### ELECTRICAL LEGEND



JUNCTION BOX, ABOVE CEILING

JUNCTION BOX, WALL-MOUNTED.

UTILITY SERVICE METER

DOOR BELL PUSH BUTTON.

PANELBOARD, SURFACE-MOUNTED MOUNT AT 6'-O" TO TOP.

CEILING FAN I PHASE, 120 VOLT, SINGLE POLE, 60HZ.

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DC

### GENERAL

- A. ALL ELECTRICAL MORK SHALL CONFORM TO NEC 2017 AND VIRGINIA RULES AND REGULATION.
  B. ALL EQUIPMENT SHALL BE NEM AND ULL APPROVED.
  ELECTRICAL DRAWINGS ARE DIAGRAPMATIC. SIZE AND LOCATION OF EQUIPMENT AND WIRING ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS. FINAL LOCATIONS OF OUTLIETS AND EQUIPMENT SHALL BE SHOWN IN ENLARGED DETAILS OR AS APPROVED BY THE ARCHITECT OR HIS
- REPRESENTATIVE.

  J. IT IS NOT WITHIN THE SCOPE OF DRAWINGS TO SHOW ALL THE NECESSARY BENDS, OFFSETS, PULLBOXES AND OBSTRUCTIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK TO CONFORM TO THE STRUCTURE, MAINTAIN HEAD-ROOM AND KEEP OPENINGS AND PASSASEMAYS CLEAR, REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.

  THE CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND SHALL COMPARE THE DRAWINGS WITH EXISTING ELECTRICAL INSTALLATIONS, AND SHALL THORQUISHLY FAMILIARIZE HIMSELF HITH ALL EXISTING CONDITIONS WITH THE SOCIED FOR HIS MORK, BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL WAYD DESEMBLE TO HAVE MADE SUCH EXAMINATION AND TO HAVE ACCEPTED SUCH CONDITIONS AND TO HAVE MADE ALLOWANCE
- THEREFORE

  THEREFORE
- HING CEILINGS AND THE LIKE, AND CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT DIFFERENCE TO OMNER.

  H. IRRINGH AND INSTALL MIRING FOR EQUIPMENT FURNISHED BY OTHERS, AS SHOWN ON DRAWNINGS, COORDINATE WITH OTHER TRADES OR DETAILS FOR INSTALLATION. THE TERM "MIRING", AS USED HERRIN, INCLUDES FURNISHING AND INSTALLING CONDUIT, WIRE JINCTION BOXES, DISCONNECTS AND MAKING CONNECTIONS. BE RESPONSIBLE FOR PROPER MIRING AND INCLESSARY ELECTRICAL ADJUSTMENTS TO EQUIPMENT TO CONFIDENT TO SECURIFIED.

  SECURE AND PAYALLE PROPERTY AND THESE NECESSARY FOR EXECUTION AND COMPLETION OF ILECTRICAL MORK. A RECURRENCY OF THE PROPERTY INSTALLATION OF THE ELECTRICAL MORK, ALL PAYATING CANGENING MORK WITH AND PAYATHING OF THE PROPERTY INSTALLATION OF THE ELECTRICAL MORK, ALL PAYATING SHALL SWORK MAKENIP, AND FINISH AND SHALL ACCURATELY MAKEN ALL SWORK MORKHIP, AND FINISH AND SHALL ACCURATELY MORK ALL SWORK MORKHIP, AND FINISH AND SHALL ACCURATELY MORK ALL SWORK MORKENIP, AND FINISH AND SHALL ACCURATELY MORK ALL SWORK MORKENIP, AND FINISH AND SHALL ACCURATELY MORTOR ALL SWORK MORK AND REMOVE FROM THE SITE.

- R. AFTER COMPLETION OF WORK INDER THIS SECTION, CLEAN UP RESULTANT DEBRIS FROM THIS WORK AND RENC FROM THE STE.

  L. CODE REQUIREMENTS ARE MINIMUM AND SHALL BE COMPLIED WITH AT NO ADDITIONAL COST TO THE OWNER, WERE REQUIREMENTS OF THESE DRAVINGS EXCEED CODE REQUIREMENTS, WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE MITH THE DRAVINGS.

  M. DEVIATION FROM MATERIALS, METHODS AND PROCEDURES SET FORTH HEREIN MUST BE APPROVED IN WRITING, APPROVAL MILL NOT BE GIVEN WILESS THE PROPOSED SYSTEM IS EQUAL IN PERFORMANCE, DURABILITY LONGSVITTY, AND RELIABILITY TO THAT SPECIFIED.

### LIGHTING FIXTURES

- A. INSTALL LIGHTING FIXTURES AS SHOWN ON THE ELECTRICAL DRAWINGS. VERIFY EXACT LOCATIONS OF FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLANS. COORDINATE FIXTURE HOUSINGS AND TRIMS WITH CEILING TYPE. PROVIDE REQUIRED ACCESSORIES FOR CEILING TYPES.

  B. ALL RECESSED LIGHTING FIXTURES SHALL BE LED.

- ALL BLES ARE DIMANELE LED.
  ALL BLES ARE DIMANELE LED.
  NAMBER OF BULBS DETERMINED BY FIXTURE CHOSEN BY CUSTOMER.
  ICHARIED RECESSED LIGHT FIXTURES SHALL BE SEALED AT HOUSING/INTERIOR FINISH AND LABELED TO
- F. 2.0 CFM LEAKAGE AT 15% PA. (2018 VA ENERGY CODE) 75% LAMPS IN PERMANENT FIXTURES OR 15% PERMANENT FIXTURES SHALL BE USE HIGH EFFIC LAMPS. (2018 VA ENERGY CODE)

### DISTRIBUTION EQUIPMENT

- A. ALL PANELBOARDS SHALL BE ENCLOSED TYPE, FLUSH OR SURFACE MOUNTED AS REQUIRED, IN STEEL CABINETS CODE GAVES, WITH STEEL TRIM CONCEALED HINSES, DOORS AND FLUSH TYPE LOCKS, MANUFACTURER SHALL BE SOURCE D, CHITLE HAMMER, ETTE, OR APPROPED EQUIVALENT HAMD DRAWN BY AND THE BASIS OF THE CONCENTRY. HARD DRAWN COPTER, SILVER OR TIMPLATED DINTS, AND SIZED ON THE BASIS OF 1000 AMPETED. THE ADDRAWN COPTER, SILVER OR TIMPLATED DINTS, AND SIZED ON THE BASIS OF 1000 AMPETED. THE ADDRAWN BY ADDRAWN BY AND SIZED SHALL BE BASIS OF PHASING, EXCEPTION. ALUMINUM BUSSING IS PRIMITITED FOR RESIDENTIAL LOAD CENTER PANELBOARDS.

  C. PANELBOARDS SHALL BE EQUIPPED WITH PLUS-ON MOLDED CASE CIRCUIT BREAKERS OF THE TYPE, NUMBER OF POLES, TIRP SIZES, AS SHOWN IN DRAWNINGS AND INTERRIPTING CAPACITY AS PER BUILDING REQUIREMENTS, EXCEPTION. RESIDENTIAL LINTS SHALL BE EQUIPPED WITH PLUS-IN TYPE MOLDED CASE CIRCUIT BREAKERS F THE TYPE, NUMBER OF POLES, THE SIZES, AS SHOWN IN DRAWINGS AND INTERRIPTING HARD APPROVED BUILDING REQUIREMENTS, OR DIP SIZES, AS SHOWN IN DRAWINGS AND INTERRIPTING CAPACITY AS PER BUILDING REQUIREMENTS, GROUP AND LACE ALL CONDUCTORS WITHIN PANEL BYCLOSURE DO NOT SPLICE CONDUCTORS WITHIN PANEL BYCLOSURE.

  D. SEAL EXISTING PANEL KNOCKOUTS NOT RE-USED.

  EDISCONNECT SHITCHES SHALL BE SQUARE-D CLASS SIIO TYPE FUSED OR NON-FUSED, OR APPROVED EQUIVALENT.

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

DUPLEX 6FI RECEPTAGLE SHALL BE 2 POLE, 3 WIRE, GROUNDED, 20 AMPERE, NEMA CONFIGURATION 5-20R, COLOR BY ARCHITECT

ARCHITECT.

SINGLE POLE SWITCHES AND 3-WAY SWITCHES SHALL BE SPECIFICATION GRADE. COLOR BY ARCHITECT. DEVICE SHALL BE
MOUNTED INDER COMMON COMERPLATE WHERE MULTIPLE DEVICES ARE INDICATED.

AC-DC SHOCKE AND CARBON MONOXIDE DETECTOR SHOULD BE INSTALLED ACCORDING TO NEPA 12.

AC-DG ANOXE AND CARBON MONOXIDE DETECTOR SHOULD BE INSTALLED ACCORDING TO NEPA 12.

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AC-DG ANOXE AND CARBON MONOXIDE DETECTOR ACCURP FOR THE SECONDARY SOURCE.

### CONDUCTORS

- A. ALL BRANCH CIRCUIT CONDUCTOR'S SHALL BE COPPER UNLESS OTHERWISE NOTED. ALL #6 AMG WIRE AND LARGER SHALL BE STRANDED.

  B. ALL #10 AMG MIRE AND SHALLER SHALL BE SOLID.

  C. VOLTAGE RATING OF INSULATION SHALL BE 600 VOLTS.

  D. FACTORY COLOR CODING FOR WIRE AND CABLE SHALL BE AS FOLLOMS. 120/208V BLACK, RED, BLUE AND WHITE, FOR PHASES A, B AND NEUTRAL RESPECTIVELY. GROUND WIRES SHALL BE GREEN.

  E. LEAVE MIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS.

  F. LIGHTING AND POWER WIRING FOR CIRCUITS LESS THAN 100 FEET SHALL BE #12 AMG, UNLESS NOTED. WIRE SIZES SHALL BE #10 FEOR CIRCUITS LESS THAN 100 FEET SHALL BE #12 AMG, UNLESS NOTED. WIRE SIZES SHALL BE #10 FEOR CIRCUITS AND CONNECTIONS.

### NONMETALLIC CABLE (NM):

A. TYPE NM CABLE SHALL BE PERMITTED PER NFPA-70 ARTICLE 334.IO. ALL OTHER LOCATIONS SHALL USE TYPE MC AS A SUBSTITUTE FOR CONDUIT.

### OUTLET JUNCTION AND PULL BOXES

- A. ALL OUTLET BOXES SHALL BE PLASTIC RATED FOR RESIDENTIAL USE.

  B. OUTLET BOXES FOR RECEPTACLES AND SMITCHES IN DRY WALL PARTITION SHALL BE 4" SQUARE, BY 1-1/2" MINIMUM DEPTH AND SHALL BE FITTED MITH DEVICE COVERS AND DEPTH EGUAL TO THE DRY WALL THICKNESS.

  C. SECTIONAL BOXES ARE NOT ACCEPTABLE.

  D. SET BOXES SQUARE AND TRUE MITH BUILDING FINISH. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND

- FIREPROOFING.

  E. LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS INSTALL SWITCH, IN SIDE OPPOSITE HINGE, VERIFY FINAL DOOR HINGE LOCATION IN FIELD PRIOR TO SWITCH CUTLET INSTALLATION.

  F. LOCATION INDICATED FOR LOCAL WALL SWITCHES, CONTROLLERS, EMERGENCY PUSH BUTTONS, RECEPTACLE, ETC. ARE SUBJECT TO
- MODIFICATIONS.

  6. HEIGHTS OF OUTLET FROM FINISHED FLOOR TO CENTERLINE OF OUTLETS, AS PER ELECTRICAL DRAWINGS. EXCEPTIONS. AT JINCTION OF DIFFERENT WALL MATERIALS, MOLDING OR BREAK IN WALL SURFACE IN VIOLATION OF CODE REQUIREMENTS.

### GROUNDING

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

### <u>SLEEVES</u>

- A. ALL PENETRATIONS THROUGH FIRE RATED MALLS, FLOORS OR PARTITIONS SHALL BE SEALED TO PREVENT THE SPREAD OF SMOKE AND FIRE THROUGH THEM. THE FIRE RATING OF THE PENETRATION SEAL SHALL BE AT LEAST THAT OF THE FLOOR OR WALL INTO WHICH IT IS INSTALLED BY ARTICLE 19300-21 OF THE NATIONAL ELECTRICAL CODE.

  THE FOAM SEALANT SHALL MEET ALL OF THE FIRE TEST AND HOUSE STREAM TEST REQUIREMENTS OF ASTM E-114-T3 AND SHALL BE UL. CLASSIFIED AS A WALL OPENING PROTECTIVE DEVICE, AS MANUFACTURED BY CHASE TECHNOLOGY CORPORATION, OR APPROVED EQUIVALENT.

### HVAC CONTROLS

- A. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL CONTROL WIRING INCLUDING CONDUITS, RELAYS, TIME CLOCK, CONTROL TRANSFORMERS, ETC., FORALL MYAC SUMMENT, UNLESS OTHERWISE NOTED.

  B. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ONLY POWER WIRING WITH DISCONNECTS, AS SHOWN IN ELECTRICAL

### TEST AND GUARANTEES

- A. UPON COMPLETION OF ALL ELECTRICAL WORK, CONTRACTOR SHALL TEST FOR GROUNDS AND SHORTS, TO ENSURE PROPER OPERATION OF ELECTRICAL EQUIPMENT.

  B. GUARANTEE FOR TWO YEARS AFTER FINAL ACCEPTANCE BY OWNER OF ALL WORKMANSHIP AND MATERIALS FURNISHED.

  C. SMOKE DETECTOR TEST SHOULD BE DONE IN ACCORDANCE WITH NEPA-T2.

- ELECTRICAL ABBREVIATIONS
  - AIC AMPERES INTERUPTING CURRENT AFF/ARF ABOVE FINISHED FLOOR/
  - ABOVE RAISED FLOOR
  - ARCHITECT/ARCHITECTURAL ΑT AMPERE TRIP
  - ΑF AMPERE FRAME

  - C CONDUIT CB CIRCUIT BREAKER
  - CIRCUIT
  - EC EMPTY CONDUIT EMT ELECTRICAL METALLIC TUBING
  - EX EXISTING

  - FINISHED FLOOR FFL
  - FLOOR

  - GF GROUND FAULT CIRCUIT INTERUPTER

  - HID HIGH INTENSITY DISCHARGE
  - J. JB. JUNCTION BOX
  - KCMII THOUSAND CIRCULAR MILLS
  - MC METAL-CLAD CABLE
  - MCB MAIN CIRCUIT BREAKER
  - MH METAL HALIDE

  - NF NONFUSIBLE
  - PH PHASE
  - PVC POLYVINYL CHLORIDE CONDUIT
  - RECP RECEPTACLE
  - RGS RIGID GALVANIZED STEEL
  - SYM SYMMETRICAL
  - TELEPHONE
  - V VOLT
  - VA VOLT-AMPERE

  - WEATHERPROOF
  - TRANSFORMER
  - CEILING GROUND FAULT CIRCUIT
  - A IS THE NAME OF ELECTRICAL PANEL BOARD AND X IS THE NUMBER OF CIRCUIT.

	SYMBOL	FIXTURE DESCRIPTION	MOUNTING	VOLTS	INPUT MATTS	MANUFACTURER	PART #	ITEM #	REMARK
		5.5" LED DOWNLIGHT, WHITE PAINTED FLANGE, O-IOV DIMMING, 65 DEG BEAM SPREAD	RECESS CEILING	120	12.5	PROGRESS LIGHTING FIXTURES	-	OR EQUIVALENT APPROVED BY OWNER	
1	a <sup>k</sup>	KEYLESS CEILING MOUNTED EXPOSED LED BULB	SURFACE CEILING	120		SPECIFIED BY OWNER FIXTURE ALLOWANCE	-		OR EGUIVALENT APPROVED BY OWNER
I	ф	EXTERIOR WALL MOUNT LED BULB	SURFACE WALL	120	17	PROGRESS LIGHTING FIXTURES	LO439623	P5674-3I	OR EGUIVALENT APPROVED BY OWNER
	<b></b>	CLOSE TO CEILING, BOWL GLASS, LED LAMPS	SURFACE WALL	120	30	PROGRESS LIGHTING FIXTURES	LO478974	P300160- 009	OR EGUIVALENT APPROVED BY OWNER
	Ø	PENDANT FIXTURE, LED LAMPS	SURFACE CEILING	120	100	PROGRESS LIGHTING FIXTURES	L478483	P500125-0 09	OR EGUIVALENT APPROVED BY OWNER
	<b>]</b>	LIGHT FIXTURE - UNDER CABINET LED LIGHT	SURFACE CEILING	120	7	PROGRESS LIGHTING FIXTURES	L0369834	P100000- 028-30	OR EGUIVALENT APPROVED BY OWNER
	2. SPECIF 3. RECES PERIMETE	LBS DIMMABLE LED, LIMINARIES SHALL BE SUPPORT FIED LIGHT FIXTURES SHALL BE USED AS A BASIG ISSED FIXTURES INSTALLED WITHIN FIRE RATED CEILIN RESEARCH FIXTURES INSTALLED WITHIN FIRE RATED CEILIN BE OF HOUSING COORDINATE WITH ARCHITECTURAL F BE OF LED LIMINARIES SHALL BE COUPPED WITH ENERGY							

EL	ELECTRICAL DRAWING LIST							
DRAWING	TITLE							
E000	ELECTRICAL GENERAL NOTES, SYMBOLS, & ABBREVIATIONS							
El00	ELECTRICAL BASEMENT FLOOR PLAN							
EIOI	ELECTRICAL FIRST FLOOR PLAN							
ElO2	ELECTRICAL SECOND FLOOR PLAN							
E500	ELECTRICAL GROUNDING DETAILS							
E600	ELECTRICAL PANEL SCHEDULE							

THIS DRAWING IS PROTECTED BY COPYRIGHT, AND MUST NOT BE COPIED OR						
REPRODUCED WITHOUT THE WRITTEN CONSENT ATCO GROUP LID. NO DIMENSIONS, ARE TO BE SCALED FROM THIS DRAWING, ALL DIMENSIONS AND SIZES TO BE CHECKED ON SITE. NORTH POINTS SHOWN ARE INDICATIVE.						
SITE SPECIFIC HAZARDS						
IN ACCORDANCE WITH THE REQUIREMENTS OF THE CDM REGULATIONS 2007 THE FOLLOWING SIGNIFICANT RESIDUAL HAZARDS HAVE NOT BEEN DESIGNED OUT OF THIS PROJECT AND MUST BE TAKEN INTO CONSIDERATION BY CONTRACTORS PLANNING TO UNDERTAKE THE WORKS SHOWN ON THIS DRAWING:						

Description Ву







# BASEMENT

# GF Option 1





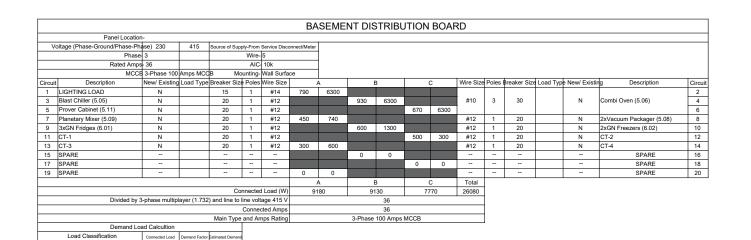
SPECIFIC HAZARDS

IN ACCORDANCE WITH THE REQUIREMENTS OF THE CDM REGULATIONS 200 THE FOLLOWING SIGNIFICANT RESIDUAL HAZARDS HAVE NOT BEEN DESIGNED OUT OF THIS PROJECT AND MUST BE TAKEN INTO CONSIDERATION BE CONTRACTORS PLANNING TO UNDERTAKE THE WORKS SHOWN ON THIS DRAWMS!

Rev Description Date By

Note:

Project: Kitchen & Bar			Drawing No. E-3					
Client: Daka Daka			Drawing's Name:  Electrical Conduit Plan	tern	18			
Date:	Paper Size:	Scale on A3:	Author:	Checker:				
01/01/2025	A3	1:100	MP	AT				



6050 65% 3932.5 930 100% 930

Description

Demand Load 8700
Demand Amps

						GRO	UND F	LOOR	DISTE	RIBUTI	ION B	OARD					
Panel Loca	ion-																
Voltage (Phase-Ground/Phase-Phase) 230 415 Source of Supply-From Service Disc					onnect/Meter												
Pha	se-3			Wire	- 5		i										
Rated An	ips- 72			AIC	10k		i										
MC	CB 3-Phase 100	Amps MC0	В Мо	ounting-	Wall Surfa	ce	İ										
Circuit Description	New/ Existing	Load Type	Breaker Siz	e Poles	Wire Size		A A		В		С	Wire Size	Poles	Breaker Size	Load Typ	e New/ Exist	ing
1 LIGHTING LOAD	N		15	1	#14	670	3935										T
3 WATER HEATER	N		20	1	#12			2000	3935			#12	3	20		N	Ele
5 Refrigerated Counter (1.20)	N		20	1	#12					1440	3935	1					
7 Refrigerated Counter (1.20)	N		20	1	#12	1440	6500					#8	1	35		N	Pas
9 Refrigerated Counter (1.20)	N		20	1	#12			1440	2200			#12	1	20		N	Co
11 Bottle Cooler (3.02)	N		20	1	#12					1000	870	#12	1	20		N	Ice
13 Coffee Machine (3.14)	N		25	1	#10	4700	3120					#12	1	20		N	Wii
15 Under Counter Dishwasher (	3.06) N		35	1	#08			6500	6500			#08	1	35		N	Und
17 4xBack Bar Cabinets (4.06)	N		20	1	#12			-		800	500	#12	1	20		N	CT-
19 SPARE				-		0	0										
•							Ä		В		Ċ	Total		•			
			Co	onnecte	d Load (W)	20365 22575 8545			51485	Ī							
Divided b	/ 3-phase multip	layer (1.732	) and line to	line volt	tage 415 V				72				1				
				Conne	cted Amps				72				1				
			Main Type	and A	mps Rating			3-Phase	100 Amps	MCCB			1				
Demand	Load Calcultion							_					•				
Load Classification	Connected Load	Demand Factor	Estimated Deman						•								
ighting - Dwelling Unit	670	125%	837.5	1													
Water Heater - Dwelling Unit	2000	100%	2000	1													
Receptacle	5875	65%	3818.75														
Cooling	0	100%	0					*									
Pump	0	125%	0														
Other	0	100%	0	_													
							1										
Demand L	oad 8545		6656.25														
Demand A	_	_	18														

Daka Daka

01/01/2025

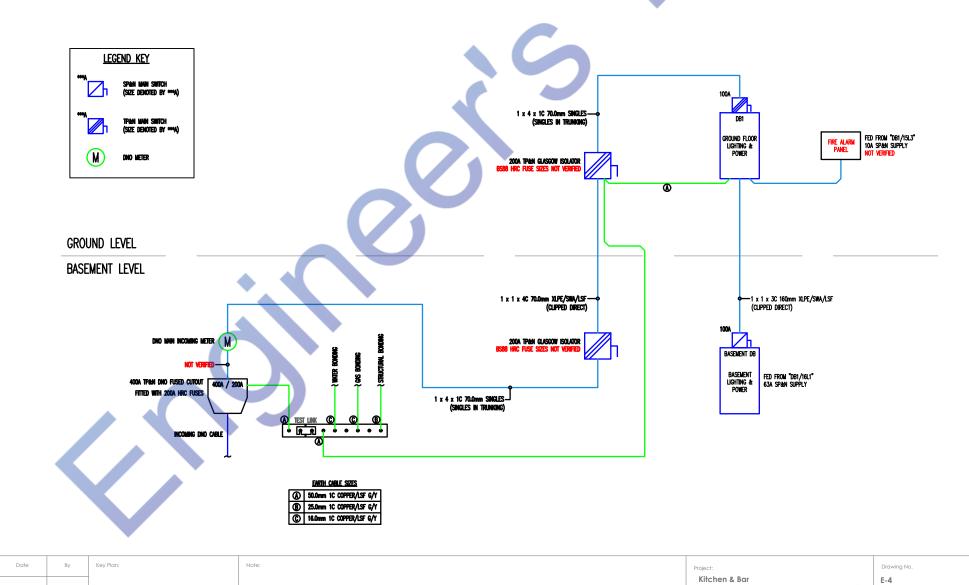
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MP

ΑT

N Wine Cooler (3.16)
N Under Counter Glass



## GENERAL NOTES:

I. A LISTED INTERSYSTEM BONDING TERMINATION PROVIDING THE REQUIRED NUMBER OF TERMINALS (MINIMUM OF THREE) FOR CONNECTING OTHER BUILDING SYSTEMS TO THE GROUNDING SYSTEM OF THE ELECTRICAL POWER SUPPLY (NEC250.44).

### KEY NOTES: (\*)

- ALL METAL CONDUITS ENCLOSING ANY SERVICE SHALL BE FITTED WITH A "BONDING BUSHING".
- ALL METAL CONDUITS ENCLOSING ANY GROUNDING ELECTRODE CONDUCTOR SHALL BE FITTED WITH A "BONDING BUSHING" AT EACH END.
- 3. PROVIDE GROUNDING ELECTRODE PER NEC. ELECTRODE SHALL BE IN THE FORM OF A 20'-0" x 1/2" COPPER CLAD GROUND ROD LAID AT LEAST 2" OFF THE BOTTOM OF A CONCRETE FOOTING.

  SECURE THE GROUND ROD TO THE REBAR WITH STEEL THE WRAPS. IF THE REBAR BEING USED IN THE FOOTING IS SMALLER THAN 1/2" (#4), THEN USE 20' OF BARE
- SOLID #4 COPPER WIRE IN PLACE OF THE GROUND ROD. IN REMODEL PROJECTS THAT WILL NOT HAVE NEW FOOTINGS INSTALLED, THIS SUPPLEMENTAL ELECTRODE SHALL BE PER NOTE #4 BELOW OR OTHER ELECTRODE PER NEC 250.52.
- FOR CONNECTION TO COLD WATER MAIN. CONNECT WITHIN 5 FT. OF CONTACT OF EARTH.
- 5. IF STRUCTURAL STEEL MEMBER OR REBARS ARE AVAILABLE, BOND IT TO THE SERVICE USING A UL LISTED IRREVERSIBLE CLAMP OR WELDING LUG.
- PROVIDE A INTERSYSTEM BONDING
   TERMINATION PER NEC 250,94.

INTERSYSTEM BONDING TERMINATION
SHALL:
6.I. BE ACCESSIBLE FOR CONNECTION
AND INSPECTION.
6.2 CANGIST OR A SET OF TERMINALS

6.2. CONSIST OF A SET OF TERMINALS
(LISTED AS GROUNDING AND BONDING
EQUIPMENT) WITH THE CAPACITY OF NOT
LESS THAN THREE INTERSYSTEM BONDING
CONDUCTORS.
6.3. BE SECURELY MOUNTED AND

ELECTRICALLY CONNECTED TO SERVICE EQUIPMENT, METER ENCLOSURE, OR EXPOSED NON METALLIC SERVICE RACEMAY, OR BE MOUNTED ON ONE OF THESE ENCLOSURES AND BE CONNECTED TO THE ENCLOSURE OR GROUNDING

ELECTRODE CONDUCTOR WITH A MINIMUM #6 CU CONDUCTOR.

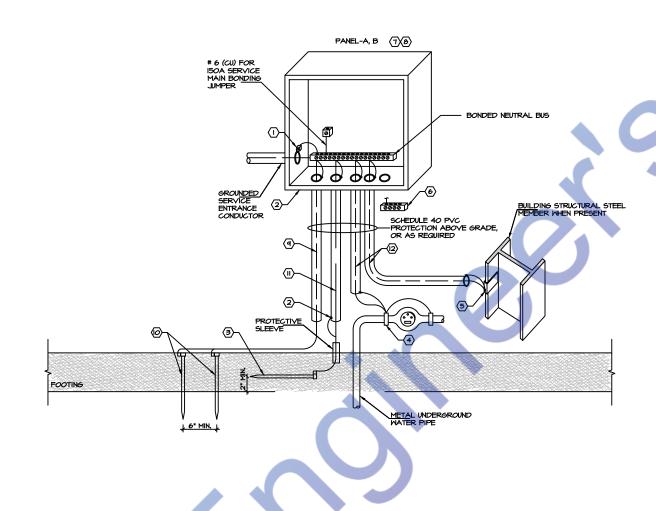
6.4. BE SECURELY MOUNTED TO THE BUILDING'S DISCONNECTING MEANS, OR BE MOUNTED AT THE DISCONNECTING MEANS AND BE CONNECTED TO THE METALLIC ENCLOSURE OR GROUNDING ELECTRODE CONDUCTOR WITH A MINIMUM 46 CU CONDUCTOR.

- ALL BRANCH CIRCUIT AND FEEDER
   CONDUITS ARE TO HAVE AN INSULATED
   EQUIPMENT GROUNDING CONDUCTOR
   RESARDLESS OF THE CONDUIT MATERIAL.
- 8. WHEN THE SERVICE CONSISTS OF MULTIPLE DISCONNECTING MEANS IN SEPARATE ENCLOSURES, CONNECT A TAP

CONDUCTOR FROM THE MAIN GROUNDING ELECTRODE CONDUCTOR TO EACH DISCONNECTING MEANS, SIZE THIS TAP BASED ON THE LARGEST SERVICE CONDUCTOR IN THAT SERVICE DISCONNECT ENCLOSURE.

- #6 COPPER GROUNDING ELECTRODE CONDUCTOR.
- IO. INSTALL #6 CU TO TWO 5/8"x 8" MIN. GROUND RODS AS SHOWN.
- II. #4 COPPER GROUNDING ELECTRODE
  CONDUCTOR.
- 12. COPPER GROUNDING ELECTRODE

  CONDUCTOR, PROVIDE #6 COPPER.



GROUNDING ELECTRODE SYSTEM DIAGRAM

SNUG CONTACT CONTACT PLATE DEVICE MARKED "CO/ALR" TYPICAL CONNECTION OF WIRES IN JUNCTION BOX TIGHTEN SCREW TO FULL CONTACT GROUNDED METAL MIRE MRAPPED TWO-THIRD AROUND WIRE WRAPPED THREE-GUARTER AROUND LISTED EQUIPMENTS BONDING JUMPER **OUTLET BACK BOX & JUNCTION BOX** STRIP INSULATION AND WRAP WIRE CONCENTRIC KNOCKOUTS ECCENTRIC EMT CONDUITS

2 BOUNDING DETAILS

GROUNDING INSULATION THE BUSHING

BONDING THE KNOCKOUTS