CURRENT AMPS AVAILABLE	TBD	TO BE DETERMINED
FCU	FAN COIL UNIT	TGB	TELECOMMUNICATIONS GROUND BUS BAR
FF	FINISHED FLOOR	TL	TWISTLOCK
FLA	FULL LOAD AMPS	TMGB	TELECOMMUNICATIONS MAIN GROUND BUS BAR
FLR	FLOOR	TX/XFMR	TRANSFORMER
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GEC	GROUNDING ELECTRODE CONDUCTOR	U/F	UNDERFLOOR
GES	GROUNDING ELECTRODE SYSTEM	U/G	UNDERGROUND
GFR	GROUND FAULT RELAY	U/S	UNDERSLAB
G	GROUND	UH	UNIT HEATER
IG	ISOLATED GROUND	UNO	UNLESS NOTED OTHERWISE
ISC	SHORT CIRCUIT CURRENT	UPS	UNINTERRUPTIBLE POWER SUPPLY
JB/J-BOX	JUNCTION BOX	VD	VOLTAGE DROP
LF	LINEAR FEET	VFD	VARIABLE FREQUENCY DRIVE
LRA	LOCKED ROTOR AMPS	VS	VACANCY SENSOR
LTG/LTS	LIGHTING/LIGHTS	W	WIRE
MAU	MAKE-UP AIR UNIT	W/	WITH
MAX	MAXIMUM	WP	WEATHER PROOF
MCA	MINIMUM CIRCUIT AMPACITY	WR	WEATHER RESISTANT
MCB	MAIN CIRCUIT BREAKER	WT	WATERTIGHT
		XP	EXPLOSION PROOF

LIGHTING

- LIGHT FIXTURE
  - a = LOWER CASE LETTER IS SWITCH IDENTIFIER
  - A = UPPER CASE LETTER INDICATES LIGHT FIXTURE TYPE
  - = WALL MOUNT
  - = ARROW INDICATED AIMING DIRECTION
- LIGHT FIXTURE CIRCUITED AS A NIGHT LIGHT (NL)
- EMERGENCY LIGHT FIXTURE WITH EMERGENCY LIGHTING BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE
- NIGHT LIGHT/EMERGENCY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE
- LIGHT FIXTURE WITH DUAL BALLASTS CIRCUITED SEPARATELY (SHADING IMPLIES EMERGENCY LIGHT FIXTURE)
- [#] LIGHTING TRACK (# INDICATES RELAY NUMBER)
- MIRROR LIGHTS
- EXTERIOR PARKING LOT LIGHT FIXTURE
- EXTERIOR PEDESTRIAN POST TOP LIGHT FIXTURE
- EXTERIOR LIT BOLLARD LIGHT
- EXIT SIGN - CEILING / WALL MOUNTED, ARROWS AS INDICATED, FACE HATCHED
- EMERGENCY LIGHTING UNIT EQUIPMENT WITH BATTERY PACK - CEILING/WALL MOUNTED
- AFEA (AREA FOR EVACUATION ASSISTANCE) SIGN - CEILING/WALL MOUNTED, ARROWS AS INDICATED

REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION

POWER EQUIPMENT & DEVICES

- ELECTRICAL PANELBOARD (SURFACE OR FLUSH MOUNT)
- ELECTRICAL CABINET (SURFACE OR FLUSH MOUNT), TYPE AS NOTED
- PLYWOOD TERMINAL BOARD FOR TELEPHONE SYSTEM, UNO. SIZE AS NOTED
- SWITCHBOARD OR MOTOR CONTROL CENTER ON HOUSEKEEPING PAD
- ELECTRICAL DISTRIBUTION PANELBOARD
- TRANSFORMER
- 200/3/150/3R — DISCONNECT SWITCH - "200/3/150/3R" DENOTES AMPERES/POLE/FUSE/NEMA ENCLOSURE RATING, NF= NON-FUSED, CB= CIRCUIT BREAKER (200/3/CB), NO VALUE (200/3/150) FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 RATING
- 30/3/15/1/3R — COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER "30/3/15/1/3R" DENOTES AMPERES/POLE/FUSE/NEMA STARTER SIZE/NEMA ENCLOSURE RATING. NF= NON-FUSED, CB= CIRCUIT BREAKER (30/3/CB/1), NO VALUE (30/3/150/1) FOR NEMA ENCLOSURE MEANS STANDARD NEMA 1 ENCLOSURE RATING
- 2 — MAGNETIC MOTOR STARTER, NEMA SIZE AS NOTED. 3-POLE, UNO
- VFD — VARIABLE FREQUENCY DRIVE
- INDICATING LIGHT
- EMERGENCY POWER OFF BUTTON
- STOP-START PUSH BUTTON CONTROL STATION
- HAND-OFF-AUTO PUSH BUTTON CONTROL STATION
- MUSHROOM-TYPE PUSH BUTTON
- OVERHEAD PADDLE FAN

BRANCH CIRCUIT CONDUCTOR TABLE

WHERE TICK MARKS ARE NOT SHOWN, THE FOLLOWING SHALL GOVERN:

# OF POLES	HOT (PHASE)*	NEUTRAL (GROUNDED)**	GROUNDING***
1P	(1)	(1) UNO	(1)
2P	(2)	(1) UNO	(1)
3P	(3)	(1) UNO	(1)

* PROVIDE ADDITIONAL CONDUCTORS THROUGH ENTIRE CIRCUIT (SWITCHED, UNSWITCHED/EM, ETC.) AS INDICATED THROUGHOUT CONSTRUCTION DOCUMENTS AND AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM.

** REFER TO SPECIFICATIONS FOR LIMITATIONS ON SHARING NEUTRAL (GROUNDED) CONDUCTORS. DO NOT CIRCUIT AS A MULTI-WIRE BRANCH CIRCUIT, UNO.

*** PROVIDE ADDITIONAL ISOLATED GROUNDING CONDUCTORS WHERE INDICATED.

REFER TO SPECIFICATIONS, PLANS, NOTES, WIRING AND CONTROL DIAGRAMS FOR ADDITIONAL CIRCUITING REQUIREMENTS.

BOXES, LIGHTING CONTROL & WIRING DEVICES

$# — SWITCH LETTER DESIGNATIONS AS FOLLOWS:
- BLANK = SINGLE
- 2 = TWO POLE
- 3 = THREE-WAY
- 4 = FOUR-WAY
- D = DIMMER
- F = FAN SPEED CONTROL
- FH = FRACTIONAL HORSEPOWER MANUAL CONTROLLER
- IH = INTEGRAL HORSEPOWER MANUAL CONTROLLER
- K = KEYED
- LV# = LOW VOLTAGE / DIGITAL
- M = MANUAL MOTOR STARTER DISCONNECT
- OS# = OCCUPANCY SENSOR
- P = SPST PILOT LIGHT
- WP = WEATHER PROOF
- # = REFER TO LIGHTING CONTROL DEVICE SCHEDULE

- ALC — AUTOMATIC LOAD CONTROL RELAY
- BTS — BRANCH CIRCUIT TRANSFER SWITCH
- CEILING / WALL MOUNTED OCCUPANCY SENSOR (# INDICATES TYPE PER SCHEDULE)
  - CORNER 90 DEGREE SENSING
  - ONE-DIRECTION SENSING, CEILING/WALL MOUNT
  - CEILING MOUNT, TWO DIRECTION SENSING
  - CEILING MOUNT, FOUR DIRECTION SENSING
- C# — CONTACTOR (SIZE, COIL VOLTAGE AND NUMBER OF POLES AS INDICATED)
- CL## — TRACK-MOUNTED CURRENT LIMITER (## INDICATES AMPERAGE)
- D# — DAYLIGHT SENSOR (# INDICATES TYPE PER SCHEDULE)
- LC — LIGHTING CONTROLS PROCESSOR AND/OR EQUIPMENT
- P# — POWER PACK (# INDICATES TYPE PER SCHEDULE)
- PS# — PHOTOELECTRIC SWITCH
- R## — ROOM CONTROLLER (# INDICATES TYPE PER SCHEDULE)
- TS# — TIME SWITCH
- SIMPLEX RECEPTACLE - NEMA 5-20R, UNO
- DUPLEX RECEPTACLE - NEMA 5-20R, UNO
- DOUBLE DUPLEX RECEPTACLE - NEMA 5-20R, UNO
- SPECIAL RECEPTACLE - NEMA TYPE AS NOTED
- TWIST-LOCK TYPE RECEPTACLE
- G — BLANK FACE GFCI FEED THROUGH DEVICE
- OR GFCI — GFCI TYPE RECEPTACLE*
- OR IG — ISOLATED GROUND TYPE RECEPTACLE*
- OR EM — EMERGENCY RECEPTACLE*
- RECEPTACLE INSTALLED ABOVE COUNTER OR BACKSPLASH*
- RECEPTACLE INSTALLED IN CEILING*
- RECEPTACLE INSTALLED IN FLOOR*
- RECEPTACLE INSTALLED VIA DROP CORD*
- # — RECEPTACLE LETTER DESIGNATIONS AS FOLLOWS:
  - C = AUTOMATICALLY CONTROLLED
  - CH = CLOCK HANGER TYPE
  - G=RCPT PROTECTED BY GFCI CIRCUIT BREAKER OR UPSTREAM GFCI DEVICE
  - H = HORIZONTALLY MOUNTED
  - S = MANUALLY CONTROLLED
  - SP / TVSS = SURGE PROTECTION
  - TR = TAMPER RESISTANT
  - TV = TELEVISION
  - USB = USB/DUPLEX
  - WP = WEATHER PROOF COVER
  - WR = WEATHER RESISTANT
- MULTI-OUTLET ASSEMBLY
- TELEPHONE OUTLET
- DATA OUTLET
- MULTI-SERVICE OUTLET; TELEPHONE AND DATA
  - ABOVE COUNTER, TYP
  - WALL, TYP
  - FLOOR, TYP
- A — MULTI-SERVICE POWER POLE WITH TELEPHONE, DATA AND POWER OUTLETS A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS
- A — MULTI-SERVICE FLOOR BOX WITH TELEPHONE, DATA AND POWER OUTLETS A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS
- A — POKE THROUGH, A = TYPE, REFER TO PLANS, SCHEDULES AND SPECIFICATIONS
- THERMOSTAT
- CEILING/FLOOR MOUNT JUNCTION/OUTLET BOX
- WALL MOUNT JUNCTION/OUTLET BOX

* SYMBOL DEMONSTRATED WITH DUPLEX RECEPTACLE, WHEN USED IN COMBINATION WITH OTHER DEVICES MEANING IS SIMILAR FOR THOSE DEVICE TYPES.

REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR MORE INFORMATION.

ELECTRICAL ONE-LINE & RISER DIAGRAM

- ###A 3P — SWITCH (RATING AS INDICATED)
- ###A 3P — DRAWOUT CIRCUIT BREAKER (RATINGS AS INDICATED)
- ###AS 3P ###AF FRS — FUSED SWITCH (RATING, POLES AND FUSE TYPE AS INDICATED)
- ###AS 3P ###AF FRS NEMA # — COMBINATION FUSED SWITCH/STARTER AND STARTER SIZE
- ###AS 3P FRS NEMA # — CIRCUIT BREAKER (RATINGS AS INDICATED)
- ###A 3P NEMA # — COMBINATION CIRCUIT BREAKER/STARTER AND STARTER SIZE
- PANELBOARD, SINGLE OR MULTI-SECTION (REFER TO SCHEDULES)
- ISOLATED POWER PANELBOARD W/ INTEGRAL TRANSFORMER (REFER TO SCHEDULES)
- TX## — TRANSFORMER (TYPE AND RATINGS AS INDICATED)
- TX## — SHIELDED TRANSFORMER (TYPE AND RATINGS AS INDICATED)
- ATS# ###A ATS# (W/BYPASS) — AUTOMATIC TRANSFER SWITCH (RATINGS AS INDICATED)
- ATS# (W/BYPASS) ###A — AUTOMATIC TRANSFER SWITCH WITH BYPASS (RATINGS AS INDICATED)
- ##KW GENERATOR 480Y/277V, 3Ø, 4W ###A, 3P M/G — GENERATOR (RATINGS AS INDICATED)
  - NON-SEPARATELY DERIVED SOURCE OR SEPARATELY DERIVED SOURCE
- MDP SWITCHBOARD ELEC ROOM ### AMPS 480Y/277V 3Ø 4W — SWITCHGEAR, SWITCHBOARD AND/OR DISTRIBUTION PANELBOARD (TYPE, RATING, DEVICES AND ACCESSORIES AS INDICATED)
- DIGITAL VM AM — COMBINATION DIGITAL VOLT METER/AMMETER
- ### — CIRCUIT IDENTIFICATION (REFER TO CIRCUIT SCHEDULE)
- GFR — GROUND FAULT RELAY
- PFR — PHASE FAILURE RELAY
- KK# — KIRK-KEY INTERLOCK (# INDICATES KEY PAIR)
- ST — SHUNT TRIP
- AM — AMMETER (RANGE AS SPECIFIED OR REQUIRED)
- VM — VOLTMETER (RANGE AS SPECIFIED OR REQUIRED)
- UTILITY METER M — UTILITY METER (AS REQUIRED BY UTILITY)
- AS — AMMETER SWITCH
- VS — VOLTMETER SWITCH
- WH D 15 — WATT-HOUR METER, "D" DENOTES DEMAND REGISTER, "15" DENOTES MINUTES OF DEMAND INTERVAL
- CURRENT TRANSFORMER RATING AS SPECIFIED OR REQUIRED
- POTENTIAL TRANSFORMER RATING AS SPECIFIED OR REQUIRED
- SPD — SURGE-PROTECTIVE DEVICE
- GROUND CONNECTION
- GROUND CONNECTION WITH TEST WELL
- GROUND ROD
- LIGHTNING ARRESTER
- CAPACITOR
- CONTACT (OPEN OR CLOSED)
- HEATER
- HP — MOTOR
- ## — BLOCK LOAD KW OR KVA
- ×F# ×FP# — FAULT POINT REFERENCED IN SHORT CIRCUIT CURRENT AND VOLTAGE DROP SPREADSHEET

SIGNALING

- SIGNALING BELL
- SIGNALING BUZZER
- T — LV TRANSFORMER

APPLICABLE ELECTRICAL CODES:

NOTE: PROJECT IS DESIGNED IN COMPLIANCE WITH THE FOLLOWING CODES. THIS IS NOT AN EXHAUSTIVE LIST. PROJECT SHALL COMPLY WITH ALL APPLICABLE CODES, STANDARDS AND LOCAL REQUIREMENTS. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ELECTRICAL CODE: **2017 NATIONAL ELECTRICAL CODE, (NFPA 70)**
BUILDING CODE: **2018 INTERNATIONAL BUILDING CODE**
ENERGY CODE: **N/A**

COMMISSIONING / FUNCTIONAL TESTING:

CONTRACTOR'S BID SHALL INCLUDE PROVISIONS TO PROVIDE ALL SERVICES RELATED TO THE CODE REQUIRED BUILDING SYSTEMS COMMISSIONING INCLUDING A COMMISSIONING PLAN, FUNCTIONAL TESTING, AND RELATED DOCUMENTATION, REPORTS AND OWNER TRAINING. THIS INCLUDES RETAINING THE SERVICES OF A 3RD PARTY REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY. REFER TO THE LATEST ADOPTED EDITION OF THE APPLICABLE ENERGY CODE FOR MORE INFORMATION. CONTRACTOR SHALL COMPLETE ALL RELATED COMMISSIONING REQUIREMENTS PRIOR TO FINAL INSPECTIONS IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, CODE AND MANUFACTURER'S INSTRUCTIONS.

ELECTRICAL GENERAL NOTES (GROCERY):

1. KEEP PENETRATIONS THROUGH INSULATED COOLER AND FREEZER BOXES TO A MINIMUM. AVOID ROUTING CONDUIT INSIDE OF THE BOX WHEREVER PRACTICABLE. SURFACE MOUNTED VERTICAL CONDUITS IN FOOD PREP COOLERS SHALL BE SPACED 1" OFF THE WALL TO FACILITATE CLEANING. SURFACE MOUNTED CONDUIT ON THE EXTERIOR OF THE COOLER OR FREEZER SHALL BE TIGHT TO THE BOX, UNLESS NOTED OTHERWISE. DO NOT ROUTE CONDUIT WHERE IT IS SUBJECT TO DAMAGE. AVOID ROUTING CONDUIT TO TOP SURFACE OF BOX IN AREAS USED FOR MEZZANINE STORAGE OR OTHER EQUIPMENT. SEAL ALL PENETRATIONS THROUGH BOX WITH EXPANDING FOAM OR SILICONE SEALANT AND FILL CONDUIT FITTINGS/SEAL OFFS WITH EXPANDING FOAM SEALANT.
2. FOR FURNISHED EQUIPMENT AND APPLIANCES: CONFIRM THE ELECTRICAL REQUIREMENTS WITH MANUFACTURER INFORMATION AND OTHER TRADES PRIOR TO ROUGH-IN AND ADJUST ELECTRICAL PROVISIONS AS NECESSARY. THIS NCLUDES BUT IS NOT LIMITED TO: RACEWAY, CONDUCTOR(S), DISCONNECT, CIRCUIT BREAKER, FUSE, WIRING DEVICE AND TERMINATION. WHERE APPLICABLE, REFER TO VENDOR INFORMATION, SUCH AS FOOD SERVICE AND REFRIGERATION DRAWINGS, FOR DEVICE TYPE AND LOCATION.
3. REFER TO THE ELECTRICAL EQUIPMENT LISTING ON SHEET 0.1 FOR ADDITIONAL INFORMATION ON ELECTRICAL CONNECTIONS AND REQUIREMENTS FOR EQUIPMENT.
4. PROVIDE WEATHER PROOF BOXES, DEVICES AND COVERS IN WET LOCATIONS, WALK-IN COOLER/FREEZER BOXES, FOOD PREP AREAS, KITCHEN AND WASH DOWN AREAS INCLUDING FLOOR LEVEL EQUIPMENT CONNECTIONS IN THESE AREAS, UNO.

ELECTRICAL GENERAL NOTES (REMODEL):

1. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT ACTUAL "AS-BUILT" CONDITIONS. VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BID. COORDINATE NEW AND DEMOLITION WORK WITH ALL OTHER TRADES AND EXISTING CONDITIONS.
2. NOTIFY ARCHITECT, ENGINEER AND OWNER, AS APPLICABLE, IF ANY DANGEROUS CONDITIONS EXIST ON JOB SITE BEFORE ANY DEMOLITION OR REMODEL WORK BEGINS.
3. COORDINATE ANY NECESSARY POWER OUTAGES WITH THE LANDLORD AND OWNER AND MAKE EVERY ATTEMPT TO SCHEDULE DURING NON-BUSINESS OR OFF-PEAK BUSINESS HOURS TO MINIMIZE DISRUPTION TO BUSINESS OPERATIONS. REQUESTS FOR ELECTRICAL SHUTDOWNS OF THE LANDLORD'S EQUIPMENT SHALL BE BROUGHT IN WRITING TO THE ATTENTION OF THE LANDLORD AT LEAST 7 DAYS IN ADVANCE. SHUTDOWNS SHALL NOT BE PERFORMED WITHOUT WRITTEN APPROVAL FROM THE LANDLORD.
3. ALL ROOF PENETRATIONS, FLOOR CHASING OR CORE DRILLING SHALL REQUIRE THE SPECIFIC APPROVAL OF THE LANDLORD AND OWNER. ALL WORK IN COMMON AREAS, SHAFTS OR OTHER OWNER SPACES MUST BE SPECIFICALLY REVIEWED AND APPROVED BY THE LANDLORD PRIOR TO ANY WORK BEING PERFORMED. MINIMIZE DISTURBANCE TO OTHER BUILDING TENANTS.
4. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: EXISTING ELECTRICAL EQUIPMENT AND CIRCUITRY MAY BE REUSED IF IN GOOD CONDITION AND NEW DESIGN REQUIREMENTS CAN BE MET; OTHERWISE REPLACE
5. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: REPAIR OR REPLACE ANY EXISTING DAMAGED OR RECALLED ELECTRICAL EQUIPMENT, LIGHT FIXTURES, WIRING DEVICES AND RELATED CIRCUITRY AND RESTORE ALL ELECTRICAL SYSTEMS TO PROPER WORKING ORDER. THE FINAL ELECTRICAL INSTALLATION SHALL BE FREE FROM ELECTRICAL DEFECTS TO THE SATISFACTION OF THE AHJ, OWNER, ARCHITECT AND ENGINEER.
6. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: VERIFY CONDITION AND AGE OF EXISTING REUSED ELECTRICAL EQUIPMENT, LIGHT FIXTURES, CIRCUIT BREAKERS, FUSES, CONDUIT, SWITCHES AND RELATED WIRING. NOTIFY OWNER OF ANY ELECTRICAL EQUIPMENT, LIGHT FIXTURES AND WIRING AGED BEYOND ITS USEFUL LIFE AND REPLACE AS DIRECTED. THE MAXIMUM EXPECTED USEFUL LIFE SHALL NOT EXCEED THE FOLLOWING, (AS DATED FROM THE POINT OF MANUFACTURE), UNLESS APPROVED BY THE ENGINEER, MANUFACTURER AND OWNER: 20 YEARS FOR CIRCUIT BREAKERS, GENERATOR/UPS SYSTEMS AND LIGHT FIXTURES, 30 YEARS FOR TRANSFORMERS AND PANELBOARDS, 40 YEARS FOR SWITCHBOARDS AND OTHER ELECTRICAL EQUIPMENT.
7. FOR AREAS AND EQUIPMENT WITHIN THE SCOPE OF THIS REMODEL: ELECTRICAL EQUIPMENT SHALL BE LOCATED SO THAT THE CODE REQUIRED MINIMUM WORKING CLEARANCE AND DEDICATED ELECTRICAL SPACE ARE MAINTAINED. EXISTING EQUIPMENT NOT MEETING CURRENT CODE CLEARANCE REQUIREMENTS MAY REMAIN IF ALLOWED TO REMAIN BY THE AHJ, ENGINEER AND OWNER.

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

PROFESSIONAL SEAL
STATE OF MISSOURI
DEAN WAY CHANDLER
NUMBER PE-2017036652
PROFESSIONAL ENGINEER
Oct 23 2020
DEAN W. CHANDLER
LICENSE # PE-2017036652

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

Hy-Vee® EMPLOYEE OWNED
HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

NORTH PLAN NORTH

ELECTRICAL NOTES & SYMBOLS

PROJECT MANAGER	CHECKED BY:
SL	DWC
DRAWN BY: HENDERSON	DATE: 10/19/2020
SCALE: AS NOTED	JOB NUMBER: 62930547

SHEET: E0.0

DEAN W. CHANDLER
10/23/2020 9:16:50 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/29/2020

REVISION | DATE | BY

GENERAL NOTES

1. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE ELECTRICAL BUILDING SYSTEM INCLUDING POWER SYSTEMS, LIGHTING SYSTEMS, HVAC AND REFRIGERATION CONTROL SYSTEMS, COMMUNICATIONS, TELEPHONE, INTERCOM SYSTEMS, CASH REGISTER SYSTEM, AND FIRE ALARM SYSTEM. DRAWINGS ARE DIAGRAMMATIC AND ELECTRICAL CONTRACTOR SHALL VERIFY ALL ELECTRICAL REQUIREMENTS, ROUGH-INS, AND ROUGH-IN LOCATIONS PRIOR TO BIDDING PROJECT AND PERFORMING WORK. FAILURE TO VERIFY REQUIREMENTS PRIOR TO BIDDING SHALL NOT BE GROUNDS FOR EXTRA COSTS.

2. IN ADDITION TO THE PROJECT SPECIFICATIONS AND THE COMPLETE SET OF DRAWINGS, THE FOLLOWING DRAWINGS ARE SPECIFICALLY REFERENCED AS A PART OF THE ELECTRICAL SCOPE OF WORK.

SHEET	DESCRIPTION
E0.0-	ELECTRICAL SYMBOLS AND NOTES
E0.0A-	ELECTRICAL DETAILS
E0.1-	ELECTRICAL EQUIPMENT LISTING
E1.0-	FEEDER DIAGRAM
E1.1-	PANELBOARD SCHEDULES
E1.2-	PANELBOARD SCHEDULES
E1.3-	PANELBOARD SCHEDULES
E1.4-	ELECTRICAL REFRIGERATION SCHEDULES
E2.0A-	ELECTRICAL PLAN - PART A
E2.0B-	ELECTRICAL PLAN - PART B
E2.1-	ELECTRICAL PART PLAN
E2.2-	ELECTRICAL PART PLAN
E2.9A-	ROOF ELECTRICAL PLAN - PART A
E2.9B-	ROOF ELECTRICAL PLAN - PART B
E3.0A-	LIGHTING FLOOR PLAN - PART A
E3.0B-	LIGHTING FLOOR PLAN - PART B
E3.1-	LIGHTING SCHEDULES AND DETAILS
E5.0A-	REFRIGERATION ELECTRICAL POWER PLAN - PART A
E5.0B-	REFRIGERATION ELECTRICAL POWER PLAN - PART B
ED1.0A-	ELECTRICAL DEMO PLANS - PART A
ED1.0B-	ELECTRICAL DEMO PLANS - PART B
ED2.0-	ELECTRICAL DEMO ROOF PLAN
PE1.1-	ELECTRICAL STUB-UP PLAN

3. ALL STUB-UPS SHALL BE OF METAL CONDUIT. PVC IS ACCEPTABLE UNDERFLOOR.

4. PAINT ALL EXPOSED ELECTRICAL CONDUIT IN KITCHEN, ASIAN, BAKERY, AND MEAT AREAS.

5. ALL EXTERIOR OR WET LOCATION RECEPTACLES TO BE GROUND FAULT CIRCUIT INTERRUPTERS (GFI).

6. THE ELECTRICAL CONTRACTOR SHALL SUBMIT TO HY-VEE A PARTIAL AS-BUILT DRAWING, ALONG WITH HIS PAYMENT REQUEST, FOR ANY UNDERGROUND ELECTRICAL WORK. THE AS-BUILT SHALL PROVIDE ACCURATE INFORMATION ON CONDUIT SIZE AND LOCATIONS ALONG WITH APPROXIMATE DEPTH OF LINES. THE ELECTRICAL CONTRACTOR SHALL SUBMIT A FINAL AND COMPLETE AS-BUILT DRAWING WITH PAYMENT REQUEST WHEN ALL UNDERGROUND WORK HAS BEEN COMPLETED AND APPROVED BY HY-VEE.

7. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY GROUNDING FOR THE BUILDING AS REQUIRED BY THE NEC.

8. RECEPTACLES MOUNTED IN THE BASEPLATE OF CASE. ROUTE ELECTRICAL FROM CASE ROUGH-IN LOCATION. COORDINATE MOUNTING OF RECEPTACLE WITH CASE SUPPLIER AND REFRIGERATION CONTRACTOR.

9. ALL 120 VOLT RECEPTACLES IN FOOD PREP AREAS SHALL BE GFI TYPE.

10. SEE DRAWING PE1.1 FOR DIMENSIONED ELECTRICAL FLOOR STUBUP PLAN.

11. ALL RECEPTACLES SHALL BE GROUNDED.

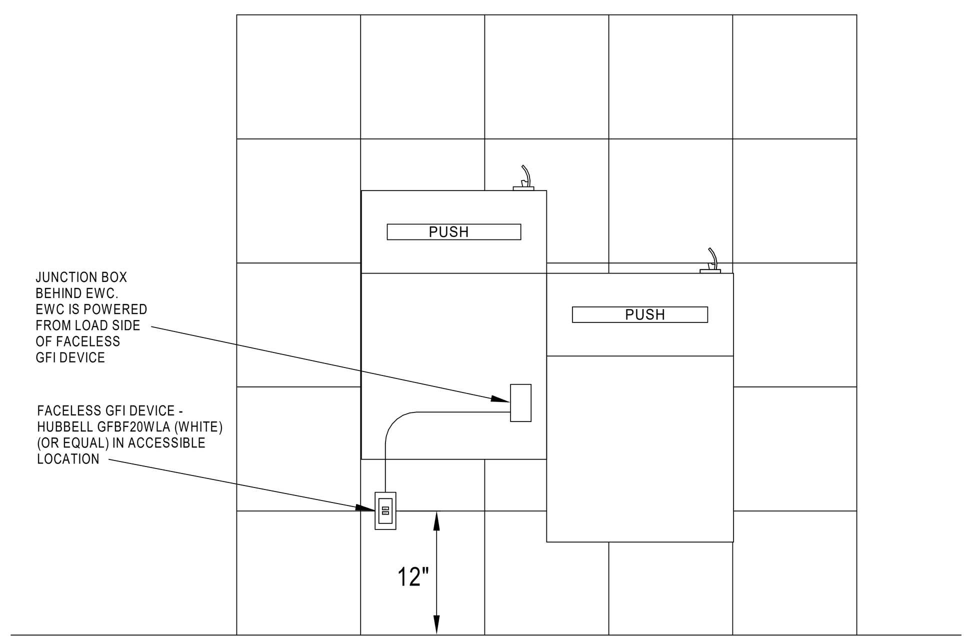
12. ALL HEIGHTS SHOWN ARE TO CENTER OF BOX UNLESS NOTED OTHERWISE.

13. COLUMN RECEPTACLE - MOUNT RECEPTACLE ON COLUMN 12" AFF. STUB CONDUIT UP ON BACK SIDE OF COLUMN. PAINT TO MATCH COLUMN.

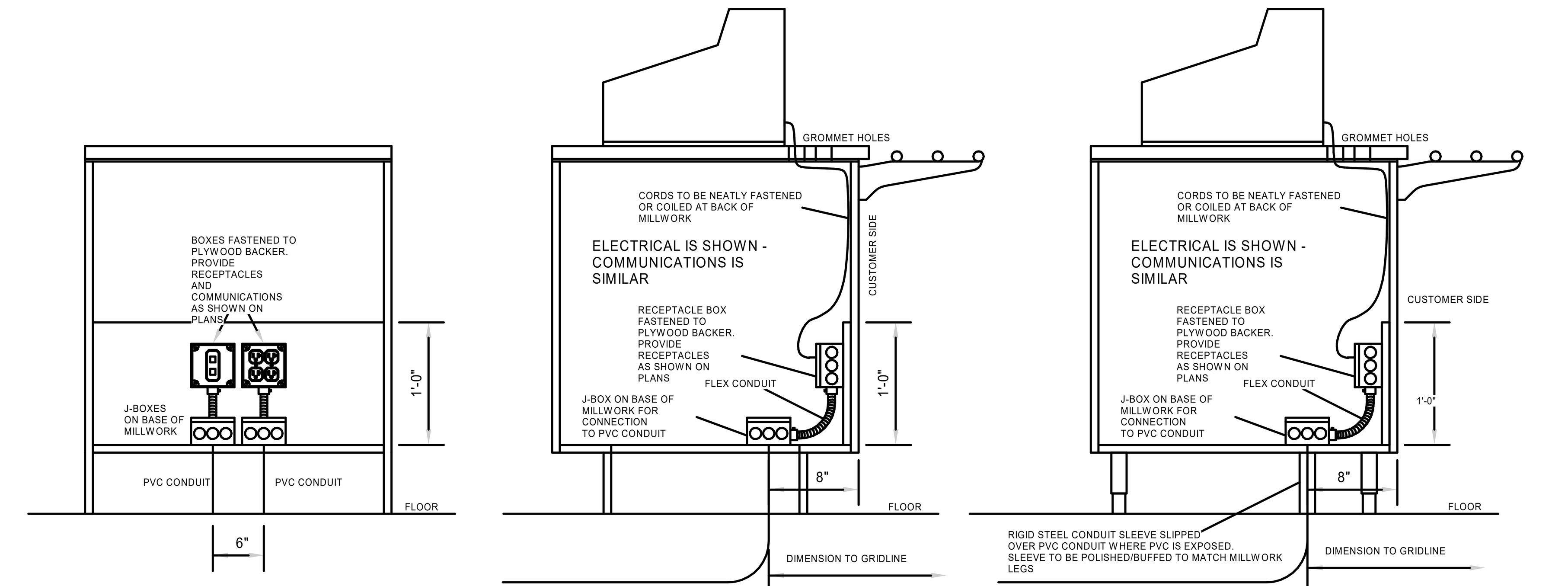
14. ELECTRICIAN IS TO PROVIDE A SINGLE SPEED FAN SWITCH FOR SEAFOOD DEPARTMENT EXHAUST FAN AND BAKERY AROMA FAN. SWITCH IS TO HAVE THERMAL OVERLOAD AND A PILOT LIGHT.

15. COMPACTOR (3 PHASE) - PROVIDE WEATHERPROOF DISCONNECT SWITCH WITH TIME DELAY FUSES. SEE INSTALLATION INSTRUCTIONS FOR PROPER WIRING. VERIFY ELECTRICAL REQUIREMENTS.

16. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL POWER CORDS AT ALL EQUIPMENT. REFER TO EQUIPMENT BOOKLET FOR ALL EQUIPMENT REQUIRING CORDS OR HARD WIRED CONNECTIONS.

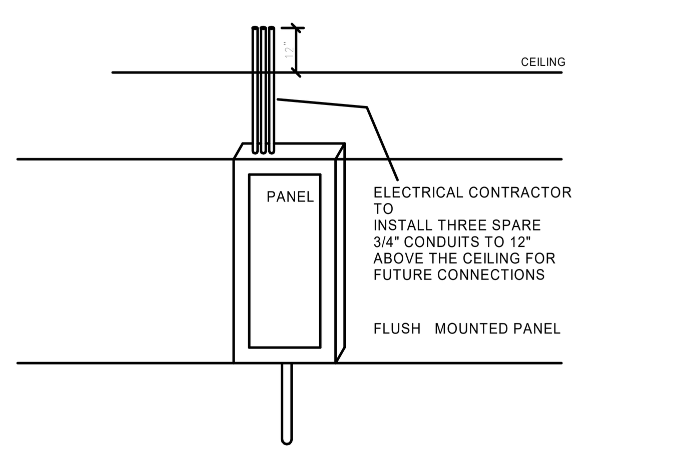


10 / E0.0A — ELECTRICAL WATER COOLER DETAIL
SCALE: NONE

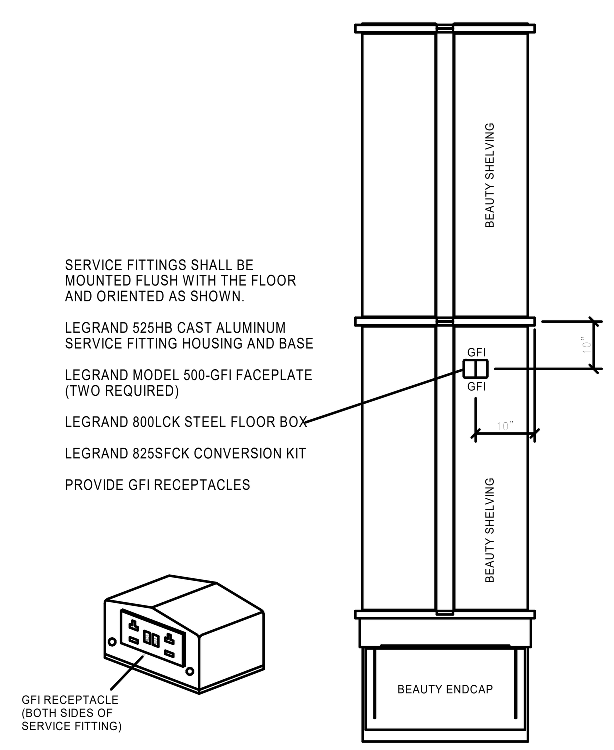


(MILLWORK INTERIOR ELEVATION) (MILLWORK WITH TOE KICK) (MILLWORK WITH LEGS)

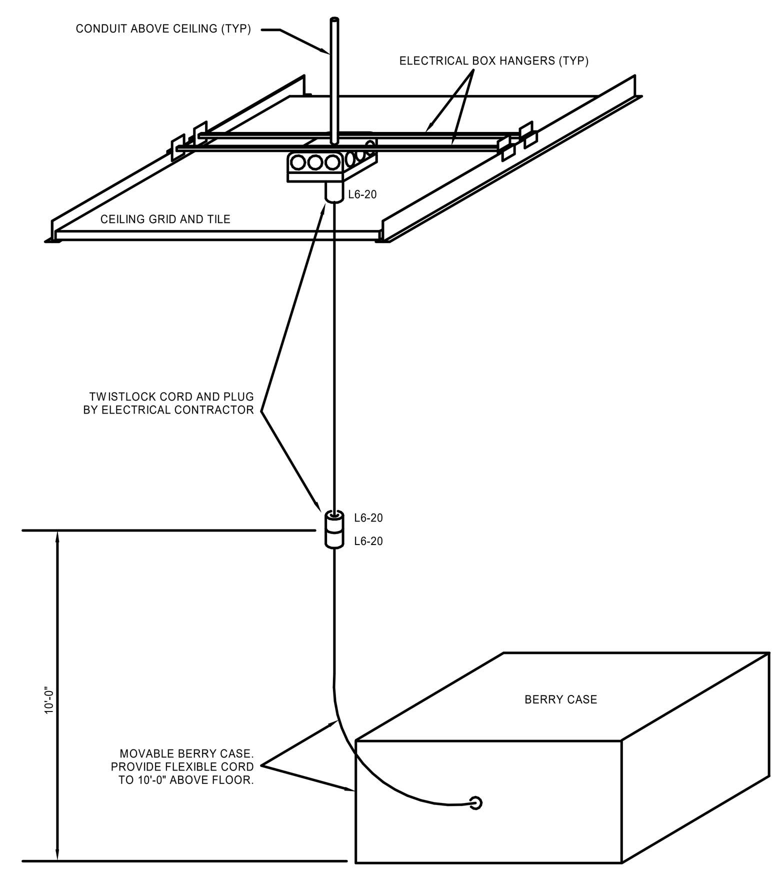
9 / E0.0A — TYPICAL ELECTRICAL WORK IN MILLWORK DETAILS
SCALE: NONE



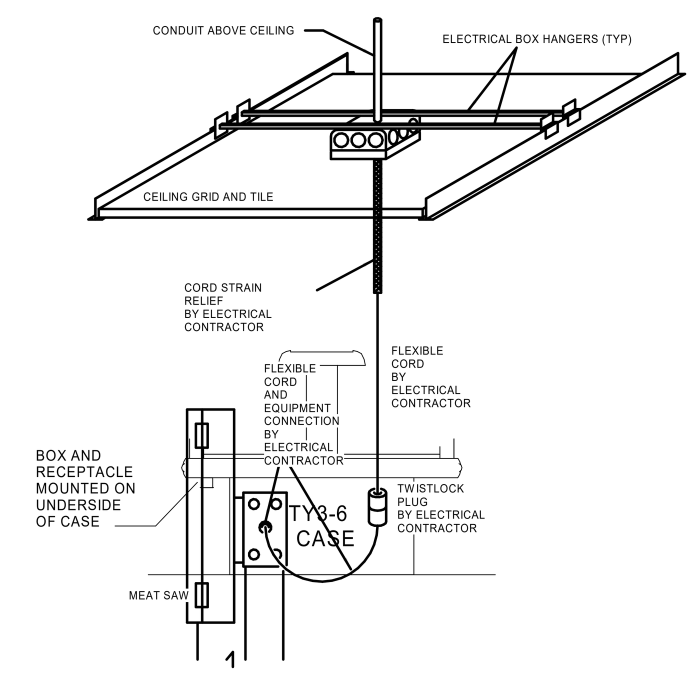
8 / E0.0A — FLUSH MOUNTED PANEL DETAIL
SCALE: NONE



TYPE 'E'
7 / E0.0A — BEAUTY AISLE RECEPTACLE DETAIL
SCALE: NONE



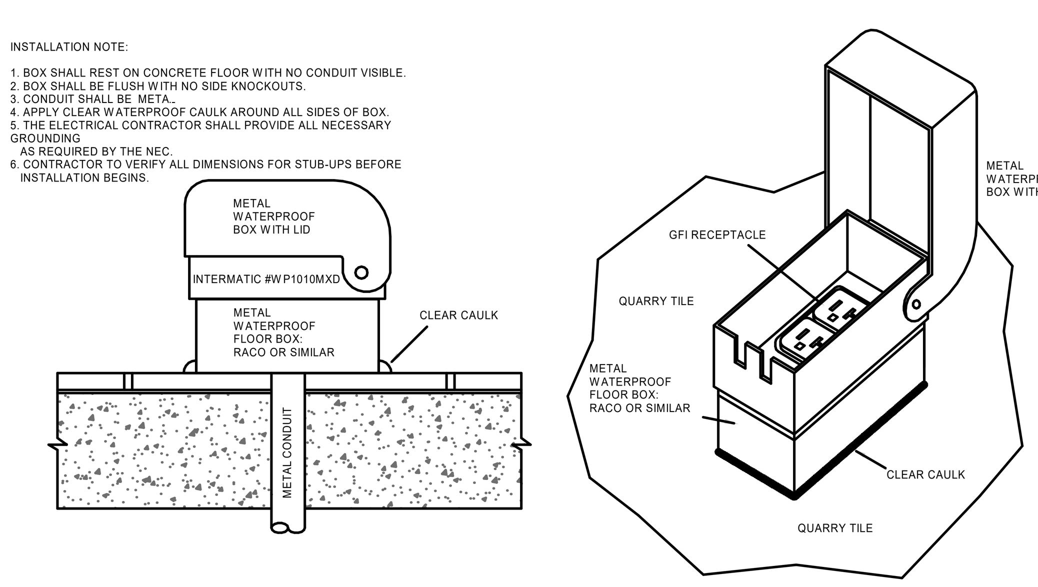
6 / E0.0A — BERRY CASE ELECTRICAL DETAIL
SCALE: NONE



5 / E0.0A — PRODUCE CASE DETAIL
SCALE: NONE

INSTALLATION NOTE:

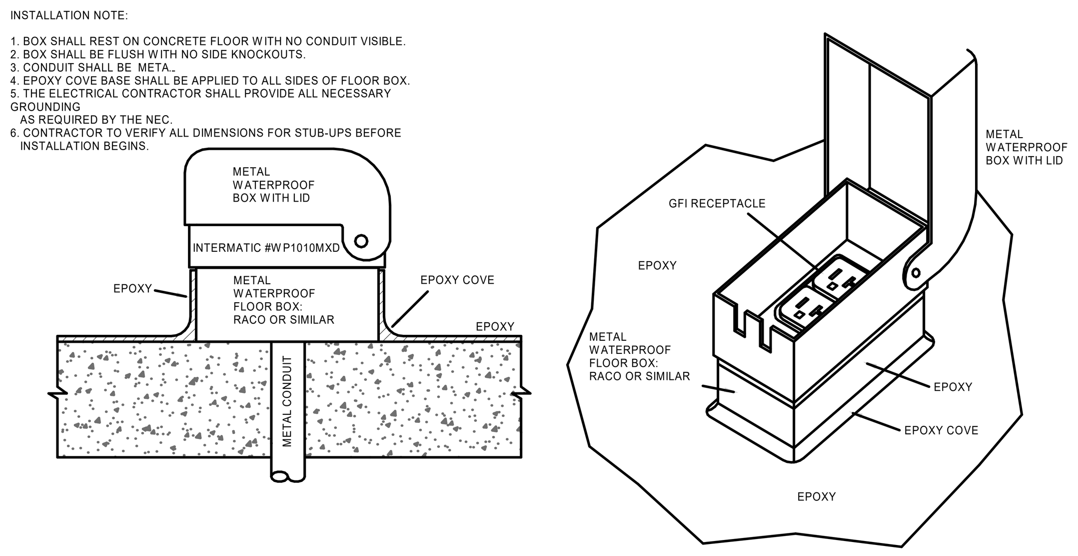
1. BOX SHALL REST ON CONCRETE FLOOR WITH NO CONDUIT VISIBLE.
2. BOX SHALL BE FLUSH WITH NO SIDE KNOCKOUTS.
3. CONDUIT SHALL BE META..
4. APPLY CLEAR WATERPROOF CAULK AROUND ALL SIDES OF BOX.
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY GROUNDING AS REQUIRED BY THE NEC.
6. CONTRACTOR TO VERIFY ALL DIMENSIONS FOR STUB-UPS BEFORE INSTALLATION BEGINS.



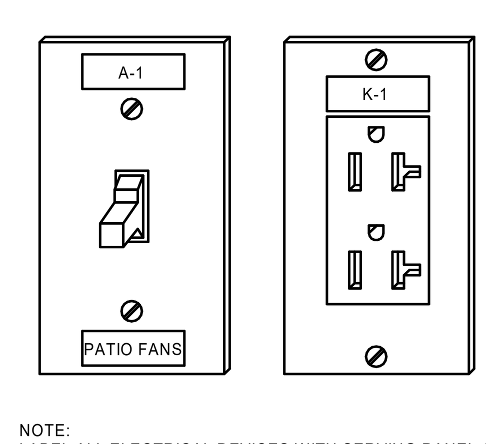
TYPE 'M'
4 / E0.0A — ELECTRICAL FLOOR BOX DETAIL - QUARRY TILE FLOOR
SCALE: NONE

INSTALLATION NOTE:

1. BOX SHALL REST ON CONCRETE FLOOR WITH NO CONDUIT VISIBLE.
2. BOX SHALL BE FLUSH WITH NO SIDE KNOCKOUTS.
3. CONDUIT SHALL BE META..
4. EPOXY COVE BASE SHALL BE APPLIED TO ALL SIDES OF FLOOR BOX.
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY GROUNDING AS REQUIRED BY THE NEC.
6. CONTRACTOR TO VERIFY ALL DIMENSIONS FOR STUB-UPS BEFORE INSTALLATION BEGINS.

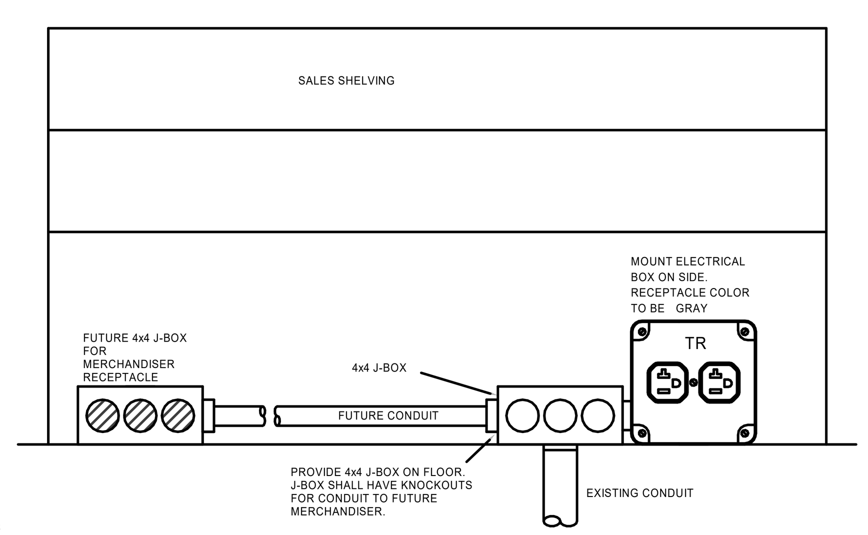


TYPE 'M'
3 / E0.0A — ELECTRICAL FLOOR BOX DETAIL - EPOXY FLOOR
SCALE: NONE



NOTE:
LABEL ALL ELECTRICAL DEVICES WITH SERVING PANEL AND CIRCUIT. PROVIDE LABEL ON BOTH THE OUTSIDE AND INSIDE THE COVERPLATE. LABEL SHALL BE CLEAR MYLAR P-TOUCH TYPE. LABEL TOGGLE SWITCHES WITH FEATURE CONTROLLED.

2 / E0.0A — ELECTRICAL DEVICE LABEL REQUIREMENTS
SCALE: NONE



TYPE 'C' TR
1 / E0.0A — SALES SHELVING RECEPTACLE INSTALLATION DETAIL
SCALE: NONE
(APPLIES TO EXISTING STORES WITHOUT MAJOR FLOOR REMOVAL)

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

PROFESSIONAL SEAL
STATE OF MISSOURI — DEAN WAY CHANDLER — NUMBER PE-2017036652 — PROFESSIONAL ENGINEER
Oct 23 2020
DEAN W. CHANDLER
LICENSE # PE-2017036652

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935
HyVee® EMPLOYEE OWNED

NORTH PLAN NORTH

ELECTRICAL DETAILS

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY: HENDERSON	DATE: 10/19/2020
SCALE: AS NOTED	JOB NUMBER: 62930547

SHEET: E0.0A

DEAN W. CHANDLER
10/23/2020 9:16:56 AM

EQUIPMENT ELECTRICAL LISTING SCHEDULE

(NOT ALL EQUIPMENT LISTED MAY APPLY TO THIS PROJECT)

EQUIPMENT MANUFACTURER	MODEL # AND DESCRIPTION	LOCATION	VOLTAGE	MCA	MOCP	DEVICE	REMARKS	NOTES
GLASTENDER	BAR EQUIPMENT	BAR	120V				FIELD VERIFY ELECTRICAL REQUIREMENTS	REFER TO MANUF. SHOP DRAWINGS
SHARP	80" TV, 90" TV	BAR AND DINING	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	VERIFY MOUNTING HEIGHT
SAMSUNG	TV (all sizes except 80" and 90")	BAR AND DINING	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	VERIFY MOUNTING HEIGHT
REMOTE TECHNOLOGIES	TOUCH PAD	BAR AND DINING	LOW VOLTAGE	---	---	---	POWER FROM CAT6 COMMUNICATION CABLE	VERIFY MOUNTING HEIGHT
TRUE	GDM-7	DINING	120V	4.5	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	SODA TOWER	DINING	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	POS AND PRINTER	DINING	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	PRINTER	DINING	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	CURBSIDE-TO-GO MONITOR	DINING	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
WILBUR CURTIS	COFFEE BREWER	DINING	208V-1PH	31.7	50A-2P	L14-50	CORD AND PLUG FURNISHED WITH UNIT	
	TEA	DINING	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	INTERIOR & EXTERIOR MENU DISPLAY	DINING	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	PROVIDE SWITCH; SEE MOUNTING
COKE FREESTYLE w/	FREESTYLE	DINING	120V	12.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	PLACE RECEPT WITHIN 4' OF UNIT
SCOTSMAN CUBER	C0722MA-32 AIR COOLED CUBER	DINING	208V-1PH	11.0	20A-2P	6-20	E.C. TO PROVIDE CORD TO UNIT	AIR COOLED
TRAULSEN	UPT4812 REFRIGERATED UNIT	KITCHEN	120V	6.3	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	UPT6012 REFRIGERATED UNIT	KITCHEN	120V	6.3	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	TE036HT REFRIGERATED UNIT	KITCHEN	120V	6.7	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	TE048HT REFRIGERATED UNIT	KITCHEN	120V	6.7	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	TE060HT REFRIGERATED UNIT	KITCHEN	120V	6.7	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	TE072HT REFRIGERATED UNIT	KITCHEN	120V	6.7	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	TE096HT REFRIGERATED UNIT	KITCHEN	120V	12.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	TS048HT REFRIGERATED UNIT	KITCHEN	120V	9.8	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	TS066HT REFRIGERATED UNIT	KITCHEN	120V	9.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	TS072HT REFRIGERATED UNIT	KITCHEN	120V	9.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	TS090HT REFRIGERATED UNIT	KITCHEN	120V	9.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	TU072HT REFRIGERATED UNIT	KITCHEN	120V	6.3	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	TU100HT REFRIGERATED UNIT	KITCHEN	120V	6.3	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	G10000 series REFRIGERATOR	KITCHEN	120V	7.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	G20000 series REFRIGERATOR	KITCHEN	120V	8.5	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	G30000 series REFRIGERATOR	KITCHEN	120V	10.9	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	G11000 series REFRIGERATOR	KITCHEN	120V	7.5	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	G21000 series REFRIGERATOR	KITCHEN	120V	9.6	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	G12000 series REACH-IN FREEZER	KITCHEN	120V	9.5	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	G22000 series REACH-IN FREEZER	KITCHEN	120V	11.2	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	G31000 series REACH-IN FREEZER	KITCHEN	208V-1PH	11.0	20A-2P	L14-20	CORD AND PLUG FURNISHED WITH UNIT	4 WIRE
TRAULSEN	TBC-13 CHILLER	KITCHEN	208V-1PH	13.4	20A-2P	L14-20	CORD AND PLUG FURNISHED WITH UNIT	
HOBART	CL44e Dishwasher/15 Kw Tank Htr 30 Kw Booster Heater	KITCHEN	208V-3PH 208V-3PH	55.0 83.9	70A-3P 90A-3P	--- ---	HARD WIRED, NEMA 3R DISCONNECT HARD WIRED, NEMA 3R DISCONNECT	PROVIDE WIRING OF SWITCH; SEE SHOP DRAWINGS FOR ROUGH-IN DIMS.
HOBART	AM15 Dishwasher/Booster Heater (with single point connection)	KITCHEN	208V-3PH	45.4	60A-3P	---	HARD WIRED, NEMA 3R DISCONNECT	PROVIDE WIRING OF SWITCH
SALVAJOR	DISHWASHER DISPOSAL	KITCHEN	208V-3PH	.	20A-3P	---	HARD WIRED, NEMA 3R DISCONNECT	PROVIDE WIRING OF SWITCH
HOBART	1HG85 GAS FRYER	KITCHEN	120V	1.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
HOBART	2912 SLICER	KITCHEN	120V	1/2 hp	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	1/2 hp MOTOR
HOBART	HTi-7LS SCALE	KITCHEN	120V	1.42	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
VULCAN	FIRB46 SALAMANDER BROILER	KITCHEN	---	---	---	---	NO ELECTRICAL	
VULCAN	2VK45F GAS FRYER	KITCHEN	120V	1.0	20A-1P	5-20	HARD WIRED	SHUNT TRIP
VULCAN	900 SERIES GAS GRIDDLE	KITCHEN	120V	1.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
VULCAN	V2B18 2 BURNER GAS RANGE	KITCHEN	---	---	---	---	NO ELECTRICAL	GAS SHUTOFF VALVE TO F.A. PANEL
VULCAN	V4B36 4 BURNER GAS RANGE	KITCHEN	120V	4.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
VULCAN	V6B36B 6 BURNER GAS RANGE/OVEN	KITCHEN	120V	4.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
VULCAN	SG4D CONVECTION OVEN	KITCHEN	120V	9.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
VULCAN	VCCB36 36" CHARBROILER	KITCHEN	---	---	---	---	NO ELECTRICAL	
VULCAN	VCCB47 47" CHARBROILER	KITCHEN	---	---	---	---	NO ELECTRICAL	
VULCAN	CHARGRILLE/RANGE	KITCHEN	120V	4.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
RATIONAL	MODEL 62E COMBI-OVEN	KITCHEN	208V-3PH	61.4	80A-3P	---	HARD WIRED; CONCEALED CONDUIT	SHUNT TRIP; ALTECH KEM380UL
RATIONAL	MODEL 102E COMBI-OVEN	KITCHEN	208V-3PH	101.3	125A-3P	---	HARD WIRED; CONCEALED CONDUIT	SHUNT TRIP; ALTECH KEM3125UL
HENNY PENNY	HMR 103F	KITCHEN	208V-1PH	18.0	30A-2P	L14-30	CORD AND PLUG FURNISHED WITH UNIT	
HENNY PENNY	HMR 105F	KITCHEN	208V-1PH	26.9	50A-2P	L14-50	CORD AND PLUG FURNISHED WITH UNIT	
HENNY PENNY	HMR 107F	KITCHEN	208V-1PH	38.0	50A-2P	L14-50	CORD AND PLUG FURNISHED WITH UNIT	
HENNY PENNY	HEC 103	KITCHEN	208V-1PH	13.5	20A-2P	6-20	CORD AND PLUG FURNISHED WITH UNIT	
HENNY PENNY	HEC 104	KITCHEN	208V-1PH	18.9	30A-2P	6-30	CORD AND PLUG FURNISHED WITH UNIT	
HENNY PENNY	HEC 123	KITCHEN	208V-1PH	9.5	20A-2P	6-20	CORD AND PLUG FURNISHED WITH UNIT	
HENNY PENNY	HEC 124	KITCHEN	208V-1PH	13.5	20A-2P	6-20	CORD AND PLUG FURNISHED WITH UNIT	
HENNY PENNY	EPC-400	KITCHEN	208V-1PH	22.0	30A-2P	6-30	CORD AND PLUG FURNISHED WITH UNIT	
HENNY PENNY	SCD-6 CHICKEN ROTISSERIE	KITCHEN	208V-1PH	11.0	20A-2P	6-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
HENNY PENNY	SCD-8 CHICKEN ROTISSERIE	KITCHEN	208V-1PH	11.0	20A-2P	6-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
HENNY PENNY	SCR-8 CHICKEN ROTISSERIE	KITCHEN	208V-3PH	33.6	50A-3P	15-50	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
STRUCTURAL CONCEPTS	HOT ITALIAN CASE	KITCHEN	208V-1PH	69.0	80A-2P	VERIFY	FIELD VERIFY ELECTRICAL REQUIREMENTS	1-1/2" STUBUP IN PEDESTAL
STRUCTURAL CONCEPTS	HOT KITCHEN CASE	KITCHEN	208V-1PH	69.0	80A-2P	VERIFY	FIELD VERIFY ELECTRICAL REQUIREMENTS	1-1/2" STUBUP IN PEDESTAL
HARDT	BLAZE ROTISSERIE	KITCHEN	120V	15.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
HARDT	INFERNO WG ROTISSERIE	KITCHEN	120V	7.5	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
ALTO-SHAAM	AR-7H ROTISSERIE	KITCHEN	208V-1PH	8.5	20A-2P	6-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
ALTO-SHAAM	750-TH-II COOK AND HOLD OVEN	KITCHEN	120V	14.2	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
WOODSTONE	PIZZA OVEN	KITCHEN	120V	1.1	20A-1P	---	HARD WIRED	SHUNT TRIP
HATCO	TQ-800H TOASTER	KITCHEN	208V-1PH	16.0	20A-2P	6-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
HATCO	DL-500-RTL HEAT LAMPS	KITCHEN	120V	.	20A-1P	---	HARD WIRED; 250 WATTS PER LAMP	SWITCH LOCATED IN KITCHEN
HATCO	GLO-RAY HEAT RAIL	KITCHEN	120V	12.8	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
HATCO	FSHC-7W1-EE HOLDING CABINET	KITCHEN	120V	9.3	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
WILBUR CURTIS	CAPPUCCINO	KITCHEN	120V	15.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
WILBUR CURTIS	COFFEE BREWER	KITCHEN	208V-1PH	31.7	50A-2P	L14-50	CORD AND PLUG FURNISHED WITH UNIT	
CORNELIUS	CCM1030 ICE CUBER / 0630R	KITCHEN	208V-1PH	13.8	20A-2P	6-20	PROVIDE CORD AND PLUG	
CORNELIUS	WCC-700A ICE MAKER	KITCHEN	120V	3/4 hp	20A-1P	---	HARD WIRED	
GLOBE	SP5 POWER MIXER	KITCHEN	120V	6.7	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	1/2 hp MOTOR
GLOBE	SP20 MIXER	KITCHEN	120V	10.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	3/4 hp MOTOR
ZUMEX	PODIUM JUICER	KITCHEN	120V	2.7	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
ZUMEX	MULTIFRUIT JUICER	KITCHEN	120V	7.3	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
ACCUTEMP	E6 STEAMER	KITCHEN	208V-3PH	28.0	30A-3P	L15-30	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
SOUTHERN PRIDE	SC-200SM SMOKER	KITCHEN	208V-1PH	24.0	30A-2P	6-30	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP; 4 WIRE
SOUTHERN PRIDE	SRG-400 SMOKER	KITCHEN	120V	15.0	20A-1P	5-20	PROVIDE CORD AND PLUG	SHUNT TRIP; CORD PROVIDED BY
AMANA	ACE14 CONVECTION OVEN	KITCHEN	208V-1PH	16.0	20A-2P	6-20	CORD AND PLUG FURNISHED WITH UNIT	
AMANA	MICROWAVE	KITCHEN	120V	8.3	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
AMTECKO	SOUP BAR	KITCHEN	208V-1PH	.	VERIFY	VERIFY	FIELD VERIFY ELECTRICAL REQUIREMENTS	
LAKESIDE	PLATE LOWERATOR	KITCHEN	120V	3.75	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
BKI	BLF-FC AUTOLIFT FRYER	KITCHEN	480V-3PH	.	30A-3P	L22-30	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
TRUE	GDM-30	KITCHEN	120V	2.9	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRUE	T-35G	KITCHEN	120V	7.3	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TURBOCHEF	HIGH H	KITCHEN	208V-1PH	24.0	30A-2P	6-30	CORD AND PLUG FURNISHED WITH UNIT	
TURBOCHEF	DOUBLE BATCH	KITCHEN	208V-1PH	44.0	50A-2P	6-50	CORD AND PLUG FURNISHED WITH UNIT	
CRESCOR	121-PH 1818-D	KITCHEN	120V	16.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
BRADLEY	BAG-IN-A-BOX	KITCHEN	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
WISCO	SHRINK WRAPPER	KITCHEN	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
APW WYOTT	W-43V HOT WELL	KITCHEN	120V	12.5	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
IMPINGER	1132-00-A PIZZA OVEN	KITCHEN	208V-3PH	28.0	40A-3P	---	HARD WIRED	SHUNT TRIP
ROBOT COUPE	PROCESSOR	KITCHEN	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
PIPER	OP-3 PROOFER	KITCHEN	208V-1PH	40.0	50A-2P	---	HARD WIRED	
GALILEO	SHRINK WRAPPER	KITCHEN	208V-1PH	14.0	20A-2P	6-20	PROVIDE 10'-0" SO CORD WITH MATCHING PLUG	
AVERY BERKEL	6115-B23 PIZZA SCALE	KITCHEN	120V	1.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
LOCKWOOD	CA71-PFIN-CDD-R HOLDING CABINET	KITCHEN	120V	15.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
SILESIA-VELOX	PANINI CG-1	KITCHEN	208V-1PH	11.0	20A-2P	6-20	CORD AND PLUG FURNISHED WITH UNIT	
SHELLEYSTEEL	SH-3 HOT CASE	KITCHEN	208V-1PH	20.0	30A-2P	14-30	CORD AND PLUG FURNISHED WITH UNIT	
SHELLEYSTEEL	SH-4 HOT CASE	KITCHEN	208V-1PH	26.0	50A-2P	14-50	CORD AND PLUG FURNISHED WITH UNIT	
TOWN	MBR-42 BBQ RANGE	KITCHEN	---	---	---	---	NO ELECTRICAL	GAS SHUTOFF VALVE TO F.A. PANEL
TOWN	MBR-72C BBQ RANGE	KITCHEN	---	---	---	---	NO ELECTRICAL	GAS SHUTOFF VALVE TO F.A. PANEL
EVO	AFFINITY 30Ge DROP-IN GAS	KITCHEN	120V	1.5	20A-1P	---	HARD WIRED	SHUNT TRIP
	MILK	KITCHEN	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	JUICE MACHINE	KITCHEN	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	CURBSIDE-TO-GO MONITOR	KITCHEN	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	POS AND PRINTER	KITCHEN	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	PRINTER	KITCHEN	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	FLYTRAP	KITCHEN	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
SAMSUNG	40" LED DIGITAL MENU DISPLAY	KITCHEN	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
SAMSUNG	55" LED DIGITAL MENU DISPLAY	KITCHEN	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	

EQUIPMENT ELECTRICAL LISTING SCHEDULE (continued)

(NOT ALL EQUIPMENT LISTED MAY APPLY TO THIS PROJECT)

EQUIPMENT MANUFACTURER	MODEL # AND DESCRIPTION	LOCATION	VOLTAGE	MCA	MOCP	DEVICE	REMARKS	NOTES
HOBART	1HG85 GAS FRYER	ASIAN KITCHEN	120V	1.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
HOBART	1VK45F GAS FRYER	ASIAN KITCHEN	120V	5.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
HOBART	2VK45F GAS FRYER	ASIAN KITCHEN	120V	5.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
HOBART	HTi-LS SCALE	ASIAN KITCHEN	120V	1.42	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
STRUCTURAL CONCEPTS	HOT ASIAN CASE	ASIAN KITCHEN	208V-1PH	69.0	80A-2P	VERIFY	FIELD VERIFY ELECTRICAL REQUIREMENTS	1-1/2" STUBUP IN PEDESTAL
TOWN	RICE COOKER	ASIAN KITCHEN	120V	14.7	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
TOWN	4 HOLE WOK	ASIAN KITCHEN	---	---	---	---	NO ELECTRICAL	
TOWN	RICE WARMER	ASIAN KITCHEN	120V	0.8	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	TS090HT	ASIAN KITCHEN	120V	9.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	G10000 series REFRIGERATOR	ASIAN KITCHEN	120V	7.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
LAKESIDE	PLATE LOWERATOR	ASIAN KITCHEN	120V	3.75	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	PRINTER	ASIAN KITCHEN	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
PROLUXE	PROGRILL CSD1515A TORTILLA PRESS	HISPANIC KITCHEN	120V	18.3	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
STRUCTURAL CONCEPTS	HOT HISPANIC CASE	HISPANIC KITCHEN	208V-1PH	69.0	80A-2P	VERIFY	FIELD VERIFY ELECTRICAL REQUIREMENTS	1-1/2" STUBUP IN PEDESTAL
SHELLEYSTEEL	SH-3 HOT CASE	HISPANIC KITCHEN	208V-1PH	20.0	30A-2P	14-30	CORD AND PLUG FURNISHED WITH UNIT	
SHELLEYSTEEL	SH-4 HOT CASE	HISPANIC KITCHEN	208V-1PH	26.0	50A-2P	14-50	CORD AND PLUG FURNISHED WITH UNIT	
SHELLEYSTEEL	SCSC-60-B COLD CASE	HISPANIC KITCHEN	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
SHELLEYSTEEL	SCSC-74-B COLD CASE	HISPANIC KITCHEN	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
DOUGHXPRESS	D-TXM-18 MANUAL DOUGH PRESS	HISPANIC KITCHEN	208V-1PH	12.9	20A-2P	6-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
DOUGHXPRESS	D-TXM-22 MANUAL DOUGH PRESS	HISPANIC KITCHEN	208V-1PH	12.9	20A-2P	6-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
TRAULSEN	UPT6012	DELI	120V	6.3	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	TU072HT	DELI	120V	6.3	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	TU100HT	DELI	120V	6.3	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	TS072HT	DELI	120V	9.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
HEAT SEAL	102A, 107A WRAPPER	DELI	120V	6.5	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
HOBART	HTi-7LS SCALE	DELI	120V	1.42	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
HOBART	2912 SLICER	DELI	120V	3.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
BERKEL	330M PROSCIUTTO FLYWHEEL SLICER	DELI	---	---	---	---	NO ELECTRICAL	
HOBART	HTi-LS SCALE	PRODUCE	120V	1.42	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
HEAT SEAL	102-A WRAPPER	PRODUCE	120V	6.5	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	PRODUCE MISTER	PRODUCE	120V	.	20A-1P	VERIFY	FIELD VERIFY ELECTRICAL REQUIREMENTS	
MARINELAND	LOBSTER TANK	SEAFOOD	120V	15.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	GENERATOR CKT (NOT ON UPS)
STRUCTURAL CONCEPTS	MP4348RSS OASIS ICE TABLE	SEAFOOD	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
HOBART	HTi-7LS SCALE	SEAFOOD	120V	1.42	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
HOBART	MG-1532 GRINDER	MEAT	208V-3PH	7.5 hp	30A-3P	L15-30	CORD AND PLUG FURNISHED WITH UNIT	
HOBART	HWS-4 HAND WRAP STATION	MEAT	120V	8.5	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
HOBART	6614 SAW	MEAT	208V-3PH	3 hp	20A-3P	TWIST-LOCK	HARD WIRED AT CEILING - SEE DETAIL	FLEXIBLE CORD
HOBART	403 TENDERIZER	MEAT	120V	1/2 hp	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
HOBART	HTi-7LS SCALE	MEAT	120V	1.42	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
HOBART	HTiP-LS PRINTER	MEAT	120V	1.42	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
HUSSMAN	AB36-5 AGED BEEF CASE	MEAT	120V	0.61	20A-1P	---	HARD WIRED	
BIRO	PATTY MACHINE	MEAT	120V	7.9	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
VULCAN	VCCB25 25" CHARBROILER	MEAT	---	---	---	---	NO ELECTRICAL	
VULCAN	36S-2B24CBN CHARGRILLE/RANGE	MEAT	120V	4.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
OLDE TYME	PN-2 NUT GRINDER	HEALTHMARKET	208V-1PH	.	20A-2P	6-20	CORD AND PLUG FURNISHED WITH UNIT	
HOBART	HTi-LS SCALE	HEALTHMARKET	120V	1.42	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRUE	GDM-49	WINE AND SPIRITS	120V	7.3	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
BARKER	S47-30 MERCHANDISER	WINE AND SPIRITS	120V	.	30A-1P	---	HARD WIRED	
	WINE CELLAR	WINE AND SPIRITS	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	RACK	WINE AND SPIRITS	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	GENERATOR CKT (ON UPS); 4PLEX
GOLD MEDAL PROD. CO.	ODYSSEY POPPER	SWEETS SHOP	208V-1PH	24.0	30A-2P	L14-30	CORD AND PLUG FURNISHED WITH UNIT	
GOLD MEDAL PROD. CO.	CARAMEL CORN	SWEETS SHOP	208V-1PH	14.2	20A-2P	L14-20	CORD AND PLUG FURNISHED WITH UNIT	
GOLD MEDAL PROD. CO.	CHEESE CORN TUMBLER	SWEETS SHOP	120V	3.1	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
GOLD MEDAL PROD. CO.	CHEESE WARMER	SWEETS SHOP	120V	2.7	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
GROEN	FUDGE KETTLE	SWEETS SHOP	120V	1.8	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
SHARP	80" TV	SWEETS SHOP	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	VERIFY MOUNTING HEIGHT
TRAULSEN	G22000 series REACH-IN FREEZER	SWEETS SHOP	120V	11.2	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	TU044HT U.C. REFRIGERATED UNIT	SWEETS SHOP	120V	6.3	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
AMANA	MICROWAVE	SWEETS SHOP	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	TU100HT REFRIGERATED UNIT	SIMPLE FIX ROOM	120V	6.3	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
ZUMMO	Z40 JUICER	JUICE ISLAND	120V	2.4	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
NUTRIFASTER	N450 JUICER	JUICE ISLAND	120V	10.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	ULT72 FREEZER	CUSTOM CUT	120V	8.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
VITAMIX	BLENDER	CUSTOM CUT	120V	15.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
ZUMEX	JUICER	CUSTOM CUT	120V	7.3	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
CITRO CASA	8000XB	CUSTOM CUT	120V	2.4	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
SCOTSMAN	CU0920MA-1 CUBER	CUSTOM CUT	120V	7.6	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
HOBART	SCALE	CUSTOM CUT	120V	1.42	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
HEAT SEAL	WRAPPER	CUSTOM CUT	120V	6.1	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	TU072HT REFRIGERATED UNIT	CUSTOM CUT	120V	6.3	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	G11000 series REFRIGERATOR	CUSTOM CUT	120V	7.5	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRAULSEN	G21000 series REFRIGERATOR	CUSTOM CUT	120V	7.5	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
HILL-PHOENIX	CWC-3R CASE	CUSTOM CUT	120V	9.6	20A-1P	---	HARD WIRED	
HOWE	ICE FLAKER	BACKROOM	208V-1PH	10.0	20A-2P	VERIFY	FIELD VERIFY CONNECTION	POWER FROM RACK or PANEL - VERIFY
DARLING	GREASE CADDY	BACKROOM	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TOYOTA	PALLET JACK BATTERY CHARGER	BACKROOM	208V-1PH	.	20A-2P	6-20	CORD AND PLUG FURNISHED WITH UNIT	
(varies)	WATER SOFTENER	BACKROOM	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	4PLEX
(varies)	RO EQUIPMENT	BACKROOM	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	4PLEX
NORDOCK	MODEL ND HYDRAULIC DOCK	BACKROOM	120V	.	20A-1P	---	HARD WIRED	SEE DETAIL
	FLOOR MACHINE	BACKROOM	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	FLYTRAP	BACKROOM	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	RACK (@ SCAN ROOM)	BACKROOM	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	GENERATOR CKT (ON UPS); 4PLEX

EQUIPMENT ELECTRICAL LISTING SCHEDULE (continued)

(NOT ALL EQUIPMENT LISTED MAY APPLY TO THIS PROJECT)

EQUIPMENT MANUFACTURER	MODEL # AND DESCRIPTION	LOCATION	VOLTAGE	MCA	MOCP	DEVICE	REMARKS	NOTES
ABS	ABSEDO-283 3 DECK BAKERY OVEN	BAKERY	208V-3PH	62.0	80A-3P	---	HARD WIRED	SLOW BLOW BREAKER
ABS	ABSBRD-36-4 BUN ROUNDER	BAKERY	208V-3PH	4.0	20A-3P	L15-20	CORD AND PLUG FURNISHED WITH UNIT	SLOW BLOW BREAKER
ABS	ABSFBM-80 80 QT MIXER	BAKERY	208V-3PH	20.0	30A-3P	L15-30	CORD AND PLUG FURNISHED WITH UNIT	SLOW BLOW BREAKER
BAXTER	OV500G2 BAKERY OVEN	BAKERY	208V-3PH	.	20A-3P	---	HARD WIRED	
BAXTER	BAKERY OVEN (CONTROLS)	BAKERY	120V	.	20A-1P	---	HARD WIRED	DEDICATED ELECTRICAL CIRCUIT
BAXTER	PW2E 60.5" DIAMETER PROOFER	BAKERY	208V-3PH	36.0	50A-3P	---	HARD WIRED	PROVIDE EXTRA NEUTRAL WIRE
BAXTER	PROOFER (CONTROLS)	BAKERY	120V	.	20A-1P	---	HARD WIRED	DEDICATED ELECTRICAL CIRCUIT
BAXTER	OV450W 3 DECK OVEN	BAKERY	208V-3PH	(3) 22.5	(3) 30A-3P	(3) L15-30	(3) SEPARATE FLEXIBLE CORDS AND PLUGS	MOUNT TWIST-LOCK RECEPTS IN CEILING
BAXTER	BBS500 BREAD SLICER	BAKERY	120V	6.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
HOBART	HL-800-1 80 QT MIXER	BAKERY	208V-3PH	.	30A-3P	VERIFY	FIELD VERIFY ELECTRICAL CONNECTION	
HOBART	M802 80 QT MIXER	BAKERY	208V-3PH	.	30A-3P	VERIFY	FIELD VERIFY ELECTRICAL CONNECTION	
HOBART	HTi-7LS SCALE	BAKERY	120V	1.42	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
HOBART	HTiP-LS PRINTER	BAKERY	120V	1.42	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
STRUCTURAL CONCEPTS	HVK56 CASE	BAKERY	120V	1.1	20A-1P		FIELD VERIFY ELECTRICAL REQUIREMENTS	
STRUCTURAL CONCEPTS	HVK56R CASE	BAKERY	120V	1.1	20A-1P	---	FIELD VERIFY ELECTRICAL REQUIREMENTS	
LVO	SHEETER	BAKERY	120V	7.5	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
LVO	BUN ROUNDER	BAKERY	208V-3PH	3.0	20A-3P	---	HARD WIRED	
LVO	PAN WASHER	BAKERY	208V-3PH	71.0	100A-3P	---	HARD WIRED; CONCEALED CONDUIT	ALTECH KEM3100UL SWITCH
DECOPAC	PHOTOCAKE	BAKERY	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
AVALON	GLAZING TABLE	BAKERY	---	---	---	---	NO ELECTRICAL	
BELSHAW	HG18C, HG24C GLAZER	BAKERY	---	---	---	---	NO ELECTRICAL	
DIGI	DS-520 FLOUR SCALE	BAKERY	120V	1.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
AMANA	MICROWAVE	BAKERY	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
SAMSUNG	TV	BAKERY	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	VERIFY MOUNTING HEIGHT
JOHN BOOS	INGREDIENTS TABLE	BAKERY	---	---	---	---	NO ELECTRICAL	
OLIVER	797 SLICER	BAKERY	120V	7.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
OLIVER	723N BAGEL SLICER	BAKERY	120V	6.8	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
(varies)	VACUUM	BAKERY	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	AIR COMPRESSOR SPRAY GUN	BAKERY	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	VERIFY MOUNTING LOCATION
JAC	VARIA PRO 800	BAKERY	208V-3PH	5.2	20A-3P	L15-20	CORD AND PLUG FURNISHED WITH UNIT	
HATCO	TQ-800H TOASTER	BAKERY	208V-1PH	.	20A-2P	6-20	CORD AND PLUG FURNISHED WITH UNIT	
BELSHAW ADAMATIC	624 DONUT FRYER	BAKERY	208V-3PH	41.0	60A-3P	---	FLEXIBLE CORD WITH TWIST-LOCK PLUG BY E.C.	SHUNT TRIP; TWIST-LOCK RECEPT
BELSHAW ADAMATIC	EZMELT-18 SHORTENING MELTER	BAKERY	120V	15.0	20A-1P	L5-20	CORD AND PLUG FURNISHED WITH UNIT	SHUNT TRIP
(varies)	REFRIGERATOR	PHARMACY	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	GENERATOR CKT (NOT ON UPS)
DIEBOLD	TUBE BLOWER	PHARMACY	208V-1PH	.	30A-2P	VERIFY	CORD AND PLUG FURNISHED WITH UNIT	VERIFY ALL REQUIREMENTS
SCRIPTPRO	SP100 PRESCRIPTION DISPENSER	PHARMACY	120V	13.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	DEDICATED ELECTRICAL CIRCUIT
LIFECLINIC	LC300 BLOOD PRESSURE MACHINE	PHARMACY	120V	2.5	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	DEDICATED ELECTRICAL CIRCUIT
	ROLLOUT PRINTER	PHARMACY	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	GENERATOR CKT (NOT ON UPS)
	RACK	PHARMACY	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	GENERATOR CKT (ON UPS); 4PLEX
(varies)	REFRIGERATOR	BREAKROOM	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
(varies)	COFFEE MAKER	BREAKROOM	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
SAMSUNG	TV	BREAKROOM	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	VERIFY MOUNTING HEIGHT
	COINSTAR	CUSTOMER SERVICE	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	LOTTO	CUSTOMER SERVICE	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	CIGARETTE SIGNAGE	CUSTOMER SERVICE	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	MONEY ORDERS	CUSTOMER SERVICE	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	WESTERN UNION	CUSTOMER SERVICE	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	ATM	CUSTOMER SERVICE	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	COPIER	CUSTOMER SERVICE	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	POSTAL COUNTER	CUSTOMER SERVICE	120V	.	20A-1P	---	HARD WIRED	FIELD VERIFY CONNECTION
	RACK	CUSTOMER SERVICE	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	GENERATOR CKT (ON UPS); 4PLEX
GLORY	CI-300 CASHINFINITY CASH	CASH ACOUNTABILITY	120V	8.5	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	GENERATOR CKT (NOT ON UPS)
TIDEL	REVOLUTION	CASH ACOUNTABILITY	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	GENERATOR CKT (NOT ON UPS)
	SAFE	CASH ACOUNTABILITY	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	VERIFY WITH MANUFACTURER
MART CART	XTI 12 HANDICAP CART	VESTIBULES	120V	1.5	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
AHT	AC XL SLIM	CENTER STORE	120V	11.5	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRUE	GDM-41SL	CENTER STORE	120V	8.8	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRUE	TAC-48	CENTER STORE	208V-1PH	12.0	20A-2P	6-20	CORD AND PLUG FURNISHED WITH UNIT	
(varies)	SALAD BAR	CENTER STORE	VERIFY	.	VERIFY	---	HARD WIRED - FIELD VERIFY CONNECTION	VERIFY WITH MANUFACTURER
	BULK WATER MACHINE	CENTER STORE	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	VERIFY LOCATION
ENVIPCO	CF 1500C (cans)	CAN REDEMPTION	208V-3PH	.	20A-3P	L15-20	CORD AND PLUG FURNISHED WITH UNIT	STANDARD
ENVIPCO	CF 1500C (cans)	CAN REDEMPTION	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	OPTIONAL
ENVIPCO	CF 1500G (glass)	CAN REDEMPTION	208V-3PH	.	20A-3P	L15-20	CORD AND PLUG FURNISHED WITH UNIT	STANDARD
ENVIPCO	CF 1500G (glass)	CAN REDEMPTION	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	OPTIONAL
ENVIPCO	CF 1500P (plastic)	CAN REDEMPTION	208V-3PH	.	20A-3P	L15-20	CORD AND PLUG FURNISHED WITH UNIT	STANDARD
ENVIPCO	CF 1500P (plastic)	CAN REDEMPTION	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	OPTIONAL
(varies)	REFRIGERATOR	CLINIC	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	HOSPITAL GRADE DEVICE; AC CABLE
(varies)	FREEZER	CLINIC	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	HOSPITAL GRADE DEVICE; AC CABLE
	MOTORIZED GRILLE	CLINIC	120V	.	20A-1P	---	HARD WIRED	PROVIDE KEYED AND BYPASS SWITCHES
	KIOSK	CLINIC	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
	SOLENOID VALVE AT RESTROOM	CLINIC	120V	.	20A-1P	---	SEE PLBG DRAWINGS FOR LOCATIONS	CONTROLLED BY SWITCH
	RACK	CLINIC	120V	.	20A-1P	5-20	HOSPITAL GRADE DEVICE; AC CABLE	GENERATOR CKT (NOT ON UPS)
TRUE	GDM-10-58	VARIES	120V	5.0	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRUE	GDM-26-LD	VARIES	120V	7.2	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRUE	GDM-30-LD	VARIES	120V	2.9	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
TRUE	T-35G	VARIES	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
(varies)	EWC	VARIES	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	
REDBOX	REDBOX	VARIES	120V	.	20A-1P	VERIFY	FIELD VERIFY ELECTRICAL REQUIREMENTS	
LEER	L040UAGX ICE MERCHANDISER	VARIES	120V	.	20A-1P	5-20	CORD AND PLUG FURNISHED WITH UNIT	SELF-CONTAINED UNIT
CHECKSTANDS / CASH REGISTERS / PAY STATIONS / TERMINALS / CRT'S			120V	.	20A-1P	VERIFY	CORD AND PLUG - SEE E4.4 DRAWING	GENERATOR AND UPS CIRCUITS - SEE

REFER TO EQUIPMENT DRAWINGS (EQ1._), THE EQUIPMENT BOOK, and DRAWINGS E0.0 thru E0.3 FOR ADDITIONAL INFORMATION AND DETAILS

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/29/2020

REVISION | DATE | BY

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

PROFESSIONAL SEAL

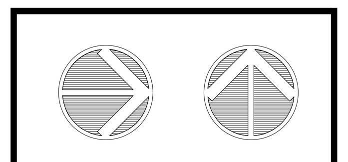
STATE OF MISSOURI
DEAN WAY CHANDLER
NUMBER PE-2017036652
PROFESSIONAL ENGINEER

Oct 23 2020
DEAN W. CHANDLER
LICENSE # PE-2017036652

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

EMPLOYEE OWNED



ELECTRICAL EQUIPMENT LISTING

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY: HENDERSON	DATE: 10/19/2020
SCALE: AS NOTED	JOB NUMBER: 62930547

SHEET: E0.1

DEAN W. CHANDLER
10/23/2020 9:17:04 AM

Short-Circuit and Voltage Drop Calculations

Distances are for calculation purposes only and shall not be used for contractor takeoffs nor bidding - Contractor shall notify Engineer of any field condition that results in a change of 10% or greater circuit distance

The following calculations are based on the "Point-by-Point" method where:

ISC (2) = ISC(1) x M(1)   M= 1/(1+f)

ISC (1) = short circuit current at fault point 1

ISC (2) = short circuit current at fault point 2

Feeder: f (3Ø) = 1.732 x L x Isc / C x E

Feeder: f (1Ø)= 2 x L x Isc / C x E

XFMR: f (3Ø) = IP(sca)x Vp x 1.73 x %Z / 100,000 x KVA

XFMR: f (1Ø)= IP(sca)x Vp x %Z / 100,000 x KVA

IS(sca)= Vp x M x IP(sca) / Vs

VOLTAGE DROP (3Ø):
%VD= ((R x cos(arccos(pf)) + X x sin (arccos(pf))) x L/# x I x 1.73) / E

VOLTAGE DROP (1Ø):
%VD= ((R x cos(arccos(pf)) + X x sin(arccos(pf))) x 2 x L/# x I) / E

IP = Primary short circuit current
Vp = Primary voltage
IS= Secondary short circuit current
Vs= Secondary voltage
L = Length of circuit   E = Line to line volts
C = "C" Factor from Bussman table where "C" = 1 / impedance per linear foot

%VD CUM= Cumulative Voltage Drop from Fault Point 1 to Fault Point #
R= resistance in ohms per LF
X= reactances in ohms per LF

Feeder Types =
NM - Non Magnetic Conduit, M - Magnetic Conduit, FB - Feeder Busway, PB - Plug-in Busway, TX - Transformer

Date of Calculations: 09/25/2020
System Voltage: 208Y/120V - 3 phase

Fault Point (F#)	Bus/Feeder Description	Source (Fault Point)	Phase	Source Isc (amps)	Feeder: Conduit Type/ TX	Feeder: Material	Feeder: Quantity of Parallel Sets and Bus/ Phase & Neutral Size	Conductor 'C' Value	Busway 'C' Value	L-L Voltage (E)	Circuit Length (L)	Load Power Factor (pf)	Circuit Load (Amperage)	Conductor: Resistance (R)	Conductor: Reactance (X)	Conductor: Arccos (pf) (Radians)	Transformer: Type	Transformer: Degree Rise	Transformer: kVA	Transformer: New Xfmr Z	Transformer: Existing Xfmr Z	Transformer: Secondary Voltage	Transformer: Tap Setting	f	M	Fault Current (amps)	Voltage Drop (%VD)	Cumulative Voltage Drop (%VD)	Fault Point (F#)
1	Utility Service Point			79,902	at the secondary of the utility transformer																			Source Isc + 6X Motor Contribution =		85902			1
	Motor Contribution			1,000	The connected full load motor amps (includes compressors) on the system																								
2	MDP1	1	3	85902	M	CU	8 Set(s) of 500 kcmil	22185	--	208	75	0.9	2500	0.000029	0.000048	0.451027								0.302	0.77	65963	-0.92%	-0.92%	2
3	W	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	165	0.95	199	0.000063	0.000051	0.317560								6.009	0.14	9411	-2.07%	-2.99%	3
4	G	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	20	0.9	34	0.000063	0.000051	0.451027								0.728	0.58	38164	-0.04%	-0.96%	4
5	E	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	175	0.9	139	0.000063	0.000051	0.451027								6.373	0.14	8946	-1.60%	-2.52%	5
6	H	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	20	0.9	142	0.000063	0.000051	0.451027								0.728	0.58	38164	-0.19%	-1.10%	6
7	X	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	165	0.9	120	0.000063	0.000051	0.451027								6.009	0.14	9411	-1.30%	-2.22%	7
8	C	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	20	0.9	50	0.000063	0.000051	0.451027								0.728	0.58	38164	-0.07%	-0.98%	8
9	F	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	170	0.9	100	0.000063	0.000051	0.451027								6.191	0.14	9172	-1.12%	-2.04%	9
10	J	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	25	0.9	58	0.000063	0.000051	0.451027								0.910	0.52	34527	-0.10%	-1.01%	10
11	VV	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	175	0.9	158	0.000063	0.000051	0.451027								6.373	0.14	8946	-1.82%	-2.74%	11
12	P	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	25	0.9	107	0.000063	0.000051	0.451027								0.910	0.52	34527	-0.18%	-1.09%	12
13	V	2	3	65963	M	CU	2 Set(s) of 3/0 AWG	12844	--	208	170	0.9	148	0.000079	0.000052	0.451027								3.635	0.22	14231	-0.98%	-1.90%	13
14	N	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	390	0.9	50	0.000063	0.000051	0.451027								14.204	0.07	4339	-1.28%	-2.20%	14
15	B	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	10	0.95	111	0.000063	0.000051	0.317560								0.364	0.73	48353	-0.07%	-0.99%	15
16	U	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	340	0.9	90	0.000063	0.000051	0.451027								12.383	0.07	4929	-2.01%	-2.93%	16
17	D	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	10	0.95	168	0.000063	0.000051	0.317560								0.364	0.73	48353	-0.11%	-1.02%	17
18	BB	2	3	65963	M	CU	1 Set(s) of 1 AWG	7293	--	208	385	0.9	50	0.000160	0.000057	0.451027								28.997	0.03	2199	-2.71%	-3.62%	18
19	A	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	10	0.95	175	0.000063	0.000051	0.317560								0.364	0.73	48353	-0.11%	-1.03%	19
20	ATS	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	40	0.9	207	0.000063	0.000051	0.451027								1.457	0.41	26849	-0.54%	-1.46%	20
21	L	20	3	26849	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	30	0.9	207	0.000063	0.000051	0.451027								0.445	0.69	18584	-0.41%	-1.87%	21
22	LL	21	3	18584	M	CU	1 Set(s) of 1 AWG	7293	--	208	275	0.9	50	0.000160	0.000057	0.451027								5.835	0.15	2719	-1.93%	-3.80%	22
23	K	21	3	18584	M	CU	1 Set(s) of 1 AWG	7293	--	208	390	0.9	55	0.000160	0.000057	0.451027								8.276	0.11	2004	-3.02%	-4.89%	23
24	R	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	275	0.9	190	0.000063	0.000051	0.451027								10.015	0.09	5988	-3.43%	-4.35%	24
25	AA1	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	275	0.9	129	0.000063	0.000051	0.451027								10.015	0.09	5988	-2.33%	-3.25%	25
26	M	2	3	65963	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	275	0.9	192	0.000063	0.000051	0.451027								10.015	0.09	5988	-3.47%	-4.39%	26
27	Q	2	3	65963	M	CU	1 Set(s) of 1 AWG	7293	--	208	25	0.9	42	0.000160	0.000057	0.451027								1.883	0.35	22881	-0.15%	-1.07%	27
28	T	2	3	65963	M	CU	1 Set(s) of 1 AWG	7293	--	208	30	0.9	80	0.000160	0.000057	0.451027								2.259	0.31	20237	-0.34%	-1.26%	28
29	S	2	3	65963	M	CU	1 Set(s) of 1 AWG	7293	--	208	350	0.9	60	0.000160	0.000057	0.451027								26.361	0.04	2411	-2.95%	-3.87%	29
30	RTU-1	2	3	65963	M	CU	1 Set(s) of 350 kcmil	19704	--	208	130	0.85	287	0.000039	0.000050	0.554811								3.624	0.22	14265	-1.85%	-2.77%	30
31	RTU-2	2	3	65963	M	CU	1 Set(s) of 350 kcmil	19704	--	208	110	0.85	287	0.000039	0.000050	0.554811								3.066	0.25	16221	-1.56%	-2.48%	31
32	NOT USED							--	--																				32
33	RTU-9	2	3	65963	M	CU	1 Set(s) of 1 AWG	7293	--	208	300	0.85	59	0.000160	0.000057	0.554811								22.595	0.04	2796	-2.45%	-3.36%	33
34	KP	2	3	65963	M	AL	1 Set(s) of 2/0 AWG	7187	--	208	400	0.9	40	0.000160	0.000054	0.451027								30.571	0.03	2089	-2.23%	-3.15%	34
35	CL	34	3	2089	M	AL	1 Set(s) of 6 AWG	1481	--	208	5	0.9	30	0.000810	0.000064	0.451027								0.059	0.94	1973	-0.09%	-3.24%	35
36	LK	2	3	65963	M	AL	1 Set(s) of 250 kcmil	12122	--	208	300	0.9	80	0.000086	0.000052	0.451027								13.594	0.07	4520	-2.00%	-2.92%	36
37	CK	2	3	65963	M	AL	1 Set(s) of 300 kcmil	13910	--	208	280	0.9	120	0.000072	0.000051	0.451027								11.057	0.08	5471	-2.44%	-3.35%	37
38	MRP	2	3	65963	M	CU	5 Set(s) of 400 kcmil	20566	--	208	50	0.9	1200	0.000035	0.000049	0.451027								0.267	0.79	52059	-0.53%	-1.45%	38
39	PROTOCOL A	38	3	52059	M	CU	2 Set(s) of 250 kcmil	16483	--	208	330	0.9	300	0.000054	0.000052	0.451027								4.339	0.19	9750	-2.94%	-4.38%	39
40	PROTOCOL C	38	3	52059	M	CU	2 Set(s) of 300 kcmil	18177	--	208	270	0.9	360	0.000045	0.000051	0.451027								3.220	0.24	12337	-2.54%	-3.98%	40
41	PROTOCOL E	38	3	52059	M	CU	1 Set(s) of 300 kcmil	18177	--	208	220	0.9	180	0.000045	0.000051	0.451027								5.247	0.16	8334	-2.07%	-3.51%	41
42	RPC	38	3	52059	M	CU	1 Set(s) of 1/0 AWG	8925	--	208	10	0.9	120	0.000120	0.000055	0.451027								0.486	0.67	35039	-0.13%	-1.58%	42
43	LP	38	3	52059	M	CU	1 Set(s) of 4 AWG	3806	--	208	20	0.9	60	0.000310	0.000060	0.451027								2.278	0.31	15881	-0.30%	-1.75%	43

Fault Point (F#)	Bus/Feeder Description	Source (Fault Point)	Phase	Source Isc (amps)	Feeder: Conduit Type/ TX	Feeder: Material	Feeder: Quantity of Parallel Sets and Bus/ Phase & Neutral Size	Conductor 'C' Value	Busway 'C' Value	L-L Voltage (E)	Circuit Length (L)	Load Power Factor (pf)	Circuit Load (Amperage)	Conductor: Resistance (R)	Conductor: Reactance (X)	Conductor: Arccos (pf) (Radians)	Transformer: Type	Transformer: Degree Rise	Transformer: kVA	Transformer: New Xfmr Z	Transformer: Existing Xfmr Z	Transformer: Secondary Voltage	Transformer: Tap Setting	f	M	Fault Current (amps)	Voltage Drop (%VD)	Cumulative Voltage Drop (%VD)	Fault Point (F#)
1	Utility Service Point			56,077	Pick a location																			Source Isc + 6X Motor Contribution =		58477			1
	Motor Contribution			400	The connected full load motor amps (includes compressors) on the system																								
2	MDP2	1	3	58477	M	CU	4 Set(s) of 300 kcmil	18177	--	208	20	0.9	275	0.000045	0.000051	0.451027								0.134	0.88	51569	-0.07%	-0.07%	2
3	AA2	2	3	51569	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	300	0.9	100	0.000063	0.000051	0.451027								8.542	0.10	5405	-1.97%	-2.04%	3
4	AB	2	3	51569	M	CU	1 Set(s) of 4/0 AWG	15082	--	208	80	0.9	100	0.000063	0.000051	0.451027								2.278	0.31	15733	-0.53%	-0.60%	4
5	COMPRESSOR RACK D	2	3	51569	M	CU	1 Set(s) of 500 kcmil	22185	--	208	50	0.9	330	0.000029	0.000048	0.451027								0.968	0.51	26206	-0.65%	-0.72%	5
6	PROTOCOL B	2	3	51569	M	CU	2 Set(s) of 3/0 AWG	12844	--	208	75	0.9	380	0.000079	0.000052	0.451027								1.254	0.44	22881	-1.11%	-1.18%	6
7	CONDENSER D	2	3	51569	M	CU	1 Set(s) of 8 AWG	1557	--	208	50	0.9	40	0.000780	0.000065	0.451027								13.790	0.07	3487	-1.22%	-1.29%	7

ONE-LINE DIAGRAM GENERAL NOTES:

1. THE INFORMATION SHOWN IN THE SHORT-CIRCUIT AND VOLTAGE DROP CALCULATIONS SCHEDULE IS SHOWN FOR CALCULATION PURPOSES ONLY. CONTRACTOR SHALL NOT USE THE CONDUIT TYPES, CONDUCTOR TYPES, SIZES, QUANTITIES OR LENGTHS FOR TAKEOFFS OR BIDDING PURPOSES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THIS SCHEDULE AND OTHER PORTIONS OF THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY ENGINEER OF AS-BUILT CONDITIONS THAT CONSTITUTE A CHANGE FROM WHAT IS SHOWN BELOW; THIS INCLUDES CONDUCTOR LENGTHS DIFFERING BY MORE THAN 10%.
2. REFER TO THE SHORT-CIRCUIT AND VOLTAGE DROP CALCULATIONS TABLE ON THIS SHEET. AVAILABLE FAULT CURRENT INFORMATION IS LISTED UNDER THE "FAULT CURRENT" COLUMN. VOLTAGE DROP VALUES ARE LISTED UNDER THE "CUMULATIVE VOLTAGE DROP" COLUMN. THE AIC/SCCR RATING OF THE EQUIPMENT SHALL NOT BE LESS THAN THE AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT. ALL SERIES RATED EQUIPMENT SHALL BE PROPERLY LISTED AND LABELED PER CODE.
3. FEEDER NUMBER DESIGNATIONS PRECEDED BY "V" INDICATE THAT THE CONDUCTORS ARE UP-SIZED DUE TO VOLT-DROP CONSIDERATIONS. PROVIDE LUG ADAPTERS AS NEEDED IN ORDER TO PROPERLY LAND CONDUCTORS AT TERMINATION(S).
4. FEEDER SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNLESS NOTED OTHERWISE. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. NUMBER DESIGNATIONS PRECEDED BY "A" INDICATE THAT THE SIZE IS BASED ON ALUMINUM (AL) WIRE. AL CONDUCTOR SIZES ARE BASED ON XHHW-2 INSULATION, UNLESS NOTED OTHERWISE. AL WIRE MAY BE SUBSTITUTED FOR CU FEEDERS AS ALLOWED BY CODE, SPECIFICATIONS AND OWNER, UNLESS NOTED OTHERWISE. AT CONTRACTOR'S OPTION, CU WIRE MAY BE SUBSTITUTED FOR AL, UNLESS NOTED OTHERWISE. ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS, UNLESS NOTED OTHERWISE. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. BRANCH CIRCUIT SIZES ARE BASED ON COPPER (CU) THHN/THWN-2 INSULATION, UNLESS NOTED OTHERWISE. CONDUIT SIZES SHOWN ARE APPROPRIATE FOR SCHEDULE 40 PVC, EMT, GRS, IMC AND RMC; ADJUST SIZE AS NEEDED FOR OTHER RACEWAY TYPES. ALL CONDUCTOR SIZES ARE BASED ON 60 DEG C RATED TERMINATIONS, UNLESS NOTED OTHERWISE. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. INSTALL FEEDERS OVERHEAD AS HIGH AS PRACTICABLE AND ORTHOGONALLY ALONG BUILDING STRUCTURE, UNLESS NOTED OTHERWISE. COORDINATE FINAL ROUTING WITH OTHER TRADES.
7. PROVIDE A PERMANENT LABEL ON FRONT OF EQUIPMENT ENCLOSURE; REFER TO SPECIFICATIONS FOR LABEL REQUIREMENTS. LABEL SHALL READ AS FOLLOWS (INCLUDE RESPECTIVE NAMES IN BLANKS):

   SERVICE EQUIPMENT LABEL:

   EXAMPLE:
   208Y/120V, 60HZ
   800A
   SCCR = 65,000A
   MAX AVAILABLE FAULT CURRENT = 58,815A
   CALCULATED: 01/01/2018

   PANELBOARD/SWITCHBOARD LABEL:
   LINE 1: PANELBOARD "_____" SUPPLIED BY UPSTREAM
   LINE 2: PANELBOARD/SWITCHBOARD "_____"
   LINE 3: LOCATED IN "___________"
   LINE 4: PANELBOARD "_____" SUPPLIES DOWNSTREAM
   LINE 5: PANELBOARD(S) "_____"

   TRANSFORMERS LABEL:
   LINE 1: TRANSFORMER "_____" SUPPLIED BY UPSTREAM
   LINE 2: PANELBOARD/SWITCHBOARD "_____"
   LINE 3: LOCATED IN "___________"
   LINE 4: TRANSFORMER "_____" SUPPLIES DOWNSTREAM
   LINE 5: PANELBOARD(S) "_____"

ELECTRICAL UTILITY CONTACT NOTE:

UTILITY COMPANY: EVERGY
UTILITY CONTACT: RON DEJARNETTE
PHONE: (816) 347-4316
EMAIL: ron.dejarnette@evergy.com

FAULT CURRENT GENERAL NOTE (UTILITY VALUE):

THE MAXIMUM AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT VALUE AT THE UTILITY TRANSFORMER SECONDARY/POINT OF SERVICE SERVING MDP1 IS 79,902A BASED ON PRELIMINARY INFORMATION PROVIDED BY THE UTILITY.

THE MAXIMUM AVAILABLE 3-PHASE SYMMETRICAL FAULT CURRENT VALUE AT THE UTILITY TRANSFORMER SECONDARY/POINT OF SERVICE SERVING MDP2 IS 56,077A BASED ON PRELIMINARY INFORMATION PROVIDED BY THE UTILITY.

CONTRACTOR SHALL VERIFY ACTUAL AVAILABLE FAULT CURRENT VALUE WITH UTILITY PRIOR TO BEGINNING CONSTRUCTION. NOTIFY ENGINEER IF ACTUAL VALUE EXCEEDS DESIGN VALUE.

ONE-LINE DIAGRAM GENERAL NOTES (REMODEL):

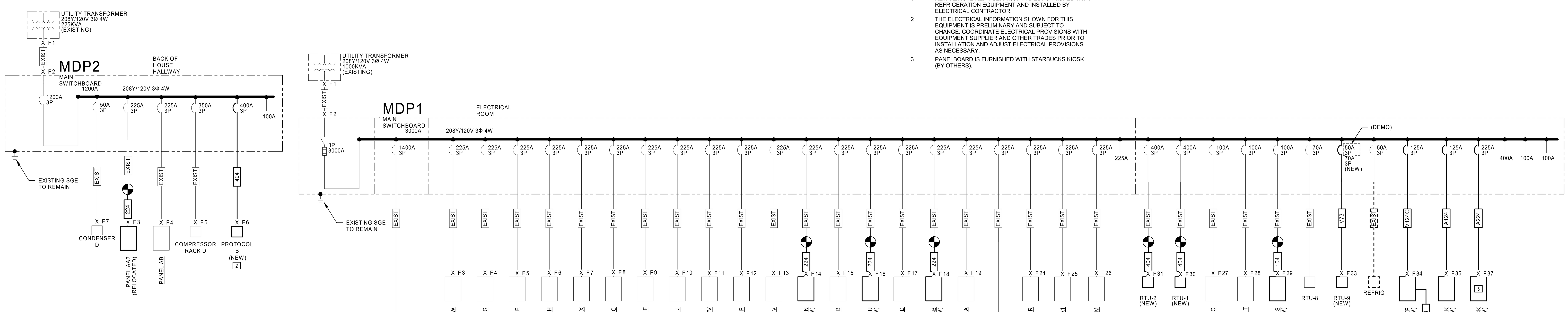
1. COORDINATE WORK WITH ARCHITECTURAL PHASING DRAWINGS TO PROPERLY STAGE TRANSITION TO PROVIDE POWER TO EXISTING, NEW AND TEMPORARY LOADS. MONITOR LOADS ON DISTRIBUTION SYSTEM TO MAKE SURE SHIFTING OF LOADS DOES NOT OVERLOAD ELECTRICAL EQUIPMENT.
2. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXISTING AIC/SCCR RATING OF EACH PANELBOARD/SWITCHBOARD. ALL NEW AND EXISTING OVER-CURRENT PROTECTION DEVICES (CIRCUIT BREAKERS AND FUSES) MUST HAVE AN AIC/SCCR RATING EXCEEDING THE AVAILABLE FAULT CURRENT AT THAT POINT IN THE SYSTEM. NOTIFY THE OWNER AND THE ENGINEER IF THE EXISTING EQUIPMENT DOES NOT COMPLY WITH THIS REQUIREMENT.
3. VERIFY THE INTEGRITY OF THE EXISTING GROUNDING ELECTRODE SYSTEM AND THAT THE NEUTRAL AND GROUND ARE PROPERLY BONDED TOGETHER AT THE POINT OF SERVICE ENTRANCE. NOTIFY THE LANDLORD, OWNER AND THE ENGINEER OF ANY EXISTING DEFICIENCIES.
4. AS APPLICABLE, OBTAIN THE FOLLOWING INFORMATION IN REGARD TO THE EXISTING ELECTRICAL SERVICE AND DISTRIBUTION SYSTEM AND REPORT FINDINGS TO THE ENGINEER FOR ANALYSIS PRIOR TO BEGINNING CONSTRUCTION:
   A. AVAILABLE FAULT CURRENT DELIVERED BY THE UTILITY COMPANY AT THE POINT OF SERVICE. INCLUDE THE AVAILABLE FAULT CURRENT DELIVERED TO THE TENANT SPACE BY THE LANDLORD'S DISTRIBUTION SYSTEM.
   B. AIC/SCCR RATING AT EACH EXISTING SWITCHBOARD/PANELBOARD.

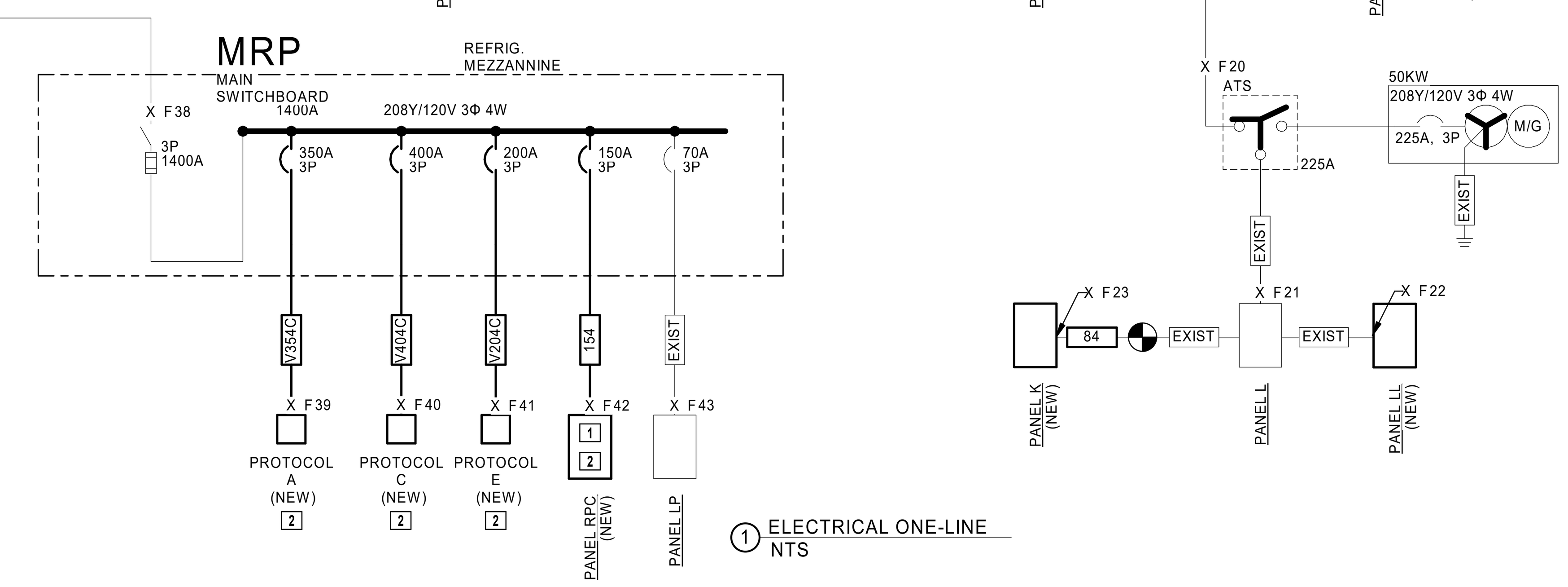
ONE-LINE DIAGRAM SUPPLEMENTAL SPECIFICATIONS:

1. PROVIDE PROPERLY SIZED LUGS FOR ALL EQUIPMENT, CIRCUIT BREAKERS, AND OTHER ELECTRICAL DEVICES TO ACCOMMODATE INSTALLED CONDUCTORS. A LARGER FRAME, OVERSIZED LUGS OR NON-STANDARD PRODUCT MAY BE REQUIRED IN SOME INSTANCES. UTILIZE PIN ADAPTERS ONLY IF NECESSARY AND ONLY AS ALLOWED BY MANUFACTURER AND AHJ.
2. PROVIDE ANY AVAILABLE SPACE IN SWITCHBOARDS/PANELBOARDS WITH BUSSING.
3. PROVIDE (4) EMPTY 1" CONDUITS WITH PULL STRINGS FROM EACH RECESSED PANELBOARD UP TO ACCESSIBLE CEILING SPACE. CAP AND LABEL CONDUITS FOR FUTURE USE.
4. PROVIDE TYPED FINAL CIRCUIT DIRECTORY FOR ALL PANELBOARDS TO REFLECT ACTUAL AS-BUILT CONDITIONS. COORDINATE FINAL ROOM NAMES, NUMBERS AND DESCRIPTIONS WITH OWNER PRIOR TO COMPLETION. CIRCUIT DESCRIPTIONS SHALL BE PER CODE AND SHALL BE DISTINGUISHABLE FROM ALL OTHERS.

ELECTRICAL PLAN NOTES

1 NEW REMOTE REFRIGERATION PANEL FURNISHED WITH REFRIGERATION EQUIPMENT AND INSTALLED BY ELECTRICAL CONTRACTOR.
2 THE ELECTRICAL INFORMATION SHOWN FOR THIS EQUIPMENT IS PRELIMINARY AND SUBJECT TO CHANGE. COORDINATE ELECTRICAL PROVISIONS WITH EQUIPMENT SUPPLIER AND OTHER TRADES PRIOR TO INSTALLATION AND ADJUST ELECTRICAL PROVISIONS AS NECESSARY.
3 PANELBOARD IS FURNISHED WITH STARBUCKS KIOSK (BY OTHERS).





1 ELECTRICAL ONE-LINE
NTS

BUILDING ELECTRICAL SERVICE LOAD SUMMARY	MDP1		
BUILDING OCCUPANCY TYPE: M	SERVICE DESCRIPTION:		
BUILDING SQUARE FOOTAGE: 92,826	208Y/120V, 3PH		
LOAD DESCRIPTION	Connected KVA	Demand FACTOR	Demand KVA
EXISTING PEAK UTILITY LOAD @ 0.9 pf	N/A	125%	902.78
HVAC - SUMMER	278.63	90%	250.77
HVAC - WINTER	17.23	100%	0.00
LIGHTING (PER NEC-220)	91.70	125%	114.62
RECEPTACLES	61.10	100%;50%	35.55
KITCHEN EQUIPMENT	120.67	65%	78.44
MOTOR LOADS	119.70	100%	119.70
LARGEST MOTOR LOAD	17.40	125%	21.75
SUPPLEMENTAL ELECTRIC HEAT	26.10	100%	26.10
MISCELLANEOUS EQUIPMENT	16.99	100%	16.99
REFRIGERATION EQUIPMENT	360.48	80%	288.39
DISPLAY CASE/SIGNAGE	1.20	125%	1.50
SHOW WINDOW / TRACK LIGHTING	0.00	PER NEC	0.00
EXTERIOR LIGHTING	0.00	125%	0.00
EXISTING LOAD TO BE DELETED	1037.78	100%	1037.78
TOTAL LOAD	73.41	KVA	818.79
TOTAL AMPACITY	203.76	AMPS	2272.74
SERVICE AMPACITY	3000	AMPS	3000.00
SPARE CAPACITY		AMPS	727

*PER UTILITY COMPANY BILLING PEAK DEMAND OF: 667KW JULY 2019

BUILDING ELECTRICAL SERVICE LOAD SUMMARY	MDP2		
BUILDING OCCUPANCY TYPE: M	SERVICE DESCRIPTION:		
BUILDING SQUARE FOOTAGE: 92,826	208Y/120V, 3PH		
LOAD DESCRIPTION	Connected KVA	Demand FACTOR	Demand KVA
EXISTING PEAK UTILITY LOAD @ 0.9 pf	N/A	125%	347.22
HVAC - SUMMER	16.07	90%	0.00
HVAC - WINTER	20.50	100%	20.50
LIGHTING (PER NEC-220)	0.00	125%	0.00
RECEPTACLES	1.62	100%;50%	1.62
KITCHEN EQUIPMENT	4.00	65%	2.60
MOTOR LOADS	0.00	100%	0.00
LARGEST MOTOR LOAD	0.00	125%	0.00
MISCELLANEOUS EQUIPMENT	0.50	100%	0.50
REFRIGERATION EQUIPMENT	126.36	80%	101.09
DISPLAY CASE/SIGNAGE	0.00	125%	0.00
EXISTING LOAD TO BE DELETED	65.00	100%	65.00
TOTAL LOAD	104.05	KVA	408.53
TOTAL AMPACITY	288.81	AMPS	1133.97
SERVICE AMPACITY	1200	AMPS	1200.00
SPARE CAPACITY		AMPS	66

*PER UTILITY COMPANY BILLING PEAK DEMAND OF: 106KW JUNE 2020

CIRCUIT SCHEDULE:

ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS. COPPER CONDUCTORS ARE BASED ON THHN/THWN-2 INSULATION. ALUMINUM CONDUCTORS (PREFIX "A") ARE BASED ON XHHW-2 INSULATION. FOR ANY OTHER CONDITIONS ALLOWED PER SPECIFICATIONS, OR FOR TERMINATIONS OR INSULATION TYPES RATED LESS THAN 75 DEG C, MODIFY SIZES ACCORDING TO NFPA 70.

FEEDER TAG	FEEDER DESCRIPTION
54	(4)#8, (1)#10G, 3/4" C
84	(4)#4, (1)#8G, 1-1/4" C
104	(4)#3, (1)#8G, 1-1/4" C
154	(4)#1/0, (1)#6G, 1-1/2" C
224	(4)#4/0, (1)#4G, 2-1/2" C
404	(2) 2" C, EACH W/ (4)#3/0, (1)#3G
A124	(4)#2/0, (1)#4G, 2" C
A224	(4)-300kcmil, (1)#2G, 3" C
EXIST	EXISTING FEEDER TO REMAIN
V73	(3)#1, (1)#8G, 1" C
V124C	(4)#3/0, (1)#3 G, 2" C
V204C	(4)300kcmil, (1)#3 G, 3" C
V354C	(2) 2-1/2"C, EACH W/ (4)250kcmil, (1)#3 G
V404C	(2) 3"C, EACH W/ (4)300kcmil, (1)#1/0 G

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/29/2020

REVISION DATE BY

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

PROFESSIONAL SEAL
STATE OF MISSOURI
DEAN WAY CHANDLER
NUMBER PE-2017036652
PROFESSIONAL ENGINEER
Oct 23 2020
DEAN W. CHANDLER
LICENSE # PE-2017036652

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935
HyVee EMPLOYEE OWNED

NORTH PLAN NORTH

FEEDER RISER DIAGRAM

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY: HENDERSON	DATE: 10/19/2020
SCALE: AS NOTED	JOB NUMBER: 62930547
SHEET: E1.0	

DEAN W. CHANDLER
10/23/2020 9:17:13 AM

PANELBOARD: B (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
SERVES: LIGHTING
MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

	CKT	DESCRIPTION	VOLTAMPS/PHASE			WIRE	BKR	P	P	BKR	WIRE	VOLTAMPS/PHASE			DESCRIPTION	CKT	
	NO.		A	B	C	NO.	AMP			AMP	NO.	A	B	C		NO.	
R	1	LTG - DELI/CHEESE	420			12	20	1	1	20	12	1,332			LTG - WINE AND SPIRITS 4	2	R
R	3	LTG - DELI/CHEESE TRACK		147		12	20	1	1	20	12		1,110		LTG - WINE AND SPIRITS 5	4	R
R	5	LTG - PRODUCE TRIM			252	12	20	1	1	20	12			383	LTG - WINE AND SPIRITS VEST.	6	R
R	7	LTG - MEAT/SEAFOOD	732			12	20	1	1	20	EX	1,200			SALES AREA LTG	8	EX
R	9	LTG - MEAT/SEAFOOD TRACK		189		12	20	1	1	20	EX		1,200		SALES AREA LTG	10	EM
R	11	LTG - MEAT CASE PENDANTS			60	12	20	1	1	20	EX			1,200	SALES AREA LTG	12	EM
R	13	LTG - MEAT TRIM	702			12	20	1	1	20	EX	1,200			SALES AREA LTG	14	EX
R	15	LTG - PIZZA/ASIAN TRACK		126		12	20	1	1	20	EX		1,200		SALES AREA LTG	16	EX
R	17	LTG - PIZZA/ASIAN			684	12	20	1	1	20	EX			1,200	SALES AREA LTG	18	EX
R	19	LTG - FOOD SERVICE ROOM	348			12	20	1	1	20	EX	1,200			SALES AREA LTG	20	EX
R	21	LTG - KITCHEN/COMF FOODS		756		12	20	1	1	20	EX		1,200		SALES AREA LTG	22	EX
R	23	LTG - CONF FDS/MKT EXP/SUSHI			105	12	20	1	1	20	EX			1,200	BACK ROOM LTG	24	EX
R	25	LTG - EXIT HALL	294			12	20	1	1	20	EX	1,200			BACK RM CLG FAN & HEATER	26	EX
R	27	LTG - BAKERY 1		600		12	20	1	1	20	EX		1,200		ELEC ROOM LTG	28	EX
R	29	LTG - BAKERY 2			840	12	20	1	1	20	EX			1,200	TUNNEL LTG & BUNKER DEMO	30	EX
R	31	LTG - BAKERY 3	780			12	20	1	1	20	EX	500			SYS 9 BUNKER	32	EX
R	33	LTG - BAKERY/DECADENT TRACK		189		12	20	1	1	20	EX		500		SYS 11 BUNKER	34	EX
N	35	LTG - WINE AND SPIRITS 1			1,332	12	20	1	1	20	12			678	LTG - WINE ROOM TRACK	36	N
N	37	LTG - WINE AND SPIRITS 2	1,332			12	20	1	1	20	12	200			LTG - DAIRY TRACK	38	N
N	39	LTG - WINE AND SPIRITS 3		1,210		12	20	1	1	20	12		1,000		LTG - CANDY CARDS TRACK 1	40	N
	41	EQUIPPED SPACE						1	1	20	12			1,000	LTG - CANDY CARDS TRACK 2	42	N
		SUBTOTAL	4,608	3,217	3,273							6,832	7,410	6,861	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	11,440	COOLING		1.00	REFRIG		1.00	
AMPS	95	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	10,627	LIGHTING	18,001	1.25	KITCHEN		1.00	
AMPS	89	RECEPTACLES		1.0/.5	EXISTING	15,400	1.00	
TOTAL PHASE C - VA	10,134	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	84	SUPP HEAT		1.00	SHOW WNDW		1.25	37,901 VA
TOTAL PNLBD - VA	32,201	MISC EQUIP		1.00	LTG TRACK		1.00	105 A
AMPS	89							

PANELBOARD NOTES

PANELBOARD: CL (NEW)

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: KP
AIC RATING: FCA +10% MINIMUM FULLY RATED
SERVES: CLINIC
MOUNTING: RECESSED
LOCATION: CLINIC STORAGE

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

CKT	DESCRIPTION	VOLTAMPS/PHASE			WIRE	BKR	P	P	BKR	WIRE	VOLTAMPS/PHASE			DESCRIPTION	CKT
NO.		A	B	C	NO.	AMP			AMP	NO.	A	B	C		NO.
1							1	1							2
3							1	1							4
5							1	1							6
7							1	1							8
9							1	1							10
11							1	1							12
13							1	1							14
15							1	1							16
17							1	1							18
19							1	1							20
21							1	1							22
23							1	1							24
25							1	1							26
27							1	1							28
29							1	1							30
31	CLINIC SCREEN	180			12	20	1	1	20	12	720			EXAM 1 RCPTS 1	32
33	NURSE CALL		500		12	20	1	1	20	12		360		EXAM 1 RCPTS 2	34
35	LAB RCPTS 1			720	12	20	1	1	20	12			720	EXAM 2 RCPTS 1	36
37	LAB RCPTS 2	540			12	20	1	1	20	12	360			EXAM 2 RCPTS 2	38
39	LAB DATA RACK 1		500		12	20	1	1	20	12		360		CLINIC HALLWAY/RR RCPTS	40
41	LAB DATA RACK 2			500	12	20	1	1	20	12			900	CLINIC RECEPTION DESK	42
	SUBTOTAL	720	1,000	1,220							1,080	720	1,620	SUBTOTAL	

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	1,800	COOLING		1.00	REFRIG		1.00	
AMPS	15	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	1,720	LIGHTING		1.25	KITCHEN		1.00	
AMPS	14	RECEPTACLES	6,360	1.0/.5	EXISTING		1.00	
TOTAL PHASE C - VA	2,840	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	24	SUPP HEAT		1.00	SHOW WNDW		1.25	6,360 VA
TOTAL PNLBD - VA	6,360	MISC EQUIP		1.00	LTG TRACK		1.00	18 A
AMPS	18							

PANELBOARD NOTES

PANELBOARD: D (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
SERVES: LIGHTING
MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM

EQUIPMENT GROUND BUS

	CKT	DESCRIPTION	VOLTAMPS/PHASE			WIRE	BKR	P	P	BKR	WIRE	VOLTAMPS/PHASE			DESCRIPTION	CKT	
	NO.		A	B	C	NO.	AMP			AMP	NO.	A	B	C		NO.	
EX	1	SALES AREA LTG	1,200			EX	20	1	1	20	EX	1,200			SALES AREA LTG	2	EX,EM
EX	3	SALES AREA LTG		1,200		EX	20	1	1	20	EX		1,200		SALES AREA LTG	4	EX
EX	5	SALES AREA LTG			1,200	EX	20	1	1	20	EX			1,200	SALES AREA LTG	6	EX
EX	7	SALES AREA LTG	1,200			EX	20	1	1	20	EX	1,200			SALES AREA LTG	8	EX,EM
EX	9	SALES AREA LTG		1,200		EX	20	1	1	20	EX		1,200		SALES AREA LTG	10	EX
EX	11	SALES AREA LTG			1,200	EX	20	1	1	20	EX			1,200	SALES AREA LTG	12	EX
EX	13	SALES AREA LTG	1,200			EX	20	1	1	20	EX	1,200			SALES AREA LTG	14	EX
EX	15	SALES AREA LTG		1,200		EX	20	1	1	20	EX		1,200		SALES AREA LTG	16	EX
EX	17	ENTRY WAY LTG			1,200	EX	20	1	1	20	EX			1,200	SALES AREA LTG	18	EX
EX	19	SPARE					20	1	1	20	EX	1,200			SALES AREA LTG	20	EX,EM
EX	21	SPARE					20	1	1	20	EX		1,200		SALES AREA LTG	22	EX
EX	23	SPARE					20	1	1	20	EX			1,200	SALES AREA LTG	24	EX
EX,EM	25	PANEL B CKT 37	500			EX	20	1	1	20	EX	1,200			PANEL B CKT 38	26	EX
EX	27	SALES AREA LTG		1,200		EX	20	1	1	20	EX		1,200		COFFEE GRINDER DROP	28	EX
EX	29	SALES AREA LTG			1,200	EX	20	1	1	20	EX			1,200	SALES AREA LTG	30	EX
EX	31	PANEL B CKT 32	500			EX	20	1	1	20	EX	1,200			SALES AREA LTG	32	EX
EX	33	SPARE					20	1	1	20	EX		1,200		SALES AREA LTG	34	EX
EX	35	SPARE					20	1	1	20	EX			1,200	SALES AREA LTG	36	EX
EX	37	SPARE					20	1	1	20	EX	1,200			SALES AREA LTG	38	EX,EM
EX	39	EXISTING LOAD		1,200		EX	20	1	1	20	EX		1,200		SALES AREA LTG	40	EX,EM
	41	EQUIPPED SPACE						1	1						EQUIPPED SPACE	42	
		SUBTOTAL	4,600	6,000	4,800							8,400	8,400	7,200	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	13,000	COOLING		1.00	REFRIG		1.00	
AMPS	108	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	14,400	LIGHTING		1.25	KITCHEN		1.00	
AMPS	120	RECEPTACLES		1.0/.5	EXISTING	40,600	1.00	
TOTAL PHASE C - VA	12,000	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	100	SUPP HEAT		1.00	SHOW WNDW		1.25	40,600 VA
TOTAL PNLBD - VA	39,400	MISC EQUIP		1.00	LTG TRACK		1.00	113 A
AMPS	109							

PANELBOARD NOTES

PANELBOARD: E (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
SERVES: KITCHEN/DELI
MOUNTING: RECESSED
LOCATION: DRY STORAGE

EQUIPMENT GROUND BUS

	CKT	DESCRIPTION	VOLTAMPS/PHASE			WIRE	BKR	P	P	BKR	WIRE	VOLTAMPS/PHASE			DESCRIPTION	CKT	
	NO.		A	B	C	NO.	AMP			AMP	NO.	A	B	C		NO.	
	1		3,759						2	50	6	3,445				2	
R	3	DELI BOOSTER HEATER		3,759		8	40	3					3,445		HICKORY HOUSE HOT CASE 2	4	N
	5				3,759				1	20	12			720	KITCHEN ROTISSERIE	6	R
R	7	HIBACHI 10' COLD CASE	270			12	20	1	1	20	EX	500			EXISTING LOAD	8	EX
EX	9	PIZZA DEEP WELL		500		EX	20	1	1	20	EX		500		EXISTING LOAD	10	EX
EX	11	PIZZA RCPT			500	EX	20	1	1	20	EX			500	EXISTING LOAD	12	EX
EX	13	DELI DISPOSAL	500			EX	20	1	1	20	12	1,400			KITCHEN HEAT RAIL	14	R
EX	15	DELI DISHWASHER EX FAN EF5		1,000		EX	20	1	1	20	12		1,176		KITCHEN REF TABLE (BACK RM)	16	R
EX	17	WEST BAKERY FRZR FANS			1,000	EX	20	2	1	20	EX			500	EXISTING LOAD	18	EX
	19		1,000						1	20	EX	500			EXISTING LOAD	20	EX
EX	21	BAKERY WEST COIL FRZR FANS		500		EX	20	1	1	20	12		360		KITCHEN CONV RCPT 1	22	R
EX	23	JUICE BAR ISO GROUND			500	EX	20	1	1	20	12			540	KITCHEN CONV RCPT 2	24	R
EX	25	JUICE BAR RCPT	500			EX	20	1	2	30	EX	2,496			HOT WELLS	26	EX
EX	27	EXISTING LOAD		500		EX	20	1					2,496			28	
EX	29	EXISTING LOAD			500	EX	20	1	1	20	EX			500	DELI DISPOSAL	30	EX
R	31	HICKORY HOUSE HOT CASE 1	3,077			8	40	2	1	20	EX	500			DELI HALF WALL RCPTS	32	EX
	33			3,077					1	20	EX		500		WINE TASTING RCPT	34	EX
N	35	CHINESE HOT WELL			7,475	3	100	2	1	20	EX			500	WINE TASTING RCPT	36	EX
	37		7,475						1	20	10	1,920			KITCHEN HOLDING CABINET	38	R
EX	39	EXISTING LOAD		500		EX	20	1	1	20	12		1,176		KITCHEN REF TABLE	40	R
EX	41	BAKERY FRZR LTS			500	EX	20	1	1	20	EX			500	PRODUCE COLUMN RCPT	42	EX
		SUBTOTAL	16,581	9,836	14,234							10,761	9,653	3,760	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	27,342	COOLING		1.00	REFRIG		1.00	
AMPS	228	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	19,489	LIGHTING		1.25	KITCHEN	34,656	0.65	
AMPS	162	RECEPTACLES	900	1.0/.5	EXISTING	17,992	1.00	
TOTAL PHASE C - VA	17,994	MOTORS	11,277	1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	150	SUPP HEAT		1.00	SHOW WNDW		1.25	52,695 VA
TOTAL PNLBD - VA	64,825	MISC EQUIP		1.00	LTG TRACK		1.00	146 A
AMPS	180							

PANELBOARD NOTES

PANELBOARD: F (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: DELI
MOUNTING: RECESSED
LOCATION: DRY STORAGE

EQUIPMENT GROUND BUS

	CKT	DESCRIPTION	VOLTAMPS/PHASE			WIRE	BKR	P	P	BKR	WIRE	VOLTAMPS/PHASE			DESCRIPTION	CKT	
	NO.		A	B	C	NO.	AMP			AMP	NO.	A	B	C		NO.	
	1		1,681						1	20	EX	500			EXISTING LOAD	2	EX
N,GF	3	80 QT MIXER		1,681		12	20	3	1	20	EX		500		EXISTING LOAD	4	EX
	5				1,681				1	20	EX			500	EXISTING LOAD	6	EX
EX	7	BREAD SLICER DROP	500			EX	20	1	1	20	EX	500			EXISTING LOAD	8	EX
R	9	KEF-5		516		12	20	1	1	20	EX		500		EXISTING LOAD	10	EX
V	11	SPARE					40	2	1	20	EX			500	EXISTING LOAD	12	EX
	13								1	20	12	500			BAKERY SCALES 1	14	R
EX	15	DONUT HOOD		500		EX	20	1	1	20	12		500		BAKERY TABLE RCPT	16	R
EX	17	RCPT UNDER DONUT HOOD			500	EX	20	1	1	20	12			500	BAKERY TABLE MONITOR	18	R
	19		1,921									1,921				20	
EX	21	140 QT BAKERY MIXER		1,921		EX	20	3	3	20	12		1,921		BAKERY ROUNDER	22	R
	23				1,921									1,921		24	
EX	25	EXISTING LOAD	2,880			EX	30	1	1	20	EX	500			EXISTING LOAD	26	
EX	27	30 QT MIXER		1,664			20	1	1	20	12		360		BAKERY FLOOR BOXES 1	28	R
	29				1,664				1	20	12			360	BAKERY FLOOR BOXES 2/SCALE	30	R
	31		1,921						1	20	12	500			BAKERY RACK OVEN CONTROL	32	R
N	33	BAKERY RACK OVEN		1,921		12	20	3	1	20	12		500		BAKERY FLOOR SCALES	34	R
	35				1,921				1	20	EX			500	EXISTING LOAD	36	EX
	37		4,803						1	20	EX	500			EXISTING LOAD	38	EX
EX	39	BAKERY FRYER		4,803		EX	50	3	1	20	EX		500		EXISTING LOAD	40	EX
	41				4,803				1	20	12			900	BAKERY SHEETER	42	R
		SUBTOTAL	13,706	13,006	12,490							4,921	4,781	5,181	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	18,627	COOLING		1.00	REFRIG		1.00	
AMPS	155	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	17,787	LIGHTING		1.25	KITCHEN	20,469	0.65	
AMPS	148	RECEPTACLES	720	1.0/.5	EXISTING	32,880	1.00	
TOTAL PHASE C - VA	17,671	MOTORS	516	1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	147	SUPP HEAT		1.00	SHOW WNDW		1.25	47,421 VA
TOTAL PNLBD - VA	54,085	MISC EQUIP		1.00	LTG TRACK		1.00	132 A
AMPS	150							

PANELBOARD NOTES

PANELBOARD: G (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: MEAT & SEAFOOD POWER
MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM

EQUIPMENT GROUND BUS

	CKT	DESCRIPTION	VOLTAMPS/PHASE			WIRE	BKR	P	P	BKR	WIRE	VOLTAMPS/PHASE			DESCRIPTION	CKT	
	NO.		A	B	C	NO.	AMP			AMP	NO.	A	B	C		NO.	
EX	1	SERVICE MEAT RCPT	500			EX	20	1	1	20	12	180			MEAT/SF SCALE	2	R
EX	3	MD MEAT RCPT		500		EX	20	1	1	20	12		360		MEAT/SF MENU SCREENS	4	R
R	5	PRODUCE TRIM HEAT WRAP			725	12	20	1	1	20	12			725	MEAT/SF HEAT SEAL WRAP	6	R
R	7	PRODUCE TRIM RCPT/SCALE	540			12	20	1	1	20	12	180			MEAT/SF CONV RCPT 1	8	R
EX	9	SERVICE MEAT SCALE IG		500		EX	20	1	1	20	12		696		SALES FLOOR COOLER 1	10	R
R	11	PRODUCE MISTER			180	12	20	1	1	20	12			696	SALES FLOOR COOLER 2	12	R
R	13	EF-12 CUSTOMER RRS	768			12	20	1	1	20	12	696			SALES FLOOR COOLER 3	14	R
R	15	SALES FLOOR BULK WATER		696		12	20	1	1	20	12		696		SALES FLOOR COOLER 4	16	R
R	17	BAKERY CASE LTS			500	12	20	1	1	20	12			696	SALES FLOOR COOLER 5	18	R
EX	19	SPARE					20	2	1	20	12	456			SALES FLOOR COOLER 6	20	R
	21								1	20	12		180		DELI CHEESE SCREEN	22	R
	23	EQUIPPED SPACE						1	1	20	12			360	DELI CHEESE CONV RCPTS	24	R
	25	EQUIPPED SPACE						1	1	20	12	360			ROOFTOP RCPTS 1	26	R
EX	27	SERVICE SEAFOOD CASE		500		EX	20	1	1	20	12		540		ROOFTOP RCPTS 2	28	R
EX	29	MEAT GRINDER RCPT			500	EX	20	1	1	20	EX			500	N ROOF TOP GFI	30	EX
EX	31	FAT TESTER	500			EX	20	1	1	20	EX	500			N ROOF TOP SMOKE DET.	32	EX
EX	33	MEAT/CHEESE WALL OUTLETS		500		EX	20	1	1	20	EX		500		FISH DEPT EXH FAN EF10	34	EX
EX	35	SPARE ABOVE MEAT/CHEESE			500	EX	20	1	1	20	12			360	DELI CHEESE SCALE 1	36	R
EX	37	RCPT ON WALL MOTOR RM	500			EX	20	1	1	20	12	180			DELI CHEESE SCALE 2	38	R
	39	EQUIPPED SPACE						1	1						EQUIPPED SPACE	40	
EX	41	SALAD PREP LTG			1,700	EX	20	1	1						EQUIPPED SPACE	42	
		SUBTOTAL	2,808	2,696	4,105							2,552	2,972	3,337	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	5,360	COOLING		1.00	REFRIG		1.00	
AMPS	45	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	5,668	LIGHTING	1,700	1.25	KITCHEN	2,170	0.70	
AMPS	47	RECEPTACLES	7,152	1.0/.5	EXISTING	6,500	1.00	
TOTAL PHASE C - VA	7,442	MOTORS	768	1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	62	SUPP HEAT		1.00	SHOW WNDW		1.25	18,244 VA
TOTAL PNLBD - VA	18,470	MISC EQUIP	180	1.00	LTG TRACK		1.00	51 A
AMPS	51							

PANELBOARD NOTES

PANELBOARD: H (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: MEAT & SEAFOOD POWER
MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM

EQUIPMENT GROUND BUS

	CKT	DESCRIPTION	VOLTAMPS/PHASE			WIRE	BKR	P	P	BKR	WIRE	VOLTAMPS/PHASE			DESCRIPTION	CKT	
	NO.		A	B	C	NO.	AMP			AMP	NO.	A	B	C		NO.	
	1		1,921						1	20	EX	500			CORD DROP	2	EX
EX	3	MEAT SAW		1,921		EX	20	3	1	20	EX		500		CORD DROP	4	EX
	5				1,921				1	20	EX			500	EXISTING LOAD	6	EX
	7		4,803						1	20	EX	1,200			MEAT PREP FANS	8	EX
EX	9	TRASH COMPACTOR		4,803		EX	50	3	1	20	EX		1,200		MEAT PREP DISPOSAL	10	EX
	11				4,803				1	20	EX			500	SERVICE MEAT RCPT	12	EX
R	13	UH-4 (ELEC ROOM)	500			12	20	1	1	20	EX	500			MEAT WRAPPER	14	EX
V	15	SPARE					20	1	1	20	EX		500		S MEAT PREP SPARE	16	EX
EX	17	EXISTING LOAD			500	EX	20	1	1	20	EX			500	S MEAT PREP SPARE	18	EX
	19		367						1	20	EX	500			PNL Q CONTACTOR	20	EX
N	21	BAKERY VARIA PRO SLICER		367		12	20	3					4,491			22	
	23				367				3	50	6			4,491	MAU-2 FANS	24	N
EX	25	RCPT - ALARM BY COMPACT.	500			EX	20	1				4,491				26	
R	27	BAKERY SCREENS		360		12	20	1	1	20	12		725		DELI CHEESE HEAT WRAP	28	R
V	29	SPARE					20	1	1	20	12			500	DELI CHEESE SLICER 1	30	R
	31		1,345						1	20	12	500			DELI CHEESE SLICER 2	32	R
N	33	MAU-2 CONDENSERS 1		1,345		12	20	3	1	20	EX		500		MEAT & CHEESE RCPT	34	EX
	35				1,345				2	20	EX			1,000	PANINI PRESS	36	EX
	37		2,570									1,000				38	
R	39	MAU-2 CONDENDERS 2		2,570		10	30	3	1	20	EX		500		DELI FLOOR RCPT	40	EX
	41				2,570				1	20	EX			500	MEAT & CHEESE RCPT FLOOR	42	EX
		SUBTOTAL	12,006	11,366	11,506							8,691	8,416	7,991	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	20,697	COOLING		1.00	REFRIG		1.00	
AMPS	172	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	19,782	LIGHTING		1.25	KITCHEN	2,826	0.80	
AMPS	165	RECEPTACLES	360	1.0/.5	EXISTING	31,072	1.00	
TOTAL PHASE C - VA	19,497	MOTORS	25,218	1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	162	SUPP HEAT	500	1.00	SHOW WNDW		1.25	59,411 VA
TOTAL PNLBD - VA	59,976	MISC EQUIP		1.00	LTG TRACK		1.00	165 A
AMPS	166							

PANELBOARD NOTES

PANELBOARD: K (RELOCATED)

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: PNLBD L
AIC RATING: 10000 FULLY RATED
SERVES: CHECKSTANDS & CLEAN POWER
MOUNTING: SURFACE
LOCATION: CLINIC HALL

EQUIPMENT GROUND BUS

	CKT	DESCRIPTION	VOLTAMPS/PHASE			WIRE	BKR	P	P	BKR	WIRE	VOLTAMPS/PHASE			DESCRIPTION	CKT	
	NO.		A	B	C	NO.	AMP			AMP	NO.	A	B	C		NO.	
EX	1	MGRS CKT UNIT	500			EX	20	1	1	20	EX	500			RX ISLAND IG RCPT	2	EX
EX	3	CUSTOMER SERVICE		500		EX	20	1	1	20	EX		500		2 CUST SERV TERMINALS	4	EX
EX	5	CHECKSTAND TERMINAL			1,000	EX	20	1	1	20	EX			500	CHECKSTAND TERMINAL	6	EX
EX	7	CHECKSTAND TERMINAL	1,000			EX	20	1	1	20	EX	500			SECURITY DOOR PEDESTAL	8	EX
EX	9	CHECKSTAND TERMINAL		1,000		EX	20	1	1	20	EX		500		DOOR PEDESTAL	10	EX
EX	11	SPARE UNDER 7 & 8			500	EX	20	1	1	20	EX			500	COUNTER IG RCPTS CRX	12	EX
EX	13	EXPRESS 9 & 10	1,000			EX	20	1	1	20	EX	1,000			EXPRESS 7-8	14	EX
EX	15	CHECKSTAND		1,000		EX	20	1	1	20	EX		1,000		CHECKSTAND TERMINAL	16	EX
EX	17	CHECKSTAND			1,000	EX	20	1	1	20	EX			1,000	CHECKSTAND TERMINAL	18	EX
EX	19	CHECKSTAND	1,000			EX	20	1	1	20	EX	1,000			CHECKSTAND TERMINAL	20	EX
EX	21	RX REFRIGERATOR RCPT		1,000		EX	20	1	1	20	EX		1,000		CUSTOMER SERVICE	22	EX
EX	23	EXISTING LOAD			1,000	EX	20	1	1	20	EX			1,000	DELI REG. SEATING AREA	24	EX
EX	25	RX FAX UNIT RCPT	500			EX	20	1	1	20	EX	1,000			ASST. MGR CRT UNIT	26	EX
EX	27	COUNTER IG RCPT		500		EX	20	1	1	20	EX		1,000		CHECKSTAND TERMINAL	28	EX
EX	29	DIRECTORS CRT UNIT			500	EX	20	1	1	20	EX			1,000	BOOKKEEPER PRINTER	30	EX
EX	31	EXISTING LOAD	500			EX	20	1	1	20	EX	1,000			BOOKKEEPER OFF CRT UNIT	32	EX
EX	33	2 DEPT HEADS OFF CRT UNIT		500		EX	20	1	1	20	EX		1,000		MMM UNIT RCPT	34	EX
EX	35	TOWER PROCESSOR RCPT			500	EX	20	1	1	20	EX			1,000	SCAN RM CRT UNITS	36	EX
EX	37	SCAN ROOM PRINTERS	500			EX	20	1	1	20	EX	1,000			BASS UNITS	38	EX
EX	39	SCAN ROOM SCANNER WAND		500		EX	20	1	1	20	EX		1,000		FLORAL TERMINAL	40	EX
EX	41	ASST. DIR. CRT UNIT			500	EX	20	1	1	20	EX			1,000	TOWER RM RCPT TAYLOR CTRL	42	EX
		SUBTOTAL	5,000	5,000	5,000							6,000	6,000	6,000	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	11,000	COOLING		1.00	REFRIG		1.00	
AMPS	92	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	11,000	LIGHTING		1.25	KITCHEN		1.00	
AMPS	92	RECEPTACLES		1.0/.5	EXISTING	35,000	0.80	
TOTAL PHASE C - VA	11,000	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	92	SUPP HEAT		1.00	SHOW WNDW		1.25	28,000 VA
TOTAL PNLBD - VA	33,000	MISC EQUIP		1.00	LTG TRACK		1.00	78 A
AMPS	92							

PANELBOARD NOTES

PANELBOARD: KP (NEW)

BUS AMPS: 125A
MAIN SIZE/TYPE: 125A MCB
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: FCA +10% MINIMUM
SERVES: PHARMACY
MOUNTING: RECESSED
LOCATION: PHARMACY

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

CKT	DESCRIPTION	VOLTAMPS/PHASE			WIRE	BKR	P	P	BKR	WIRE	VOLTAMPS/PHASE			DESCRIPTION	CKT
NO.		A	B	C	NO.	AMP			AMP	NO.	A	B	C		NO.
1							1	1							2
3							1	1							4
5							1	1							6
7							1	1							8
9							1	1							10
11							1	1							12
13							1	1							14
15							1	1							16
17							1	1							18
19							1	1							20
21							1	1							22
23							1	1							24
25							1	1							26
27							1	1							28
29							1	1							30
31							1	1							32
33							1	1							34
35							1	1							36
37	PNLBD CL	1,800						1							38
39			1,720		OL	50	3	1							40
41				2,660				1							42
	SUBTOTAL	1,800	1,720	2,660										SUBTOTAL	

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	1,800	COOLING		1.00	REFRIG		1.00	
AMPS	15	HEATING		0	SIGN/DISP		1.25	
TOTAL PHASE B - VA	1,720	LIGHTING		1.25	KITCHEN		1.00	
AMPS	14	RECEPTACLES	6,180	1.0/.5	EXISTING		1.00	
TOTAL PHASE C - VA	2,660	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
AMPS	22	SUPP HEAT		1.00	SHOW WNDW		1.25	6,180 VA
TOTAL PNLBD - VA	6,180	MISC EQUIP		1.00	LTG TRACK		1.00	17 A
AMPS	17							

PANELBOARD NOTES

PANELBOARD LEGEND

ABBREVIATIONS V1.00

AF	ARC FAULT CIRCUIT INTERRUPTER.	LCK	HANDLE PADLOCKABLE-OFF DEVICE.
C#	CIRCUIT VIA LIGHTING CONTACTOR #.	LO	HANDLE-ON CLAMP.
CL	CIRCUIT VIA CURRENT LIMITING DEVICE.	N	PROVIDE NEW CIRCUIT BREAKER.
D	DISCONNECT CIRCUITRY FOR REMOVED LOAD, UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.	OL	REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.
EM	EMERGENCY LIGHTING HANDLE-ON CLAMP.	PS	POWER-SWITCHING CIRCUIT BREAKER.
EX	EXISTING.	PSE	EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.
F	FUTURE LOAD; NOTE AS SPARE AND TURN OFF.	R	REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD.
FA	RED/HANDLE-ON CLAMP.	RP	CIRCUIT VIA RELAY PANEL.
GF	GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).	ST	SHUNT TRIP CIRCUIT BREAKER.
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).	V	VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED, NOTE AS SPARE AND TURN OFF.
HT	PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.	VD	BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.
IG	ISOLATED GROUND CIRCUIT.	Z	CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION.
L#	LIGHTING CONTROL SCHEME NUMBER.		

NOT ALL ABBREVIATIONS ARE USED.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/29/2020

REVISION DATE BY

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

PROFESSIONAL SEAL

STATE OF MISSOURI
DEAN WAY CHANDLER
NUMBER PE-2017036652
PROFESSIONAL ENGINEER

DEAN W. CHANDLER Oct 23 2020
LICENSE # PE-2017036652

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE EMPLOYEE OWNED

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

NORTH PLAN NORTH

ELECTRICAL PANEL SCHEDULES

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
E1.1

10/23/2020 9:17:26 AM
DEAN W. CHANDLER

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/29/2020

REVISION DATE BY

PANELBOARD: L (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: ATS
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
SERVES: EMERGENCY/ NIGHT LIGHTING
MOUNTING: RECESSED
LOCATION: ELECTRICAL ROOM

EQUIPMENT GROUND BUS
FEED THRU LUGS

	CKT NO.	DESCRIPTION	A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	A	B	C	DESCRIPTION	CKT NO.	
R,EM	1	**EM LTG - OFFICES/EXIT HALL**	400			12	20	1	1	20	EX	500			*XFMR FOR LOUVERS*	2	EX
EX	3	*8 SALES AREA LT FIXT*		750		EX	20	1	1	20	EX		500		*EXISTING LOAD*	4	EX
EX	5	*8 SALES AREA LT FIXT*			750	EX	20	1	1	20	EX			500	*EXISTING LOAD*	6	EX
EX	7	*LANDING LIGHT*	750			EX	20	1				11,000				8	
EX	9	*7 SALES AREA LT FXTT*		750		EX	20	1	3	80	EX		11,000		*PNLBD K*	10	EX
EX	11	*8 SALES AREA LT FIXT*			750	EX	20	1						11,000		12	
EX	13	*8 SALES AREA LT FIXT*	750			EX	20	1	1	20	EX	750			*DAIRY COVER LIGHTS*	14	EX
EX	15	*8 SALES AREA LT FIXT*		750		EX	20	1	1	20	EX		750		*DAIRY COVER LIGHTS*	16	EX
EX	17	*7 FRONT ENTRY LT FIXT*			750	EX	20	1	1	20	EX			750	*DAIRY COVER LIGHTS*	18	EX
EX	19	*5 FRONT ENTRY LT FIXT*	750			EX	20	1	1	20	EX	750			*DAIRY COVER LIGHTS*	20	EX
R,EM	21	**EM LTG - BAKERY/DELI/SF/MEAT**		1,038		12	20	1	1	20	EX		750		*DAIRY COVER LIGHTS*	22	EX
EX	23	*BACKROOM LTS*			750	EX	20	1	1	20	EX			500	*SPRINKLER BELL*	24	EX
R,EM	25	**EM LTG - MARKET GRILLE**	110			12	20	1	1	20	EX	500			*TELE BOARD RCPT*	26	EX
EX	27	*SALES AREA LIGHTS*		750		EX	20	1								28	
EX	29	*SALES AREA LIGHTS*			750	EX	20	1	3	30					SPARE	30	V
EX	31	*BACKROOM LTS*	750			EX	20	1								32	
R,EM	33	**EM LTG - KITCHEN/ASIAN/PIZZA**		398		12	20	1	1	20	EX		500		*EXISTING LOAD*	34	EX
R,EM	35	**EM LTG - CUST RRS/HALL**			398	12	20	1	1	20	EX			500	*FIRE ALARM PANEL*	36	EX
	37	*PNLBD LL*	5,330						1	20	EX	500			*TIME CLOCK*	38	EX
EX	39			5,164		EX	80	3	1	20	EX		500		*TELE & INTERCOM PANEL*	40	EX
	41				5,452				1	20	EX			750	*SCAN RM & HALLWAY LT*	42	EX
		SUBTOTAL	8,840	9,600	9,600							14,000	14,000	14,000	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	22,840							
AMPS	190	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	23,600	HEATING		0	SIGN/DISP		1.25	
AMPS	197	LIGHTING	3,262	1.25	KITCHEN		0.90	
TOTAL PHASE C - VA	23,600	RECEPTACLES		1.0/.5	EXISTING	66,778	1.00	
AMPS	197	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	70,040	SUPP HEAT		1.00	SHOW WNDW		1.25	70,856 VA
AMPS	194	MISC EQUIP		1.00	LTG TRACK		1.00	197 A

PANELBOARD NOTES

PANELBOARD: LK (NEW)

BUS AMPS: 125A
MAIN SIZE/TYPE: 125A MCB
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: FCA +10% MINIMUM
SERVES:
MOUNTING: SURFACE
LOCATION: COMM ROOM

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	A	B	C	DESCRIPTION	CKT NO.	
	1							1	1							2	
	3							1	1							4	
	5							1	1							6	
	7							1	1							8	
	9							1	1							10	
	11							1	1							12	
	13							1	1							14	
	15							1	1							16	
	17							1	1							18	
	19							1	1							20	
	21							1	1							22	
	23							1	1							24	
	25							1	1							26	
	27							1	1							28	
	29							1	1							30	
	31							1	1							32	
	33							1	1							34	
	35							1	1							36	
	37							1	1							38	
	39							1	1							40	
	41							1	1							42	
		SUBTOTAL													SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA								
AMPS		COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA		HEATING		0	SIGN/DISP		1.25	
AMPS		LIGHTING		1.25	KITCHEN		1.00	
TOTAL PHASE C - VA		RECEPTACLES		1.0/.5	EXISTING		1.00	
AMPS		MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA		SUPP HEAT		1.00	SHOW WNDW		1.25	
AMPS		MISC EQUIP		1.00	LTG TRACK		1.00	

PANELBOARD NOTES

PANELBOARD: M (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: FLORAL & FRONT POWER
MOUNTING: RECESSED
LOCATION: CUSTOMER SERVICE

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	A	B	C	DESCRIPTION	CKT NO.	
N	1	**HOT CHICKEN CASE**	2,863			8	40	2	1	20	12	1,000			**CASH RECYCLE MACHINE**	2	R
	3			2,863					1	20	12		500		**CASH ACCT - SAFE**	4	R
R	5	**CUSTOMER SERVICE PRINTERS**			1,000	12	20	1	1	20	12			500	**CASH ACCT - PRINTER**	6	R
R	7	**COINSTAR**	500			12	20	1	1	20	12	696			**SCO FRIDGES 1**	8	R
	9			7,686					1	20	12		696		**SCO FRIDGES 2**	10	R
EX	11	*EXISTING LOAD*			7,686	EX	80	3	1	20	12			696	**SCO FRIDGES 3**	12	R
	13		7,686						1	20	12	696			**SCO FRIDGES 4**	14	R
	15			7,686					1	20	12		180		**CART CHARGER 1**	16	R
EX	17	*EXISTING LOAD*			7,686	EX	80	3	1	20	12			180	**CART CHARGER 2**	18	R
	19		7,686						1	20	12	1,000			**ATM 1**	20	R
R	21	**SALES GONDOLA 1**		360		12	20	1	1	20	12		1,000		**ATM 2**	22	R
R	23	**SALES GONDOLA 2**			360	12	20	1	1	20	12			540	**FLORAL SALES RCPTS**	24	R
R	25	**SALES GONDOLA 3**	360			12	20	1	1	20	12	720			**FLORAL BACK COUNTER**	26	R
R	27	**SALES GONDOLA 4**		360		12	20	1	1	20	12		720		**FLORAL PREP ROOM 1**	28	R
R	29	**SALES GONDOLA 5**			360	12	20	1	1	20	12			360	**FLORAL PREP ROOM 2**	30	R
R	31	**SALES GONDOLA 6**	360			12	20	1	1	20	12	500			**FLORAL WALK IN AUTO DOOR**	32	R
R	33	**SALES GONDOLA 7**		360		12	20	1	1	20	12		180		**PRODUCE CASE RCPT**	34	R
R	35	**SALES GONDOLA 8**			360	12	20	1	2	20	12			1,946	**PRODUCE DROP CORD 1**	36	N
R	37	**SALES GONDOLA 9**	360			12	20	1				1,946				38	
R	39	**SALES GONDOLA 10**		360		12	20	1	2	20	12		1,946		**PRODUCE DROP CORD 2**	40	R
R	41	**SALES GONDOLA 11**			360	12	20	1						1,946		42	
		SUBTOTAL	19,815	19,675	17,812							6,558	5,222	6,168	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	26,373							
AMPS	220	COOLING		0	REFRIG		1.00	
TOTAL PHASE B - VA	24,897	HEATING	5,726	1.00	SIGN/DISP		1.25	
AMPS	207	LIGHTING		1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	23,980	RECEPTACLES	22,908	1.0/.5	EXISTING	46,116	1.00	
AMPS	200	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	75,250	SUPP HEAT		1.00	SHOW WNDW		1.25	68,796 VA
AMPS	209	MISC EQUIP	500	1.00	LTG TRACK		1.00	191 A

PANELBOARD NOTES

PANELBOARD: N (RELOCATED)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: PHARMACY & SALES FLR POWER
MOUNTING: SURFACE
LOCATION: CLINIC HALL

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	A	B	C	DESCRIPTION	CKT NO.	
EX	1	*PHARMACY LT LIXT*	1,200			EX	20	1				5,356				2	
EX	3	*PHARMACY GFCI*		500		EX	20	1	3	50	6		5,356		**RTU-11 (CUST SERV/AOL)**	4	N
EX	5	*SECURITY & TV RCPT*			500	EX	20	1						5,356		6	
EX	7	*EXISTING LOAD*	500			EX	20	1	1	20					**SPARE**	8	V
EX	9	*EXISTING LOAD*		500		EX	20	1	1	20	12		500		**BP MACHINE**	10	R
EX	11	*EXISTING LOAD*			500	EX	20	1	1	20	12			1,000	**CUSTOMER SERVICE COPIER**	12	R
R	13	**SALES FLOOR 10' RCPTS**	1,440			12	20	1	1	20	EX	500			*HANDICAPPED SHOP CART*	14	EX
R	15	**BULK FOOD SCALES**		360		12	20	1	2	30	EX		2,496		*EXISTING LOAD*	16	EX
N	17	**WH-4 A**			4,150	6	50	2						2,496		18	
	19		4,150						1	20	EX	500			*EXISTING LOAD*	20	EX
R	21	**CUSTOMER SERVICE SCREENS**		360		12	20	1	1	20	EX		500		*EXISTING LOAD*	22	EX
EX	23	***EX. FAN EF-6***			500	EX	20	1	1	20	EX			500	*EXISTING LOAD*	24	EX
R	25	**ELECTRIC WATER COOLER**	500			12	20	1	1	20	12	360			**BEAUTY SHELVING 4**	26	R
N	27	**WH-4 B**		4,150		6	50	2	1	20	12		360		**BEAUTY SHELVING 5**	28	R
	29				4,150				1	20	12			360	**CANDY SHELVING 1**	30	R
R	31	**BEAUTY SHELVING MONITOR**	180			12	20	1	1	20	12	360			**CANDY SHELVING 2**	32	R
R	33	**BEAUTY SHELVING 1**		1,200		12	20	1	1	20	12		500		**CANDY SHOP END CAP**	34	EX
R	35	**BEAUTY SHELVING 2**			1,200	12	20	1	1	20	12			500	**KIDDIE RIDE**	36	EX
R	37	**BEAUTY SHELVING 3**	1,200			12	20	1	1	20	EX	1,200			*NON FOOD SHELF LTG*	38	EX
EX	39	*EXISTING LOAD*		500		EX	20	1	1	20	EX		500		*EXISTING LOAD*	40	EX
EX	41	*EXISTING LOAD*			500	EX	20	1	1	20	12			360	**ROOFTOP RCPTS**	42	R
		SUBTOTAL	9,170	7,570	11,500							8,276	10,212	10,572	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	17,446							
AMPS	145	COOLING	16,068	1.00	REFRIG		1.00	
TOTAL PHASE B - VA	17,782	HEATING		0	SIGN/DISP		1.25	
AMPS	148	LIGHTING	3,600	1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	22,072	RECEPTACLES	5,640	1.0/.5	EXISTING	13,892	1.00	
AMPS	184	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	57,300	SUPP HEAT	16,600	1.00	SHOW WNDW		1.25	58,200 VA
AMPS	159	MISC EQUIP	1,500	1.00	LTG TRACK		1.00	162 A

PANELBOARD NOTES

PANELBOARD: P (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: REFRIGERATION
MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	A	B	C	DESCRIPTION	CKT NO.	
EX	1	*WHITE CORD DROP*	1,000			EX	20	1	1	20					SPARE	2	
	3			2,702					1	20					SPARE	4	
N	5	**BAKERY OVEN DECK 1**			2,702	10	30	3	1	20	EX			1,000	*FREEZER HEAT TAPE*	6	EX
	7		2,702						1	20	EX	1,000			*FREEZER LIGHTS*	8	EX
	9			2,702					1	20	EX		1,000		*DOOR HEAT FREEZER*	10	EX
N	11	**BAKERY OVEN DECK 2**			2,702	10	30	3	1	20	EX			1,000	*MEAT COOLER LIGHTS*	12	EX
	13		2,702						1	20					SPARE	14	
	15			2,702					1	20					SPARE	16	
N	17	**BAKERY OVEN DECK 3**			2,702	10	30	3	1	20	EX			1,000	*MEAT COOLER HEAT TAPE*	18	EX
	19		2,702						1	20	EX	1,000			*MILK COOLER LIGHTS*	20	EX
R	21	**H-5 HOOD CONTROL**		500		12	20	1	1	20					SPARE	22	
	23	SPARE					20	1	1	20	EX			1,000	*WHITE CORD DROP*	24	EX
	25	SPARE					20	1	1	20					SPARE	26	
EX	27	*DELI COOLER LTS*		1,000		EX	20	1	1	20	EX		1,000		*PRODUCE COOLER LTS*	28	EX
	29	SPARE					20	1	1	20					SPARE	30	
	31	SPARE					20	1	1	20	EX	500			*S AIR HANDLER GFI*	32	EX
R,1	33	**LTG - WALK IN BEER COOLER**		520		12	20	1	1	20	EX		500		*S AIR HANDLER SMOKE DET.*	34	EX
R,1	35	**LTG - BEER COOLER DRS 1**			1,000	12	20	1	1	20	EX			1,000	*BAKERY DOOR SPARE ON TOP*	36	EX
R	37	**BEER COOLER DRS A/S 1**	1,000			12	20	1	1	20	EX	500			*BAKERY BARKER CASES*	38	EX
R,1	39	**LTG - BEER COOLER DRS 2**		1,000		12	20	1	1	20	EX		500		*LEAK DETECTOR SYSTEM*	40	EX
R	41	**BEER COOLER DRS A/S 2**			1,000	12	20	1	1	20	EX			500	*CHINESE FRZER HEAT TAPE*	42	EX
		SUBTOTAL	10,106	11,126	10,106							3,000	3,000	5,500	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	13,106							
AMPS	109	COOLING		1.00	REFRIG	1,000	1.00	
TOTAL PHASE B - VA	14,126	HEATING		0	SIGN/DISP		1.25	
AMPS	118	LIGHTING	2,520	1.25	KITCHEN	24,318	0.90	
TOTAL PHASE C - VA	15,606	RECEPTACLES		1.0/.5	EXISTING	13,500	1.00	
AMPS	130	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	42,838	SUPP HEAT	2,000	1.00	SHOW WNDW		1.25	42,036 VA
AMPS	119	MISC EQUIP	500	1.00	LTG TRACK		1.00	117 A

PANELBOARD NOTES

1. CONTROL VIA EXISTING LIGHTING CONTROL PANEL

PANELBOARD: S (RELOCATED)

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: W&S/OFFICES
MOUNTING: RECESSED
LOCATION: STORAGE

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	A	B	C	DESCRIPTION	CKT NO.	
N	1	**VAV 10-1**	750			12	20	2	1	20	12	500			**HUMIDOR SHELF LTG**	2	R
	3			750					1	20	12		1,200		**W&S BEER SIGN**	4	R
N	5	**VAV 10-2**			1,750	12	20	2	1	20	12			160	**LTG - BAR RECESSED**	6	R
	7		1,750						1	20	12	216			**LTG - OVERHEAD RECESSED**	8	R
N	9	**VAV 10-3**		1,000		12	20	2	1	20	12		500		**LTG - BACK BAR DISPLAY**	10	R
	11				1,000				1	20	12			180	**LTG - BAR FLOODS**	12	R
N	13	**VAV 10-4**	1,500			12	20	2				5,356				14	
	15			1,500					3	50	6		5,356		**RTU-10 (OFFICES)**	16	N
N	17	**VAV 10-5**			750	12	20	2						5,356		18	
	19		750						1	20	12	200			**LTG - BAR TRELLIS**	20	R
R	21	**DINING COFFEE MAKER**		1,800		10	30	2	2	30	10		2,000		**W&S VESTIBULE ECH**	22	R
	23				1,800									2,000		24	
N	25	**DINING CONV RCPTS 3**	900			12	20	1	1	20	12	540			**BAR TVS 2**	26	N
N	27	**DINING TVS**		360		12	20	1	1	20	12		780		**BACK BAR COOLER 1**	28	N
N	29	**BAR TVS 1**			360	12	20	1	1	20	12			780	**BACK BAR COOLER 2**	30	N
		SUBTOTAL	5,650	5,410	5,660							6,812	9,836	8,476	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	12,462							
AMPS	104	COOLING	16,068	1.00	REFRIG		1.00	
TOTAL PHASE B - VA	15,246	HEATING	11,500	0	SIGN/DISP	1,200	1.25	
AMPS	127	LIGHTING	1,756	1.25	KITCHEN	5,160	0.90	
TOTAL PHASE C - VA	14,136	RECEPTACLES	2,160	1.0/.5	EXISTING		1.00	
AMPS	118	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	41,844	SUPP HEAT	4,000	1.00	SHOW WNDW		1.25	30,567 VA
AMPS	116	MISC EQUIP		1.00	LTG TRACK		1.00	85 A

PANELBOARD NOTES

SIGN/DISPLAY - SIGNAGE & DISPLAY CASE

PANELBOARD: T (EXISTING)

BUS AMPS: 100A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: REFRIGERATION
MOUNTING: SURFACE
LOCATION: ELECTRICAL ROOM

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	A	B	C	DESCRIPTION	CKT NO.	
V	1	SPARE					20	1	1	20	EX	1,200			*TRUCK OUTLET HEATER?*	2	EX
V	3	SPARE					20	2	1	20	EX		1,000		*HVAC CONTROL PANEL*	4	EX
	5								1	20	EX			1,000	*KCPL/INNOVATOR*	6	EX
EX	7	*CHEESE CASE FANS*	500			EX	20	1	1	20	EX	1,000			*KCPL/INNOVATOR*	8	EX
	9	EQUIPPED SPACE						1	1	20	12		360		**FROZEN CASE RCPT 1**	10	R
V	11	SPARE					20	1	1	20	12			360	**FROZEN CASE RCPT 2**	12	R
	13		3,843						1	20	12	360			**FROZEN CASE RCPT 3**	14	R
EX	15	*MOTOR ROOM HEATER*		3,843		EX	40	3	1	20	12		360		**FROZEN CASE RCPT 4**	16	R
	17				3,843				1	20					SPARE	18	V
	19	EQUIPPED SPACE						1	1	20	EX	1,000			*CULLIGAN WATER SYSTEM*	20	EX
EX	21	*DEMO*		500		EX	20	1	2	20					SPARE	22	V
EX	23	*SW FROZEN RCPT*			500	EX	20	1								24	
	25		7,686						1	20	EX	500			*DAIRY COLUMN RCPT*	26	EX
EX	27	*WALK IN FREEZER*		7,686		EX	80	3	1	20	EX		500		*DAIRY RCPT*	28	EX
	29				7,686				1	20	EX			500	*T STAT SOLENOID MEAT COF.*	30	EX
		SUBTOTAL	12,029	12,029	12,029							4,060	2,220	1,860	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	16,089							
AMPS	134	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	14,249	HEATING		0	SIGN/DISP		1.25	
AMPS	119	LIGHTING		1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	13,889	RECEPTACLES	1,440	1.0/.5	EXISTING	42,787	0.80	
AMPS	116	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	44,227	SUPP HEAT		1.00	SHOW WNDW		1.25	35,670 VA
AMPS	123	MISC EQUIP		1.00	LTG TRACK		1.00	99 A

PANELBOARD NOTES

PANELBOARD: U (RELOCATED)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: FRONT OFFICE
MOUNTING: SURFACE
LOCATION: STORAGE

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	A	B	C	DESCRIPTION	CKT NO.	
	1		7,073						1	20	12	720			**BAR RCPTS & PRINTER**	2	R
N	3	**RTU-12 (WINE & SPIRITS)**		7,073		4	70	3	1	20	12		540		**SUSHI SCALE/TVS**	4	V
	5				7,073				1	20	12			190	**SUSHI RICE SHEETER**	6	V
R	7	**W&S VESTUBULE AUTO DOOR**	1,000			12	20	1	1	20	12	540			**BAR CONV RCPTS**	8	R
R	9	**SODA ICE MACHINE 2**		1,435		12	20	2	1	20	12		540		**DINING CONV RCPTS 1**	10	R
	11				1,435				1	20	12			540	**DINING CONV RCPTS 2**	12	R
V	13	**SPARE**				EX	20	2	1	20	12	264			**LTG - CUST RR VANITY**	14	R
	15								1	20	12		540		**HUMAN RESOURCES RCPT 1**	16	R
R	17	**DIRECTORS OFFICE RCPT 1**			540	12	20	1	1	20	12			720	**HUMAN RESOURCES RCPT 2**	18	R
R	19	**DIRECTORS OFFICE RCPT 2**	540			12	20	1	1	20	12	360			**HALLWAY RCPTS/TIMECLOCK**	20	R
R	21	**ASSISTANT MGRS RCPT**		540		12	20	1	1	20	12		1,000		**EMP. LOUNGE FRIDGE 1**	22	R
R	23	**RESTROOM RCPTS 1**			720	12	20	1	1	20	12			1,000	**EMP. LOUNGE FRIDGE 2**	24	R
R	25	**RESTROOM RCPTS 2**	720			12	20	1	1	20	12	720			**EMP. LOUNGE RCPTS/TV**	26	R
R	27	**RESTROOM RCPTS/MOTHERS ROOM**		720		12	20	1	1	20	EX		500		*EMS PANEL*	28	EX
N,GF	29	**EMP. LOUNGE POP MACH. 1**			500	12	20	1	1	20	12			624	**LTG - EMP LOUNGE/DEPT HD**	30	R
N,GF	31	**EMP. LOUNGE POP MACH. 2**	500			12	20	1	1	20	12	522			**LTG - ASST MGR/DIR OFF/HR**	32	R
R	33	**EMP. LOUNGE RCPTS**		720		12	20	1	1	20	12		600		**LTG - DRUM LIGHTS**	34	R
R	35	**W&S RFLN-2 DEFROST**			697	12	20	2	1	20	12			400	**LTG - TRACK PENDANTS**	36	R
	37		697						1	20	12	200			**LTG - CYLINDER LIGHTS**	38	R
R	39	**W&S RFLN-2 FANS**		1,248		12	20	1	1	20	12		500		**CP-1**	40	R
R	41	**ROOFTOP RCPTS**			720	12	20	1	1	20	EX			500	*HVAC CONTROL PANEL*	42	EX
		SUBTOTAL	10,530	11,736	11,685							3,326	4,220	3,974	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	13,856							
AMPS	115	COOLING	21,219	1.00	REFRIG	2,642	1.00	
TOTAL PHASE B - VA	15,956	HEATING		0	SIGN/DISP		1.25	
AMPS	133	LIGHTING	2,610	1.25	KITCHEN	3,060	1.00	
TOTAL PHASE C - VA	15,659	RECEPTACLES	12,440	1.0/.5	EXISTING	1,000	1.00	
AMPS	130	MOTORS	500	1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	45,471	SUPP HEAT		1.00	SHOW WNDW		1.25	44,904 VA
AMPS	126	MISC EQUIP	2,000	1.00	LTG TRACK		1.00	125 A

PANELBOARD NOTES

PANELBOARD: V (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
SERVES: BAKERY
MOUNTING: RECESSED
LOCATION: DRY STORAGE

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	A	B	C	DESCRIPTION	CKT NO.	
EX	1	*DELI PREP DISPOSAL*	500			EX	20	1	1	20	EX	1,000			*JET*	2	EX
EX	3	*RANGE RCPT*		500		EX	20	1	1	20	10		1,800		**CAPPUCCINO MACHINE**	4	R
EX	5	*RANGE RCPT*			500	EX	20	1	1	20	10			1,500	**TEA**	6	R
EX	7	*TURBO OVEN*	2,496			EX	30	2	1	20	EX	1,000			*EXISTING LOAD*	8	EX
	9			2,496					2	20	EX		1,664		***DELI TOASTER***	10	EX
EX	11	*EXISTING LOAD*			500	EX	20	1						1,664		12	
	13		456						1	20	12	804			**KITCHEN REF. TABLE COOKLINE**	14	R
N	15	**KEF-3**		456		12	20	3	1	20	EX		500		*EXISTING LOAD*	16	EX
	17				456				1	20	EX			500	*RCPT IT RACK PRODUCE*	18	EX
EX	19	*DELI GAS FRYER*	1,200			EX	20	1	2	20	EX	1,664			*EXISTING LOAD*	20	EX
	21			4,804									1,664			22	
EX	23	*DELI FRYER*			4,804	EX	50	3	1	20	EX			500	*EXISTING LOAD*	24	EX
	25		4,804									2,882				26	
EX	27	DELI COFFEE MAKER		2,496		EX	30	1	3	30	EX		2,882		*EXISTING LOAD*	28	EX
	29				2,496									2,882		30	
	31		4,804						1	20	EX	500			*EXISTING LOAD*	32	EX
EX	33	*DELI FRYER*		4,804		EX	50	3	1	20	EX		500		*EXISTING LOAD*	34	EX
	35				4,804				1	20	EX			500	*EXISTING LOAD*	36	EX
EX	37	*SMOKER*	2,496			EX	30	2	1	20	10	720			**8 HEAD SODA MACHINE 1**	38	R
	39			2,496					1	20	10		720		**8 HEAD SODA MACHINE 2**	40	R
	41	EQUIPPED SPACE						1	1	20	10			1,800	**SODA ICE MAKER 1**	42	R
		SUBTOTAL	16,756	18,052	13,560							8,570	9,730	9,346	SUBTOTAL		

		LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
TOTAL PHASE A - VA	25,326							
AMPS	211	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	27,782	HEATING		0	SIGN/DISP		1.25	
AMPS	232	LIGHTING		1.25	KITCHEN	7,344	0.65	
TOTAL PHASE C - VA	22,906	RECEPTACLES		1.0/.5	EXISTING	67,302	1.00	
AMPS	191	MOTORS	1,368	1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	76,014	SUPP HEAT		1.00	SHOW WNDW		1.25	73,444 VA
AMPS	211	MISC EQUIP		1.00	LTG TRACK		1.00	204 A

PANELBOARD NOTES

PANELBOARD LEGEND

ABBREVIATIONS V1.00

AF	ARC FAULT CIRCUIT INTERRUPTER.
C#	CIRCUIT VIA LIGHTING CONTACTOR #.
CL	CIRCUIT VIA CURRENT LIMITING DEVICE.
D	DISCONNECT CIRCUITRY FOR REMOVED LOAD, UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.
EM	EMERGENCY LIGHTING HANDLE-ON CLAMP.
EX	EXISTING.
F	FUTURE LOAD; NOTE AS SPARE AND TURN OFF.
FA	RED/HANDLE-ON CLAMP.
GF	GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).
HT	PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.
IG	ISOLATED GROUND CIRCUIT.
L#	LIGHTING CONTROL SCHEME NUMBER.
LCK	HANDLE PADLOCKABLE-OFF DEVICE.
LO	HANDLE-ON CLAMP.
N	PROVIDE NEW CIRCUIT BREAKER.
OL	REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.
PS	POWER-SWITCHING CIRCUIT BREAKER.
PSE	EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.
R	REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD.
RP	CIRCUIT VIA RELAY PANEL.
ST	SHUNT TRIP CIRCUIT BREAKER.
V	VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED, NOTE AS SPARE AND TURN OFF.
VD	BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.
Z	CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION.

NOT ALL ABBREVIATIONS ARE USED.

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
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1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

PROFESSIONAL SEAL

STATE OF MISSOURI
DEAN WAY CHANDLER
NUMBER PE-2017036652
PROFESSIONAL ENGINEER

DEAN W. CHANDLER Oct 23 2020
LICENSE # PE-2017036652

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH
PLAN NORTH

ELECTRICAL PANEL SCHEDULES

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
E1.2

DEAN W. CHANDLER
10/23/2020 9:17:39 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/29/2020

REVISION | DATE | BY

PANELBOARD: VV (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
SERVES: BACK OF HOUSE
MOUNTING: RECESSED
LOCATION: DRY STORAGE

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
EX	1	BACKROOM LIGHTS	1,200			EX	20	1	1	20	EX	1,000			UNIT HEATERS	2	EX
EX	3	BACKROOM LIGHTS		1,200		EX	20	1	1	20	12		360		DSD ROOM RCPTS	4	R
EX	5	BACKROOM LIGHTS			1,200	EX	20	1	1	20	12			252	CS-1	6	R
EX	7	BACKROOM LIGHTS	1,200			EX	20	1	1	20	EX	1,200			POP STORAGE LTG	8	EX
EX	9	DOCK RCPT		500		EX	20	1	1	20	EX		1,200		POP STORAGE LTG	10	EX
	11	EQUIPPED SPACE						1	1	20	EX			500	DSD ROOM AC	12	EX
	13		1,921						1	20	EX	500			EXISTING LOAD	14	EX
EX	15	EAST DOCK LEVELER		1,921		EX	20	3	1	20	EX		1,000		FLOOR MACHINE RCPT	16	EX
	17				1,921				1	20	12			1,000	EMP. LOUNGE MICROWAVE	18	R
	19		1,921						1	20					SPARE	20	V
EX	21	WEST DOCK LEVELER		1,921		EX	20	3	1	20	12		500		TF-1	22	R
	23				1,921				1	20	12			500	TF-2	24	R
	25		4,804						1	20	EX	1,000			BAKERY OVEN & AROMA FAN	26	EX
EX	27	SOUTH COMPACTOR		4,804		EX	50	3					456			28	
	29				4,804				3	20	12			456	KEF-8	30	N
EX	31	RCPTS SOUTH ENTRY	500			EX	20	1				456				32	
EX	33	RCPTS SOUTH ENTRY		500		EX	20	1	1	20	12		500		H-8 HOOD CONTROL	34	R
EX	35	RCPTS SOUTH ENTRY			500	EX	20	1	1	20	12			270	HIBACHI COLD BAR	36	R
EX	37	RCPTS SOUTH ENTRY	500			EX	20	1	1	20	12	500			H-2 HOOD CONTROL	38	R
EX	39	RCPTS SOUTH ENTRY		500		EX	20	1	1	20	12		180		CHECKOUT PRINTER	40	R
EX	41	RCPT ALARM BACK ROOM			500	EX	20	1	1	20	EX			1,000	RCPT BACK DOOR/COKE MACH.	42	EX
		SUBTOTAL	12,046	11,346	10,846							4,656	4,196	3,978	SUBTOTAL		

TOTAL PHASE A - VA	16,702	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	139	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	15,542	HEATING		0	SIGN/DISP		1.25	
AMPS	130	LIGHTING		1.25	KITCHEN	1,270	1.00	
TOTAL PHASE C - VA	14,824	RECEPTACLES	540	1.0/.5	EXISTING	42,638	1.00	
AMPS	124	MOTORS	1,620	1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	47,068	SUPP HEAT		1.00	SHOW WNDW		1.25	47,068 VA
AMPS	131	MISC EQUIP	1,000	1.00	LTG TRACK		1.00	131 A

PANELBOARD NOTES

PANELBOARD: W (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
SERVES: DELI
MOUNTING: RECESSED
LOCATION: DRY STORAGE

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
	1		1,741						1	20	EX	500			RTU #3 SMOKE DETECTOR	2	EX
R	3	MAU-1 CONDENSER 1		1,741		12	20	3	1	20	EX		500		BAGIN BOX	4	EX
	5				1,741				1	20	EX			500	EXISTING LOAD	6	EX
	7		2,570						1	20	EX	500			EXISTING LOAD	8	EX
N	9	MAU-1 CONDENSER 2		2,570		10	30	3					793			10	
	11				2,570				3	20	12			793	KEF-2	12	N
	13		733									793				14	
R	15	KEF-1A		733		12	20	3	1						EQUIPPED SPACE	16	V
	17				733				1	20	EX			500	CHINESE FRYER, PRINTER	18	EX
	19		456						1	20	12	500			ASIAN/HIBACHI TV MENUS	20	R
R	21	KEF-1B		456		12	20	3	1	20	12		500		HICKORY/REGISTERS TV MENUS	22	R
	23				456				1	20	12			1,600	PIZZA REF TABLE	24	R
	25		6,725						1	20	EX	500			PIZZA HOT LAMPS	26	EX
EX	27	RTU-3 (DINING)		6,725		EX	70	3	1	20	12		1,120		KITCHEN REACH IN FREEZER	28	R
	29				6,725				1	20	12			360	PIZZA TVS	30	R
	31	EQUIPPED SPACE						1	1	20	12	480			PIZZA OVEN VIA HCP	32	N,GF
EX	33	ROOF TOP #3 GFI		500		EX	20	1	1	20	12		1,150		PIZZA DOUGH PRESS	34	R
	35	EQUIPPED SPACE						1	1	20	12			500	PIZZA SCALE AND LOWERATOR	36	R
	37		7,686						1	20	12	756			PIZZA - EF-4	38	R
EX	39	EXISTING LOAD		7,686		EX	80	3	1	20	12		500		HOOD H-4 CONTROL	40	R
	41				7,686				1	20	EX			500	PIZZA COLUMN RCPT	42	EX
		SUBTOTAL	19,911	20,411	19,911							4,029	4,563	4,753	SUBTOTAL		

TOTAL PHASE A - VA	23,940	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	200	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	24,974	HEATING		0	SIGN/DISP		1.25	
AMPS	208	LIGHTING		1.25	KITCHEN	4,850	0.70	
TOTAL PHASE C - VA	24,664	RECEPTACLES	1,860	1.0/.5	EXISTING	47,233	1.00	
AMPS	206	MOTORS	19,635	1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	73,578	SUPP HEAT		1.00	SHOW WNDW		1.25	72,123 VA
AMPS	204	MISC EQUIP		1.00	LTG TRACK		1.00	200 A

PANELBOARD NOTES

PANELBOARD: X (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: KITCHEN
MOUNTING: RECESSED
LOCATION: DRY STORAGE

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
R	1	CHINESE PRINTERS	360			12	20	1				4,323				2	
R	3	CHINESE RICE WARMER/LOW.		500		12	20	1	3	50	6		4,323		BAKERY PROOFER	4	N
R	5	CHINESE REF. TABLE			1,080	12	20	1						4,323		6	
	7		2,954						1	20	12	500			BAKERY PROOFER CONTROL	8	R
R	9	DELI DISHWASHER		2,954		10	30	3	1	20	12		360		BAKERY FLOOR BOXES	10	R
	11				2,954				2	20	EX			1,664	BACK RM ICE MACHINE	12	EX
EX	13	PANINI PRESS	1,664			EX	20	2				1,664				14	
	15			1,664					1	20					SPARE	16	V
R	17	KITCHEN OIL SYSTEM			1,320	12	20	1	1	20					SPARE	18	V
EX	19	EXISTING LOAD	500			EX	20	1	1	30	EX	500			EXISTING LOAD	20	EX
EX	21	EXISTING LOAD		500		EX	20	1	2	20	EX		1,664		EXISTING LOAD	22	EX
EX	23	EXISTING LOAD			500	EX	20	1						1,664		24	
EX	25	EXISTING LOAD	500			EX	20	1				5,440				26	
EX	27	PRODUCE BUG LIGHT		500		EX	20	1	3	60	6		5,440		MAU-1 FANS	28	N
EX	29	WINE TASTING RCPT			500	EX	20	1						5,440		30	
EX	31	WINE TASTING RCPT	500			EX	20	1	1	20	EX	500			CLG RCPT FRUIT & JUICE RCPT	32	EX
R	33	BAKERY WRAPPER		500		12	20	1	1	20	12		1,375		CHINESE HEAT LAMPS 1	34	R
R	35	BAKERY SCALES 2			360	12	20	1	1	20	12			1,375	CHINESE HEAT LAMPS 2	36	R
EX	37	BAKERY DISPLAY CASE	500			EX	20	1				9,607				38	
EX	39	TV RCPT		500		EX	20	1	3	100	EX		9,607		BAKERY PAN WASH	40	EX
EX	41	TV RCPT			500	EX	20	1						9,607		42	
		SUBTOTAL	6,978	7,118	7,214							22,534	22,769	24,073	SUBTOTAL		

TOTAL PHASE A - VA	29,512	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	246	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	29,887	HEATING		0	SIGN/DISP		1.25	
AMPS	249	LIGHTING	2,750	1.25	KITCHEN	15,049	0.80	
TOTAL PHASE C - VA	31,287	RECEPTACLES	1,080	1.0/.5	EXISTING	44,805	0.80	
AMPS	261	MOTORS	25,182	1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	90,686	SUPP HEAT		1.00	SHOW WNDW		1.25	79,403 VA
AMPS	252	MISC EQUIP	1,820	1.00	LTG TRACK		1.00	220 A

PANELBOARD NOTES

PANELBOARD: AA1 (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: CONTRACTOR TO VERIFY AND NOTIFY EOR
SERVES: FRONT OF HOUSE
MOUNTING: RECESSED
LOCATION: CUSTOMER SERVICE

LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
EX	1	JEWELRY GONDOLA	500			EX	20	1	1	20	EX	500			DRY CLEAN & POSTAL IG	2	EX
EX	3	GONDOLA		500		EX	20	1	1	20	EX		1,000		2014 WATER DISP.	4	EX
EX	5	S POP MACHINE RCPTS			1,000	EX	20	1	1	20	EX			500	DEMO RCPT WEST END	6	EX
EX	7	S POP MACHINE RCPTS	1,000			EX	20	1	1	20	EX	1,000			EXISTING LOAD	8	EX
EX	9	EXISTING LOAD		1,000		EX	20	1	1	20	EX		1,000		EXISTING LOAD	10	EX
EX	11	EXISTING LOAD			1,000	EX	20	1	1	20	EX			1,000	EXISTING LOAD	12	EX
EX	13	EXISTING LOAD	1,000			EX	20	1	1	20	EX	1,000			EXISTING LOAD	14	EX
EX	15	EXISTING LOAD		1,000		EX	20	1	1	30	EX		1,000		COFFEE GRINDER	16	EX
EX	17	EXISTING LOAD			1,000	EX	20	1	2	40	EX			3,328	EXISTING LOAD	18	EX
EX	19	EXISTING LOAD	1,000			EX	20	1				3,328				20	
EX	21	EXISTING LOAD		1,000		EX	20	1	1	20	EX		1,000		EXISTING LOAD	22	EX
EX	23	EXISTING LOAD			1,000	EX	20	1	1	20	EX			1,000	EXISTING LOAD	24	EX
EX	25	EXISTING LOAD	1,664			EX	20	2	1	20	12	1,000			RED BOX POWER POLE	26	R
	27			1,664					1	20	EX		500		POLE LIGHT RCPT	28	EX
EX	29	EXISTING LOAD			1,000	EX	20	1	1	20	EX			1,000	POP MACHINE	30	EX
EX	31	EXISTING LOAD	1,000			EX	20	1	1	20	EX	1,000			POP MACHINE	32	EX
EX	33	SANDWICH CASE		2,496		EX	30	2	1	20	EX		1,000		POP MACHINE	34	EX
	35				2,496				1	20	EX			1,000	LOTTO MACHINE	36	EX
EX	37	RCPT AT SANDWICH CASE	500			EX	20	1	1	20	EX	1,000			MILK COOLER	38	EX
EX	39	EXISTING LOAD		1,000		EX	20	1	1	20	12		180		CART CHARGER 1	40	R
EX	41	EXISTING LOAD			1,000	EX	20	1	1	20	12			180	CART CHARGER 2	42	R
		SUBTOTAL	6,664	8,660	8,496							8,828	5,680	8,008	SUBTOTAL		

TOTAL PHASE A - VA	15,492	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	129	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	14,340	HEATING		0	SIGN/DISP		1.25	
AMPS	120	LIGHTING		1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	16,504	RECEPTACLES	1,360	1.0/.5	EXISTING	44,976	1.00	
AMPS	138	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	46,336	SUPP HEAT		1.00	SHOW WNDW		1.25	46,336 VA
AMPS	129	MISC EQUIP		1.00	LTG TRACK		1.00	129 A

PANELBOARD NOTES

PANELBOARD: AA2 (RELOCATED)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP2
AIC RATING: 10000 FULLY RATED
SERVES: LIQUOR
MOUNTING: RECESSED
LOCATION: CLINIC HALL

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
EX	1	LIQUOR NEON - FRONT DOOR	1,200			EX	20	1	2	20	12	750			VAV 6-5	2	N
EX	3	RED BULL COOLER		1,200		EX	20	1					750			4	
EX	5	CIGARETTE SIGNAGE			1,200	EX	20	1	1	20	12			500	DSW/JF LOCKERS	6	R
EX	7	LIQUOR COUNTER REGISTERS	500			EX	20	1	1	20	EX	500			LOTTO MACHINE	8	EX
EX	9	? ROOM RCPTS		500		EX	20	1	1	20	EX		500		BAG ICE STORAGE	10	EX
EX	11	LIQUOR NEON - NORTH WALL			1,200	EX	20	1	1	20	12			360	DSW/JF RCPTS	12	R
EX	13	CORD DROP AISLE 15	500			EX	20	1	1	20	12	180			DSW/JF CHECKOUT MONITOR	14	R
EX	15	CORD DROP AISLE 17		500		EX	20	1	2	50					SPARE	16	EX
N	17	SALES FLOOR - GRINDER 1			1,000	12	20	2								18	
	19		1,000						1	20	12	540			DSW DIGITAL WALL 2	20	R
N	21	SALES FLOOR - GRINDER 2		1,000		12	20	2	1	20	12		540		DSW DIGITAL WALL 3	22	R
	23				1,000									5,356		24	
N	25	VAV 6-1	3,000			8	40	2	3	50	6	5,356			RTU-6 (PHARMACY)	26	R
	27			3,000									5,356			28	
N	29	VAV 6-2			2,750	8	40	2	2	25					SPARE	30	V
	31		2,750													32	
N	33	VAV 6-3		1,250		12	20	2	1	20					SPARE	34	V
	35				1,250											36	
N	37	VAV 6-4	2,500			8	40	2	3	70					SPARE	38	V
	39			2,500												40	
V	41	SPARE					20	1	1	20					SPARE	42	V
		SUBTOTAL	11,450	9,950	8,400							7,326	7,146	6,216	SUBTOTAL		

TOTAL PHASE A - VA	18,776	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	156	COOLING	16,068	0	REFRIG		1.00	
TOTAL PHASE B - VA	17,096	HEATING	20,500	1.00	SIGN/DISP		1.25	
AMPS	142	LIGHTING		1.25	KITCHEN	4,000	1.00	
TOTAL PHASE C - VA	14,616	RECEPTACLES	1,620	1.0/.5	EXISTING	7,800	1.00	
AMPS	122	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	50,488	SUPP HEAT		1.00	SHOW WNDW		1.25	34,420 VA
AMPS	140	MISC EQUIP	500	1.00	LTG TRACK		1.00	96 A

PANELBOARD NOTES

PANELBOARD: AB (EXISTING)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP2
AIC RATING: 10000 FULLY RATED
SERVES: REFRIGERATION
MOUNTING: RECESSED
LOCATION: ABOVE MILK/DAIRY COOLER

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
EX	1	DAIRY ISLAND CASES	500			EX	20	1	1	20	EX	1,200			DAIRY AREA LTG	2	EX
EX	3	DAIRY ISLAND CASES		500		EX	20	1	1	20	EX		1,200		DAIRY AREA LTG	4	EX
EX	5	DAIRY ISLAND RCPT			500	EX	20	1	1	20	EX			1,200	DAIRY AREA LTG	6	EX
EX	7	DAIRY CASES N & E WALLS	500			EX	20	1	1	20	EX	1,200			DAIRY AREA LTG	8	EX
EX	9	DAIRY CASES N & E WALLS		500		EX	20	1	1	20	EX		500		EXISTING LOAD	10	EX
EX	11	DAIRY ISLAND RCPTS			500	EX	20	1	1	20	EX			500	EXISTING LOAD	12	EX
EX	13	DAIRY ISLAND CASES	500			EX	20	1	1	20	EX	500			NORTH EXIT DOOR ALARM	14	EX
EX	15	DAIRY ISLAND CASES		500		EX	20	1	1	20	EX		500		WEST WALL DAIRY CASES	16	EX
EX	17	COMPRESSOR RACK CTRL			500	EX	20	1	1	20	EX			500	WEST WALL DAIRY CASES	18	EX
EX	19	LTS ABOVE RACK	500			EX	20	1	1	20	EX	500			WEST WALL DAIRY CASES	20	EX
V	21	SPARE					20	1	1	20	EX		500		DAIRY CEILING FANS	22	EX
V	23	SPARE					20	1	1	20					SPARE	24	V
EX	25	CULLIGAN H20 DISP.	500			EX	20	1	1	20	EX	500			PANEL RCPT	26	EX
V	27	SPARE					20	1	1	20					SPARE	28	V
V	29	SPARE					20	1	1	20					SPARE	30	V
	31		4,804						1						EQUIPPED SPACE	32	
EX	33	EXISTING LOAD		4,804		EX	50	3	1						EQUIPPED SPACE	34	
	35				4,804				1						EQUIPPED SPACE	36	
	37	EQUIPPED SPACE						1	1						EQUIPPED SPACE	38	
	39	EQUIPPED SPACE						1	1						EQUIPPED SPACE	40	
	41	EQUIPPED SPACE						1	1						EQUIPPED SPACE	42	
		SUBTOTAL	7,304	6,304	6,304							3,900	2,700	2,200	SUBTOTAL		

TOTAL PHASE A - VA	11,204	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	93	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	9,004	HEATING		0	SIGN/DISP		1.25	
AMPS	75	LIGHTING		1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	8,504	RECEPTACLES		1.0/.5	EXISTING	28,712	1.00	
AMPS	71	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	28,712	SUPP HEAT		1.00	SHOW WNDW		1.25	28,712 VA
AMPS	80	MISC EQUIP		1.00	LTG TRACK		1.00	80 A

PANELBOARD NOTES

PANELBOARD: BB (RELOCATED)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: MDP1
AIC RATING: 10000 FULLY RATED
SERVES: FRONT OF HOUSE
MOUNTING: SURFACE
LOCATION: CLINIC HALL

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
EX	1	GARDEN CENTER	500			EX	20	1	1	20	EX	500			CHECKOUT CONVEYOR	2	EX
EX	3	GARDEN CENTER		500		EX	20	1	1	20	EX		500		CHECKOUT CONVEYOR	4	EX
EX	5	GARDEN CENTER			500	EX	20	1	1	20	EX			500	CHECKOUT CONVEYOR	6	EX
EX	7	PHARMACY RCPT & BLOWER	500			EX	20	1	1	20	EX	500			CHECKOUT CONVEYOR	8	EX
EX	9	PHARMACY TUBE		500		EX	20	1	1	20	EX		500		CHECKOUT CONVEYOR	10	EX
EX	11	ICE MACHINE NON FOOD			500	EX	20	1	1	20	EX			500	EXPRESS RCPT	12	EX
R	13	LTG - PHARMACY	486			12	20	1	1	20	EX	500			POP RCPT	14	EX
R	15	LTG - PHARMACY SOFFIT		144		12	20	1	1	20	EX		500		POP RCPT	16	EX
R	17	LTG - CLINIC			504	12	20	1	1	20	EX			500	POP RCPT	18	EX
R	19	DSW DIGITAL WALL 1	540			12	20	1	1	20	EX	500			POP RCPT	20	EX
R	21	DSW/JF CHECKOUT RCPTS		360		12	20	1	1	20	EX		500		EXISTING LOAD	22	EX
R	23	PREMIUM CANDY			1,000	12	20	1	1	20	EX			50	EXISTING LOAD	24	EX
EX	25	PHARMACY TUBE BLOWER	2,496			EX	30	2	1	20	EX	500			EXISTING LOAD	26	EX
	27			2,496					1	20	EX		500		EXISTING LOAD	28	EX
	29				1,000				1	20	EX			500	EXISTING LOAD	30	EX
N	31	WH-6	1,000			12	20	3	1	20	EX	500			EXISTING LOAD	32	EX
	33			1,000					2	50	EX		4,160		EXISTING LOAD	34	EX
R	35	LTG - FLORAL TRACK			64	12	20	1						4,160		36	
EX	37	POP MACHINES	500			EX	20	1	1	20	EX	500			VIDEO CIRCUIT	38	EX
EX	39	EXISTING LOAD		1,000		EX	20	2	1						EQUIPPED SPACE	40	
	41				1,000				1	20	EX			500	PHARMACY POWER POLE	42	EX
		SUBTOTAL	6,022	6,000	4,568							3,500	6,660	6,710	SUBTOTAL		

TOTAL PHASE A - VA	9,522	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	79	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	12,660	HEATING		0	SIGN/DISP		1.25	
AMPS	106	LIGHTING	1,198	1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	11,278	RECEPTACLES	1,400	1.0/.5	EXISTING	19,870	1.00	
AMPS	94	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	33,460	SUPP HEAT	3,000	1.00	SHOW WNDW		1.25	33,760 VA
AMPS	93	MISC EQUIP	7,992	1.00	LTG TRACK		1.00	94 A

PANELBOARD NOTES

PANELBOARD: LL (EXISTING)

BUS AMPS: 100A
MAIN SIZE/TYPE: 100A MCB
VOLTS/PHASE: 208Y/120V, 3PH, 4W
SECTION: 1

FED FROM: PNLBD L
AIC RATING: 10000 FULLY RATED
SERVES: FRONT OF HOUSE
MOUNTING: RECESSED
LOCATION: CUSTOMER SERVICE

EQUIPMENT GROUND BUS

	CKT NO.	DESCRIPTION	VOLTAMPS/PHASE A	B	C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VOLTAMPS/PHASE A	B	C	DESCRIPTION	CKT NO.	
EX	1	NEW COMM RACK RCPT	500			EX	20	1	1	20	EX	500			CUST. SERVICE COUNTER	2	EX
FA,EX	3	FIRE ALARM PANEL		500		EX	20	1	1	20	EX		500		EXISTING LOAD	4	EX
EX	5	RCPT SECURITY ROOM			500	EX	20	1	1	20	EX			500	POSTAL KIOSK	6	EX
EX	7	PHOTO CELL FOR R	500			EX	20	1	1	20	EX	500			EXISTING LOAD	8	EX
V	9	SPARE					20	1	1	20	EX		500		SECURITY PANEL RCPT	10	EX
EX	11	EXISTING LOAD			500	EX	20	1	1	20	12			288	EM LTG - CUST SERVICE/FOH	12	R,EM
EX	13	EXISTING LOAD	500			EX	20	1	1	20	12	630			EM LTG - CLINIC/PHARMACY	14	R,EM
EX	15	AUTO DOOR OPENER N		500		EX	20	1	1	20	EX		500		CARRY OUT DOOR OPENER	16	EX
EX	17	AUTO DOOR OPENER N			500	EX	20	1	1	20	EX			500	SAFE	18	EX
EX	19	AUTO DOOR OPENER S	500			EX	20	1	1	20	EX	1,200			SECURITY ROOM LTG'	20	EX
EX	21	AUTO DOOR OPENER S		500		EX	20	1	1	20					SPARE	22	V
EX	23	S DOOR SPARE			500	EX	20	1	1	20					SPARE	24	V
EX	25	RED BOX, LOTTO, COINSTAR	500			EX	20	1	1	20					SPARE	26	V
EX	27	EXISTING LOAD		500		EX	20	1	2	20	EX		1,664		EMERGENCY POLE LIGHT	28	EX
EX	29	EXISTING LOAD			500	EX	20	1						1,664		30	
		SUBTOTAL	2,500	2,000	2,500							2,830	3,164	2,952	SUBTOTAL		

TOTAL PHASE A - VA	5,330	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	44	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	5,164	HEATING		0	SIGN/DISP		1.25	
AMPS	43	LIGHTING	918	1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	5,452	RECEPTACLES		1.0/.5	EXISTING	15,028	1.00	
AMPS	45	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	15,946	SUPP HEAT		1.00	SHOW WNDW		1.25	16,176 VA
AMPS	44	MISC EQUIP		1.00	LTG TRACK		1.00	45 A

PANELBOARD NOTES

PANELBOARD LEGEND

ABBREVIATIONS — V1.00

AF	ARC FAULT CIRCUIT INTERRUPTER.
C#	CIRCUIT VIA LIGHTING CONTACTOR #.
CL	CIRCUIT VIA CURRENT LIMITING DEVICE.
D	DISCONNECT CIRCUITRY FOR REMOVED LOAD, UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.
EM	EMERGENCY LIGHTING HANDLE-ON CLAMP.
EX	EXISTING.
F	FUTURE LOAD; NOTE AS SPARE AND TURN OFF.
FA	RED/HANDLE-ON CLAMP.
GF	GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).
HT	PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.
IG	ISOLATED GROUND CIRCUIT.
L#	LIGHTING CONTROL SCHEME NUMBER.
LCK	HANDLE PADLOCKABLE-OFF DEVICE.
LO	HANDLE-ON CLAMP.
N	PROVIDE NEW CIRCUIT BREAKER.
OL	REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.
PS	POWER-SWITCHING CIRCUIT BREAKER.
PSE	EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.
R	REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD.
RP	CIRCUIT VIA RELAY PANEL.
ST	SHUNT TRIP CIRCUIT BREAKER.
V	VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED, NOTE AS SPARE AND TURN OFF.
VD	BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.
Z	CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION.

NOT ALL ABBREVIATIONS ARE USED.

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

PROFESSIONAL SEAL
STATE OF MISSOURI
DEAN WAY CHANDLER
NUMBER PE-2017036652
PROFESSIONAL ENGINEER
DEAN W. CHANDLER Oct 23 2020
LICENSE # PE-2017036652

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE EMPLOYEE OWNED
HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

NORTH PLAN NORTH

ELECTRICAL PANEL SCHEDULES

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET: E1.3

DEAN W. CHANDLER
10/23/2020 9:17:51 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/29/2020

REVISION | DATE | BY

PROTOCOL A (PCA) (NEW)

BUS AMPS: 200A/BUSBAR
OCPD: 350A
VOLTS/PHASE: 208Y/120V, 3PH, 4W
PANELBOARD IS SUPPLIED INTEGRALLY MOUNTED WITH PROTOCOL A
EQUIPMENT GROUND BUS
BUSBAR: 1

	CKT NO.	DESCRIPTION	VA/PHASE A	VA/PHASE B	VA/PHASE C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VA/PHASE A	VA/PHASE B	VA/PHASE C	DESCRIPTION	CKT NO.	
LCK	1	CONTROL AND RECEPTACLE	1,080			12	20	1				3,831			ZBD57KCE	2	
LCK	3	(A1) 60 IDD6SU FANS		720		12	20	1	3	40	8		3,831		COMP #1	4	LCK
LCK	5	(A1) 60 IDD6SU LTS			684	12	20	1						3,831		6	
LCK	7	(A2) KR26A089 FANS	216			12	20	1				3,831			ZB57KCE	8	
	9	EQUIPPED SPACE					20	1	3	40	8		3,831		COMP #2	10	LCK
	11	EQUIPPED SPACE					20	1						3,831		12	
	13	EQUIPPED SPACE					20	1				3,831			ZB57KCE	14	
	15	EQUIPPED SPACE					20	1	3	40	8		3,831		COMP #3	16	LCK
	17	EQUIPPED SPACE					20	1						3,831		18	
	19	EQUIPPED SPACE					20	1	1	20	12	288			(A9) 29 IM05R FANS	20	LCK
	21	EQUIPPED SPACE					20	1	1	20	12		528		(A9) 29 IM05R LTS	22	LCK
LCK	23	(A6) (3)KR46A216 FANS			1,152	12	20	1	1	20	12			996	(A10) FSP9642R+FSP7242R	24	LCK
LCK	25	(A8) IM05R FANS	288			12	20	1	1	20	12	480			(A12) 62 ID5SL FANS	26	LCK
LCK	27	(A8) IM05R LTS		528		12	20	1	1	20	12		864		(A12) 62 ID5SL LTS	28	LCK
	29	EQUIPPED SPACE						1	1						EQUIPPED SPACE	30	
	BUSBAR: 2																
	31	ZB57KCE	3,831						1						EQUIPPED SPACE	32	
LCK	33	COMP #4		3,831		8	40	3	1	20	12		300		(A11) 38 ID5SL FANS	34	LCK
	35				3,831				1	20	12			528	(A11) 38 ID5SL LTS	36	LCK
	37	ZB57KCE	3,831						1						EQUIPPED SPACE	38	
LCK	39	COMP #5		3,831		8	40	3	1						EQUIPPED SPACE	40	
	41				3,831				1						EQUIPPED SPACE	42	
	43	ZB57KCE	3,831						1						EQUIPPED SPACE	44	
LCK	45	COMP #6		3,831		8	40	3	1						EQUIPPED SPACE	46	
	47				3,831				1						EQUIPPED SPACE	48	
	49		2,594						1						EQUIPPED SPACE	50	
LCK	51	CONDENSER BREAKER		2,594		10	30	3	1						EQUIPPED SPACE	52	
	53				2,594				2	20	12			240	(A) CRANKCASE HEATERS	54	LCK
LCK	55	(A13) ESGMS FANS	36			12	20	1				240				56	
LCK	57	(A13) ESGMS LTS		96		12	20	1	1						EQUIPPED SPACE	58	
	59	EQUIPPED SPACE						1	1						EQUIPPED SPACE	60	
		SUBTOTAL	15,707	15,431	15,923							12,501	13,185	13,257	SUBTOTAL		

TOTAL PHASE A - VA	28,208	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	235	COOLING		1.00	REFRIG	76,740	1.00	
TOTAL PHASE B - VA	28,616	HEATING		0	SIGN/DISP		1.25	
AMPS	238	LIGHTING	3,228	1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	29,180	RECEPTACLES	1,080	1.0/.5	EXISTING		1.00	
AMPS	243	MOTORS	4,476	1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	86,004	SUPP HEAT	480	1.00	SHOW WNDW		1.25	86,811 VA
AMPS	239	MISC EQUIP		1.00	LTG TRACK		1.00	241 A

PANELBOARD NOTES

FINAL LAYOUT AND SIZING BY REFRIGERATION VENDOR. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

PROTOCOL B (PCB) (NEW)

BUS AMPS: 200A/BUSBAR
OCPD: 400A
VOLTS/PHASE: 208Y/120V, 3PH, 4W
PANELBOARD IS SUPPLIED INTEGRALLY MOUNTED WITH PROTOCOL B
EQUIPMENT GROUND BUS
BUSBAR: 1

	CKT NO.	DESCRIPTION	VA/PHASE A	VA/PHASE B	VA/PHASE C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VA/PHASE A	VA/PHASE B	VA/PHASE C	DESCRIPTION	CKT NO.	
LCK	1	CONTROL AND RECEPTACLE	1,080			12	20	1				2,940			ZFD25KVE	2	
LCK	3	(B1) (3)KR54E185 FANS		720		12	20	2	3	40	8		2,940		COMP #1	4	LCK
	5	FAN KILL RELAY			720									2,940		6	
LCK	7	(B1) KR54E185 DEF HTR	2,604			10	30	2				2,940			ZF25KVE	8	
	9			2,604					3	40	8		2,940		COMP #2	10	LCK
LCK	11	(B1) KR54E185 DEF HTR			2,604	10	30	2						2,940		12	
	13		2,604									3,276			ZF28KVE	14	
LCK	15	(B1) KR54E185 DEF HTR		2,604		10	30	2	3	40	8		3,276		COMP #3	16	LCK
	17				2,604									3,276		18	
LCK	19	(B4) (2)KR34E111 FANS	288			12	20	2	2	20	12	240			(B5) KR54E185 FANS	20	LCK
	21	FAN KILL RELAY		288									240		FAN KILL RELAY	22	
LCK	23	(B4) KR34E11 DEF HTR			1,560	10	30	2	2	30	10			2,604	(B5) KR54E185 DEF HTR	24	LCK
	25		1,560									2,604				26	
LCK	27	(B4) KR34E11 DEF HTR		1,560		10	30	2	1						EQUIPPED SPACE	28	
	29				1,560				1						EQUIPPED SPACE	30	
	BUSBAR: 2																
	31	ZF25KVE	3,372						2	20	12	288			(B6) (3)GL46D180 FANS	32	LCK
LCK	33	COMP #4		3,372		8	40	3					288		FAN KILL RELAY	34	
	35				3,372				2	30	10			3,336	(B6) (2)GL46D180 DEF HTR	36	LCK
	37	ZB57KCE	3,828									3,336				38	
LCK	39	COMP #5		3,828		8	40	3	2	30	10		1,668		(B6) GLD46D180 DEF HTR	40	LCK
	41				3,828									1,668		42	
	43	ZB57KCE	3,828						2	20	12	120			(B7) GL56D225 FANS	44	LCK
LCK	45	COMP #6		3,828		8	40	3					120			46	
	47				3,828				2	30	10			2,088	(B7) GL56D225 DEF HTR	48	LCK
	49		2,592									2,088				50	
LCK	51	CONDENSER BREAKER		2,592		10	30	3	1	20	12		576		(B8) (4)GL46A180 FANS	52	LCK
	53				2,592				1						EQUIPPED SPACE	54	
	55	EQUIPPED SPACE						1	1						EQUIPPED SPACE	56	
	57	EQUIPPED SPACE						1	1	20	12		1,152		(B9) 16 BGGS LTS	58	LCK
	59	EQUIPPED SPACE						1	1						EQUIPPED SPACE	60	
		SUBTOTAL	21,756	21,396	22,668							17,832	13,200	18,852	SUBTOTAL		

TOTAL PHASE A - VA	39,588	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	330	COOLING		1.00	REFRIG	68,328	1.00	
TOTAL PHASE B - VA	34,596	HEATING		0	SIGN/DISP		1.25	
AMPS	288	LIGHTING	1,152	1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	41,520	RECEPTACLES	1,080	1.0/.5	EXISTING		1.00	
AMPS	346	MOTORS	3,888	1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	115,704	SUPP HEAT	41,256	1.00	SHOW WNDW		1.25	115,992 VA
AMPS	321	MISC EQUIP		1.00	LTG TRACK		1.00	322 A

PANELBOARD NOTES

FINAL LAYOUT AND SIZING BY REFRIGERATION VENDOR. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

PROTOCOL C (PCC) (NEW)

BUS AMPS: 200A/BUSBAR
OCPD: 400A
VOLTS/PHASE: 208Y/120V, 3PH, 4W
PANELBOARD IS SUPPLIED INTEGRALLY MOUNTED WITH PROTOCOL C
EQUIPMENT GROUND BUS
BUSBAR: 1

	CKT NO.	DESCRIPTION	VA/PHASE A	VA/PHASE B	VA/PHASE C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VA/PHASE A	VA/PHASE B	VA/PHASE C	DESCRIPTION	CKT NO.	
LCK	1	CONTROL AND RECEPTACLE	1,080			12	20	1				2,940			ZFD25KVE	2	
LCK	3	(C1) 5 DR RLNI FANS/HTRS		996		12	20	1	3	40	8		2,940		COMP #1	4	LCK
LCK	5	(C1) 5 DR RLNI FANS/HTRS			996	12	20	1						2,940		6	
LCK	7	(C1) 2+5 DR RLN+RLNI F/H	1,356			12	20	1							ZF28KVE	8	
LCK	9	(C1) 2+15 DR RLN+RLNI LTS		348		12	20	1	3	40	8				COMP #2	10	LCK
	11	EQUIPPED SPACE						1								12	
	13	EQUIPPED SPACE						1							ZF28KVE	14	
	15	EQUIPPED SPACE						1	3	40	8				COMP #3	16	LCK
LCK	17	(C3) 5 DR RLNI FANS/HTRS			996	12	20	1								18	
LCK	19	(C3) 5 DR RLNI FANS/HTRS	996			12	20	1	1	20	12	348			(C4) 2+15 DR RLN+RLNI LTS	20	LCK
LCK	21	(C3) 2+5 DR RLN+RLNI F/H		1,356		12	20	1	1	20	12		996		(C5) 5 DR RLNI FANS/HTRS	22	LCK
LCK	23	(C3) 2+15 DR RLN+RLNI LTS			348	12	20	1	1	20	12			996	(C5) 5 DR RLNI FANS/HTRS	24	LCK
LCK	25	(C4) 5 DR RLN FANS/HTRS	996			12	20	1	1	20	12	1,356			(C5) 2+5 DR RLN+RLNI F/H	26	LCK
LCK	27	(C4) 5 DR RLN FANS/HTRS		996		12	20	1	1	20	12		348		(C5) 2+15 DR RLN+RLNI LTS	28	LCK
LCK	29	(C4) 2+5 DR RLN+RLNI F/H			1,356	12	20	1	1						EQUIPPED SPACE	30	
	BUSBAR: 2																
	31	ZF28KVE	3,276						1	20	12	996			(C6) 5 DR RLNI FANS/HTRS	32	LCK
LCK	33	COMP #4		3,276		8	40	3	1	20	12		996		(C6) 5 DR RLNI FANS/HTRS	34	LCK
	35				3,276				1	20	12			1,356	(C6) 2+5 DR RLN+RLNI F/H	36	LCK
	37	ZF28KVE	3,276						1	20	12	348			(C6) 2+15 DR RLN+RLNI LTS	38	LCK
LCK	39	COMP #5		3,276		8	40	3	1	20	12		996		(C7) 5 DR RLN FANS/HTRS	40	LCK
	41				3,276				1	20	12			996	(C7) 5 DR RLN FANS/HTRS	42	LCK
	43	ZF28KVE	3,276						1	20	12	1,572			(C7) 8 DR RLN FANS/HTRS	44	LCK
LCK	45	COMP #6		3,276		8	40	3	1	20	12		348		(C7) 18 DR RLN LTS	46	LCK
	47				376				1	20	12			996	(C8) 5 DR RLN FANS/HTRS	48	LCK
	49		2,592						1	20	12	996			(C8) 5 DR RLN FANS/HTRS	50	LCK
LCK	51	CONDENSER BREAKER		2,592		10	30	3	1	20	12		996		(C8) 5 DR RLN FANS/HTRS	52	LCK
	53				2,592				1	20	12			348	(C8) 18 DR RLN LTS	54	LCK
	55	EQUIPPED SPACE						1	1						EQUIPPED SPACE	56	
	57	EQUIPPED SPACE						1	1						EQUIPPED SPACE	58	
	59	EQUIPPED SPACE						1	1						EQUIPPED SPACE	60	
	BUSBAR: 3																
LCK	61	(C9) 5 DR RLN FANS/HTRS	996			12	20	1	1						EQUIPPED SPACE	62	
LCK	63	(C9) 5 DR RLN FANS/HTRS		996		12	20	1	1						EQUIPPED SPACE	64	
LCK	65	EQUIPPED SPACE						1	1						EQUIPPED SPACE	66	
LCK	67	(C9) 10 DR RLN LTS	300			12	20	1	1						EQUIPPED SPACE	68	
LCK	69	(C10) 5 DR RLN FANS/HTRS		996		12	20	1	1						EQUIPPED SPACE	70	
LCK	71	(C10) 5 DR RLN FANS/HTRS			996	12	20	1	1						EQUIPPED SPACE	72	
LCK	73	(C10) 10 DR RLN LTS	300			12	20	1	1						EQUIPPED SPACE	74	
LCK	75	(C2) 5 DR RLNI FANS/HTRS		996		12	20	1	1						EQUIPPED SPACE	76	
LCK	77	(C2) 5 DR RLNI FANS/HTRS			996	12	20	1	1						EQUIPPED SPACE	78	
LCK	79	(C2) 2+5 DR RLN+RLNI F/H	1,356			12	20	1	1						EQUIPPED SPACE	80	
LCK	81	(C2) 2+15 DR RLN+RLNI LTS		348		12	20	1	1						EQUIPPED SPACE	82	
LCK	83	(C12) 8+E FW FANS/HTRS			288	12	20	1	1						EQUIPPED SPACE	84	
LCK	85	(C13) 8+E FW FANS/HTRS	288			12	20	1	1						EQUIPPED SPACE	86	
LCK	87	(C14) FWE FANS/HTRS		72		12	20	1	1						EQUIPPED SPACE	88	
LCK	89	(C15) FWE FANS/HTRS			72	12	20	1	1						EQUIPPED SPACE	90	
		SUBTOTAL	20,088	19,524	15,568							8,556	7,620	7,632	SUBTOTAL		

TOTAL PHASE A - VA	28,644	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	239	COOLING		1.00	REFRIG	43,180	1.00	
TOTAL PHASE B - VA	27,144	HEATING		0	SIGN/DISP		1.25	
AMPS	226	LIGHTING	3,384	1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	23,200	RECEPTACLES	1,080	1.0/.5	EXISTING		1.00	
AMPS	193	MOTORS	31,344	1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	78,988	SUPP HEAT		1.00	SHOW WNDW		1.25	79,834 VA
AMPS	219	MISC EQUIP		1.00	LTG TRACK		1.00	222 A

PANELBOARD NOTES

FINAL LAYOUT AND SIZING BY REFRIGERATION VENDOR. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

PANELBOARD: RPC (NEW)

BUS AMPS: 225A
MAIN SIZE/TYPE: MLO
VOLTS/PHASE: 208Y/120V, 3PH, 4W
FED FROM: PROTOCOL C
AIC RATING: FCA +10% MINIMUM FULLY RATED
SERVES: PROTOCOL C DEFROST
MOUNTING: SURFACE
LOCATION: REF. MEZZANINE
LINE-SIDE LUGS: MECHANICAL
EQUIPMENT GROUND BUS
BUSBAR: 1

	CKT NO.	DESCRIPTION	VA/PHASE A	VA/PHASE B	VA/PHASE C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VA/PHASE A	VA/PHASE B	VA/PHASE C	DESCRIPTION	CKT NO.	
LCK	1	CONTROL AND RECEPTACLE	1,440			12	20	1	2	30	10	2,820			(C3) 2+5 DR RLN	2	LCK
LCK	3	(C1) 5 DR RLNI DEF HTR		2,016		10	30	2					2,820		+ RLNI DEF HTR	4	
	5				2,016				2	30	10			2,016	(C4) 5 DR RLN DEF HTR	6	LCK
LCK	7	(C1) 5 DR RLNI DEF HTR	2,016			10	30	2				2,016				8	
	9			2,016					2	30	10		2,016		(C4) 5 DR RLN DEF HTR	10	LCK
LCK	11	(C1) 2+5 DR RLN			2,820	10	30	2						2,016		12	
	13	+ RLNI DEF HTR	2,820						2	30	10	2,820			(C4) 2+5 RLN	14	LCK
LCK	15	(C2) 5 DR RLNI DEF HTR		2,016		10	30	2					2,820		+ RLNI DEF HTR	16	
	17				2,016				2	30	10			2,016	(C5) 5 DR RLNI DEF HTR	18	LCK
LCK	19	(C2) 2+5 DR RLN	2,820			10	30	2				2,016				20	
	21	+ RLNI DEF HTR		2,820					2	30	10		2,016		(C5) 5 DR RLNI DEF HTR	22	LCK
LCK	23	(C3) 5 DR RLNI DEF HTR			2,016	10	30	2						2,016		24	
	25		2,016						2	30	10	2,820			(C5) 2+5 DR RLN	26	LCK
LCK	27	(C3) 5 DR RLNI DEF HTR		2,016		10	30	2					2,820		+ RLNI DEF HTR	28	
	29				2,016				1						EQUIPPED SPACE	30	
	BUSBAR: 2																
LCK	31	(C6) 5 R RLNI DEF HTR	2,016			10	30	2	2	30	10	2,016			(C8) 5 DR RLN DEF HTR	32	LCK
	33			2,016									2,016			34	
LCK	35	(C6) 5 R RLNI DEF HTR			2,016	10	30	2	2	30	10			2,016	(C8) 5 DR RLN DEF HTR	36	LCK
	37		2,016									2,016				38	
LCK	39	(C6) 2+5 DR RLN		2,820		10	30	2	2	30	10		3,228		(C8) 8 DR RLN DEF HTR	40	LCK
	41	+RLNI DEF HTR			2,820									3,228		42	
LCK	43	(C7) 5 DR DEF HTR	2,016			10	30	2	2	30	10	2,016			(C9) 5 DR RLN DEF HTR	44	LCK
	45			2,016									2,016			46	
LCK	47	(C7) 5 DR DEF HTR			2,016	10	30	2	2	30	10			2,016	(C9) 5 DR RLN DEF HTR	48	LCK
	49		2,016									2,016				50	
LCK	51	(C7) 8 DR RLN DEF HTR		3,228		10	30	2	2	30	10		2,016		(C10) 5 DR RLN DEF HTR	52	LCK
	53				3,228									2,016		54	
	55	PS						2	2						PS	56	
	57															58	
	59	EQUIPPED SPACE						1	1						EQUIPPED SPACE	60	
	BUSBAR: 3																
LCK	61	(C2) 5 DR RLNI DEF HTR	2,016			10	30	2	2	30	10	2,628			(C12) 8+E FW DEF HTR	62	LCK
	63			2,016									2,628			64	
LCK	65	(C10) 5 DR RLN DEF HTR			2,016	10	30	2	2	30	10			2,628	(C13) 8+E FW DEF HTR	66	LCK
	67		2,016									2,628				68	
	69	PS						2	2	30	10		780		(C14) FWE DEF HTR	70	LCK
	71													780		72	
	73	EQUIPPED SPACE						1	2	30	10	780			(C15) FWE DEF HTR	74	LCK
	75	EQUIPPED SPACE						1					780			76	
	77	EQUIPPED SPACE						1	2						PS	78	
	79	EQUIPPED SPACE						1								80	
	81	EQUIPPED SPACE						1	2						PS	82	
	83	EQUIPPED SPACE						1								84	
	85	PS						2	2						PS	86	
	87															88	
	89	EQUIPPED SPACE						1	1						EQUIPPED SPACE	90	
		SUBTOTAL	23,208	22,980	22,980							26,592	25,956	20,748	SUBTOTAL		

TOTAL PHASE A - VA	49,800	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	415	COOLING		1.00	REFRIG		1.00	
TOTAL PHASE B - VA	48,936	HEATING		0	SIGN/DISP		1.25	
AMPS	408	LIGHTING		1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	43,728	RECEPTACLES	1,440	1.0/.5	EXISTING		1.00	
AMPS	364	MOTORS		1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	142,464	SUPP HEAT	141,024	0.30	SHOW WNDW		1.25	43,747 VA
AMPS	395	MISC EQUIP		1.00	LTG TRACK		1.00	121 A

PANELBOARD NOTES

FINAL LAYOUT AND SIZING BY REFRIGERATION VENDOR. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

PROTOCOL E (PCE) (NEW)

BUS AMPS: 200A/BUSBAR
OCPD: 200A
VOLTS/PHASE: 208Y/120V, 3PH, 4W
PANELBOARD IS SUPPLIED INTEGRALLY MOUNTED WITH PROTOCOL E
EQUIPMENT GROUND BUS
BUSBAR: 1

	CKT NO.	DESCRIPTION	VA/PHASE A	VA/PHASE B	VA/PHASE C	WIRE NO.	BKR AMP	P	P	BKR AMP	WIRE NO.	VA/PHASE A	VA/PHASE B	VA/PHASE C	DESCRIPTION	CKT NO.	
LCK	1	CONTROL AND RECEPTACLE	1,080			12	20	1				2,424			ZBD45KCE	2	
LCK	3	(E1) 30 IM05R FANS		360		12	20	1	3	30	10		2,424		COMP #1	4	LCK
LCK	5	(E1) 30 IM05R LTS			708	12	20	1						2,424		6	
LCK	7	(E2) 26 TY36XR FANS	648			12	20	1				1,692			ZB30KCE	8	
LCK	9	(E2) 26 TY36XR LTS		216		12	20	1	3	30	10		1,692		COMP #2	10	LCK
LCK	11	(E3) 24 ID5SU FANS			228	12	20	1						1,692		12	
LCK	13	(E3) 24 ID5SU LTS	336			12	20	1				2,424			ZB45KCE	14	
LCK	15	(E4) KR26A125 FANS		192		12	20	1	3	30	10		2,424		COMP #3	16	LCK
LCK	17	(E5) 2 GHSS636R FANS			492	12	20	1						2,424		18	
LCK	19	(E6) 42 GMDSVR FANS	624			12	20	1	1						EQUIPPED SPACE	20	
LCK	21	(E10) LH26A94				12	20	1	1						EQUIPPED SPACE	22	
	23	EQUIPPED SPACE						1	1						EQUIPPED SPACE	24	
	25	EQUIPPED SPACE						1	1						EQUIPPED SPACE	26	
	27	EQUIPPED SPACE						1	1						EQUIPPED SPACE	28	
	29	EQUIPPED SPACE						1	1							30	
	BUSBAR: 2																
	31	ZB45KCE	2,424						1						EQUIPPED SPACE	32	
LCK	33	COMP #4		2,424		10	30	3	1						EQUIPPED SPACE	34	
	35				2,424				1						EQUIPPED SPACE	36	
	37	ZB57KCE	3,828						1						EQUIPPED SPACE	38	
LCK	39	COMP #5		3,828		8	40	3	1						EQUIPPED SPACE	40	
	41				3,828				1						EQUIPPED SPACE	42	
	43	EQUIPPED SPACE							1						EQUIPPED SPACE	44	
LCK	45	COMP #6 (FUTURE)						3	1						EQUIPPED SPACE	46	
	47								1						EQUIPPED SPACE	48	
	49		2,592						1						EQUIPPED SPACE	50	
LCK	51	CONDENSER BREAKER		2,592		10	30	3	1						EQUIPPED SPACE	52	
	53				2,592				1						EQUIPPED SPACE	54	
	55	EQUIPPED SPACE						1	1						EQUIPPED SPACE	56	
	57	EQUIPPED SPACE						1	1						EQUIPPED SPACE	58	
	59	EQUIPPED SPACE						1	1						EQUIPPED SPACE	60	
		SUBTOTAL	11,532	9,612	10,272							6,540	6,540	6,540	SUBTOTAL		

TOTAL PHASE A - VA	18,072	LOAD	CONN. VA	DF	LOAD	CONN. VA	DF	
AMPS	151	COOLING		1.00	REFRIG	46,152	1.00	
TOTAL PHASE B - VA	16,152	HEATING		0	SIGN/DISP		1.25	
AMPS	135	LIGHTING	1,260	1.25	KITCHEN		1.00	
TOTAL PHASE C - VA	16,812	RECEPTACLES	1,080	1.0/.5	EXISTING		1.00	
AMPS	140	MOTORS	2,544	1.00	LRG MOTOR		1.25	TOTAL DEMAND
TOTAL PNLBD - VA	51,036	SUPP HEAT		1.00	SHOW WNDW		1.25	51,351 VA
AMPS	142	MISC EQUIP		1.00	LTG TRACK		1.00	143 A

PANELBOARD NOTES

FINAL LAYOUT AND SIZING BY REFRIGERATION VENDOR. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

PANELBOARD LEGEND

ABBREVIATIONS — V1.00

AF	ARC FAULT CIRCUIT INTERRUPTER.
C#	CIRCUIT VIA LIGHTING CONTACTOR #.
CL	CIRCUIT VIA CURRENT LIMITING DEVICE.
D	DISCONNECT CIRCUITRY FOR REMOVED LOAD, UPDATE CIRCUIT DIRECTORY TO SPARE AND TURN OFF.
EM	EMERGENCY LIGHTING HANDLE-ON CLAMP.
EX	EXISTING.
F	FUTURE LOAD; NOTE AS SPARE AND TURN OFF.
FA	RED/HANDLE-ON CLAMP.
GF	GROUND-FAULT CIRCUIT INTERRUPTER TYPE CIRCUIT BREAKER (5 mA).
GFEP	GROUND FAULT EQUIPMENT PROTECTION BREAKER (30 mA).
HT	PROVIDE HANDLE-TIE FOR MULTI-WIRE BRANCH CIRCUIT PER CODE.
IG	ISOLATED GROUND CIRCUIT.
L#	LIGHTING CONTROL SCHEME NUMBER.
LCK	HANDLE PADLOCKABLE-OFF DEVICE.
LO	HANDLE-ON CLAMP.
N	PROVIDE NEW CIRCUIT BREAKER.
OL	REFER TO ELECTRICAL ONE-LINE/RISER DIAGRAM.
PS	POWER-SWITCHING CIRCUIT BREAKER.
PSE	EMERGENCY POWER-SWITCHING CIRCUIT BREAKER.
R	REUSE EXISTING CIRCUIT BREAKER FOR NEW/REVISED LOAD.
RP	CIRCUIT VIA RELAY PANEL.
ST	SHUNT TRIP CIRCUIT BREAKER.
V	VERIFY EXISTING LOAD AND UPDATE DIRECTORY, IF UNUSED, NOTE AS SPARE AND TURN OFF.
VD	BRANCH CIRCUITRY HAS BEEN UPSIZED TO REDUCE VOLTAGE DROP. ADJUST GROUND WIRE SIZE PER CODE. PROVIDE LUG ADAPTORS IF REQUIRED.
Z	CORRECT/REPAIR EXISTING HAZARD TO MAKE CODE COMPLIANT INSTALLATION.

NOT ALL ABBREVIATIONS ARE USED.

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1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

PROFESSIONAL SEAL
STATE OF MISSOURI
DEAN WAY CHANDLER
NUMBER PE-2017036652
PROFESSIONAL ENGINEER
Oct 23 2020
DEAN W. CHANDLER
LICENSE # PE-2017036652

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935
EMPLOYEE OWNED

NORTH — PLAN NORTH

REFRIGERATION ELECTRICAL SCHEDULES

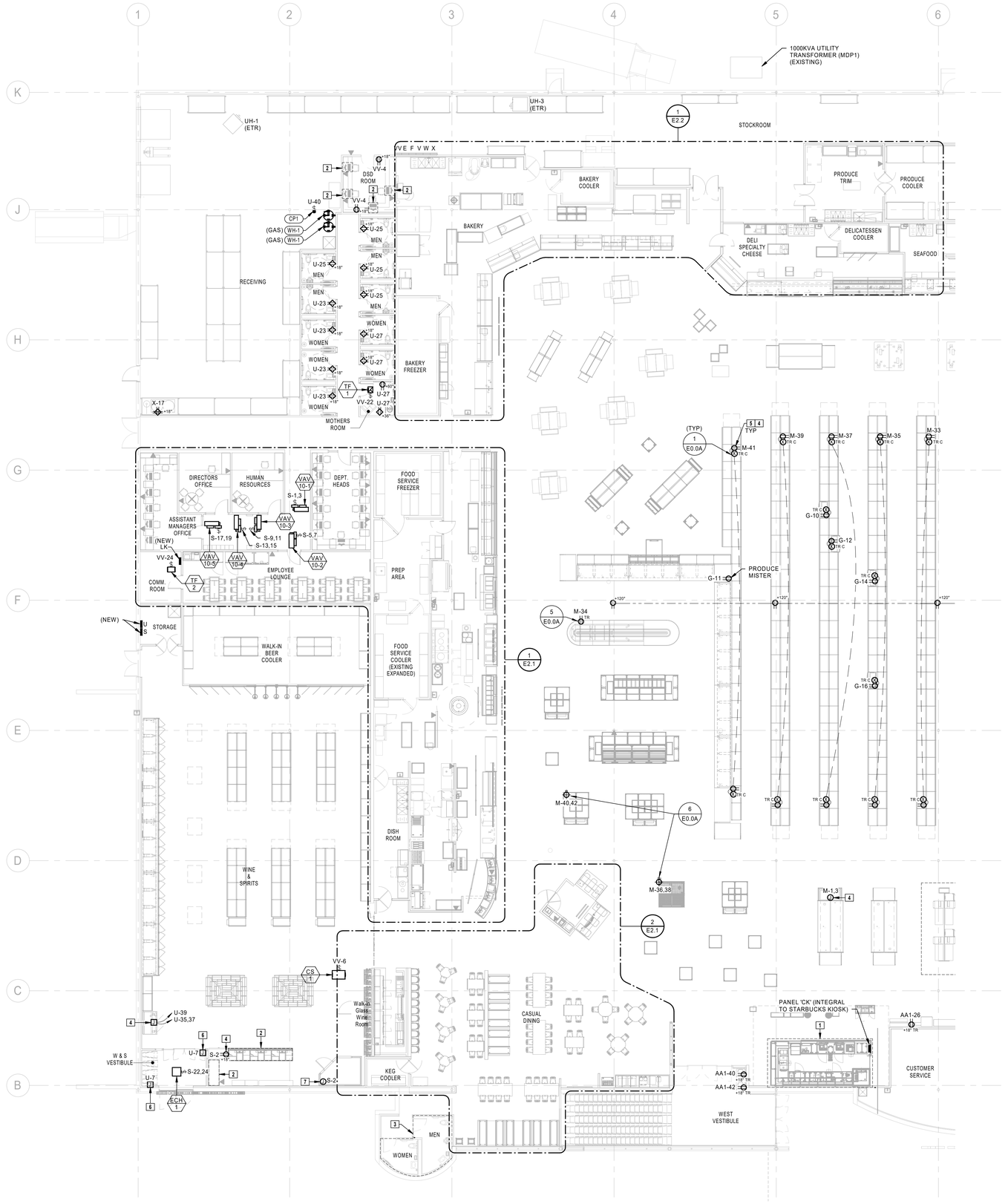
PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY: HENDERSON	DATE: 10/19/2020
SCALE: AS NOTED	JOB NUMBER: 62930547

SHEET: E1.4

DEAN W. CHANDLER
10/23/2020 9:18:00 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT, BIDDING OR CONSTRUCTION
12/29/2020

REVISION	BY



1 ELECTRICAL PLAN - PART A
3/32" = 1'-0"

ELECTRICAL PLAN NOTES

1. REFER TO STARBUCKS DRAWINGS (BY OTHERS) FOR POWER & SYSTEMS SCOPE OF WORK.
2. REFER TO SHEET E4.4 (SHEET BY OTHERS) FOR POWER & SYSTEMS SCOPE OF WORK.
3. EXISTING ROOM/SPACE TO REMAIN . COORDINATE REMODEL WORK WITH CONSTRUCTION PHASE AND OVERALL PLAN FOR REMODEL OF STORE.
4. ROUTE CONDUIT(S) CONCEALED/UNDERSLAB TO NEAREST FULL HEIGHT WALL FOR CONTINUATION. COORDINATE STUB-UP LOCATION WITH OWNER AND OTHER TRADES PRIOR TO ROUGH-IN. REFER TO PE1.1 ELECTRICAL STUBUP PLAN FOR MORE INFORMATION.
5. REVISE AND EXTEND CIRCUITRY FOR RELOCATED/REPLACED EQUIPMENT. COORDINATE EXACT CONDUIT ROUTING WITH TENANT AND OTHER TRADES. EXISTING DEVICES AND RELATED CIRCUITRY MAY BE REUSED IF IN GOOD CONDITION, OTHERWISE REPLACE.
6. IF SWITCH IS NOT FURNISHED WITH AUTO DOOR THEN PROVIDE ON/OFF SERVICE SWITCH AND RELATED CIRCUITRY WITHIN SIGHT OF MOTOR PER CODE. COORDINATE REQUIREMENTS WITH DOOR INSTALLER AND OWNER PRIOR TO ROUGH-IN.
7. PROVIDE JUNCTION BOX FOR CONNECTION TO HUMIDOR SHELVING LED LIGHTING. COORDINATE REQUIREMENTS WITH HUMIDOR INSTALLER AND OWNER PRIOR TO ROUGH-IN.

REFER TO 'EQUIPMENT INSTALLATION AND SERVICE CONNECTIONS' SCHEDULE ON DRAWING E0.1 FOR EQUIPMENT TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR. (EC)

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WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

PROFESSIONAL SEAL

STATE OF MISSOURI
DEAN WAY CHANDLER
NUMBER PE-2017036652
PROFESSIONAL ENGINEER

Oct 23 2020
DEAN W. CHANDLER
LICENSE # PE-2017036652

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee EMPLOYEE OWNED

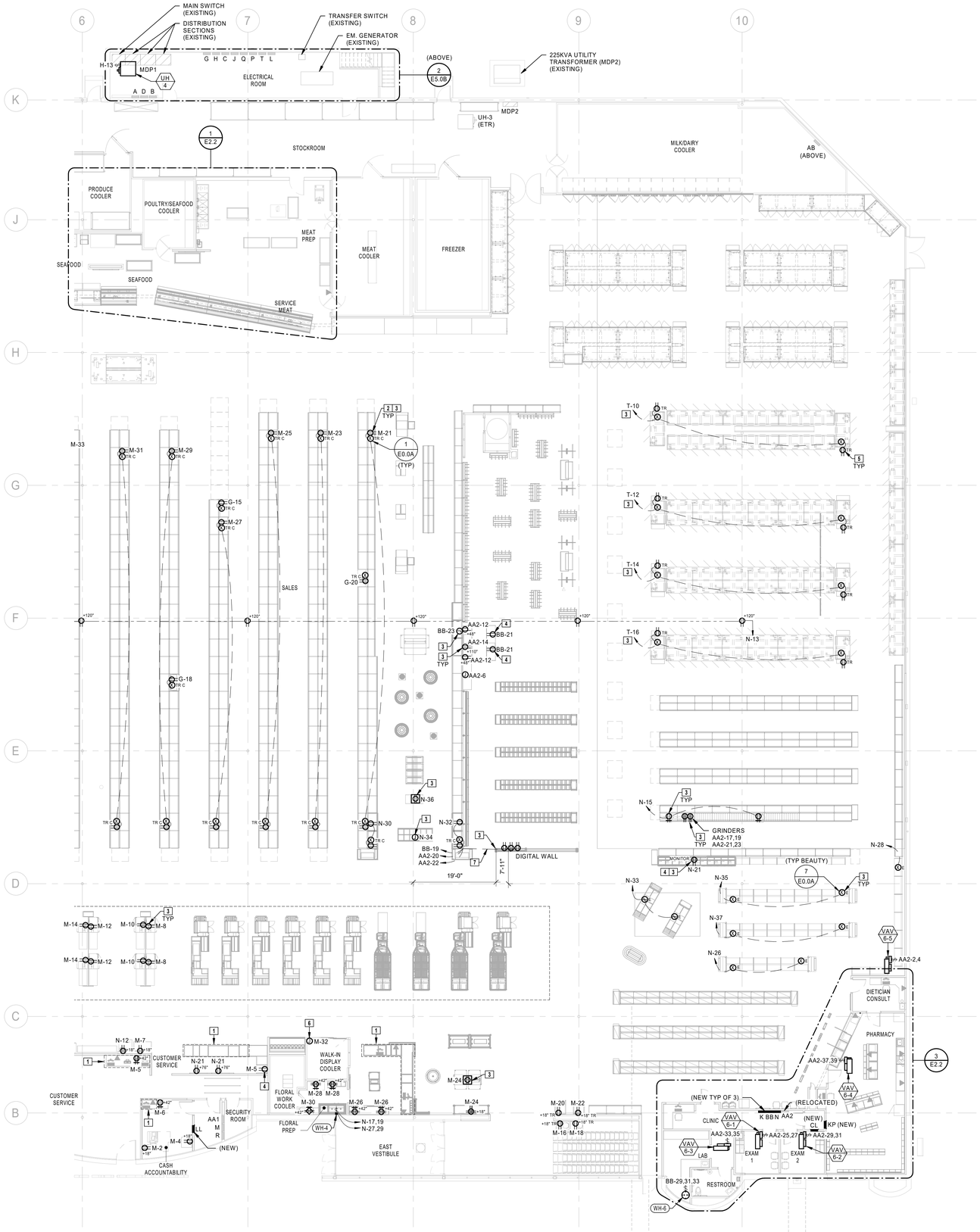
NORTH PLAN NORTH

ELECTRICAL PLAN - PART A

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
E2.0A

10/23/2020 9:18:13 AM
DEAN W. CHANDLER



1 ELECTRICAL PLAN - PART B
3/32" = 1'-0"

ELECTRICAL PLAN NOTES

1. REFER TO SHEET E4.4 (SHEET BY OTHERS) FOR POWER & SYSTEMS SCOPE OF WORK.
2. REVISE AND EXTEND CIRCUITRY FOR RELOCATED/REPLACED EQUIPMENT. COORDINATE EXACT CONDUIT ROUTING WITH TENANT AND OTHER TRADES. EXISTING DEVICES AND RELATED CIRCUITRY MAY BE REUSED IF IN GOOD CONDITION. OTHERWISE REPLACE.
3. ROUTE CONDUIT(S) CONCEALED/UNDERSLAB TO NEAREST FULL HEIGHT WALL FOR CONTINUATION. COORDINATE STUB-UP LOCATION WITH OWNER AND OTHER TRADES PRIOR TO ROUGH-IN. REFER TO PE1.1 ELECTRICAL STUBUP PLAN FOR MORE INFORMATION.
4. INSTALL RECEPTACLE(S) AND DATA BOX(ES) IN AN ACCESSIBLE LOCATION UNDER COUNTER IN MILLWORK; LOCATE SUCH THAT DRAWERS AND DIVIDERS DO NOT BLOCK ACCESS TO DEVICE. COORDINATE LOCATION WITH OWNER AN OTHER TRADES PRIOR TO ROUGH-IN.
5. RECEPTACLES MOUNTED IN THE BASEPLATE OF THE CASE. ROUTE ELECTRICAL FROM CASE ROUGH-IN LOCATION. COORDINATE MOUNTING OF RECEPTACLE WITH CASE SUPPLIER AND REFRIGERATION CONTRACTOR.
6. IF SWITCH IS NOT FURNISHED WITH AUTO DOOR THEN PROVIDE ON/OFF SERVICE SWITCH AND RELATED CIRCUITRY WITHIN SIGHT OF MOTOR PER CODE. COORDINATE REQUIREMENTS WITH DOOR INSTALLER AND OWNER PRIOR TO ROUGH-IN.
7. EXTEND 1" CONDUIT UNDERFLOOR FROM WALL TO DIGITAL SHOE WALL WITH THREE 120V CIRCUITS FOR MONITORS.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT, BIDDING OR CONSTRUCTION
12/29/2020

REVISION	BY

HENDERSON ENGINEERS
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MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

PROFESSIONAL SEAL

STATE OF MISSOURI
DEAN WAY CHANDLER
NUMBER PE-2017036652
PROFESSIONAL ENGINEER

DEAN W. CHANDLER Oct 23, 2020
LICENSE # PE-2017036652

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee EMPLOYEE OWNED

NORTH PLAN NORTH

ELECTRICAL PLAN - PART B

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
E2.0B

DEAN W. CHANDLER
10/23/2020 9:18:46 AM

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12/29/2020

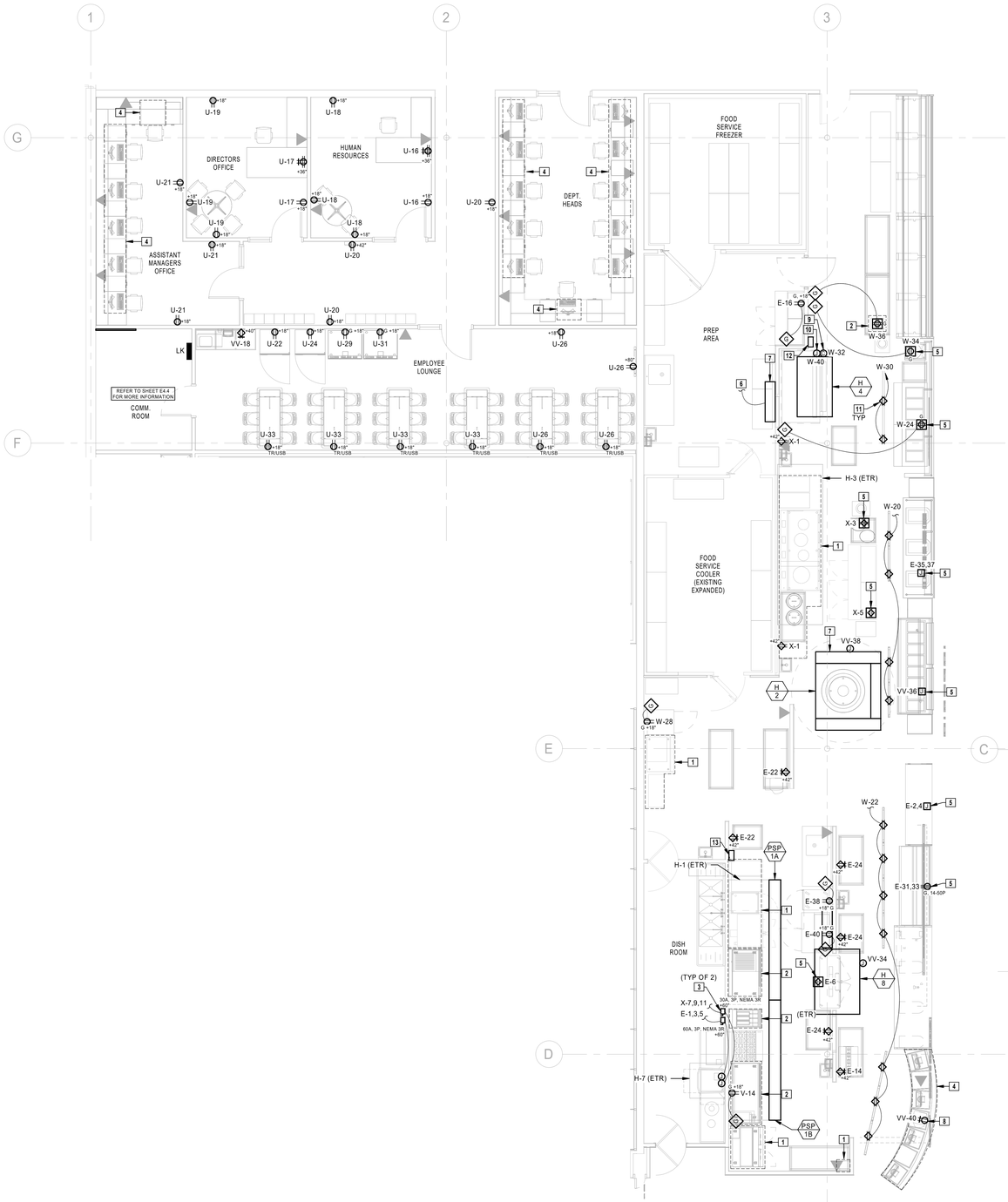
REVISION BY

ELECTRONIC MENU MONITOR BOARD SCHEDULE

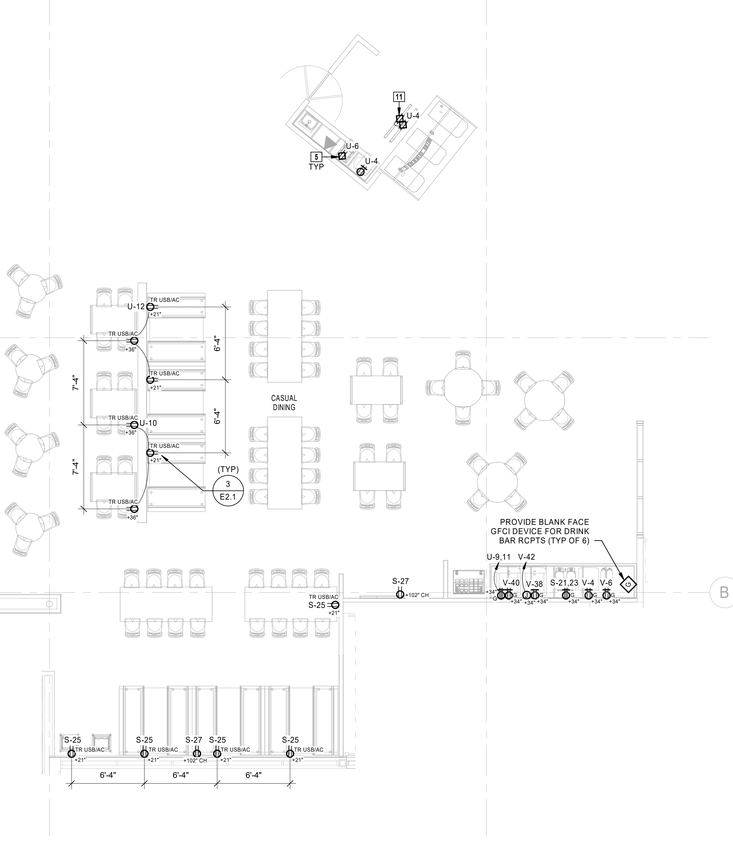
LOCATION	AMOUNT AND SIZE	HEIGHT	MOUTNING
SUSHI	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
MARKET GRILLE EXPRESS	(3) 49" MONITORS	B/O MONITOR +6'-8"	POLE
HICKORY HOUSE	(4) 49" MONITORS	B/O MONITOR +6'-8"	POLE
HIBACHI	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
ASIAN	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
MIA PIZZA	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
BAKERY CAKE	(1) 65" MONITOR	B/O MONITOR +5'-8"	WALL - BOX +8'-0"
BAKERY BREAD	(2) 55" MONITORS	B/O MONITOR +6'-8"	WALL - BOX +8'-8"
MEAT	(1) 82" MONITOR	B/O MONITOR +5'-8"	WALL - BOX +8'-8"
SEAFOOD	(1) 65" MONITOR	B/O MONITOR +6'-8"	WALL - BOX +9'-0"
SEASONS	(1) 55" MONITOR	MONITOR ON KIOSK	WALL - BOX +18"
DIETITIAN	(1) 49" MONITOR	B/O MONITOR +4'-3"	WALL - BOX +5'-3"
GREETING CARDS	(1) 49" MONITOR	VARIES	WALL
BASIN	(1) 65" MONITOR	B/O MONITOR +5'-2"	WALL - BOX +7'-6"
CUSTOMER SERVICE	(2) 65" MONITORS	B/O MONITOR +4'-7"	WALL - BOX +6'-4"
APPAREL	(1) 82" MONITOR	B/O MONITOR +6'-2"	WALL - BOX +9'-2"

ELECTRICAL PLAN NOTES

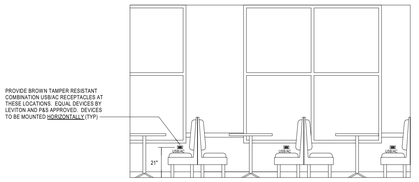
1. EXISTING KITCHEN EQUIPMENT TO REMAIN.
2. RELOCATED KITCHEN EQUIPMENT. CONTRACTOR TO RELOCATE EQUIPMENT POWER DEVICES.
3. REVISE AND EXTEND CIRCUITRY FOR RELOCATED/REPLACED EQUIPMENT. COORDINATE EXACT CONDUIT ROUTING WITH TENANT AND OTHER TRADES. EXISTING DEVICES AND RELATED CIRCUITRY MAY BE REUSED IF IN GOOD CONDITION, OTHERWISE REPLACE.
4. REFER TO SHEET E4.4 (SHEET BY OTHERS) FOR POWER & SYSTEMS SCOPE OF WORK.
5. ROUTE CONDUIT(S) CONCEALED/UNDERSLAB TO NEAREST FULL HEIGHT WALL FOR CONTINUATION. COORDINATE STUB-UP LOCATION WITH OWNER AND OTHER TRADES PRIOR TO ROUGH-IN. REFER TO PE1.1 ELECTRICAL STUBUP PLAN FOR MORE INFORMATION.
6. PROVIDE JUNCTION BOX WITH 1" CONDUIT UP TO ABOVE ACCESSIBLE CEILING SPACE FOR ANSUL SYSTEM PULL STATION AND RELATED WIRING. COORDINATE EXACT REQUIREMENTS WITH HY-VEE AND SYSTEM INSTALLER PRIOR TO ROUGH-IN
7. KITCHEN EXHAUST HOOD CONTROL PANEL. REFER TO KITCHEN ELECTRICAL PLANS AND HOOD PLANS WITHIN MECHANICAL SET FOR MORE INFORMATION.
8. INSTALL RECEPTACLE(S) AND DATA BOX(ES) IN AN ACCESSIBLE LOCATION UNDER COUNTER IN MILLWORK; LOCATE SUCH THAT DRAWERS AND DIVIDERS DO NOT BLOCK ACCESS TO DEVICE. COORDINATE LOCATION WITH OWNER AN OTHER TRADES PRIOR TO ROUGH-IN.
9. PROVIDE CONTACTOR ABOVE CEILING IN ACCESSIBLE LOCATION WITH A MINIMUM SIZE OF ASSOCIATED BREAKER FEEDING LOAD IN NEMA 1 ENCLOSURE. INTERLOCK EQUIPMENT WITH SHUNT FUNCTION OF THE HOOD TO ACT AS SHUNT TRIP MEANS. GFCI DEVICE DOWNSTREAM OF CONTACTOR TO PROVIDE CODE REQUIRED GFCI PROTECTION.
10. PROVIDE CIRCUITS FROM HOOD CONTROL PANEL TO KITCHEN EQUIPMENT AS INDICATED. REFER TO SHEET E2.9 FOR EQUIPMENT LOCATION. REFER TO KITCHEN ELECTRICAL PLANS AND HOOD PLANS WITHIN MECHANICAL SET FOR TERMINATIONS IN HOOD CONTROL PANEL.
11. REFER TO ELECTRONIC MENU MONITOR BOARD SCHEDULE ON THIS SHEET FOR MORE INFORMATION.
12. PROVIDE HMI CONNECTION VIA DUAL GANG BOX AS INDICATED. REFER TO KITCHEN ELECTRICAL PLANS AND HOOD PLANS WITHIN MECHANICAL SET FOR TERMINATIONS IN HOOD CONTROL PANEL.
13. FOR EXISTING HOOD PROVIDE NEW HMI CONNECTION VIA DUAL GANG BOX AS INDICATED. REFER TO KITCHEN ELECTRICAL PLANS AND HOOD PLANS WITHIN MECHANICAL SET FOR TERMINATIONS IN HOOD CONTROL PANEL.



1 PARTIAL ELECTRICAL POWER PLAN - KITCHEN/ ASIAN FOODS/OFFICES
3/16" = 1'-0"



2 PARTIAL ELECTRICAL POWER PLAN - SUSHI/MARKET GRILLE EXPRESS
3/16" = 1'-0"



3 ELECTRICAL DEVICES AT DINING
3/32" = 1'-0"

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

PROFESSIONAL SEAL

STATE OF MISSOURI
DEAN WAY CHANDLER
NUMBER PE-2017036652
PROFESSIONAL ENGINEER

Oct 23 2020
DEAN W. CHANDLER
LICENSE # PE-2017036652

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2955

Hy-Vee® EMPLOYEE OWNED

NORTH PLAN NORTH

ELECTRICAL PART PLANS

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
E2.1

DEAN W. CHANDLER
10/23/2020 9:19:16 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT, BIDDING OR CONSTRUCTION
12/29/2020

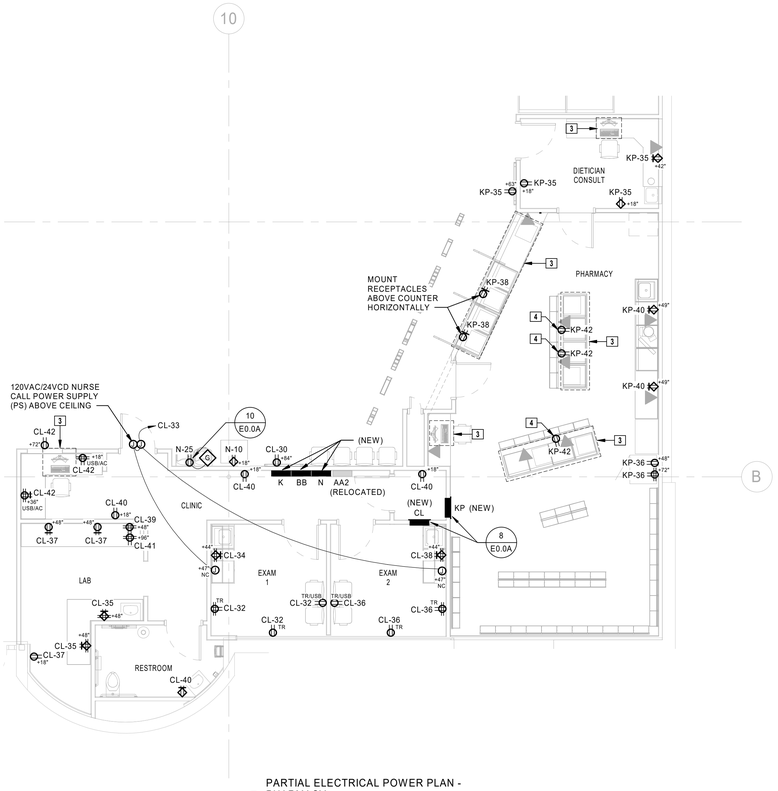
REVISION	BY

ELECTRONIC MENU MONITOR BOARD SCHEDULE

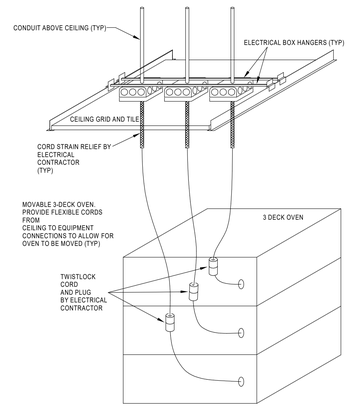
LOCATION	AMOUNT AND SIZE	HEIGHT	MOUTNING
SUSHI	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
MARKET GRILLE EXPRESS	(3) 49" MONITORS	B/O MONITOR +6'-8"	POLE
HICKORY HOUSE	(4) 49" MONITORS	B/O MONITOR +6'-8"	POLE
HIBACHI	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
ASIAN	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
MIA PIZZA	(2) 49" MONITORS	B/O MONITOR +6'-8"	POLE
BAKERY CAKE	(1) 65" MONITOR	B/O MONITOR +5'-8"	WALL - BOX +8'-0"
BAKERY BREAD	(2) 55" MONITORS	B/O MONITOR +6'-8"	WALL - BOX +8'-8"
MEAT	(1) 82" MONITOR	B/O MONITOR +5'-8"	WALL - BOX +6'-8"
SEAFOOD	(1) 65" MONITOR	B/O MONITOR +6'-8"	WALL - BOX +9'-0"
SEASONS	(1) 55" MONITOR	MONITOR ON KIOSK	WALL - BOX +18"
DIETITIAN	(1) 49" MONITOR	B/O MONITOR +4'-3"	WALL - BOX +5'-3"
GREETING CARDS	(1) 49" MONITOR	VARIES	WALL
BASIN	(1) 65" MONITOR	B/O MONITOR +5'-2"	WALL - BOX +7'-6"
CUSTOMER SERVICE	(2) 65" MONITORS	B/O MONITOR +4'-7"	WALL - BOX +6'-4"
APPAREL	(1) 82" MONITOR	B/O MONITOR +6'-2"	WALL - BOX +9'-2"

ELECTRICAL PLAN NOTES

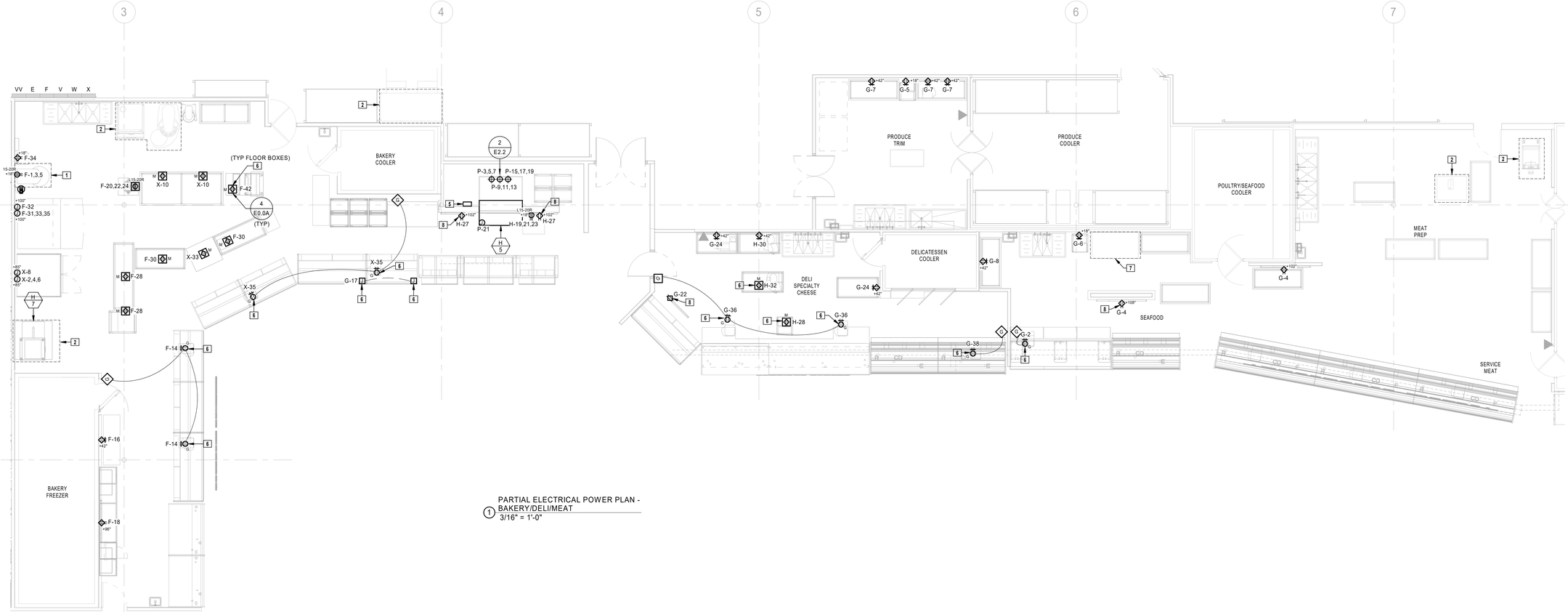
1. REVISE AND EXTEND CIRCUITRY FOR RELOCATED/REPLACED EQUIPMENT. COORDINATE EXACT CONDUIT ROUTING WITH TENANT AND OTHER TRADES. EXISTING DEVICES AND RELATED CIRCUITRY MAY BE REUSED IF IN GOOD CONDITION, OTHERWISE REPLACE.
2. EXISTING KITCHEN EQUIPMENT TO REMAIN.
3. REFER TO SHEET E4.4 (SHEET BY OTHERS) FOR POWER & SYSTEMS SCOPE OF WORK.
4. INSTALL RECEPTACLE(S) AND DATA BOX(ES) IN AN ACCESSIBLE LOCATION UNDER COUNTER IN MILLWORK; LOCATE SUCH THAT DRAWERS AND DIVIDERS DO NOT BLOCK ACCESS TO DEVICE. COORDINATE LOCATION WITH OWNER AN OTHER TRADES PRIOR TO ROUGH-IN.
5. KITCHEN EXHAUST HOOD CONTROL PANEL. REFER TO KITCHEN ELECTRICAL PLANS AND HOOD PLANS WITHIN MECHANICAL SET FOR MORE INFORMATION.
6. ROUTE CONDUIT(S) CONCEALED/UNDERSLAB TO NEAREST FULL HEIGHT WALL FOR CONTINUATION. COORDINATE STUB-UP LOCATION WITH OWNER AND OTHER TRADES PRIOR TO ROUGH-IN. REFER TO PE1.1 ELECTRICAL STUBUP PLAN FOR MORE INFORMATION.
7. RELOCATED KITCHEN EQUIPMENT. CONTRACTOR TO RELOCATE EQUIPMENT POWER DEVICES.
8. REFER TO ELECTRONIC MENU MONITOR BOARD SCHEDULE ON THIS SHEET FOR MORE INFORMATION.



PARTIAL ELECTRICAL POWER PLAN - PHARMACY
3 3/16" = 1'-0"



2 3 DECK OVEN ELECTRICAL DETAIL
NTS



PARTIAL ELECTRICAL POWER PLAN - BAKERY/DELI/MEAT
1 3/16" = 1'-0"

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1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

PROFESSIONAL SEAL

STATE OF MISSOURI
DEAN WAY CHANDLER
NUMBER PE-2017036652
PROFESSIONAL ENGINEER

Oct 23 2020
DEAN W. CHANDLER
LICENSE # PE-2017036652

LOCATION
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310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2955

Hy-Vee EMPLOYEE OWNED

NORTH PLAN NORTH

ELECTRICAL PART PLANS

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
E2.2

DEAN W. CHANDLER
10/23/2020 9:19:42 AM

RELEASE FOR CONSTRUCTION
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12/29/2020

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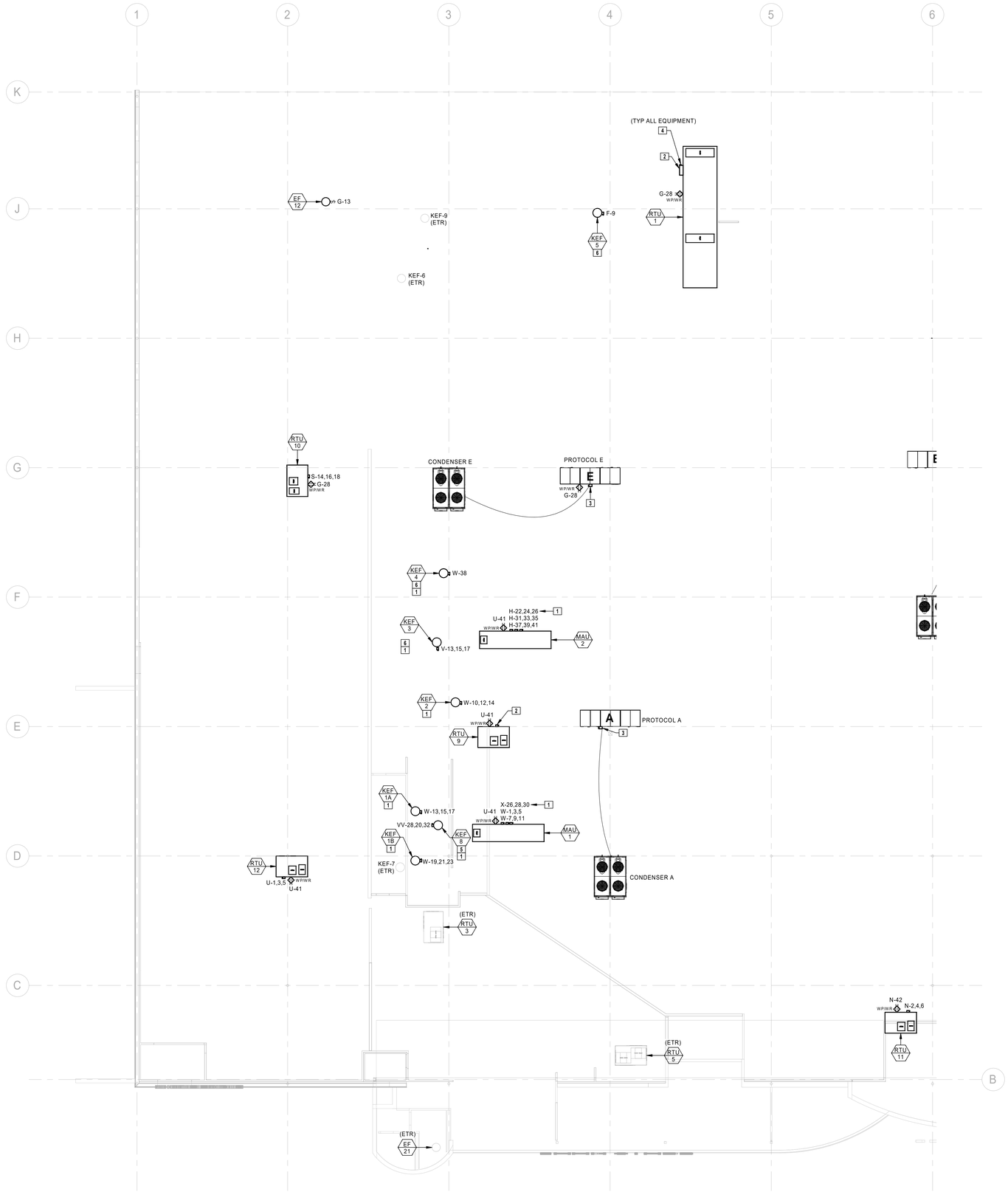
ELECTRICAL PLAN NOTES

1 INTERLOCK WITH HOOD CONTROL PANEL. REFER TO SHEET E2.1.
2 ROUTE POWER TO MDP1 LOCATED IN THE ELECTRICAL ROOM. REFER TO E1.0 FEEDER RISER DIAGRAM FOR MORE INFORMATION.
3 ROUTE POWER TO MRP LOCATED ON THE REFRIGERATION MEZZANINE. REFER TO E1.0 FEEDER RISER DIAGRAM FOR MORE INFORMATION.
4 PROVIDE CIRCUITRY TO DISCONNECT FURNISHED WITH MECHANICAL EQUIPMENT.
5 ROUTE CIRCUIT VIA HOOD CONTROL PANEL. REFER TO SHEET E2.1.
6 PROVIDE INTERLOCK WITH COOKING EQUIPMENT BELOW. FAN SHALL COME "ON" WHEN COOKING EQUIPMENT IS IN OPERATION. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.



1 ROOF ELECTRICAL PLAN - PART A
3/32" = 1'-0"

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STATE OF MISSOURI
DEAN WAY CHANDLER
NUMBER PE-2017036652
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DEAN W. CHANDLER DATE: 12/23/2020
LICENSE # PE-2017036652

LOCATION
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WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH PLAN NORTH

ROOF ELECTRICAL PLAN - PART A

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
E2.9A

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10/23/2020 9:20:13 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT, BIDDING OR CONSTRUCTION
12/29/2020

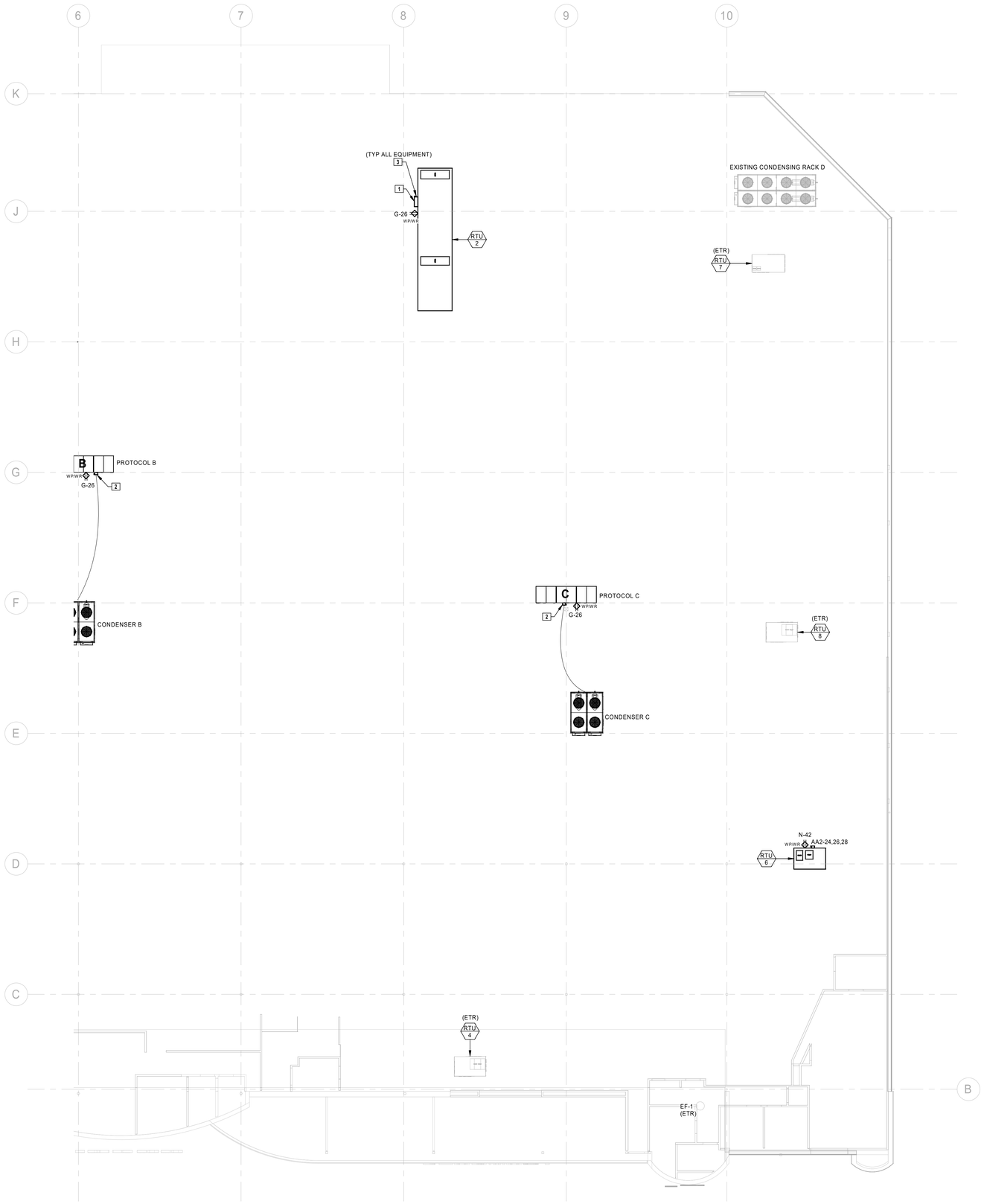
REVISION	BY

ELECTRICAL PLAN NOTES

1 ROUTE POWER TO MDP1 LOCATED IN THE ELECTRICAL ROOM. REFER TO E1.0 FEEDER RISER DIAGRAM FOR MORE INFORMATION.

2 ROUTE POWER TO MRP LOCATED ON THE REFRIGERATION MEZZANINE. REFER TO E1.0 FEEDER RISER DIAGRAM FOR MORE INFORMATION.

3 PROVIDE CIRCUITRY TO DISCONNECT FURNISHED WITH MECHANICAL EQUIPMENT.



1 ROOF ELECTRICAL PLAN - PART B
3/32" = 1'-0"

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STATE OF MISSOURI
DEAN WAY CHANDLER
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PROFESSIONAL ENGINEER

Oct 23 2020

DEAN W. CHANDLER
LICENSE # PE-2017036652

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WEST DES MOINES, IOWA 50266
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FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

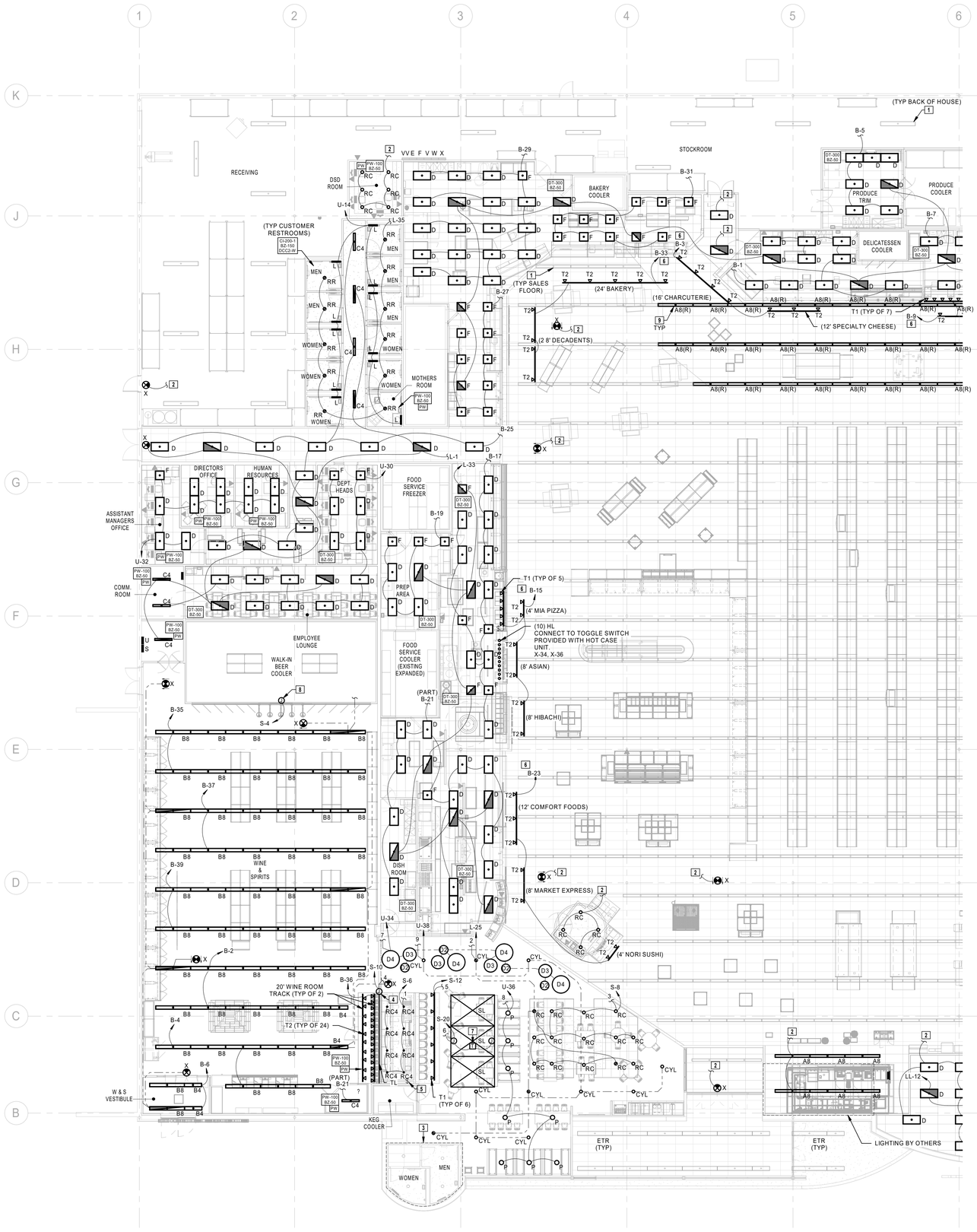
NORTH PLAN NORTH

ROOF ELECTRICAL PLAN - PART B

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
E2.9B

10/23/2020 9:20:18 AM
DEAN W. CHANDLER



1 LIGHTING FLOOR PLAN - PART A
3/32" = 1'-0"

LIGHTING GENERAL NOTES:

1. THE EMERGENCY LIGHTING SYSTEM HAS BEEN DESIGNED TO PROVIDE AN INITIAL FLOOR ILLUMINANCE LEVEL OF 1 FC AVERAGE, 0.1 FC MINIMUM AND NO MORE THAN A 40:1 MAX/MIN RATIO ALONG THE EMERGENCY EGRESS PATHS. WHERE APPLICABLE, ADJUST AIMING OF EMERGENCY LIGHTS AS REQUIRED TO PROVIDE PROPER ILLUMINATION AT FLOOR AVOIDING OBSTACLES AND SHADOWS AFTER STORE SET-UP IS COMPLETE.
2. WALL MOUNTED EXITS SIGNS SHALL BE MOUNTED 12" ABOVE DOOR FRAME AND CENTERED ABOVE DOOR OPENING, UNLESS NOTED OTHERWISE. CEILING/PENDANT MOUNTED EXIT SIGNS SHALL BE SUSPENDED TO 12'-0" AFF IN CUSTOMER AREAS OPEN TO STRUCTURE, AT BOTTOM OF BAR JOISTS IN BACKROOM AREAS AND ON FINISHED CEILING WHERE APPLICABLE, UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL BE READILY VISIBLE FROM DIRECTION OF EGRESS TRAVEL. COORDINATE FINAL EXIT SIGN LOCATIONS WITH AHJ AND OWNER.
3. PROVIDE LABEL AT EACH MANUAL LIGHT SWITCH INDICATING THE LIGHT FIXTURE(S) THAT THE SWITCH CONTROLS AND THE RESPECTIVE "PNLBD-CKT#" DESIGNATION. A SINGLE LIGHT SWITCH FOR A SMALL ROOM DOES NOT NEED TO INDICATE THE SPACE CONTROLLED SINCE IT IS INTUITIVELY OBVIOUS. COORDINATE LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
4. ALL REMOTELY LOCATED LIGHT FIXTURE POWER SUPPLIES SHALL BE LOCATED IN AN ACCESSIBLE LOCATION WITH PROPER VENTILATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONCEAL DEVICES AND RELATED WIRING FROM CUSTOMER/PUBLIC VIEW. PROVIDE ENCOSURE IF REQUIRED. COORDINATE LOCATION AND ENCLOSURE TYPE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
5. PER 2017 NEC 700.2 AND 700.24, ALL DIRECTLY CONTROLLED LUMINAIRES USED FOR EMERGENCY ILLUMINATION AND ALL APPLICABLE CONTROLS SHALL HAVE UL 924 LISTING OR EQUIVALENT NRTL LISTING. IF EMERGENCY LUMINAIRE OR CONTROL MANUFACTURER DOES NOT HAVE APPROPRIATE LISTING THE EMERGENCY LUMINAIRE SHALL NOT BE CONNECTED TO 0-10V DIMMING SYSTEM.

LIGHTING GENERAL NOTES (GROCERY):

1. ALL LIGHT FIXTURES OVER OPEN FOOD AREAS, COFFIN CASES AND FOOD PREP AREAS SHALL BE LED TYPE OR PROVIDED WITH PROTECT-A-LAMP COVERS OR EQUIVALENT SHIELDED OR SHATTERPROOF LAMPS. VERIFY THAT ALL AREAS ARE PROPERLY PROTECTED AFTER STORE SET-UP IS COMPLETE. LIGHT FIXTURES IN FOOD PROCESSING AREAS SHALL BE EASILY CLEANABLE AND SUITABLE FOR THE LOCATION. USE PRODUCTS WITH THE APPROPRIATE NATIONAL SANITATION FOUNDATION (NSF) CERTIFICATION IF REQUIRED BY THE AHJ.
2. COORDINATE FINAL LIGHT FIXTURE LOCATIONS IN WALK-IN COOLERS AND FREEZERS WITH REFRIGERATION COILS AND OTHER TRADES.

LIGHTING SUPPLEMENTAL SPECIFICATIONS:

1. REFER TO THE ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE LOCATIONS, MOUNTING HEIGHTS, TRACK LENGTHS AND ADDITIONAL MOUNTING INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT COORDINATION AND CONFLICT ISSUES ARE RESOLVED PRIOR TO INSTALLATION OF LIGHT FIXTURES. CONTACT ARCHITECT/ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES.
2. THROUGH WIRING OF RECESSED LIGHT FIXTURES, IN SUSPENDED CEILINGS, IS NOT PERMITTED. CONNECT EACH LIGHT FIXTURE BY A WHIP TO A JUNCTION BOX. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTHS TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN A 5'-0" RADIUS OF ITS INDICATED LOCATION. CABLE WHIPS SHALL NOT EXCEED 6'-0" OF UNSUPPORTED LENGTHS.
3. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL MOUNTED LINE VOLTAGE LIGHT SWITCHES, UNLESS NOTED OTHERWISE. IF NEUTRAL TERMINATION IS NOT REQUIRED FOR THE DEVICE THEN CAP CONDUCTOR AND TAG AS "NEUTRAL FOR FUTURE USE".
4. COORDINATE ALL OCCUPANCY/VACANCY SENSOR SETTINGS WITH OWNER AND ADJUST AS NECESSARY FOR PROPER OPERATION. SETTINGS MUST COMPLY WITH AHJ AND LOCAL ENERGY CODE REQUIREMENTS.
5. DO NOT INSTALL OCCUPANCY/VACANCY SENSORS WITHIN 48" OF AIR DIFFUSER OR SIMILAR OBSTRUCTION THAT MAY ADVERSELY AFFECT THE SENSOR PERFORMANCE. COORDINATE FINAL SENSOR LOCATIONS WITH OTHER TRADES AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

LIGHTING DESIGN RESPONSIBILITY GENERAL NOTES:

1. THE LOCATION AND SELECTION OF THE LIGHT FIXTURES WERE MADE BY OTHERS AND ARE OUTSIDE OF THE SCOPE OF WORK OF HENDERSON ENGINEERS, UNLESS NOTED OTHERWISE. HENDERSON ENGINEER'S SCOPE OF SERVICES IS LIMITED TO PROVIDING LIGHTING POWER CIRCUIT AND CONTROL DESIGN AND CODE COMPLIANCE CALCULATIONS. THE USE OF THE SEAL AND SIGNATURE ON THIS SHEET APPLIES TO HENDERSON ENGINEER'S SCOPE OF SERVICES ONLY.

☐ LIGHTING FLOOR PLAN NOTES

1 REPLACE EXISTING LAMP(S) IN THIS AREA WITH LED REPLACEMENT WITH INTEGRATED DRIVER OF SIMILAR LUMEN OUTPUT. LED REPLACEMENT SHALL BE COMPATIBLE WITH EXISTING BALLAST(S), SOCKETS AND CONTROLS. PROVIDE LED REPLACEMENT BY GE, PHILLIPS, OR OTHER APPROVED NRTL LISTED PRODUCT. PROVIDE SUBMITTAL OF PROPOSED LED REPLACEMENT TO ENGINEER AND OWNER FOR REVIEW PRIOR TO ORDER. REPAIR OR REPLACE ANY DAMAGED SOCKETS OR BALLASTS TO ENSURE PROPER OPERATION. FINAL INSTALLATION SHALL MEET ALL CODE REQUIRED LIGHT LEVEL REQUIREMENTS AND SHALL FUNCTION PROPERLY WITH EXISTING CONTROLS.

2 CONNECT TO EXISTING AREA LIGHT FIXTURE CIRCUIT AND CONTROLS. MAINTAIN CONNECTION TO EXISTING NORMAL LIGHTING AND EMERGENCY LIGHTING CIRCUIT(S) FOR PROPER OPERATION. EXISTING RACEWAY, CIRCUITRY AND RELATED APPURTENANCES MAY BE REUSED IF IN GOOD CONDITION AND NEW DESIGN CRITERIA CAN BE MET, OTHERWISE REPLACE.

3 EXISTING ROOM/SPACE TO REMAIN . COORDINATE REMODEL WORK WITH CONSTRUCTION PHASE AND OVERALL PLAN FOR REMODEL OF STORE.

4 VERIFY LOCATION OF LED LIGHTING CONTROLLER (MAGNETIC DIMMABLE DRIVER). LOCATE CONTROLLED IN ACCESSIBLE LOCATION. ROUTE LOW VOLTAGE CABLE IN WALL SPACE TO LED LIGHTING BEHIND ACRYLIC DISPLAY.

5 MARKET GRILLE SWITCHBANK. COORDINATE FINAL LOCATION WITH HY-VEE PRIOR TO ROUGH-IN. REFER TO 2/E3.1.

6 TRACK LIGHTING TO BE CONTROLLED VIA EXISTING LIGHTING CONTROL PANEL.

7 LOCATE TRANSFORMER IN ACCESSIBLE LOCATION ABOVE CEILING ELEMENT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH HY-VEE PRIOR TO ROUGH-IN.

8 PROVIDE JUNCTION BOX FOR BEER COOLER SIGNAGE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH HY-VEE PRIOR TO ROUGH-IN.

9 RELOCATE LIGHT FIXTURE(S) AS SHOWN AND REVISE AND EXTEND RELATED CIRCUITRY.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
BY CITY OF LEE'S SUMMIT, MISSOURI
12/29/2020

REVISION BY

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
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EXPIRES 12/31/2020

PROFESSIONAL SEAL

STATE OF MISSOURI
DEAN WAY CHANDLER
NUMBER PE-2017036652
PROFESSIONAL ENGINEER

DEAN W. CHANDLER Dec 23 2020
LICENSE # PE-2017036652

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

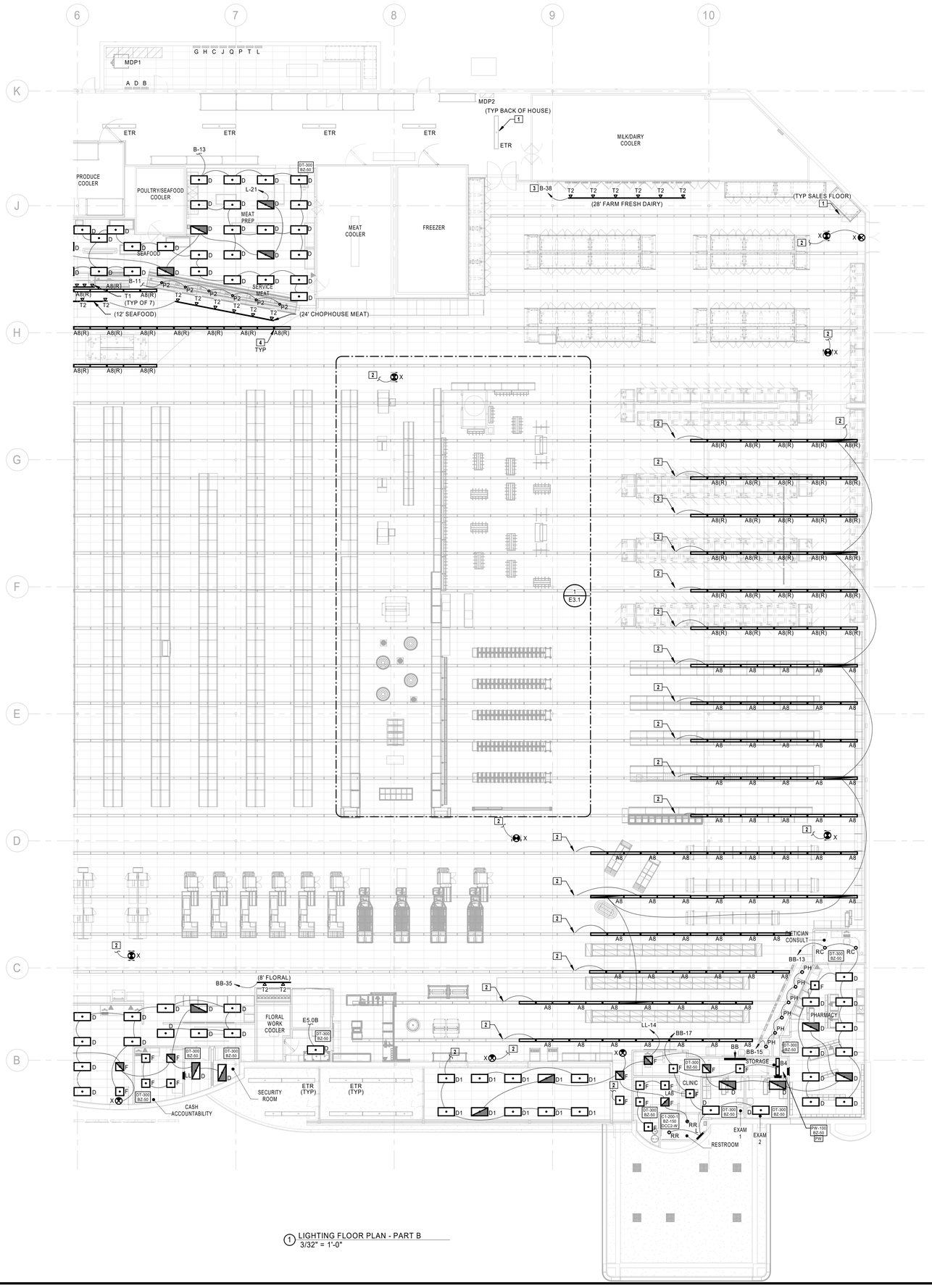
NORTH PLAN NORTH

LIGHTING FLOOR PLAN - PART A

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
E3.0A

DEAN W. CHANDLER
10/23/2020 9:20:31 AM



1 LIGHTING FLOOR PLAN - PART B
3/32" = 1'-0"

LIGHTING GENERAL NOTES:

1. THE EMERGENCY LIGHTING SYSTEM HAS BEEN DESIGNED TO PROVIDE AN INITIAL FLOOR ILLUMINANCE LEVEL OF 1 FC AVERAGE, 0.1 FC MINIMUM AND NO MORE THAN A 40:1 MAX/MIN RATIO ALONG THE EMERGENCY EGRESS PATHS. WHERE APPLICABLE, ADJUST AIMING OF EMERGENCY LIGHTS AS REQUIRED TO PROVIDE PROPER ILLUMINATION AT FLOOR. AVOIDING OBSTACLES AND SHADOWS AFTER STORE SET-UP IS COMPLETE.
2. WALL MOUNTED EXITS SIGNS SHALL BE MOUNTED 12" ABOVE DOOR FRAME AND CENTERED ABOVE DOOR OPENING, UNLESS NOTED OTHERWISE. CEILING/PENDANT MOUNTED EXIT SIGNS SHALL BE SUSPENDED TO 12'-0" AFF IN CUSTOMER AREAS OPEN TO STRUCTURE. AT BOTTOM OF BAR JOISTS IN BACKROOM AREAS AND ON FINISHED CEILING WHERE APPLICABLE, UNLESS NOTED OTHERWISE. EXIT SIGNS SHALL BE READILY VISIBLE FROM DIRECTION OF EGRESS TRAVEL. COORDINATE FINAL EXIT SIGN LOCATIONS WITH AHJ AND OWNER.
3. PROVIDE LABEL AT EACH MANUAL LIGHT SWITCH INDICATING THE LIGHT FIXTURE(S) THAT THE SWITCH CONTROLS AND THE RESPECTIVE "PNLBD-CKT#" DESIGNATION. A SINGLE LIGHT SWITCH FOR A SMALL ROOM DOES NOT NEED TO INDICATE THE SPACE CONTROLLED SINCE IT IS INTUITIVELY OBVIOUS. COORDINATE LABEL REQUIREMENTS WITH THE OWNER PRIOR TO INSTALLATION. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.
4. ALL REMOTELY LOCATED LIGHT FIXTURE POWER SUPPLIES SHALL BE LOCATED IN AN ACCESSIBLE LOCATION WITH PROPER VENTILATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CONCEAL DEVICES AND RELATED WIRING FROM CUSTOMER/PUBLIC VIEW. PROVIDE ENCOSURE IF REQUIRED. COORDINATE LOCATION AND ENCLOSURE TYPE WITH ARCHITECT AND OWNER PRIOR TO INSTALLATION.
5. PER 2017 NEC 700.2 AND 700.24, ALL DIRECTLY CONTROLLED LUMINAIRES USED FOR EMERGENCY ILLUMINATION AND ALL APPLICABLE CONTROLS SHALL HAVE UL 924 LISTING OR EQUIVALENT NRTL LISTING. IF EMERGENCY LUMINAIRE OR CONTROL MANUFACTURER DOES NOT HAVE APPROPRIATE LISTING THE EMERGENCY LUMINAIRE SHALL NOT BE CONNECTED TO 0-10V DIMMING SYSTEM.

LIGHTING GENERAL NOTES (GROCERY):

1. ALL LIGHT FIXTURES OVER OPEN FOOD AREAS, COFFIN CASES AND FOOD PREP AREAS SHALL BE LED TYPE OR PROVIDED WITH PROTECT-A-LAMP COVERS OR EQUIVALENT SHIELDED OR SHATTERPROOF LAMPS. VERIFY THAT ALL AREAS ARE PROPERLY PROTECTED AFTER STORE SET-UP IS COMPLETE. LIGHT FIXTURES IN FOOD PROCESSING AREAS SHALL BE EASILY CLEANABLE AND SUITABLE FOR THE LOCATION. USE PRODUCTS WITH THE APPROPRIATE NATIONAL SANITATION FOUNDATION (NSF) CERTIFICATION IF REQUIRED BY THE AHJ.
2. COORDINATE FINAL LIGHT FIXTURE LOCATIONS IN WALK-IN COOLERS AND FREEZERS WITH REFRIGERATION COILS AND OTHER TRADES.

LIGHTING SUPPLEMENTAL SPECIFICATIONS:

1. REFER TO THE ARCHITECTURAL DRAWINGS FOR LIGHT FIXTURE LOCATIONS, MOUNTING HEIGHTS, TRACK LENGTHS AND ADDITIONAL MOUNTING INFORMATION. CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT COORDINATION AND CONFLICT ISSUES ARE RESOLVED PRIOR TO INSTALLATION OF LIGHT FIXTURES. CONTACT ARCHITECT/ENGINEER IMMEDIATELY IF THERE ARE DISCREPANCIES.
2. THROUGH WIRING OF RECESSED LIGHT FIXTURES, IN SUSPENDED CEILINGS, IS NOT PERMITTED. CONNECT EACH LIGHT FIXTURE BY A WHIP TO A JUNCTION BOX. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTHS TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN A 5'-0" RADIUS OF ITS INDICATED LOCATION. CABLE WHIPS SHALL NOT EXCEED 6'-0" OF UNSUPPORTED LENGTHS.
3. PROVIDE A NEUTRAL CONDUCTOR TO ALL WALL MOUNTED LINE VOLTAGE LIGHT SWITCHES, UNLESS NOTED OTHERWISE. IF NEUTRAL TERMINATION IS NOT REQUIRED FOR THE DEVICE THEN CAP CONDUCTOR AND TAG AS "NEUTRAL FOR FUTURE USE".
4. COORDINATE ALL OCCUPANCY/VACANCY SENSOR SETTINGS WITH OWNER AND ADJUST AS NECESSARY FOR PROPER OPERATION. SETTINGS MUST COMPLY WITH AHJ AND LOCAL ENERGY CODE REQUIREMENTS.
5. DO NOT INSTALL OCCUPANCY/VACANCY SENSORS WITHIN 48" OF AIR DIFFUSER OR SIMILAR OBSTRUCTION THAT MAY ADVERSLY AFFECT THE SENSOR PERFORMANCE. COORDINATE FINAL SENSOR LOCATIONS WITH OTHER TRADES AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

LIGHTING DESIGN RESPONSIBILITY GENERAL NOTES:

1. THE LOCATION AND SELECTION OF THE LIGHT FIXTURES WERE MADE BY OTHERS AND ARE OUTSIDE OF THE SCOPE OF WORK OF HENDERSON ENGINEERS, UNLESS NOTED OTHERWISE. HENDERSON ENGINEER'S SCOPE OF SERVICES IS LIMITED TO PROVIDING LIGHTING POWER CIRCUIT AND CONTROL DESIGN AND CODE COMPLIANCE CALCULATIONS. THE USE OF THE SEAL AND SIGNATURE ON THIS SHEET APPLIES TO HENDERSON ENGINEER'S SCOPE OF SERVICES ONLY.

☐ LIGHTING FLOOR PLAN NOTES

1 REPLACE EXISTING LAMP(S) IN THIS AREA WITH LED REPLACEMENT WITH INTEGRATED DRIVER OF SIMILAR LUMEN OUTPUT. LED REPLACEMENT SHALL BE COMPATIBLE WITH EXISTING BALLAST(S), SOCKETS AND CONTROLS. PROVIDE LED REPLACEMENT BY GE, PHILLIPS, OR OTHER APPROVED NRTL LISTED PRODUCT. PROVIDE SUBMITTAL OF PROPOSED LED REPLACEMENT TO ENGINEER AND OWNER FOR REVIEW PRIOR TO ORDER. REPAIR OR REPLACE ANY DAMAGED SOCKETS OR BALLASTS TO ENSURE PROPER OPERATION. FINAL INSTALLATION SHALL MEET ALL CODE REQUIRED LIGHT LEVEL REQUIREMENTS AND SHALL FUNCTION PROPERLY WITH EXISTING CONTROLS.

2 CONNECT TO EXISTING AREA LIGHT FIXTURE CIRCUIT AND CONTROLS. MAINTAIN CONNECTION TO EXISTING NORMAL LIGHTING AND EMERGENCY LIGHTING CIRCUIT(S) FOR PROPER OPERATION. EXISTING RACEWAY, CIRCUITRY AND RELATED APPURTENANCES MAY BE REUSED IF IN GOOD CONDITION AND NEW DESIGN CRITERIA CAN BE MET, OTHERWISE REPLACE.

3 TRACK LIGHTING TO BE CONTROLLED VIA EXISTING LIGHTING CONTROL PANEL.

4 RELOCATE LIGHT FIXTURE(S) AS SHOWN AND REVISE AND EXTEND RELATED CIRCUITRY.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT, BIDDING, OR CONSTRUCTION
12/29/2020

REVISION	BY

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

PROFESSIONAL SEAL

STATE OF MISSOURI · DEAN WAY CHANDLER · NUMBER PE-2017036652 · PROFESSIONAL ENGINEER

Oct 23 2020

DEAN W. CHANDLER
LICENSE # PE-2017036652

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH PLAN NORTH

LIGHTING FLOOR PLAN - PART B

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:

E3.0B

10/23/2020 9:21:03 AM

DEAN W. CHANDLER

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
LEE'S SUMMIT, MISSOURI
12/29/2020

REVISION BY

MARKET GRILLE and CASUAL DINING LIGHTING FIXTURE SCHEDULE UPDATED 12-13-19

(NOT ALL FIXTURES LISTED MAY APPLY TO THIS PROJECT)

SYMBOL	MARK	TYPE	MANUFACTURER/MODEL #	LOCATION	VOLTAGE	DIMMER	MFR NOTES
TL TAPELIGHT	TAPELIGHT	FLEXIBLE STRIP	TUBE LIGHTING DSH-HO24V-XX-4/DSH-DR60-24V	BAR	120v	STYLE-LINE SWITCH	SEE INTERIOR ELEVATION OF BAR FOR TAPELIGHT LOCATIONS
RC	RC	RECESSED CAN	L6R20ANZ10UVAL/L6R20840VAL4RDD	OVERHEAD	120v	SR12002TUNV	PHILIPS
D1 / D2A / D3A / D4	D1	DRUM 15"x19	CONTECH RLM592DRA1	OVERHEAD	120v	SR1000VA-W-HITE	(2) 15 WATT LAMPS, MAX.
	D2	DRUM 24"x12"	CONTECH RLM592DRB1	OVERHEAD	120v	SR1000VA-W-HITE	(2) 15 WATT LAMPS, MAX.
	D2A	DRUM 24"x21"	CONTECH RLM592DRC1	OVERHEAD	120v	SR1000VA-W-HITE	(2) 15 WATT LAMPS, MAX.
	D3	DRUM 36"x12"	CONTECH RLM594DRD1	OVERHEAD	120v	SR1000VA-W-HITE	(4) 15 WATT LAMPS, MAX.
	D3A	DRUM 36"x30"	CONTECH RLM594DRE1	OVERHEAD	120v	SR1000VA-W-HITE	(4) 15 WATT LAMPS, MAX.
	D4	DRUM 48"x18"	CONTECH RLM594DRF1	OVERHEAD	120v	SR1000VA-W-HITE	(4) 15 WATT LAMPS, MAX.
S1	S1	SPOT LIGHT	CONTECH LIGHTING CTL 806V	OVERHEAD TRACK	120v	SR1000VA-W-HITE	VERIFY MOUNTING HEIGHTS
F1 F1 F1	F1	FLOOD LIGHT	CONTECH LIGHTING CTL 806V	OVERHEAD TRACK	120v	SR1000VA-W-HITE	VERIFY MOUNTING HEIGHTS AND METHODS
P	P	PENDANT	TECH LIGHTING 700MOYLS MINI SIGNAL PENDANT	TABLE LIGHTS	120v	SR1000VA-W-HITE	TECH LIGHTING
CYL		CYLINDER	CONTECH CL8130MVD/2-P-M-CLR-S-CSK18-S	CYLINDER - PATH AND EMERGENCY LIGHTING	120v	SR1000VA-W-HITE	VERIFY MOUNTING HEIGHT
SL		SUSPENDED LIGHTING (2 INDIVIDUAL RUNS)	TUBE LIGHTING, INC. BPS-3075M-12-WWLED-FRSM-GD-BK-B/S*	OVERHEAD AT BAR	120v		SUSPEND LIGHTING STRINGS BETWEEN CORNERS OF FRAMEWORK WITH 3/16" DIAMETER STAINLESS STEEL SUSPENSION CABLE. INSTALL MODEL T-1/2/3-24-1 150W TRANSFORMER IN ACCESSIBLE LOCATION
RC4		RECESSED CAN	PHILIPS/LIGHTOLIER L4R10ANZ10UVAL/L4R10840VAL4RDD	OVERHEAD	120V	SR12002TUNV 0-10 VOLT	1500 LUMEN FIXTURE. PROVIDE DIMMER SWITCH.

REFER TO ENERGY MANAGEMENT CONSULTANTS (EMC) DRAWINGS AND SCHEDULES FOR COMPLETE LIST OF LIGHTING REQUIREMENTS INCLUDING LAMP SPECIFICATIONS, BALLASTS, AND MISCELLANEOUS COMPONENTS.

FOR THE RECESSED LIGHTING FIXTURES AND CYLINDER FIXTURES CONNECTED TO THE EMERGENCY LIGHTING PANEL, FURNISH AND INSTALL A PHILLIPS BODINE GENERATOR TRANSFER DEVICE (GTD) TO POWER THE FIXTURE WHEN ENERGIZED FROM THE GENERATOR.

LIGHTING FIXTURE SCHEDULE

SYMBOL	TYPE	EMC LABEL	MANUFACTURER/MODEL #	WATTS	VA	VOLTAGE	LOCATION	NOTES
A8	8' SALES LIGHTING FIXTURE - LED	GSDBLED	GE L-IS-18-B-0-A2-D9-P-40-V-Q-CS-WHITE	101		120	SALES LIGHTING	LED FIXTURE
B8	8' SALES LIGHTING FIXTURE	GSD8	PHILIPS TKA232-UNV-120-2/2-EBO(B232PUNVDFHAODC)-P218-WH-FA	146-27		120	SALES LIGHTING	OPEN CEILING E4HKK HANGERS, 789276001 TKA END CAPS
B4	4' SALES LIGHTING FIXTURE	GSD4	PHILIPS KA232-UNV-120-1/2-EBO(B232PUNVDFHAODC)-P214-WH-FA	70-14		120	SALES LIGHTING	OPEN CEILING E4HKK HANGERS, 789276001 TKA END CAPS
C4	1X4 BACKROOM UTILITY FIXTURE	PG4	PHILIPS IS232-120-1/2-EB-B232UNVHP-N	58	64	120	BACKROOMS	
D1	2X4 LED FIXTURE	LED	PHILIPS 2FGG43B-840-4-D-UNV-DIM	44	48	120	SEE PLAN	LED FIXTURE
		LED ENT	PHILIPS 2FGG43B-840-4-D-UNV-DIMFMA24	44	48	120	SEE PLAN	LED FIXTURE (entry cart storage)
F	2X2 LED FIXTURE	LED22 UP62	PHILIPS 2FGG38B-840-2-D-UNV-DIM	54	60	120	SEE PLAN	LED FIXTURE
D	2X4 LED FIXTURE - FLAT PANEL		PHILIPS 2 FXP 42B 840 4 DS UNV DIM	38	42	120	SEE PLAN	LED FIXTURE - BACK OF HOUSE, AREAS NOT VISIBLE TO CUSTOMER
FC	LOW TEMP FREEZER/COOLER FIXTURE	HO	KINGSPAN LDX-VT-D-4-24	47	52	120	COOLERS FREEZERS	LED FIXTURE SEE DRAWING ES.0
L	MIRROR LIGHT	RW	WAC LIGHTING WS-6724F-30-AL	22	24	120	RESTROOMS	ABOVE MIRROR
X	EXIT LIGHT	E	MCPHILBEN DBBJ VERWEM	3.4	3.4	120	ALL AREAS	
RC	RECESSED CAN LIGHTING FIXTURE	LEDC	PHILIPS L6R20ANZ10UVAL/L6R20840VAL6RDD	22	24	120	DEPARTMENTS	LED FIXTURE
RR	RESTROOM RECESSED CAN FIXTURE	RR	PHILIPS L6R20ANZ10UVAL/L6R20840VAL6RDD	22	24	120	MOTHER'S ROOM/ RESTROOMS	LED FIXTURE
PH	PHARMACY RECESSED CAN FIXTURE	LEDC	PHILIPS L4R10ANZ10UVAL/L4R10840VAL4RDD	22	24	120	PHARMACY	LED FIXTURE
P2	PENDANT LIGHT FIXTURE AT MEAT CASES	P	DAYBRITE VP11GC; RAB C100 J-BOX COVER LG7003DGD-326-2200K-120V	9.5	10	120	MEAT DEPT	INSTALLED OVER CASES; E.C. TO PAINT COVER WITH GALVANIZED PAINT TO MATCH FIXTURE
PT	PENDANT LIGHT FIXTURE - DSW & JOE FRESH		TECH LIGHTING POWELL STREET PENDANT 700TDPSPEWWW-LED830 LA17 TRACK CONNECTOR	150	160	120	DSW & JOE FRESH CHECKOUT	
HL RED HEAT LAMPS	HEAT LAMPS (ABOVE ASIAN CASE)		HATCO DL-700 (RADIANT RED)	250	275	120	ASIAN CASE	120 VOLT. MOUNT OVER SEE PLAN FOR TRACK LENGTHS
T1	BAKERY CAKE WALL / SEAFOOD TRACK LIGHTING LED	THLW	CONTECH CTL8063VM30-S LT-4-S LT-8-S LA-10-S LA-2-S	21	23	120	SEAFOOD	LED SEE PLAN FOR TRACK LENGTHS
T2	DEPARTMENT HEADER TRACK LIGHTING LED	THWHT	CONTECH CTL193 H 4 S (SILVER)	35	38	120	DEPARTMENT TRACK LIGHTING	LED SEE PLAN FOR TRACK LENGTHS
T3B	CANDY/CARDS TRACK LIGHTING LED		CONTECH CTL8063VF3D-B LT-6-P (BLACK TRACK) LA-10-BK (STARTER)	21	23	120	DEPARTMENT TRACK LIGHTING	LED SEE PLAN FOR TRACK LENGTHS
T3W	CANDY/CARDS TRACK LIGHTING LED		CONTECH CTL8063VM3D-W LT-6-P (WHITE TRACK) LA-10-W-H (STARTER)	21	23	120	DEPARTMENT TRACK LIGHTING	LED SEE PLAN FOR TRACK LENGTHS
T4	CANDY/CARDS LED		SPUTNICK CUSTOM STEM FIXTURE CONTECH LA-117 CONNECTOR	60	60	120	DEPARTMENT	LED

REFER TO ENERGY MANAGEMENT CONSULTANTS (EMC) DRAWINGS AND SCHEDULES FOR COMPLETE LIST OF LIGHTING REQUIREMENTS INCLUDING LAMP SPECIFICATIONS, BALLASTS, AND MISCELLANEOUS COMPONENTS.

LIGHTING CONTROLS

(NOT ALL DEPARTMENTS LISTED MAY APPLY TO THIS PROJECT)

AREA	CONTROLS
MAIN SALES FLOOR	LIGHTING DIMMING PANEL
WINE AND SPIRITS	LIGHTING DIMMING PANEL
DINING AREAS and BAR	DIMMER SWITCHES (SEE SPECIFIC SCHEDULE AND DIAGRAMS FOR DIMMING CONTROLS)
KITCHEN	WATTSTOPPER DT-300 OCCUPANCY SENSOR(S) WITH BZ-50 POWER PACK(S) — PH-300 BZ-50
ASIAN KITCHEN	WATTSTOPPER DT-300 OCCUPANCY SENSOR(S) WITH BZ-50 POWER PACK(S) — PH-300 BZ-50
BAKERY	WATTSTOPPER DT-300 OCCUPANCY SENSOR(S) WITH BZ-50 POWER PACK(S). PROVIDE STYLE-LINE WALL SWITCH FOR CAKE DECORATING TRACK LIGHTS — PH-300 BZ-50
MEAT DEPT	WATTSTOPPER DT-300 OCCUPANCY SENSOR(S) WITH BZ-50 POWER PACK(S). PROVIDE STYLE-LINE WALL SWITCH FOR SEAFOOD TRACK LIGHTS — PH-300 BZ-50
CHEESE ISLAND	WATTSTOPPER DT-300 OCCUPANCY SENSOR(S) WITH BZ-50 POWER PACK(S) — PH-300 BZ-50
PHARMACY	WATTSTOPPER DT-300 OCCUPANCY SENSOR(S) WITH BZ-50 POWER PACK(S) FOR 2X2 LIGHTING. PROVIDE STYLE-LINE WALL SWITCH FOR RECESSED FIXTURES AT BULKHEAD OVER PHARMACY COUNTER — PH-300 BZ-50
PHARMACY CONSULT. ROOM	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PH-100 BZ-50
DEPT HEADS OFFICE	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PH-300 BZ-50
ASSISTANT MANAGER OFFICE	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PH-100 BZ-50
EMPLOYEE LOUNGE	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PH-300 BZ-50
CASH ACCOUNTABILITY	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PH-300 BZ-50
PRODUCE PREPACK	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PH-300 BZ-50
SCAN ROOM OFFICE	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PH-100 BZ-50
ACCOUNTING OFFICE	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PH-100 BZ-50
COMMUNICATIONS CLOSET	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PH-300 BZ-50
WINE and SPIRITS STORAGE	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PH-300 BZ-50
CLINIC/EXAM ROOMS	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PH-300 BZ-50
HOME COOKING ROOM	WATTSTOPPER DT-300 OCCUPANCY SENSOR WITH BZ-50 POWER PACK — PH-300 BZ-50
HR OFFICE	WATTSTOPPER PW-100 WALL SWITCH WITH INTEGRAL BZ-50 POWER PACK — PW-100 BZ-50
DIETITIAN OFFICE	WATTSTOPPER PW-100 WALL SWITCH WITH INTEGRAL BZ-50 POWER PACK — PW-100 BZ-50
DIRECTORS OFFICE	WATTSTOPPER PW-100 WALL SWITCH WITH INTEGRAL BZ-50 POWER PACK — PW-100 BZ-50
ACCOUNTING STORAGE	WATTSTOPPER PW-100 WALL SWITCH WITH INTEGRAL BZ-50 POWER PACK — PW-100 BZ-50
JANITORS CLOSET	WATTSTOPPER PW-100 WALL SWITCH WITH INTEGRAL BZ-50 POWER PACK — PW-100 BZ-50
MOTHERS ROOM	WATTSTOPPER PW-100 WALL SWITCH WITH INTEGRAL BZ-50 POWER PACK — PW-100 BZ-50
PHARMACY STORAGE	WATTSTOPPER PW-100 WALL SWITCH WITH INTEGRAL BZ-50 POWER PACK — PW-100 BZ-50
BACK STOREROOM/DOCK (with SKYLIGHTS)	WATTSTOPPER LS-102 OCCUPANCY SENSOR(S) WITH BZ-50 POWER PACK(S) — LS-102 BZ-50
INDIVIDUAL RESTROOMS	WATTSTOPPER CI-200-1 CEILING MOUNTED OCCUPANCY SENSOR (EACH RESTROOM OR STALL) WITH BZ-150 POWER PACK AND DCC2/W WALL CONTROL — CI-200-1 BZ-150 DCC2/W
FREEZERS and COOLERS (except BEER COOLER)	WATTSTOPPER CB-100 OCCUPANCY SENSOR(S) WITH BZ-50 POWER PACK(S) : (VERIFY LOCATION OF BZ-50 POWER PACK - INSIDE OR OUTSIDE OF FREEZER/COOLER) — CB-100 BZ-50
BEER COOLER	STYLE-LINE WALL SWITCH
WINE TASTING ROOM	STYLE-LINE WALL SWITCH
FRONT ELECTRIC ROOM	STYLE-LINE WALL SWITCH
VESTIBULES	NO CONTROLS (TO BE SWITCHED BY PANELBOARD BREAKER)
DEPT HEADER TRACK LIGHTS	NO CONTROLS (TO BE SWITCHED BY PANELBOARD BREAKER)

NOTES:

1. COORDINATE ALL LIGHTING CONTROLS WITH DRAWINGS PREPARED BY ENERGY MANAGEMENT CONSULTANTS.

2. ANY AREA NOT LISTED ABOVE SHALL BE CONTROLLED BY A STYLE-LINE WALL SWITCH.

CIRCUIT 'MARKET GRILLE' LIGHTING FIXTURES TO ELECTRICAL PANELS 'S', 'U' , AND 'L' (EMER PANEL)

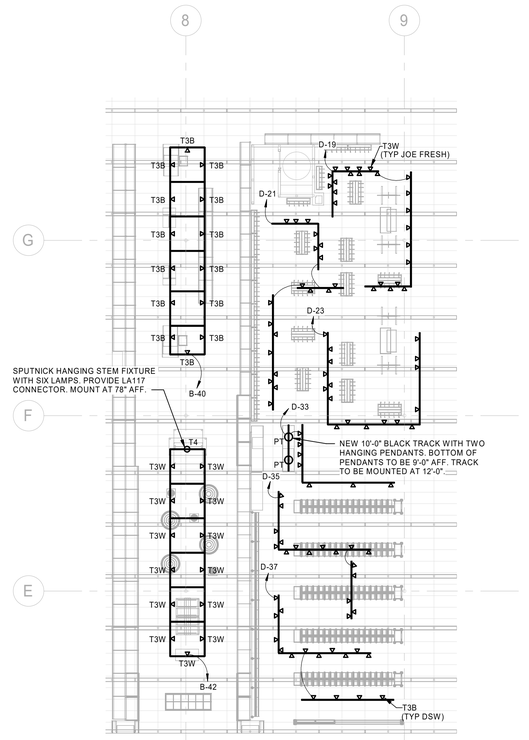
PROVIDE A PERMANENT PLASTIC PLAQUE LABEL FOR EACH SWITCH DESCRIBING ITS USE AND CIRCUIT NUMBER

PROVIDE DEEP BOXES FOR DIMMER SWITCHES

1	2	3	4	
DIMMER 120V BAR RECESSED (CKT: S-6)	DIMMER 120V EMER. LTG (CKT: L-25)	DIMMER 120V OVERHEAD RECESSED (CKT: S-8)	DIMMER 120V BACK BAR DISPLAY (CKT: S-10)	4 GANG COVERPLATE

5	6	7	8	9	
DIMMER 120V BAR FLOODS (48 HEADS) (CKT: S-12)	DIMMER 120V BAR TRELLIS (CKT: S-20)	DIMMER 120V DRUM LIGHTS (CKT: U-34)	DIMMER 120V TRACK PENDANTS (CKT: U-36)	DIMMER 120V CYLINDER LIGHTS (CKT: U-38)	5 GANG COVERPLATE

2 / E3.1 'MARKET GRILLE' LIGHTING SWITCH LAYOUT
SCALE: NONE



1 LIGHTING FLOOR PLAN - GREETING CARDS/CANDY/JOE FRESH/DSW
3/32" = 1'-0"

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
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MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

PROFESSIONAL SEAL

STATE OF MISSOURI — DEAN WAY CHANDLER — NUMBER PE-2017036652 — PROFESSIONAL ENGINEER

DEAN W. CHANDLER 10/23/2020
LICENSE # PE-2017036652

LOCATION
LEE'S SUMMIT, MO #2
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hyvee® EMPLOYEE OWNED

NORTH PLAN NORTH

LIGHTING SCHEDULES AND DETAILS

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:

E3.1

DEAN W. CHANDLER
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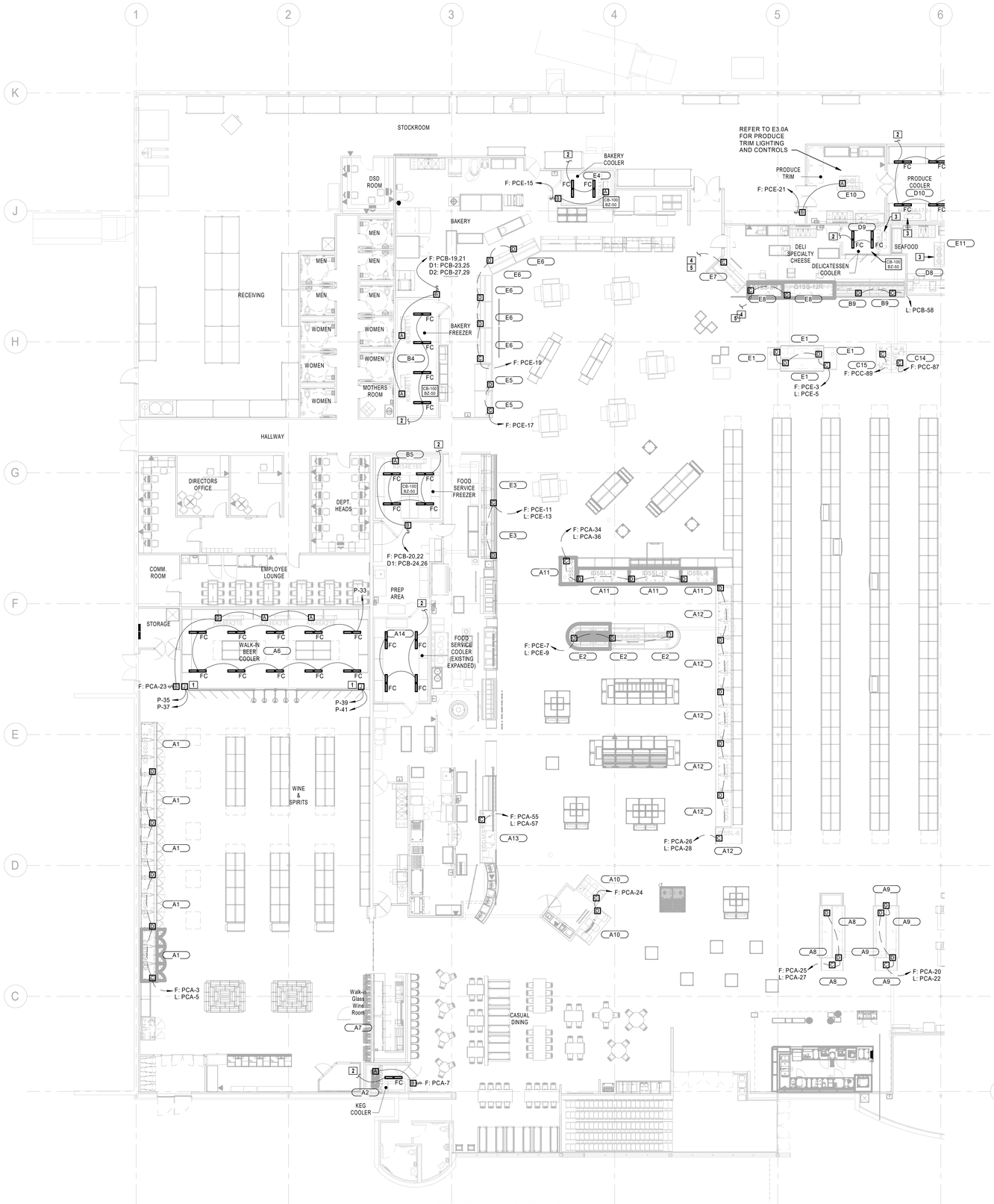

1 REFRIGERATION ELECTRICAL PLAN - PART A
3/32" = 1'-0"

REFRIGERATION GENERAL NOTES:

1. ALL REFRIGERATION CIRCUITS TERMINATE IN REFRIGERATION EQUIPMENT ROOM.
2. ALL SALES AREA REFRIGERATED CASE LIGHTING CIRCUITS ARE GANGED AND SINGLE RUN TO PANEL AS INDICTED.
3. ALL COIL FANS IN COOLERS AND FREEZERS SHALL BE WIRED FOR CONTINUOUS OPERATION. COIL FANS IN PRODUCE PREPACK AND MEAT CUTTING ROOMS SHALL BE WIRED THROUGH A SWITCH AND SOLENOID VALVE.
4. 1/2" CONDUIT FOR CONTROL SYSTEM, SEE REFRIGERATION DRAWINGS FOR DETAILS. CONDUIT TO BE STUBBED UP AT SAME LOCATION AS ELECTRICAL STUBUP.
5. ELECTRICIAN TO PROVIDE ALL CONTROL WIRING FOR REFRIGERATION SYSTEM. VERIFY REQUIREMENTS WITH REFRIGERATION CONTRACTOR.
6. WIRE ONE PORCELAIN LAMPHOLDER WITH RED 40W LAMP TO THE CONTROLS OF EACH RACK AND/OR EACH PROTOCOL UNIT. ELECTRICIAN TO FURNISH LAMPHOLDERS AND LAMPS. VERIFY LOCATION WITH REFRIGERATION CONTRACTOR.
7. WIRE ONE REMOTE ALARM PANEL. VERIFY LOCATION WITH THE REFRIGERATION CONTRACTOR. (TYPICALLY OUTSIDE THE MACHINE ROOM DOOR)
8. PROVIDE WIRING FOR ELECTRIC DEFROST TO DEFROST PANEL WHERE APPLICABLE.
9. THE ELECTRICAL CONTRACTOR SHALL SUBMIT TO HY-VEE A PARTIAL AS-BUILT DRAWING, ALONG WITH EVERY PAYMENT REQUEST, FOR ANY UNDERGROUND ELECTRICAL WORK. THE AS-BUILT SHALL PROVIDE ACCURATE INFORMATION ON CONDUIT SIZE AND LOCATIONS ALONG WITH APPROXIMATE DEPTH OF LINES. THE ELECTRICAL CONTRACTOR SHALL SUBMIT A FINAL AND COMPLETE AS-BUILT DRAWING WITH PAYMENT REQUEST WHEN ALL UNDERGROUND WORK HAS BEEN COMPLETED AND APPROVED BY HY-VEE.
10. CONTRACTOR TO VERIFY ALL DIMENSIONS FOR ROUGH-INS AND STUB-UPS WITH OWNER BEFORE CONSTRUCTION AND INSTALLATION BEGINS.
11. COILS WITH ELECTRIC DEFROST TO BE WIRED FOR 208V-1PH. SEE EQUIPMENT SCHEDULE ON REFRIGERATION DRAWINGS.
12. ALL TEMP. SENSORS THAT ARE FIELD INSTALLED IN CASES, COOLERS, FREEZERS, MEAT CUTTING ROOM, PRODUCE PREP ROOM SHALL BE FURNISHED BY REFRIGERATION CONTRACTOR, WIRE PULLED BY ELECTRICIAN AND INSTALLED BY REFRIGERATION CONTROLS CONTRACTOR. REFRIGERATION CONTROLS CONTRACTOR TO TERMINATE AND FURNISH TERMINATION POINT DRAWING.
13. ALL REFRIGERATED CASES ARE FACTORY WIRED TO JUNCTION BOX ON CASES AND IDENTIFICATION TAGGED.
14. SEE REFRIGERATION DRAWINGS FOR WIRING DIAGRAM FOR CONDENSER AND COMPRESSOR RACK CONTROLS.
15. REFRIGERATION CONTRACTOR SHALL FURNISH PIPE HEATING TAPES OF LENGTHS AS REQ'D FOR CONDENSATE DRAIN LINES INSIDE OF WALK-IN FREEZER, BAKERY FREEZER, MEAT COOLER, SEAFOOD COOLER, KITCHEN FREEZER, AND PKGD. MEAT COOLER. INSTALLED BY ELECTRICIAN.
16. RUN (2) - #14 CONTROL WIRES TO ALL REFRIGERATION CONTROL VALVES FOR EACH SYSTEM, ALL COOLERS AND FREEZERS, ALL LOW TEMP. CASES AND ALL MED TEMP. CASES. WIRES MAY BE RUN IN CONDUIT WITH OTHER POWER LINES. KOOL GAS DEFROST SYSTEMS REQUIRE AN ADDITIONAL PAIR OF #14 CONTROL WIRES, SEE EQUIPMENT SCHEDULE ON REFRIGERATION DRAWINGS.

REFRIGERATION SYMBOLS

- A — CONDUIT FROM OVERHEAD TO JUNCTION BOX ON COIL UNIT. ELECTRICIAN TO PROVIDE EXTRA CONDUIT AND 20 AMP CIRCUIT FOR CASE OR COOLER LIGHTS, FANS, ETC.. (FIELD VERIFY PANELS, CIRCUITS, ETC...)
- B — CONDUIT FROM OVERHEAD TO JUNCTION BOX ON TOP OF CASE, COOLER OR FREEZER. ELECTRICIAN TO PROVIDE EXTRA CONDUIT AND 20 AMP CIRCUIT FOR CASE OR COOLER LIGHTS, FANS, ETC..(FIELD VERIFY PANELS, CIRCUITS, ETC...)
- C — CONDUIT STUBBED UP AT DIMENSION SHOWN WITH A 4 X 4 JUNCTION BOX 1" ABOVE FLOOR. RUN RIGID CONDUIT TO JUNCTION BOX ON CASE..OR FREEZER. ELECTRICIAN TO PROVIDE EXTRA CONDUIT AND 20 AMP CIRCUIT FOR CASE OR COOLER LIGHTS, FANS, ETC..(FIELD VERIFY PANELS, CIRCUITS, ETC...)
- D — RUN 4X4 JUNCTION BOX 1" ABOVE FLOOR. RUN RIGID CONDUIT TO JUNCTION BOX ON CASE. ELECTRICIAN TO PROVIDE WIRING, CONDUIT, AND CIRCUITS FOR CASE OR COOLER LIGHTS, FANS, ETC. (FIELD VERIFY PANEL, CIRCUITS, ETC.) AND REFRIGERATION CONTROL WIRING. ROUTE WIRING OVERHEAD OR UNDER FLOOR TO CASES IN ORDER TO MINIMIZE FLOOR REMOVAL AND REPLACEMENT AND TO KEEP DISRUPTIONS TO STORE OPERATIONS HELD TO A MINIMUM. COORDINATE ALL ELECTRICAL WITH G.C. AND REFRIGERATION WORK.
- A1 — REFRIGERATION 'SYSTEM' DESIGNATION. SEE 'R' DRAWINGS FOR FURTHER INFORMATION.

F: FANS, L: LIGHTS — D1: DEFROST CIRCUIT 1, D2: DEFROST CIRCUIT 2, D3: DEFROST CIRCUIT 3

REFRIGERATION PLAN NOTES

1 PROVIDE NEMA-3R JUNCTION BOX FOR COOLER DOOR LIGHTS AND ANTI-SWEAT HEATERS. PROVIDE CONNECTION TO EACH SET OF DOOR FRAMES. COORDINATE REQUIREMENTS WITH EQUIPMENT INSTALLER AND OTHER TRADES PRIOR TO INSTALLATION AND ADJUST ELECTRICAL PROVISIONS AS NECESSARY.

2 CONNECT TO EXISTING AREA LIGHT FIXTURE CIRCUIT AND CONTROLS. MAINTAIN CONNECTION TO EXISTING NORMAL LIGHTING AND EMERGENCY LIGHTING CIRCUIT(S) FOR PROPER OPERATION. EXISTING RACEWAY, CIRCUITRY AND RELATED APPURTENANCES MAY BE REUSED IF IN GOOD CONDITION AND NEW DESIGN CRITERIA CAN BE MET, OTHERWISE REPLACE.

3 EXISTING COOLER/FREEZER AND COIL(S) TO REMAIN.

4 REVISE AND EXTEND CIRCUITRY FOR RELOCATED/REPLACED EQUIPMENT. COORDINATE EXACT CONDUIT ROUTING WITH TENANT AND OTHER TRADES. EXISTING DEVICES AND RELATED CIRCUITRY MAY BE REUSED IF IN GOOD CONDITION, OTHERWISE REPLACE.

5 EXISTING CIRCUIT INFORMATION WAS NOT ABLE TO BE DETERMINED FROM ARCHIVED DRAWINGS AND FIELD SURVEYS. CONTRACTOR TO VERIFY INFORMATION ON SITE.

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT, BIDDING OR CONSTRUCTION
12/29/2020

REVISION	BY

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
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WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

PROFESSIONAL SEAL

STATE OF MISSOURI — DEAN WAY CHANDLER — NUMBER PE-2017036652 — PROFESSIONAL ENGINEER

Oct 23 2020

DEAN W. CHANDLER
LICENSE # PE-2017036652

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2955

Hy-Vee® EMPLOYEE OWNED

NORTH — PLAN NORTH

REFRIGERATION ELECTRICAL POWER PLAN - PART A

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

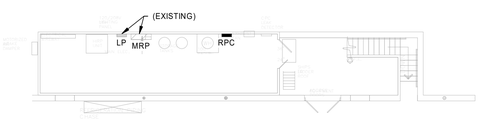
SHEET:

E5.0A

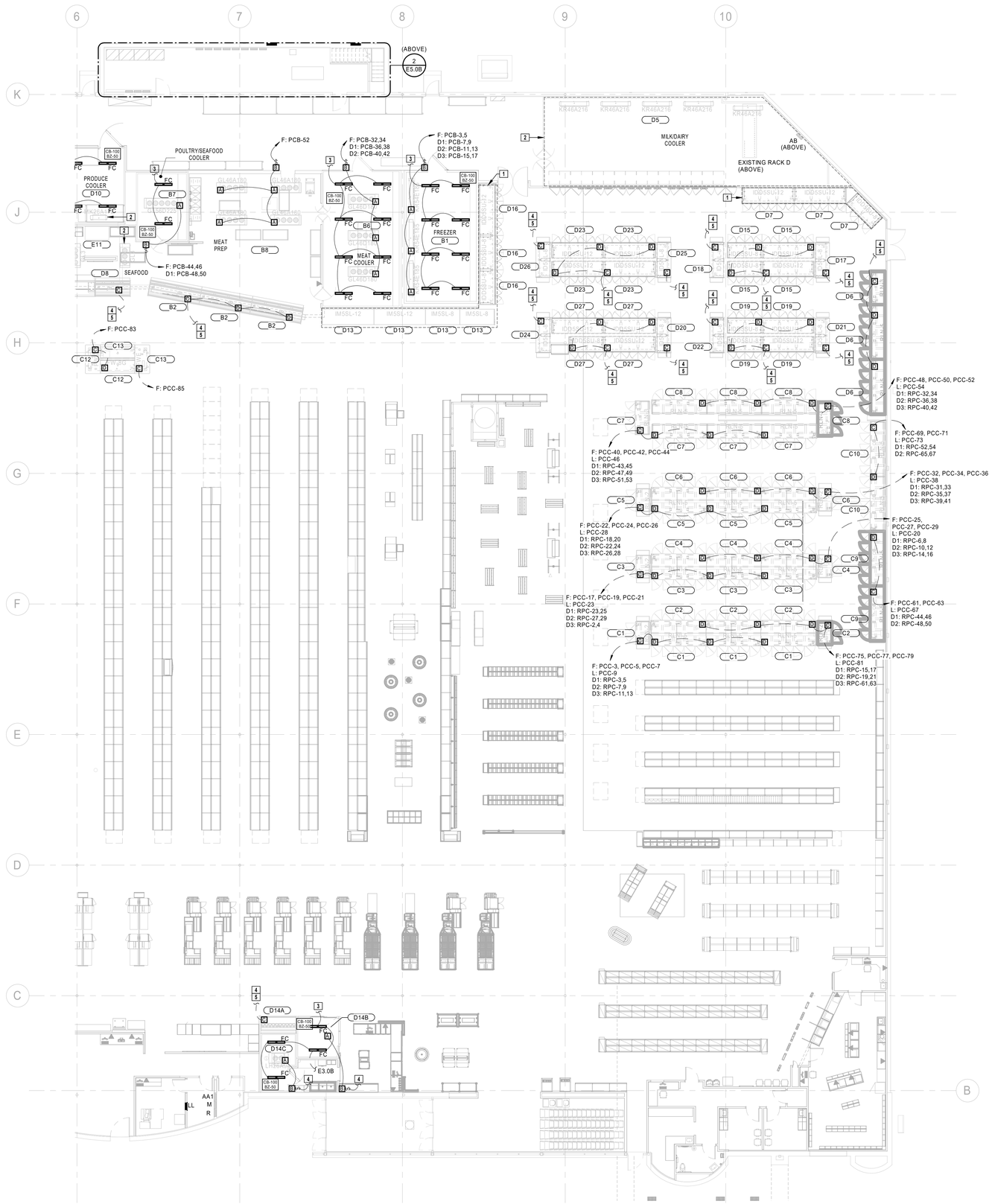
DEAN W. CHANDLER
10/23/2020 9:21:47 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
HY-VEE LEE'S SUMMIT, MO #2
310 SW WARD RD
LEE'S SUMMIT, MISSOURI
12/29/2020

REVISION BY



2 ELECTRICAL PLAN - REFRIGERATION MEZZANINE
3/32" = 1'-0"



1 REFRIGERATION ELECTRICAL PLAN - PART B
3/32" = 1'-0"

REFRIGERATION GENERAL NOTES:

1. ALL REFRIGERATION CIRCUITS TERMINATE IN REFRIGERATION EQUIPMENT ROOM.
2. ALL SALES AREA REFRIGERATED CASE LIGHTING CIRCUITS ARE GANGED AND SINGLE RUN TO PANEL AS INDICTED.
3. ALL COIL FANS IN COOLERS AND FREEZERS SHALL BE WIRED FOR CONTINUOUS OPERATION. COIL FANS IN PRODUCE PREPACK AND MEAT CUTTING ROOMS SHALL BE WIRED THROUGH A SWITCH AND SOLENOID VALVE.
4. 1/2" CONDUIT FOR CONTROL SYSTEM, SEE REFRIGERATION DRAWINGS FOR DETAILS. CONDUIT TO BE STUBBED UP AT SAME LOCATION AS ELECTRICAL STUBUP.
5. ELECTRICIAN TO PROVIDE ALL CONTROL WIRING FOR REFRIGERATION SYSTEM. VERIFY REQUIREMENTS WITH REFRIGERATION CONTRACTOR.
6. WIRE ONE PORCELAIN LAMPHOLDER WITH RED 40W LAMP TO THE CONTROLS OF EACH RACK AND/OR EACH PROTOCOL UNIT. ELECTRICIAN TO FURNISH LAMPHOLDERS AND LAMPS. VERIFY LOCATION WITH REFRIGERATION CONTRACTOR.
7. WIRE ONE REMOTE ALARM PANEL. VERIFY LOCATION WITH THE REFRIGERATION CONTRACTOR. (TYPICALLY OUTSIDE THE MACHINE ROOM DOOR)
8. PROVIDE WIRING FOR ELECTRIC DEFROST TO DEFROST PANEL WHERE APPLICABLE.
9. THE ELECTRICAL CONTRACTOR SHALL SUBMIT TO HY-VEE A PARTIAL AS-BUILT DRAWING, ALONG WITH EVERY PAYMENT REQUEST, FOR ANY UNDERGROUND ELECTRICAL WORK. THE AS-BUILT SHALL PROVIDE ACCURATE INFORMATION ON CONDUIT SIZE AND LOCATIONS ALONG WITH APPROXIMATE DEPTH OF LINES. THE ELECTRICAL CONTRACTOR SHALL SUBMIT A FINAL AND COMPLETE AS-BUILT DRAWING WITH PAYMENT REQUEST WHEN ALL UNDERGROUND WORK HAS BEEN COMPLETED AND APPROVED BY HY-VEE.
10. CONTRACTOR TO VERIFY ALL DIMENSIONS FOR ROUGH-INS AND STUB-UPS WITH OWNER BEFORE CONSTRUCTION AND INSTALLATION BEGINS.
11. COILS WITH ELECTRIC DEFROST TO BE WIRED FOR 208V-1PH. SEE EQUIPMENT SCHEDULE ON REFRIGERATION DRAWINGS.
12. ALL TEMP. SENSORS THAT ARE FIELD INSTALLED IN CASES, COOLERS, FREEZERS, MEAT CUTTING ROOM, PRODUCE PREP ROOM SHALL BE FURNISHED BY REFRIGERATION CONTRACTOR, WIRE PULLED BY ELECTRICIAN AND INSTALLED BY REFRIGERATION CONTROLS CONTRACTOR. REFRIGERATION CONTROLS CONTRACTOR TO TERMINATE AND FURNISH TERMINATION POINT DRAWING.
13. ALL REFRIGERATED CASES ARE FACTORY WIRED TO JUNCTION BOX ON CASES AND IDENTIFICATION TAGGED.
14. SEE REFRIGERATION DRAWINGS FOR WIRING DIAGRAM FOR CONDENSER AND COMPRESSOR RACK CONTROLS.
15. REFRIGERATION CONTRACTOR SHALL FURNISH PIPE HEATING TAPES OF LENGTHS AS REQ'D FOR CONDENSATE DRAIN LINES INSIDE OF WALK-IN FREEZER, BAKERY FREEZER, MEAT COOLER, SEAFOOD COOLER, KITCHEN FREEZER, AND PKGD. MEAT COOLER. INSTALLED BY ELECTRICIAN.
16. RUN (2) - #14 CONTROL WIRES TO ALL REFRIGERATION CONTROL VALVES FOR EACH SYSTEM, ALL COOLERS AND FREEZERS, ALL LOW TEMP. CASES AND ALL MED TEMP. CASES. WIRES MAY BE RUN IN CONDUIT WITH OTHER POWER LINES. KOOL GAS DEFROST SYSTEMS REQUIRE AN ADDITIONAL PAIR OF #14 CONTROL WIRES, SEE EQUIPMENT SCHEDULE ON REFRIGERATION DRAWINGS.

REFRIGERATION SYMBOLS

A	CONDUIT FROM OVERHEAD TO JUNCTION BOX ON COIL UNIT. ELECTRICIAN TO PROVIDE EXTRA CONDUIT AND 20 AMP CIRCUIT FOR CASE OR COOLER LIGHTS, FANS, ETC.. (FIELD VERIFY PANELS, CIRCUITS, ETC..)
B	CONDUIT FROM OVERHEAD TO JUNCTION BOX ON TOP OF CASE. COOLER OR FREEZER. ELECTRICIAN TO PROVIDE EXTRA CONDUIT AND 20 AMP CIRCUIT FOR CASE OR COOLER LIGHTS, FANS, ETC..(FIELD VERIFY PANELS, CIRCUITS, ETC..)
C	CONDUIT STUBBED UP AT DIMENSION SHOWN WITH 4 X 4 JUNCTION BOX 1" ABOVE FLOOR. RUN RIGID CONDUIT TO JUNCTION BOX ON CASE. OR FREEZER. ELECTRICIAN TO PROVIDE EXTRA CONDUIT AND 20 AMP CIRCUIT FOR CASE OR COOLER LIGHTS, FANS, ETC..(FIELD VERIFY PANELS, CIRCUITS, ETC..)
D	RUN 4X4 JUNCTION BOX 1" ABOVE FLOOR. RUN RIGID CONDUIT TO JUNCTION BOX ON CASE. ELECTRICIAN TO PROVIDE WIRING, CONDUIT, AND CIRCUITS FOR CASE OR COOLER LIGHTS, FANS, ETC.. (FIELD VERIFY PANEL, CIRCUITS, ETC.) AND REFRIGERATION CONTROL WIRING. ROUTE WIRING OVERHEAD OR UNDER FLOOR TO CASES IN ORDER TO MINIMIZE FLOOR REMOVAL AND REPLACEMENT AND TO KEEP DISRUPTIONS TO STORE OPERATIONS HELD TO A MINIMUM. COORDINATE ALL ELECTRICAL WITH G.C. AND REFRIGERATION WORK.
A1	REFRIGERATION 'SYSTEM' DESIGNATION. SEE 'R' DRAWINGS FOR FURTHER INFORMATION.

F: FANS
L: LIGHTS

D1: DEFROST CIRCUIT 1
D2: DEFROST CIRCUIT 2
D3: DEFROST CIRCUIT 3

REFRIGERATION PLAN NOTES

1. EXISTING REFRIGERATED CASE TO REMAIN.
2. EXISTING COOLER/FREEZER AND COIL(S) TO REMAIN.
3. CONNECT TO EXISTING AREA LIGHT FIXTURE CIRCUIT AND CONTROLS. MAINTAIN CONNECTION TO EXISTING NORMAL LIGHTING AND EMERGENCY LIGHTING CIRCUIT(S) FOR PROPER OPERATION. EXISTING RACEWAY, CIRCUITRY AND RELATED APPURTENANCES MAY BE REUSED IF IN GOOD CONDITION AND NEW DESIGN CRITERIA CAN BE MET, OTHERWISE REPLACE.
4. REVISE AND EXTEND CIRCUITRY FOR RELOCATED/REPLACED EQUIPMENT. COORDINATE EXACT CONDUIT ROUTING WITH TENANT AND OTHER TRADES. EXISTING DEVICES AND RELATED CIRCUITRY MAY BE REUSED IF IN GOOD CONDITION, OTHERWISE REPLACE.
5. EXISTING CIRCUIT INFORMATION WAS NOT ABLE TO BE DETERMINED FROM ARCHIVED DRAWINGS AND FIELD SURVEYS. CONTRACTOR TO VERIFY INFORMATION ON SITE.

HENDERSON ENGINEERS
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WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

PROFESSIONAL SEAL
STATE OF MISSOURI
DEAN WAY CHANDLER
NUMBER PE-2017036652
PROFESSIONAL ENGINEER

Oct 23 2020
DEAN W. CHANDLER
LICENSE # PE-2017036652

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH PLAN NORTH

REFRIGERATION ELECTRICAL POWER PLAN - PART B

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
E5.0B

DEAN W. CHANDLER
10/23/2020 9:22:29 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
NOT FOR PERMIT, BIDDING
12/29/2020

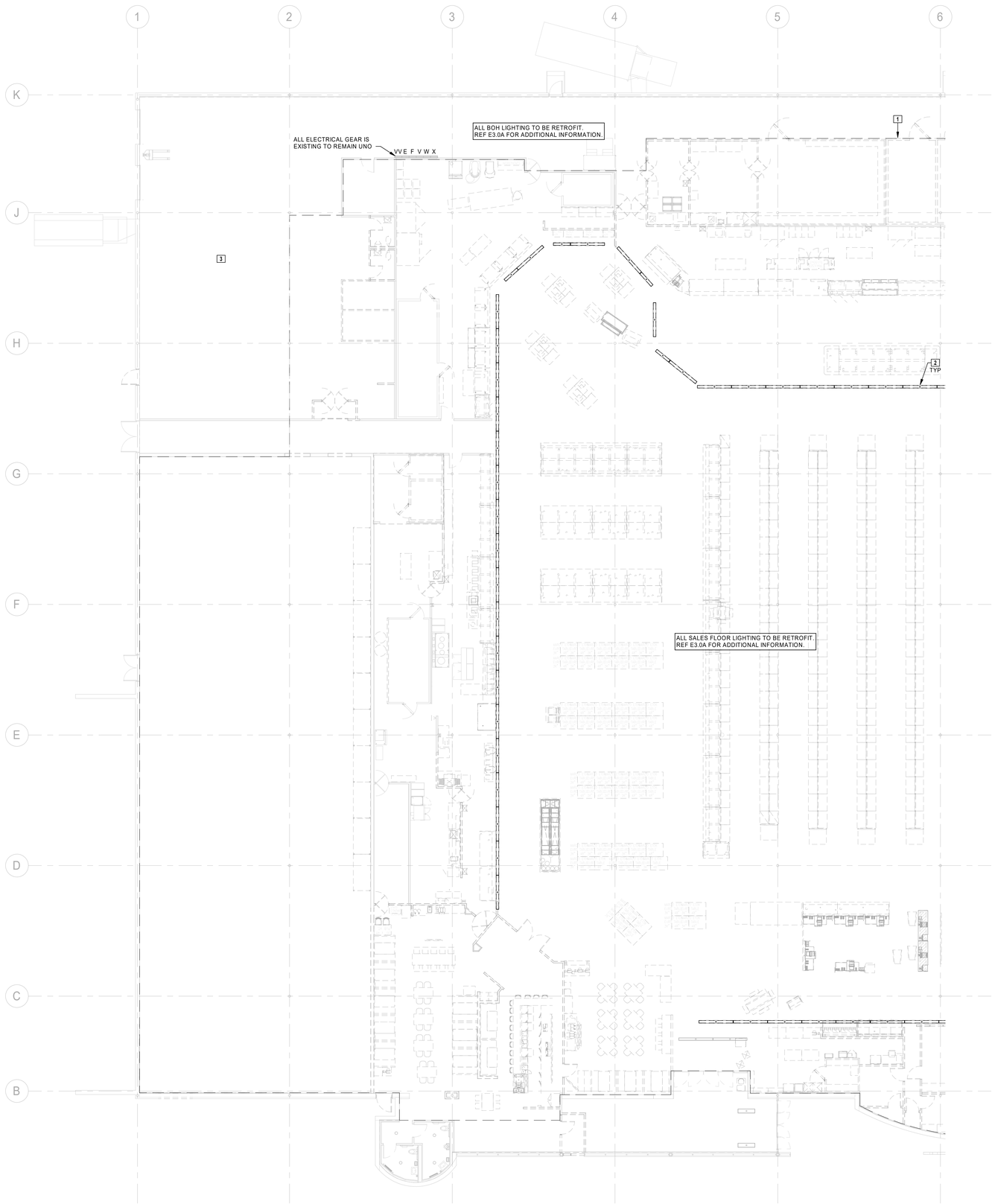
REVISION BY

ELECTRICAL DEMO PLAN NOTES

1 MAIN REMODEL AREA. ALL EQUIPMENT TO BE REMOVED OR DEMOLISHED IN THIS AREA AS INDICATED. COORDINATE REMODEL WITH CONSTRUCTION PHASE AND NEW LIGHTING/POWER PLANS FOR WORK.

2 REMOVE ALL EXISTING SALES FLOOR PERIMETER LIGHTING. PROTECT AND STORE LIGHT FIXTURES FOR REUSE DURING REMODEL.

3 EXISTING ROOM/SPACE TO REMAIN. COORDINATE REMODEL WORK WITH CONSTRUCTION PHASE AND OVERALL PLAN FOR REMODEL OF STORE.



1 ELECTRICAL DEMOLITION PLAN PART A
3/32" = 1'-0"

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PROFESSIONAL SEAL

STATE OF MISSOURI
DEAN WAY CHANDLER
NUMBER PE-2017036652
PROFESSIONAL ENGINEER

DEAN W. CHANDLER Oct 23 2020
LICENSE # PE-2017036652

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

Hy-Vee® EMPLOYEE OWNED

NORTH PLAN NORTH

ELECTRICAL DEMOLITION PLAN - PART A

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
ED1.0A

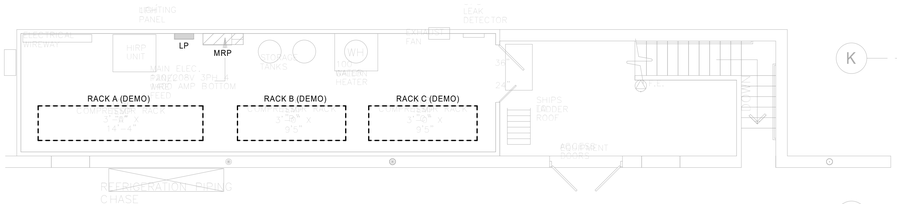
DEAN W. CHANDLER
10/23/2020 9:23:00 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICE
LEE'S SUMMIT, MISSOURI
12/29/2020

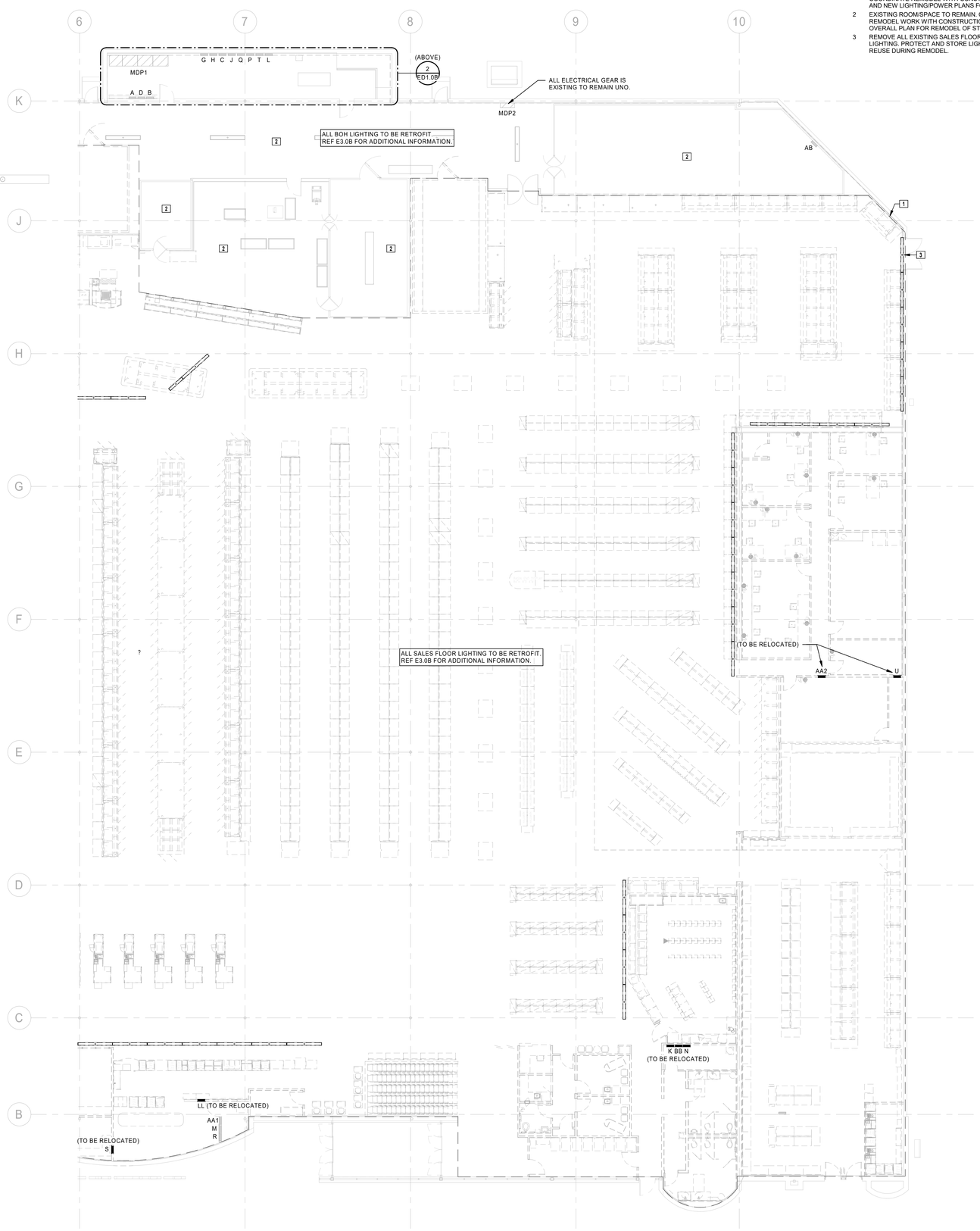
REVISION | DATE | BY

ELECTRICAL DEMO PLAN NOTES

1. MAIN REMODEL AREA. ALL EQUIPMENT TO BE REMOVED OR DEMOLISHED IN THIS AREA AS INDICATED. COORDINATE REMODEL WITH CONSTRUCTION PHASE AND NEW LIGHTING/POWER PLANS FOR WORK.
2. EXISTING ROOM/SPACE TO REMAIN. COORDINATE REMODEL WORK WITH CONSTRUCTION PHASE AND OVERALL PLAN FOR REMODEL OF STORE.
3. REMOVE ALL EXISTING SALES FLOOR PERIMETER LIGHTING. PROTECT AND STORE LIGHT FIXTURES FOR REUSE DURING REMODEL.



2 DEMOLITION ELECTRICAL PLAN - REFRIGERATION MEZZANINE
3/16" = 1'-0"



1 ELECTRICAL DEMOLITION PLAN PART B
3/32" = 1'-0"

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
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1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

PROFESSIONAL SEAL

Oct 23 2020
DEAN W. CHANDLER
LICENSE # PE-2017036652

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

EMPLOYEE OWNED

NORTH | PLAN NORTH

ELECTRICAL DEMOLITION PLAN - PART B

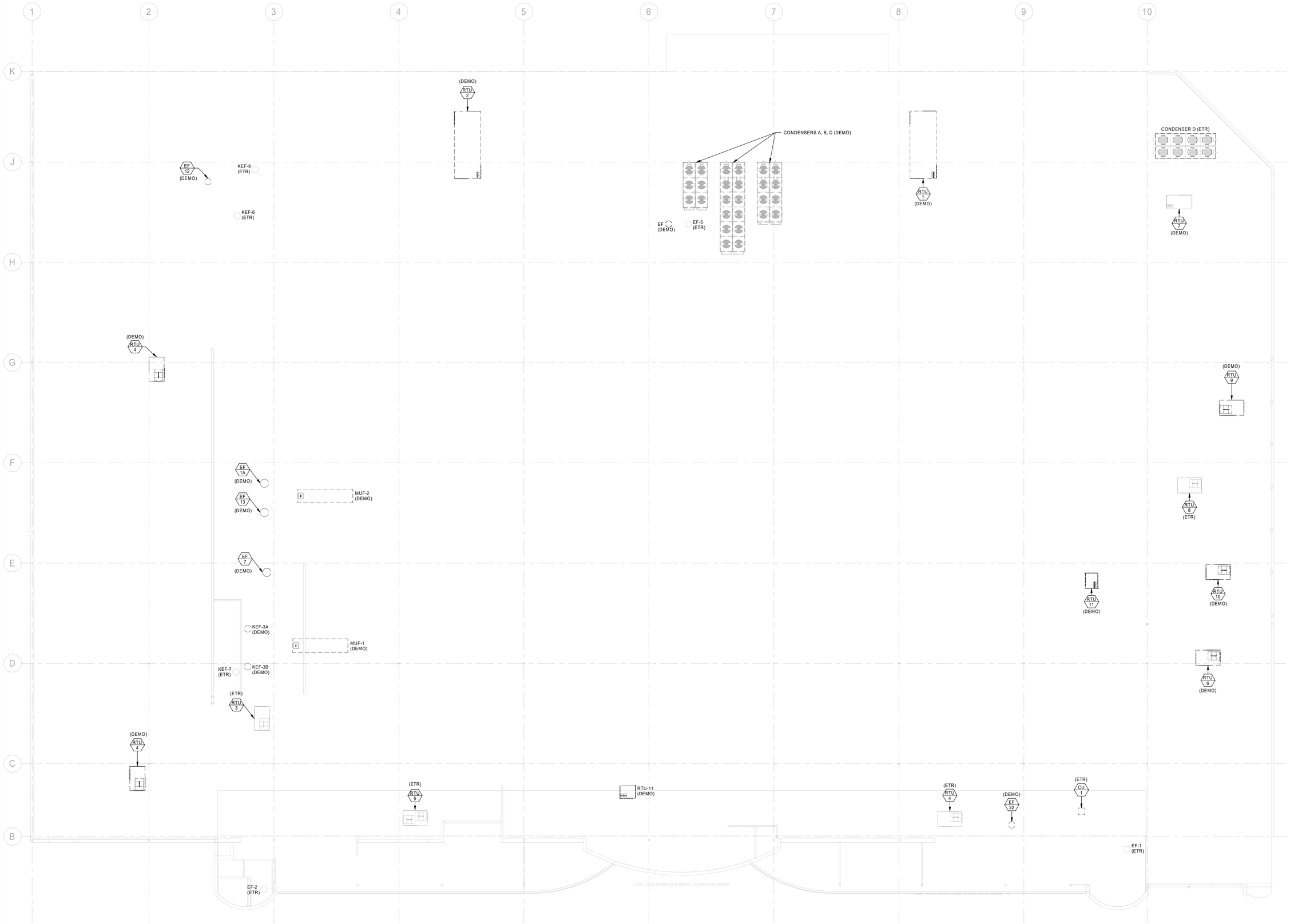
PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY: HENDERSON	DATE: 10/19/2020
SCALE: AS NOTED	JOB NUMBER: 62930547

SHEET:
ED1.0B

DEAN W. CHANDLER
10/23/2020 9:23:08 AM

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICE
LEE'S SUMMIT, MISSOURI
12/29/2020

REVISION



1 ELECTRICAL DEMOLITION ROOF PLAN
3/32" = 1'-0"

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
TEL 913.742.5000 FAX 913.742.5001
WWW.HENDERSONENGINEERS.COM
1950003081
MO. CORPORATE NO: E-556D
EXPIRES 12/31/2020

PROFESSIONAL SEAL

STATE OF MISSOURI
DEAN WAY CHANDLER
NUMBER PE-2017036652
PROFESSIONAL ENGINEER

DEAN W. CHANDLER
LICENSE # PE-2017036652
Oct 23 2020

LOCATION
LEE'S SUMMIT, MO #2
310 SW WARD RD

HY-VEE, INC.
5820 WESTOWN PARKWAY
WEST DES MOINES, IOWA 50266
TELEPHONE: (515) 267-2800
FAX: (515) 267-2935

HyVee® EMPLOYEE OWNED

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ELECTRICAL DEMOLITION ROOF PLAN

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
ED2.0

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12/29/2020

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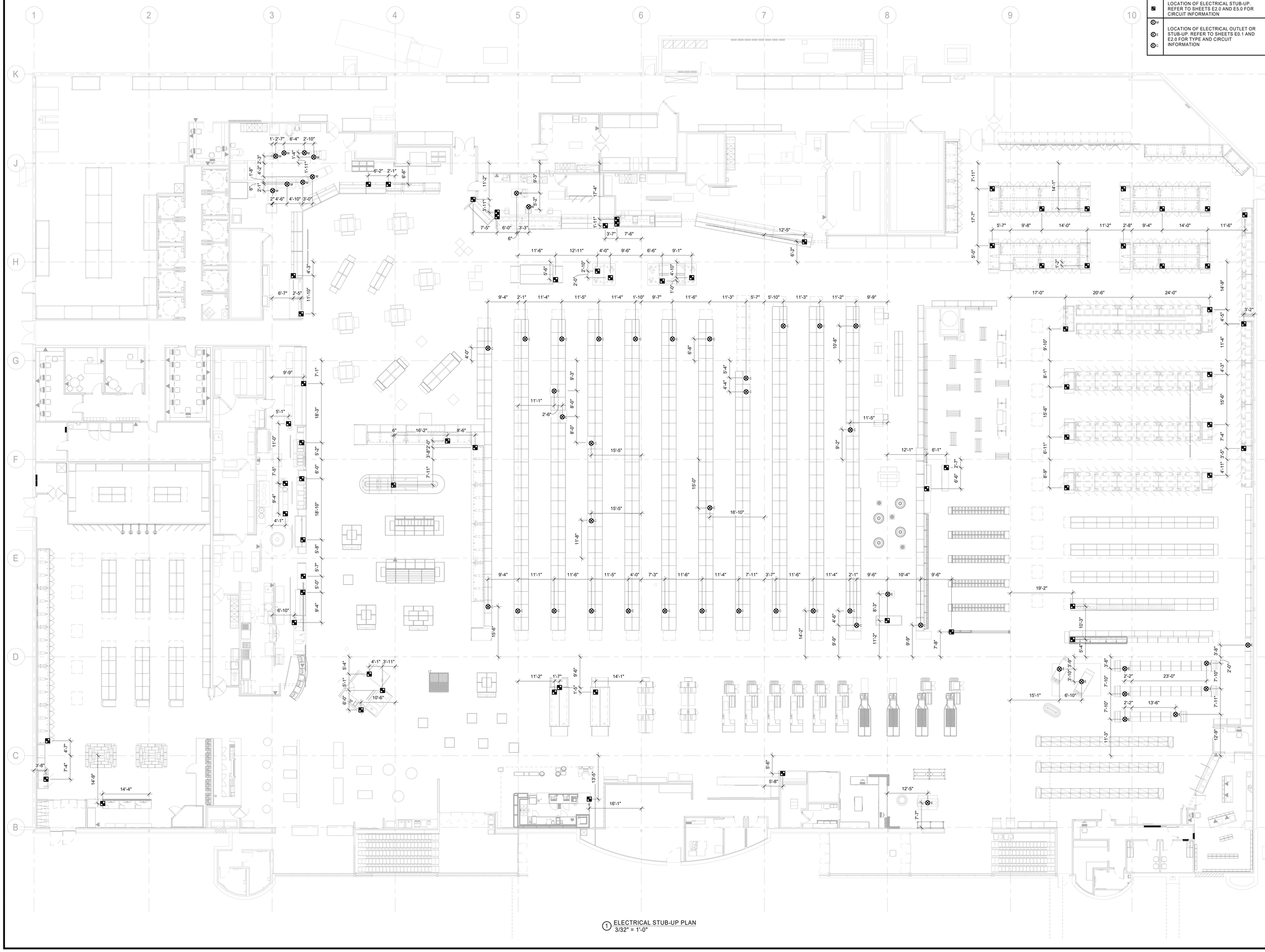
THE STUB-UP LOCATIONS ON THIS PLAN ARE FOR REFERENCE ONLY. COORDINATE FINAL STUB-UP LOCATIONS WITH EQUIPMENT CUT SHEETS, FINAL FIXTURE LOCATIONS, AND OTHER TRADES PRIOR TO INSTALLATION.

ELECTRICAL STUB-UP LEGEND	
■	LOCATION OF ELECTRICAL STUB-UP. REFER TO SHEETS E2.0 AND E5.0 FOR CIRCUIT INFORMATION
⊗M ⊗E ⊗C	LOCATION OF ELECTRICAL OUTLET OR STUB-UP. REFER TO SHEETS E0.1 AND E2.0 FOR TYPE AND CIRCUIT INFORMATION



1 ELECTRICAL STUB-UP PLAN
3/32" = 1'-0"

HENDERSON ENGINEERS
8345 LENEXA DRIVE, SUITE 300
LENEXA, KS 66214
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MO. CORPORATE NO: E-556D
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STATE OF MISSOURI
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TELEPHONE: (515) 267-2800
FAX: (515) 267-2933

Hy-Vee® EMPLOYEE OWNED

NORTH PLAN NORTH

ELECTRICAL STUB-UP PLAN

PROJECT MANAGER	CHECKED BY:
SL	HEI
DRAWN BY:	DATE:
HENDERSON	10/19/2020
SCALE:	JOB NUMBER:
AS NOTED	62930547

SHEET:
PE1.1

DEAN W. CHANDLER
10/23/2020 9:23:43 AM