

33. A MINIMUM OF 15% OF PERMANENTLY INSTALLED LIGHTING FIXTURES SHALL BE HIGH-EFFICACY LAMPS (2012 IECC R404.1).

DISCONNECTING MEANS.

POWER SHALL BE PROVIDED FOR THE RISER ROOM.

A "MAIN ELECTRICAL DISCONNECT" PLACARD SHALL BE PLACED ON THE MAIN ELECTRICAL SERVICE EQUIPMENT AND EXTERIOR OF THE DOOR

TO ELECTRICAL ROOM AS PER 2011 NEC (230.70). EACH SERVICE DISCONNECTING MEANS SHALL BE PERMANENTLY MARKED WITH I INCH (25.3 MM)

HIGH X 1/4 INCH (6.35 MM) STROKE LETTERS AND OR NUMBERS INDICATING THE ADDRESS OR UNIT IT SERVES AND BE IDENTIFIED AS THE

EMERGENCY LIGHTING IN THE FIRE RISER ROOM PER IFC 2012 (916.6) LIGHTING. PERMANETLY INSTALLED ARTIFICIAL LIGHTING WITH BACK-UP

NO. DATE DESCRIPTION BY 1-30-19 BLDG DPT COMMENT



7010 Easy Wind Dr. Ste 200 Austin, TX 78752 512.899.3100

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HENDERSON, NEVADA
PECIFICATIONS, PLAN NOTES, ABBRS, SHEET INDEX,

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INSTALLATION SHALL COMPLY WITH ALL CURRENT APPLICABLE CODES AND GOVERNING AGENCIES HAVING

YOU ARE RESPONSIBLE FOR A COMPLETE INSTALLATION IN ACCORDANCE WITH ALL DOCUMENTS. CONTACT

THOROUGHLY READ AND REVIEW ALL NOTES, SPECIFICATIONS, SYMBOL LISTS, SCHEDULES, ETC.

YOUR PRIME CONTRACTOR FOR A COMPLETE SET OF DOCUMENTS.

JURISDICTION.

## GENERAL PLAN NOTES

- 1. ALL LIGHT FIXTURES TO BE SPECIFIED BY OWNER/DEVELOPER, FURNISHED AND INSTALLED BY CONTRACTOR.
- 2. REFER TO SHEET E-1 FOR ELECTRICAL FLOOR PLAN NOTES AND LEGEND
- 3. PROVIDE DISCONNECT SWITCH AND 240Y POWER FOR MECHANICAL FORCE AIR UNITS.
- 4. ALL ATTIC ACCESSES SHALL BE PROVIDED WITH A SWITCH, LIGHT AND 120V GFI OUTLET AT OR NEAR THE FORCED AIR UNIT. LOCATE SWITCH NEAR ATTIC ACCESS PANEL.
- 5. SWITCHES SHALL BE MOUNTED AT A MAXIMUM OF 48" ABOVE FINISHED FLOOR.

  GENERAL RECEPTACLES, TV AND TELE/COMPUTER OUTLETS SHALL BE MOUNTED

  AT A MINIMUM OF 18" ABOVE FINISHED FLOOR. INSTALL RECEPTACLE IN

  KITCHEN AND BATHROOMS 6" ABOVE COUNTER HORIZONTALLY UNLESS

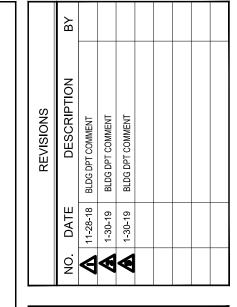
  NOTED OTHERWISE.
- 6. COORDINATE AND VERIFY EXACT MOUNTING HEIGHT AND LOCATIONS OF WALL MOUNTED LIGHT FIXTURES WITH OWNER PRIOR TO INSTALLATION.
- 1. ALL LIGHTING FIXTURE LUMINAIRE INSTALLED INSIDE THE SHOWER ROOM SHALL NOT EXCEED 40 WATTS.
- 8. PROVIDE MINIMUM 4" THICK WALL FOR MOUNTING ELECTRICAL SUBPANELS.
- 9. ALL BRANCH CIRCUITS THAT SUPPLY 125-VOLT, SINGLE PHASE, 15 AND 20 AMP OUTLETS INSTALLED IN DWELLING UNIT BEDROOMS, FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER LISTED TO PROVIDE PROTECTION OF ENTIRE BRANCH CIRCUIT. NEC ARTICLE 210.12 (A). SMOKE DETECTORS SHALL BE INCLUDED IN THE ARC-FAULT CIRCUIT INTERRUPTER PROTECTION OF DWELLING UNIT BEDROOM BRANCH CIRCUITS.
- 10. ALL ELECTRICAL PENETRATIONS THROUGH A FIRE RATED BARRIER (I.E., WALLS, CEILINGS AND/OR FLOORS)
  SHALL BE PROVIDED WITH A FIRE RATED ESCUTCHEON OR EQUAL. THE FIRE ESCUTCHEON AND ITS
  INSTALLATION SHALL BE FIRE RATED EQUAL OR BETTER THAN THE BARRIER.

## KEYED PLAN NOTES

- UHERE A BOX IS USED AS THE SOLE SUPPORT OF A LIGHT FIXTURE, THE BOX SHALL BE LISTED FOR THE APPLICATION AND FOR THE WEIGHT OF THE FIXTURE SUPPORTED. NEC ART. 314.27(A)(B). CONSULT OWNER FOR FIXTURE TYPE AND FINISH.
- 2 REFER TO SINGLE LINE DIAGRAM FOR DETAILS. MAIN ELECTRICAL SERVICE LOCATION TO COMPLY WITH LOCAL POWER UTILITY REQUIREMENTS.
- 3 PROVIDE 120Y SPECIAL RECEPTACLE FOR ELECTRICAL WATER HEATER. COORDINATE & VERIFY ALL ELECTRICAL REQUIREMENTS WITH MANUFACTURER.
- 4 SEE SITE ELECTRICAL PLAN FOR CIRCUITING.

## FIRE RISER ROOM KEYED NOTES

- (A) FIRE ALARM CONTROL WIRING AS REQUIRED TO TELEPHONE BOX/BACKBOARD, COORDINATE WITH FIRE ALARM CONTRACTOR FOR REQUIREMENTS.
- B PROVIDE CONNECTION OF FLOW SWITCH AND TAMPER SWITCHES TO FIRE MONITORING PANEL. VERIFY LOCATIONS, SWITCHES PROVIDED BY FIRE PROTECTION CONTRACTOR.
- © PROVIDE WP JUNCTION BOX FOR CONNECTION TO COMBINATION FIRE ALARM HORN/STROBE. VERIFY LOCATION, PROVIDE AS PER LOCAL FIRE DEPARTMENT REQUIREMENTS.
- FIRE MONITORING PANEL WITH BATTERY BACK-UP. PROVIDED BY FIRE PROTECTION CONTRACTOR. VERIFY LOCATION.





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  INSTALLATION SHALL BE FIRE RATED EQUAL OR BETTER THAN THE BARRIER.

## KEYED PLAN NOTES

- WHERE A BOX IS USED AS THE SOLE SUPPORT OF A LIGHT FIXTURE, THE BOX SHALL BE LISTED FOR THE APPLICATION AND FOR THE WEIGHT OF THE FIXTURE SUPPORTED. NEC ART. 314.27(A)(B). CONSULT OWNER FOR FIXTURE TYPE AND FINISH.
- 2 REFER TO SINGLE LINE DIAGRAM FOR DETAILS. MAIN ELECTRICAL SERVICE LOCATION TO COMPLY WITH LOCAL POWER UTILITY REQUIREMENTS.
- 3 PROVIDE 120V SPECIAL RECEPTACLE FOR ELECTRICAL WATER HEATER. COORDINATE & VERIFY ALL ELECTRICAL REQUIREMENTS WITH MANUFACTURER.
- 4 SEE SITE ELECTRICAL PLAN FOR CIRCUITING.

		REVISIONS	
Š.	NO. DATE	DESCRIPTION	ΒX
4	<b>A</b> 11-28-18	BLDG DPT COMMENT	
❷	4 1-30-19	BLDG DPT COMMENT	



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E103

SECOND FLOOR ELECTRICAL PLAN

SCALE: 1/4' = 1'-0'

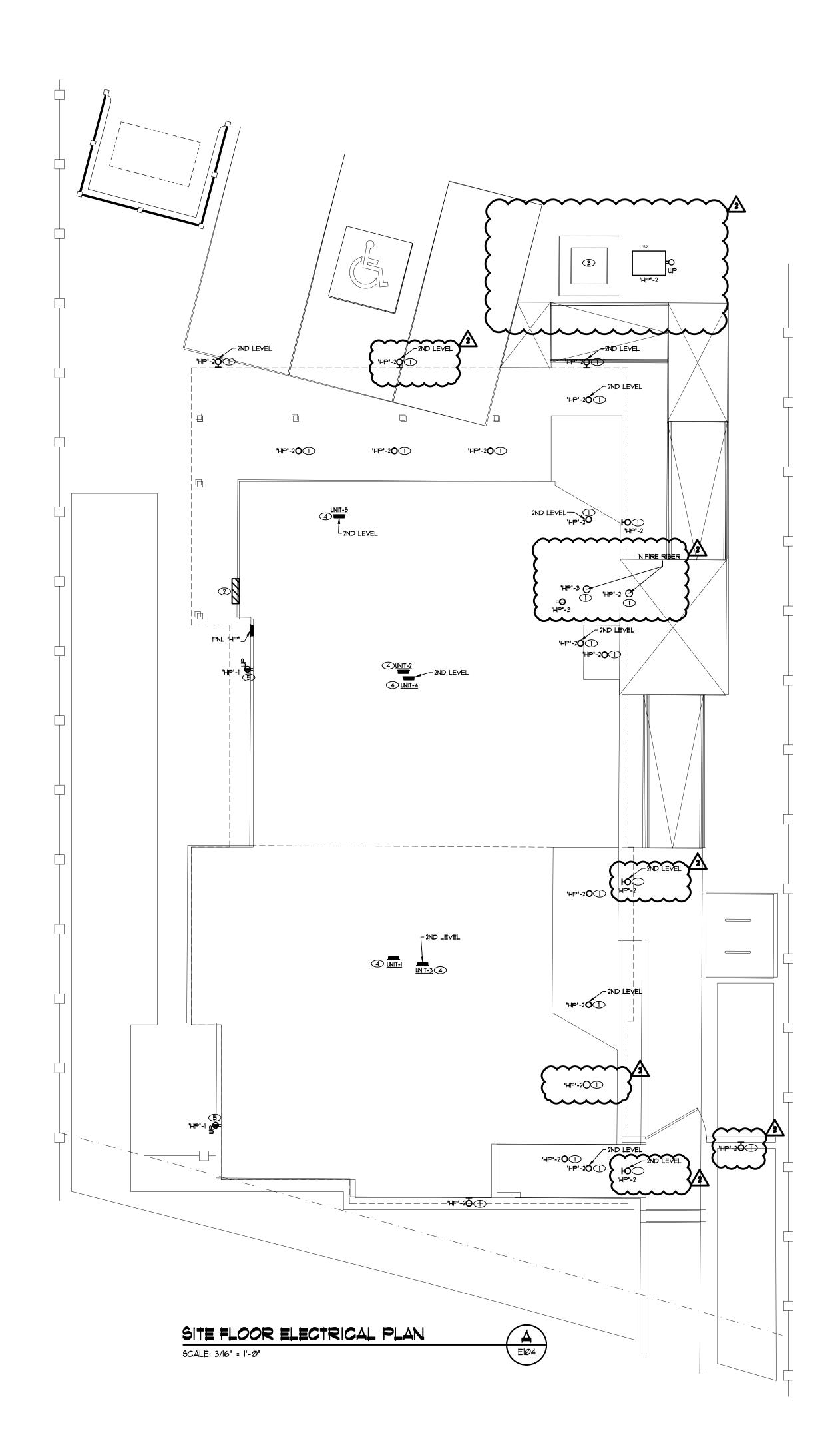


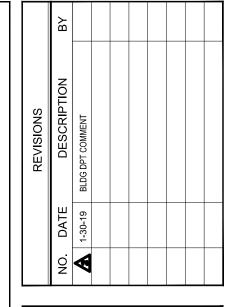
## GENERAL PLAN NOTES

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- 3. PROVIDE DISCONNECT SWITCH AND 240V POWER FOR MECHANICAL FORCE AIR UNITS.
- 4. COORDINATE AND VERIFY EXACT MOUNTING HEIGHT AND LOCATIONS OF WALL MOUNTED LIGHT FIXTURES WITH OWNER PRIOR TO INSTALLATION. CONNECT TO LIGHTING CONTROL PANEL
- 5. PROVIDE MINIMUM 4" THICK WALL FOR MOUNTING ELECTRICAL SUBPANELS.

## KEYED PLAN NOTES

- SEE ELECTRICAL FLOOR PLAN FOR TYPE OF FIXTURES AND REQUIREMENTS. VERIFY WITH ARCHITECT EXACT LOCATIONS.
- ② REFER TO SINGLE LINE DIAGRAM FOR DETAILS. MAIN ELECTRICAL SERVICE LOCATION TO COMPLY WITH LOCAL POWER UTILITY REQUIREMENTS.
- 3 NYENERGY TRANSFORMER, THIS SITE MAY BE FED THRU AN OVERHEAD SERVICE DROP. CONTRACTOR SHALL PROPERLY VERIFY AND COORDINATE WITH NYENERGY FOR CORRECT SERVICE AND PROVIDE ALL THE REQUIREMENTS PER THE UTILITY STANDARDS AS REQUIRED.
- 4 UNIT PANEL APPROXIMATE LOCATION. SEE ELECTRICAL FLOOR PLAN AND PANEL LOAD CALCULATIONS FOR MORE DETAILS.
- (5) MAINTENANCE RECEPTACLES, SEE FLOOR PLAN.







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## KEYED PLAN NOTES

- X-DENOTES NUMBER OF FEEDER, POINT WHERE AVAILABLE FAULT, & %VOLTAGE DROP: SEE SCHEDULE ON THIS SHEET. PROVIDE APPROPRIATE PANEL/EQUIPMENT SHORT CIRCUIT (KAIC) BRACING AS REQUIRED
- PROVDE NEW NVENERGY SERVICE PER NVENRGY REQUIREMENTS, COMPLETE INCLUDING TRENCHING, DIGGING, BACKFILL, AND OR RESTORING ORIGINAL SURFACE AS REQUIRED. AND OR ALL LABOR AND MATERIALS NOT PROVIDED BY NVENERGY FOR A COMPLETE OPERATIONAL SYSTEM.

THIS SITE MAY BE FED THRU AN OVERHEAD SERVICE DROP. CONTRACTOR SHALL PROPERLY VERIFY AND COORDINATE WITH NVENERGY FOR CORRECT SERVICE AND PROVIDE ALL THE REQUIREMENTS PER THE UTILITY STANDARDS AS REQUIRED.

- PROVIDE NEW MAINMETER SWITCHGEAR AS REQUIRED, SEE SINGLE LINE DIAGRAM FOR DETAILS.
- PROVIDE NEW BONDING AND GROUNDING AS REQUIRED BY NEC 250, SEE SINGLE LINE FOR DETAILS.
- PROVIDE NEW CIRCUIT BREAKER & METER SETS AS REQUIRED, SIZE AS INDICATED IN SINGLE LINE DIAGRAM.
- 5 PROVIDE PANEL, SEE PANEL LOAD SCHEDULE & CALCULATIONS FOR DETAILS.

**MAIN PANEL** 

150 COPPER STREET, HENDERSON, NV 89015

VA per Sq. ft.

1500

1500

23990

10795.5

20795.5

Subtotal (1)

Subtotal (2)

Subtotal (3)

Watts 230

115

115

115

115

120

8000

32352

Subtotal (4)

Subtotal (5)

Subtotal (6)

Subtotal (7)

331 Amperes

VA

10000

5000

4738

3830

# of Units

# of Units

19.1

20.6

0.75

0.25

# of Units

Grand Total VA = 79350 divided by 240V=

Ind Total of subtotals (2) + (3) + (4) + (5) + (6) + (7) =

Add House Panel "HP" VA =

Use Minimum Panel Size = 400 Amperes

General Load

CU-2

FAU-1

FAU-2

FAU-3

FAU-5

FAU-6

Exhaust Fan 1

Exhaust Fan 2

Space Heating (Gas)

Garbage Disposal

Water Heater (Gas)

Future Pool Equip

Jacuzzi Allowance

Miscellaneous Motor Loads

25% Large Motor including A/C comp.

ADD 4800VA at New House per Ordinance

Microwave

Dishwasher

General Lighting (SF at 3VA/SF)

20A Small appliance load circuits at 1500VA, 2 each min.

Electrical (Cooking) Appliances (Use NEC TabLE)

Range (from table 220-55 rating, Owner's Alternative) Gas

Clothes dryer 100%, table 220-54 (Owner's Alternative) Gas

Heating, A/C: Name and List each Equip components VA @ 100%

Fixed Appliances - use 100%. If four or more, a demand of 75% is allowed

Laundry (Washing Machine) 1500VA 1 min

First 10,000VA of general load at 100% Remainder of subtotal (1) at 45%

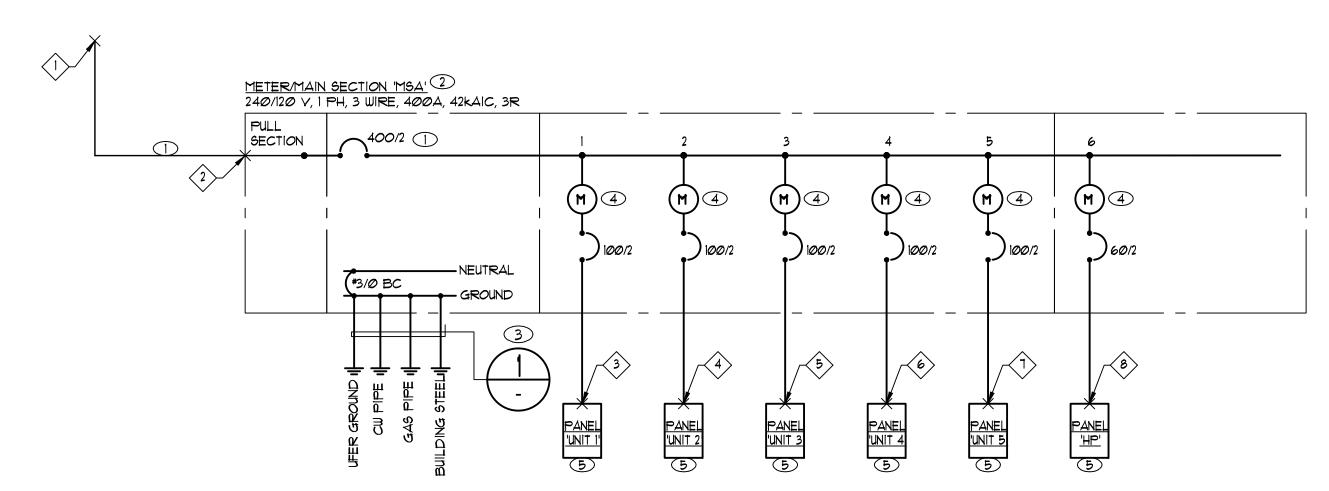
Double Electric Oven (Owner Option)

If over 120,000VA VA use 25%

THE DESIGN PROFESSIONAL HAS PERFORMED ALL THE REQUIRED VOLTAGE DROP CALCULATIONS FOR ALL BRANCH CIRCUITS AND FEEDERS PER NEC.

THE DESIGN PROFESSIONAL HAS PERFORMED ALL THE REQUIRED SHORT CIRCUIT CALCULATIONS BASED ON ASSUMED 100KVA TRANSFORMER AND 4SETS OF \*3/0 COPPER WIRES AT 40FEET AWAY SERVIDE LATERAL AND THE AIC RATING INDICATED FOR EACH DEVICE IS ADEQUATE TO PROTECT THE EQUIPMENT AND THE ELECTRICAL SYSTEM.

SINGLE LINE IS DIAGRAMMATICAL ONLY. PRIOR TO BIDDING AND OR ORDERING EQUIPMENT THE CONTRACTOR SHALL VERIFY AVAILABLE TYPE OF SWITCHGEAR/METER OR ELECTRICAL EQUIPMENT THAT WILL FIT IN THE ELECTRICAL ROOM OR WALL PER CODE, UTILITY, AND/OR CITY HAVING JURISDICTION INCLUDING CONDUIT PLACEMENT OR LAYOUT. ADVISE OWNER OR ARCHITECT IF ADDITIONAL ROOM IS NEEDED. OTHERWISE CONTRACTOR SHALL ADD IN HIS/HER BID ALL THE ADDITIONAL LABOR AND MATERIALS TO HAVE INSTALLATION IN COMPLIANCE WITH THE APPROVAL AND SATISFACTION OF OWNER AND OR UTILITY AND/OR CITY HAVING JURISDICTION.



SINGLE	LINE	DIAGRAM
NOT TO SCALE		

			L	<b>IGHT</b> F	IXTURE	SCHEDULE		
TYPE	DESCRIPTION	MANUFACTURER/	VOLTAGE	NO.	WATTS	LAMP TYPE		REMARKS
		CATALOG NUMBER		LAMPS	FIXT.			PROVIDE LAMPS AS REQUIRED
		LUMENCIA					OR APPROVED	INSTALL WITHOUT 6 INCH DOWN ROD
"F1"	CEILING FAN WITH	LL52SKY35SN-ES-LED SERIES	120	INCL		LED	BY OWNER/	FAN HEIGHT APPROX 12 INCHES
	INTEGRAL LED LIGHT						ARCHITECT	VERIFY CEILING CLEARANCE
		ELCO					OR APPROVED	PROVIDE COMPLETE KIT
"F2"	4 INCH LED DOWNLIGHT	E414C-O8-30-W	UNV	INCL	8.76	LED	BY OWNER/	INCLUDING SPECIAL MOUNTING BRACKET, ETC.
	BAFFLE / RECESSED	HOUSING: E4LC-08-ICA-D					ARCHITECT	AS REQUIRED
	EMERGENCY	ELCO					OR APPROVED	EM BATTERY BACK UP
"F2E"	4 INCH LED DOWNLIGHT	E414C-O8-30-W	UNV	INCL	8.76	LED	BY OWNER/	700 LUMENS FOR 90 MINUTES
	BAFFLE / RECESSED	HOUSING: E4LC-08-ICA-D-EM1					ARCHITECT	
		FEIT					OR APPROVED	
"F3"	CLOSET LIGHT	71801	120V	INCL	17.5	LED	BY OWNER/	
							ARCHITECT	
		BROWNLEE					OR APPROVED	
"F4"	BATHROOM	5172-25-BN-H16LED-30K	120V	INCL	16	LED	BY OWNER/	
	VANITY FIXTURE						ARCHITECT	
		CREE					OR APPROVED	
"F5"	LED VAPOR TIGHT	C-VTT-A-SMWL-9-40K-GR	120V	INCL	14	LED	BY OWNER/	
	WALL MOUNT						ARCHITECT	
	WALL PACK	MOBERN					OR APPROVED	
"S1"	WITH EM BACK-UP	MILGCOWPK-LED-36-MV-50-PC120	120V	INCL	35	LED	BY OWNER/	PHOTOCELL MUST BE SPECIFIED FOR LINE VOLTAGE
	AND PHOTOCELL	EM					ARCHITECT	
	AREA LIGHT	NLS VUE					OR APPROVED	
	PARKING SPACES	VUE1-T3-32L-1-50K-UNV-DPS6-					BY OWNER/	
"S2"	16 FOOT POLE	BRZ-PCPOLE	UNV	INCL	106	LED	ARCHITECT	
		SSSP-16-4S-11G9BC-SGL-BRZ-3430						

1. WHEN REQUIRED, UNIVERSAL OR ADVANCED BALLAST ONLY: ELECTRONIC, PARALLEL > 0.90 POWER FACTOR, REDUCED HARMONICS < 0.10

2. UL LISTED AND APPROVED FOR WET OR DAMP LOCATION, DEPENDING ON CONDITIONS
3. COORDINATE BLDG PENETRATION WITH EXTERIOR BLDG SURFACE MATERIALS. PROVIDE MANUFACTURERS LISTED PENETRATION SEALS. ALL PENETRATIONS SHALL BE MADE WATER PROOF. COORDINATE WITH OTHER TRADES REQUIREMENTS. WHERE APPLICABLE

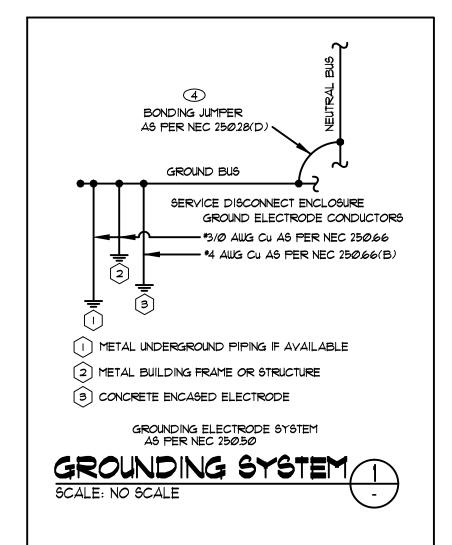
4. WHEN FIXTURE IS DENOTED WITH AN "E" EXAMPLE - F1E, PROVIDE 90 MINUTE EMERGENCY OPERATION WITH ACCESSIBLE TEST SWITCH. 1100 LUMEN BATTERY PACK MANUFACTURED BY BODINE WITH 5 YEAR WARRANTY.
TEST SWITCH SHALL BE FIXTURE MOUNTED, EXTERIOR FIXTURE TEST SWITCHES SI-WEATHERPROOF. ALL LIGHTING FIXTURE WITH BATTERY PACKS REQUIRE A SEPARATE NON-SWITCH, HOT CONDUCTOR FOR OPERATION.
DISCONNECT POWER TO BATTERY PACKS WILL CAUSE THEM TO DISCHARGE. (OR PER OWNER'S APPROVED)

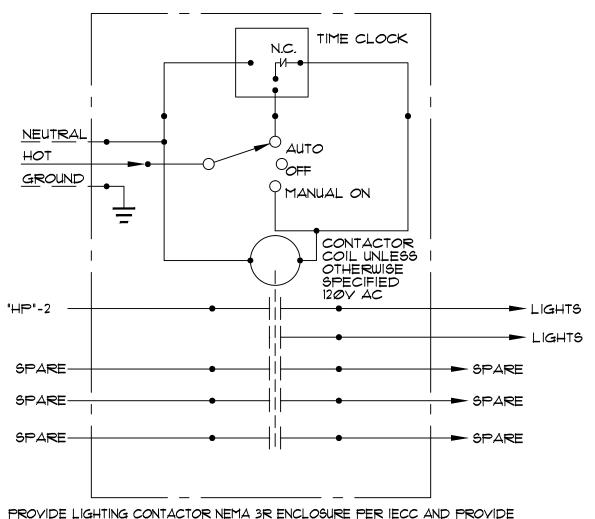
5. PROVIDE WITH FIXTURE MOUNTED PHOTOCELL.

6. ALL SWITCHING AND MOUNTING SHOWN IN DRAWINGS ARE GENERIC IN NATURE. BEFORE ORDERING FIXTURES YOU SHALL VERIFY WITH ARCHITECT/ACHITECTURAL'S

SWITCHING AND MOUNTING REQUIREMENTS AND PROVIDE THE APPROPRIATE BALLASTS, FIXTURES OR MOUNTINGS MATERIALS AS NEEDED.
7. YOU SHALL ADHERE TO THE NOTES IN THE "PRIOR TO COMMENCING WORK" AS STATED IN COVER SHEET OR ELSEWHERE ON DRAWINGS.

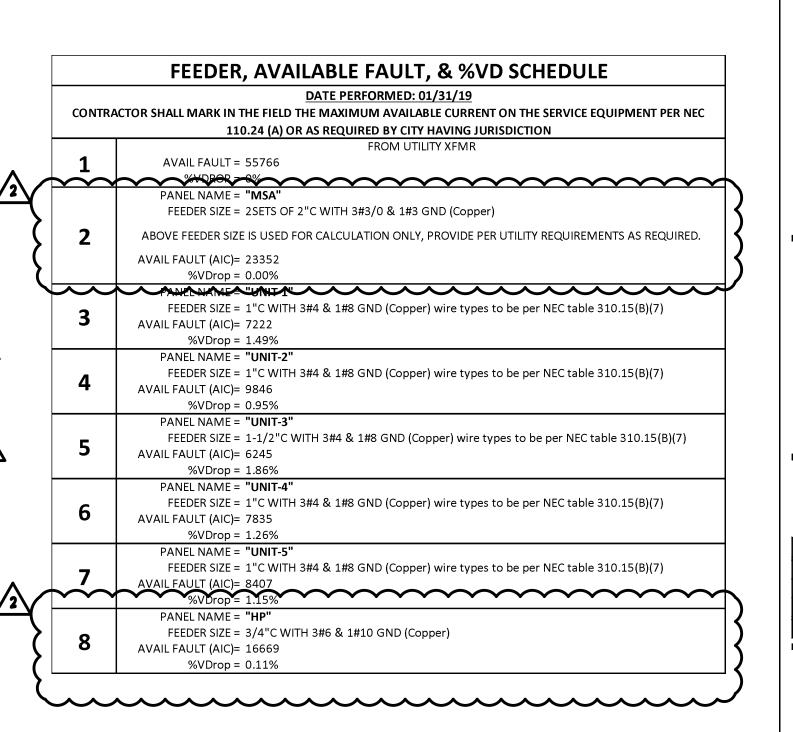
	LINE-LINE	PHASE	SYSTEM		PAN	IEL NAME			FEED:	ТОР	
	VOLTS	VOLTS	PHASE			'HP"		ENCL:		NEMA-3R	
	240	120	1			нР		A	VAIL SHRT CKT	16.67 KAIC	
NO OF WRE SYSTEM	3				LOCAT	ION: SEE PLAN		SHRT CKT BRACE 22 KAIC		22 KAIC	
MAIN BREAKER OR FUSE SIZE	60										
MAIN LUG BUSS SIZE	60								%VDROP =	0.11%	
POLE		PHASE	PHASE					PHASE	PHASE		POL
# DESCRIPTION		Α	В	POLE	C.B.	<b>€.B.</b>		~~~	<b>✓</b> ₽✓	<b>VESCRIPTION</b>	<b>**</b>
1 MAINTENACE RECEPTACLES		900		1	20	20	1	1486		BLDG LIGHTS + POLE LIGHT	2
3 FIRE RISER RECEPTACLE & LIGHT			360	1	20	~~~		~~~			
5 OU-UNIT & IU-UNIT		1200		2	15						6
7 -			1200		2 15						8
9											10
	<b>~~</b>	<b>~~~</b>	<b>~~~</b>	~~~	<b>~~</b>	<b>\</b>	~~~	<b>~~~</b>	<b>~~~</b>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<b>1</b> 2
	SUB-TOTAL =	2100	1560					1486	0	= SUB-TOTAL	
TOTAL CONNECTED VA/PHASE =		3586	1560					30	13	= TOTAL CONNECTED AMPS/PHASE	
TOTAL CONNECTED VA = 5146								NOTES:			
TOTAL DEMAND Load DF			DEMAND					PROVIDE 3/4"	C WITH 3#6 & 1#	‡10 GND (Copper)	
LIGHTING IN VA 1486		25%	371.5					PROVIDE APPRO	PRIATE WIRE SIZE	S PER NEC	
RECEPTACLES > 10K IN VA		50%	0								
ARGEST MOTOR IN VA		25%	0								
HIS PANEL LOAD IN VA	5146	100%	5146								
TOTAL PANEL IN VA			5517.5								
TOTAL AMF			= 23								

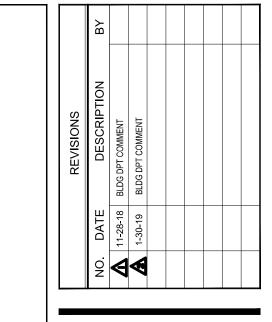




## LIGHTING CONTROL DETAIL "LCP"

NUMBER OF CONTACTS AS REQUIRED (LOCATE PER OWNER)







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