# ELECTRICAL SPECIFICATIONS (AS APPLICABLE)

### **DIVISION 16 - ELECTRICAL** SECTION 16000

BASIC ELECTRICAL REQUIREMENTS

A. <u>NOTE</u>

- 1. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND ALL OTHER SPECIFICATION SECTIONS, APPLY TO THIS AND THE OTHER SECTIONS OF DIVISION 16.
- 2. THE CONTRACTOR FOR THIS DIVISION OF WORK IS REQUIRED TO READ THE SPECIFICATIONS AND REVIEW DRAWINGS FOR ALL DIVISIONS OF WORK AND IS RESPONSIBLE FOR THE COORDINATION OF THIS WORK AND THE WORK OF HIS SUBCONTRACTORS WITH ALL DIVISIONS OF WORK. IT IS THIS CONTRACTORS RESPONSIBILITY TO PROVIDE HIS SUBCONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS.
- 3. THIS ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE COMPLETION AND INSPECTION OF THIS WORK TO COMPLY WITH TENANT/ARCHITECT'S SCHEDULE AND THE PROJECT COMPLETION DATE.
- 4. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID TO DETERMINE CONDITIONS AFFECTING THE WORK. ANY ITEMS WHICH ARE NOT COVERED IN THE BID DOCUMENTS OR ANY PROPOSED SUBSTITUTIONS SHALL BE LISTED SEPARATELY AND QUALIFIED IN THE CONTRACTORS BID. SUBMITTAL OF BID SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY IN PERFORMANCE OF HIS WORK.
- 5. REFER TO RESPONSIBILITY SCHEDULE FOR INFORMATION IN REGARD TO RESPONSIBILITY OF WORK OR ITEMS WHICH MAY AFFECT THE BID.

### B. <u>GENERAL REQUIREMENTS</u>

- THIS CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS, CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY JOB CONDITIONS. ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE LANDLORD OR ARCHITECTS SHALL BE PROVIDED BY THIS CONTRACTOR. CLOSELY COORDINATE THE ENTIRE INSTALLATION WITH THE LANDLORD AND ARCHITECTS, AS REQUIRED.
- 2. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT EACH OTHER AND ANY MATERIAL OR LABOR CALLED FOR IN ONE SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN BOTH. ANY MATERIAL OR LABOR WHICH IS NEITHER SHOWN ON THE DRAWINGS NOR CALLED FOR IN THE SPECIFICATIONS. BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK, AND WHICH IS USUALLY INCLUDED IN WORK OF SIMILAR CHARACTER, SHALL BE FURNISHED AND INSTALLED AS PART OF THE CONTRACT.
- 3. WHERE THE DRAWINGS OR SPECIFICATIONS CALL FOR ITEMS WHICH EXCEED CODES OR THE LANDLORD'S TENANT CRITERIA, THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING THE SYSTEM WITH THE MORE STRINGENT REQUIREMENTS AS DESIGNED AND DESCRIBED ON THESE DRAWINGS, UNLESS SPECIFICALLY NOTED OTHERWISE.
- 4. ALL WORK IN THIS SECTION SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING, AND REPAIRING. THIS CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT SERVICE ACCESS TO ALL EQUIPMENT.
- 5. ALL WORK SHALL BE PERFORMED IN A NEAT PROFESSIONAL MANNER USING GOOD CONSTRUCTION PRACTICES.
- 6. UNLESS SPECIFICALLY NOTED OTHERWISE, MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW. UNDERWRITERS LABORATORIES LISTED AND LABELED AND SIZED IN CONFORMITY WITH REQUIREMENTS OF STATE AND LOCAL CODES, WHICHEVER IS MORE STRINGENT.
- 7. THIS CONTRACTOR SHALL DO ALL CUTTING, CHASING AND CHANNELING REQUIRED FOR ANY WORK UNDER THIS DIVISION. CUTTING SHALL HAVE PRIOR APPROVAL BY THE ARCHITECTS AND THE LANDLORD. ALL PATCHING SHALL BE BY G.C. AND SHALL MATCH THE SURROUNDING SURFACES.
- 8. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.

### C. TEMPORARY LIGHT AND POWER

- 1. THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY WIRING AND RELATED GROUND FAULT INTERRUPTION PROTECTION FOR LIGHT AND POWER FOR ALL CONTRACTORS AND SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY WIRING.
- 2. THE GENERAL CONTRACTOR SETS UP ALL ELECTRICAL UTILITIES IN THE NAME OF THE TENANT. TENANT PAYS FOR ALL UTILITIES THROUGHOUT CONSTRUCTION.
- D. <u>CODES</u>

ALL WORK SHALL CONFORM TO THE LANDLORD'S CRITERIA. THE STATE'S, COUNTY'S, CITY'S AND LOCAL CODES AND ORDINANCES. SAFETY AND HEALTH CODES. NFPA CODES. ENERGY CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. THIS CONTRACTOR SHALL INQUIRE INTO AND COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. THIS CONTRACTOR SHALL INCLUDE ANY CHANGES REQUIRED BY CODES IN THE BID AND IF THESE CHANGES ARE NOT INCLUDED IN THE BID, THEY MUST BE QUALIFIED AS A SEPARATE LINE ITEM IN THE BID. AFTER CONTRACT IS AWARDED, CHANGE ORDERS FOR INCREASED COSTS DUE TO CODE ISSUES WILL NOT BE ACCEPTED BY OWNER, UNLESS ALLOWANCES HAVE PREVIOUSLY BEEN AGREED UPON.

### E. LICENSES, PERMITS, INSPECTIONS & FEES

- 1. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS, AND FEES REQUIRED OR RELATED TO HIS WORK.
- 2. FURNISH TO ARCHITECTS ALL CERTIFICATES OF INSPECTION AND FINAL INSPECTION APPROVAL AT COMPLETION OF PROJECT.

### F. TRADE NAMES, MANUFACTURERS AND SHOP DRAWINGS

- 1. WHERE TRADE NAMES AND MANUFACTURERS ARE USED ON THE DRAWINGS OR IN THE SPECIFICATIONS, THE EXACT EQUIPMENT SHALL BE USED AS A MINIMUM FOR THE BASE BID. MANUFACTURERS CONSIDERED AS AN EQUAL OR BETTER IN ALL ASPECTS TO THAT SPECIFIED WILL BE SUBJECT TO APPROVAL IN WRITING BY ARCHITECTS/ENGINEERS THROUGH SHOP DRAWING SUBMITTAL PROCESS FOR ACCEPTANCE PRIOR TO INSTALLATION. THE USE OF ANY UNATHORIZED EQUIPMENT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 2. GENERAL CONTRACTOR SHALL SUBMIT ONLY SUBSTITUTION REQUESTS TO ARCHITECTS/ENGINEERS FOR APPROVAL. SUBMISSIONS SHALL BE MADE EARLY ENOUGH IN PROJECT TO ALLOW FOUR (4) WORKING DAYS FOR ARCHITECTS/ENGINEERS REVIEW WITHOUT CAUSING DELAYS OR CONFLICTS TO THE JOB'S PROGRESS. SUBMITTALS SHALL BEAR THE STAMP AND/OR THE SIGNATURE OF THE GENERAL CONTRACTOR AND THE SUB-CONTRACTOR SHOWING THAT HE HAS REVIEWED AND CONFIRMED THAT THE SUBMITTALS ARE IN CONFORMANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS OR INDICATE WHERE EXCEPTIONS HAVE BEEN TAKEN.

### G. <u>GUARANTEE</u>

1. THE EQUIPMENT MANUFACTURER SHALL PROVIDE A 12 MONTH GUARANTEE TO TENANT FROM THE DATE OF ACCEPTANCE. THIS CONTRACTOR SHALL WARRANTY THE INSTALLATION OF THIS EQUIPMENT AND WILL BE RESPONSIBLE FOR ANY DAMAGE AND/OR MALFUNCTION CAUSED BY THE INSTALLATION. THIS CONTRACTOR SHALL NOT BEAR ADDITIONAL WARRANTIES BEYOND A COMPLETE WORKING SYSTEM.

### H. <u>RECORD DRAWINGS</u>

- 1. THIS CONTRACTOR SHALL MAINTAIN ONE SET OF DRAWINGS ON THE JOB SITE UPDATED WEEKLY TO RECORD ALL DEVIATIONS FROM CONTRACT DRAWINGS, SUCH AS:
- a. LOCATION OF CONCEALED CONDUIT AND EQUIPMENT.
- b. REVISIONS, ADDENDUMS, AND CHANGE ORDERS.
- c. SIGNIFICANT DEVIATIONS MADE NECESSARY BY FIELD CONDITIONS, APPROVED EQUIPMENT SUBSTITUTIONS, AND CONTRACTOR'S COORDINATION WITH OTHER TRADES.
- 2. AT COMPLETION OF THE PROJECT AND BEFORE FINAL APPROVAL, THIS CONTRACTOR SHALL MAKE ANY FINAL CORRECTIONS TO DRAWINGS AND CERTIFY THE ACCURACY OF EACH PRINT BY SIGNATURE THEREON. FAILURE TO KEEP THESE RECORDS WILL ALLOW TENANT/ARCHITECTS TO DIRECT THE GENERAL CONTRACTOR TO PROVIDE THESE RECORDS AT HIS EXPENSE PRIOR TO FINAL PAYMENT.

### I. DISCREPANCIES IN DOCUMENTS

DRAWINGS (PLANS, SPECIFICATIONS, AND DETAILS) ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION AND INTENT OF THE ELECTRICAL SYSTEMS. WHERE DRAWINGS, EXISTING SITE CONDITIONS, SPECIFICATIONS OR OTHER TRADES CONFLICT OR ARE UNCLEAR, ADVISE THE GENERAL CONTRACTOR IN WRITING, PRIOR TO SUBMITTAL OF BID. THE GENERAL CONTRACTOR IS RESPONSIBLE TO ADVISE PROJECT MANAGER. IN WRITING, OF VARIATIONS TO CONTRACT DOCUMENTS PRIOR TO SUBMISSION OF BID. OTHERWISE, TENANT/ARCHITECT'S INTERPRETATION OF CONTRACT DOCUMENTS OR CONDITIONS SHALL BE FINAL WITH NO ADDITIONAL COMPENSATION PERMITTED.

### PHASING REQUIREMENTS

1. THIS CONTRACTOR IS TO INCLUDE IN HIS BID ALL NECESSARY SERVICE REQUIRED TO KEEP THE OPERATING PHASE OF THE STORE'S ELECTRICAL SERVICE IN OPERATION. CONTRACTOR MUST SCHEDULE IN WRITING WITH TENANT/ARCHITECTS AND THE LANDLORD ONE WEEK PRIOR TO ANY SHUT DOWN OF THE ELECTRICAL SYSTEM.

#### K. DEMOLITION

- EXISTING EQUIPMENT REQUIRED TO BE LEFT INTACT.
- THE EXTENT OF DEMOLITION PRIOR TO BID AND INCLUDE IN BID PROPOSAL

#### <u>SLEEVES</u>

- MASONRY FLOORS OR WALLS.

#### M. <u>HANGERS</u>

- ALSO SUBJECT TO LANDLORD CRITERIA.
- 3. HANGERS AND PIPING OF DISSIMILAR METALS SHALL BE DIELECTRICALLY SEPARATED. N. FINAL ELECTRICAL INSPECTIONS
  - SPECIFICATION REQUIREMENTS.

#### END OF SECTION 16000

#### <u>SECTION 16050</u>

BASIC ELECTRICAL MATERIAL AND METHODS

#### A. <u>SCOPE OF WORK</u>

- THE FOLLOWING:
- b. CONTRACTOR MUST ALSO INCLUDE IN BID ALL NECESSARY MATERIALS REQUIRED TO COMPLETE THE SYSTEM DEVICES, COVER PLATES, CONDUITS, ETC.
- LANDLORD.
- d. THE WIRING OF MECHANICAL EQUIPMENT AS OUTLINED ON THE BID SET DRAWINGS AND IN THE NOTED SPECIFICALLY ON DRAWING
- EQUIPMENT, ETC. REQUIRED FOR MOUNTING.
- DRAWINGS.
- A COMPLETE EMERGENCY AND EXIT LIGHTING SYSTEM AS SHOWN ON THE DRAWINGS.
- h. TEMPORARY SERVICE AS INDICATED IN THE SPECIFICATIONS, INCLUDING ITS REMOVAL.

- CONNECTIONS FOR SOUND SYSTEM AS SHOWN.

- m. BALANCING LOADS.
- n. AS-BUILTS, PANEL DESCRIPTION AND CIRCUIT BREAKER SPECIFIC LABELING.
- 2. THE FOLLOWING ITEMS OF ELECTRICAL CONSTRUCTION ARE NOT INCLUDED IN THIS CONTRACT:
- a. TELEPHONE INSTRUMENTS AND WIRING UNLESS NOTED OTHERWISE. b. DATA CABLE WIRING UNLESS NOTED OTHERWISE.
- 3. BEFORE STARTING WORK, THIS CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, FIRE
- PROTECTION, MECHANICAL AND PLUMBING PLANS, SHOP DRAWINGS AND SPECIFICATIONS TO SEQUENCE, COORDINATE, AND INTEGRATE THE VARIOUS ELEMENTS OF THE ELECTRICAL SYSTEM, MATERIALS AND EQUIPMENT WITH OTHER CONTRACTORS TO AVOID INTERFERENCES AND CONFRONTATIONS.

### B. <u>CONDUIT</u>

- THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS SERVING ALL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, LIGHTING, RECEPTACLES, HEATING, AIR CONDITIONING, PLUMBING EQUIPMENT, TELEPHONE, DATA, SPEAKERS, SECURITY, PAGER, TRAFFIC COUNTING SYSTEM AND ELECTRICAL EQUIPMENT.
- ALL CONDUITS SHALL BE GALVANIZED IMC OR EMT UNLESS OTHERWISE SPECIFIED IN SPECIFICATIONS OR ON DRAWINGS ALL CONDUIT IS TO BE ULLABELED, EMT CONNECTORS SHALL BE STEEL COMPRESSION OR SET SCREW TYPE. CONDUIT UNDER SLAB ON GRADE SHALL BE RIGID STEEL, OR SCHEDULE 40 PVC WITH RIGID STEEL ELLS WHERE PERMITTED BY LANDLORD OR CODE.
- 3. MINIMUM SIZE OF CONDUIT SHALL BE: a. MAIN FEEDER CONDUIT 2" OR LARGER FOR ALL APPLICATIONS.
- b. 1/2" FOR INDIVIDUAL LIGHTING FIXTURE CONNECTIONS OR TO INDIVIDUAL LIGHT SWITCHES (IF ACCEPTABLE BY THE LANDLORD AND LOCAL CODE OFFICIALS) AND 3/4" FOR ALL OTHER LOCATIONS.

1. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE DEMOLITION OF EXISTING WORK AND THE DEMOLITION PROVIDED BY THE GENERAL CONTRACTOR. COORDINATE WITH THE GENERAL CONTRACTOR ANY NOTED OTHERWISE ON DRAWINGS.

6. FLEXIBLE METAL CONDUIT OR MC TYPE CABLE:

NEMA APPROVED TYPE.

CLEARANCE ABOVE CEILING.

9. ALL CONDUITS MUST BE SIZED PER NEC AND LOCAL CODES.

STORIES.

OUTLET BOXES

FIXTURE STUDS.

b. CONVENIENCE OUTLETS:

JUNCTION AND PULL BOXES

CONDUIT SYSTEM.

a. #12 LESS THAN 100 FEET

b. #10 BETWEEN 100-150 FEET

c. #8 BETWEEN 150 - 250 FEET

d. #6 OVER 250 FEET

STRANDED).

WIRE).

STORIES.

120/208 VOLT SYSTEM

PHASE A OR L1 - BLACK

PHASE B 0R L2 - RED

PHASE C OR L3 - BLUE

GROUND - GREEN

NEUTRAL - WHITE

COVER

<u>WIRING</u>

1. FINAL CONNECTIONS TO MOTORS.

CODES.

d. ALL IN/UNDER FLOOR CONDUIT SHALL BE OF MINIMUM 3/4" SIZE.

2. FINAL CONNECTIONS INTO AND OUT OF THE TRANSFORMER.

5. FINAL CONNECTIONS WHERE RIGID CONDUIT IN NOT PRACTICAL.

d. CONNECTION TO ANY OUTDOOR EQUIPMENT MUST BE WEATHERPROOF.

10. ALL SENSORMATIC WIRING MUST BE PLACED IN CONDUIT (PVC PIPE NOT PERMITTED).

3. EXTERIOR BOXES SHALL BE CAST RUST-RESISTING METAL WITH GASKETED COVERS.

HANDICAP CODES OR LOCAL CODES, OUTLET HEIGHTS SHALL BE AS FOLLOWS:

AS SHOWN ON DRAWINGS, OR AS REQUIRED BY LOCAL CODES, SEE DRAWINGS.

INSTALL ADDITIONAL BOXES WHERE REQUIRED BY FIELD CONDITIONS OR BY CODE.

DIFFUSERS AND RETURN AIR GRILLES OR ACCESS PANELS AS LOCATED ON PLANS.

DISTANCE SHALL BE MEASURED FROM THE PANELBOARD CIRCUIT BREAKER TO THE FURTHEST OUTLET.

10 FEET OF PANEL BOARD AND DEVICE IN JUNCTION BOXES ON RATED TERMINAL STRIPS.

PERMISSION FROM GENERAL CONTRACTOR AND PROJECT MANAGER WHEN USED.

277/480 VOLT SYSTEM

PHASE A OR L1 - YELLOW

PHASE B 0R L2 - ORANGE

PHASE C OR L3 - BROWN

**GROUND - GREEN WITH YELLOW TRACER** 

NEUTRAL - GRAY

CONDUCTOR SHALL HAVE A DEDICATED FULL SIZE NEUTRAL.

"LOCKTIGHT" FOR #6 AWG AND LARGER.

10. ALL WIRING TO BE COLOR-CODED AS FOLLOWS:

THAT OCCURS WHEN PLUGGING/UNPLUGGING INTO THESE DEVICES.

a. SWITCH HEIGHT 48" FROM FINISHED FLOOR TO TOP OF OUTLET

c. TELEPHONE OUTLETS SHALL BE LOCATED AS NOTED ON DRAWINGS.

2. BOXES AND COVERS SHALL BE GALVANIZED STEEL OF CODE GAUGE SIZE.

7. PROVIDE PULL-WIRE IN ALL EMPTY CONDUITS EXCEPT AS NOTED OTHERWISE ON DRAWINGS.

FINAL CONNECTIONS TO VIBRATING EQUIPMENT.

PAINTING OF CONDUITS. NOTED ON DRAWINGS OR SPECIFICATIONS WILL BE BY GENERAL CONTRACTOR.

a. FLEXIBLE CONDUIT OR MC TYPE CABLE SHALL BE USED FOR THE FOLLOWING APPLICATIONS ONLY:

4. INTER-CONNECTIONS BETWEEN ALL LIGHT FIXTURES AND HOMERUNS TO PANELS WHERE CODE ALLOWS.

6. IN WALLS (FOR LIGHT SWITCHES AND 120 VOLT POWER RECEPTACLES AND HVAC CONTROL EQUIPMENT).

CONFIGURATION. CONCEALED BOXES SHALL NOT BE LESS THAN 4" SQUARE AND 1 1/2" DEEP, WITH PLASTER RINGS.

UNLESS OTHERWISE NOTED ON DRAWINGS OR OTHERWISE REQUIRED BY THE NATIONAL ELECTRICAL CODE,

2. THIS CONTRACTOR SHALL INCLUDE, AND WILL BE HELD RESPONSIBLE FOR, THE REMOVAL OF ALL EXISTING FLECTRICAL EQUIPMENT, CONDUITS, ETC, NOT TO BE REUSED ON THIS PROJECT, UNLESS SPECIFICALLY NOTED OTHERWISE. CONTRACTOR MUST VERIFY WITH THE LANDLORD ALL PRESUMED ABANDONED EQUIPMENT PRIOR TO REMOVAL. ALL EXTRANEOUS ITEMS IN THE SPACE OR ON THE ROOF NOT APPLICABLE TO THE NEW WORK MUST BE REMOVED AND ROOF/WALL/FLOOR PATCHED/REPAIRED TO MATCH EXISTING STRUCTURE. EXISTING ABANDONED CONDUIT OR EQUIPMENT IN THE FLOOR, EMBEDDED IN CONCRETE OR OTHERWISE INACCESSIBLE ARE TO BE CUI OFF AND SEALED BELOW OR WITHIN FLOOR OR WALL LEVEL WHEN THEY ARE NOT TO BE REUSED IN THIS PROJECT. IF REQUIRED BY LANDLORD OR CODES, ABANDONED CONDUIT MUST BE REMOVED TO POINT OF ORIGIN. CONFIRM

1. THIS CONTRACTOR SHALL PROVIDE SLEEVES TO PROTECT EQUIPMENT OR FACILITIES IN THE INSTALLATION. EACH SLEEVE SHALL EXTEND THROUGH IT'S RESPECTIVE FLOOR, WALL OR PARTITION AND SHALL BE CUT FLUSH WITH EACH SURFACE EXCEPT SLEEVES THAT PENETRATE THE FLOOR. WHICH SHALL EXTEND 2" ABOVE THE FLOOR. CONTRACTOR MUST COORDINATE THROUGH THE LANDLORD ANY CORE DRILLING OR CUTTING OF OPENINGS IN

2. ALL SLEEVES AND OPENINGS THROUGH FIRE RATED WALLS AND/OR FLOORS SHALL BE FIRE SEALED WITH CALCIUM SILICATE, SILICONE "RTV" FOAM, "3M" FIRE RATED SEALANTS OR EQUAL, SO AS TO RETAIN THEIR FIRE RATING.

3. SLEEVES IN BEARING AND MASONRY WALLS, FLOORS, AND PARTITIONS SHALL BE STANDARD WEIGHT STEEL PIPE FINISHED WITH SMOOTH EDGES. FOR OTHER THAN MASONRY PARTITIONS, THROUGH SUSPENDED CEILINGS, OR FOR CONCEALED VERTICAL PIPING, SLEEVES SHALL BE NO. 22 U.S.G. GALVANIZED STEEL MINIMUM.

HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS ANGLE IRON, BANDS, C-CLAMPS WITH RETAINING CLIPS, CHANNELS, HANGER RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK.

2. HANGERS SHALL BE FASTENED TO BUILDING STEEL, CONCRETE, OR MASONRY, BUT NOT TO PIPING. HANGING FROM METAL DECK IS NOT PERMITTED HANGERS MUST BE ATTACHED TO UPPER CHORD OF BAR JOIST WHERE INTERFERENCES OCCUR, AND IN ORDER TO SUPPORT DUCTWORK OR PIPING, THE CONTRACTOR MUST INSTALL TRAPEZE TYPE HANGERS OR SUPPORTS WHICH SHALL BE LOCATED WHERE THEY DO NOT INTERFERE WITH ACCESS TO FIRE DAMPERS, VALVES, AND OTHER EQUIPMENT. HANGER TYPES AND INSTALLATION METHODS ARE

ASIDE FROM NORMAL INTERIM INSPECTIONS OF WORK IN PLACE, TENANT/ARCHITECTS MAY HAVE AN INDEPENDENT ELECTRICAL CONTRACTOR INSPECT THE FINISHED ELECTRICAL INSTALLATION UPON COMPLETION FOR COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND CODES. THE INSTALLING CONTRACTOR WILL BE RESPONSIBLE TO BRING ALL ITEMS REPORTED BY THE INDEPENDENT ELECTRICAL CONTRACTOR UP TO PLANS AND

1. THIS CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, AND FACILITIES NECESSARY FOR, REASONABLY IMPLIED AND INCIDENTAL TO, THE FURNISHING, INSTALLATION, COMPLETION AND TESTING OF ALL THE WORK FOR THE ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS. CALLED FOR IN THE SPECIFICATIONS, AND AS REQUIRED BY JOB CONDITIONS, TO INCLUDE, BUT NOT BE LIMITED TO

a. A COMPLETE ELECTRICAL DISTRIBUTION SYSTEM INCLUDING THE INSTALLATION OF SAFETY AND DISCONNECT SWITCHES, MOTOR STARTERS AND LIGHTING. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO INCLUDE IN HIS BID FOR PROVIDING SERVICE EQUIPMENT NECESSARY FOR TIE-IN TO LANDLORD'S DISTRIBUTION EQUIPMENT OR TO OBTAIN SERVICE FROM LOCAL UTILITY COMPANY. REFER TO ELECTRICAL

RESPONSIBILITY SCHEDULE AND ELECTRICAL POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.

INCLUDING, BUT NOT LIMITED TO, FEEDERS, BRANCH CIRCUITS, JUNCTION BOXES, OUTLET BOXES, WIRING

2. METERING AND CURRENT TRANSFORMERS AS REQUIRED BY DRAWINGS, UTILITY COMPANY, AND/OR

SPECIFICATIONS. WORK SHALL INCLUDE WIRING OF ALL STARTERS, DISCONNECTS, AND POWER WIRING OF MECHANICAL EQUIPMENT EXCEPT AS SPECIFICALLY NOTED OTHERWISE. ALL LOW VOLTAGE (24 VOLT) EMS TEMPERATURE CONTROL WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR UNLESS

e. INSTALLATION OF LIGHT FIXTURES AND LAMPS AS SHOWN ON THE DRAWINGS INCLUDING ALL DEVICES,

f. A COMPLETE CONDUIT SYSTEM FOR TELEPHONE/DATA INCLUDING BRANCH CONDUITS, OUTLET BOXES, PULL

WIRES, GROUND CONDUCTORS, COVER PLATES, ETC. OR AS SPECIFICALLY NOTED OTHERWISE ON THE

i. FINAL CONNECTIONS TO ALL SIGNS, CORNICE LIGHTING, CASE LIGHTING, ETC. AS SHOWN ON DRAWINGS.

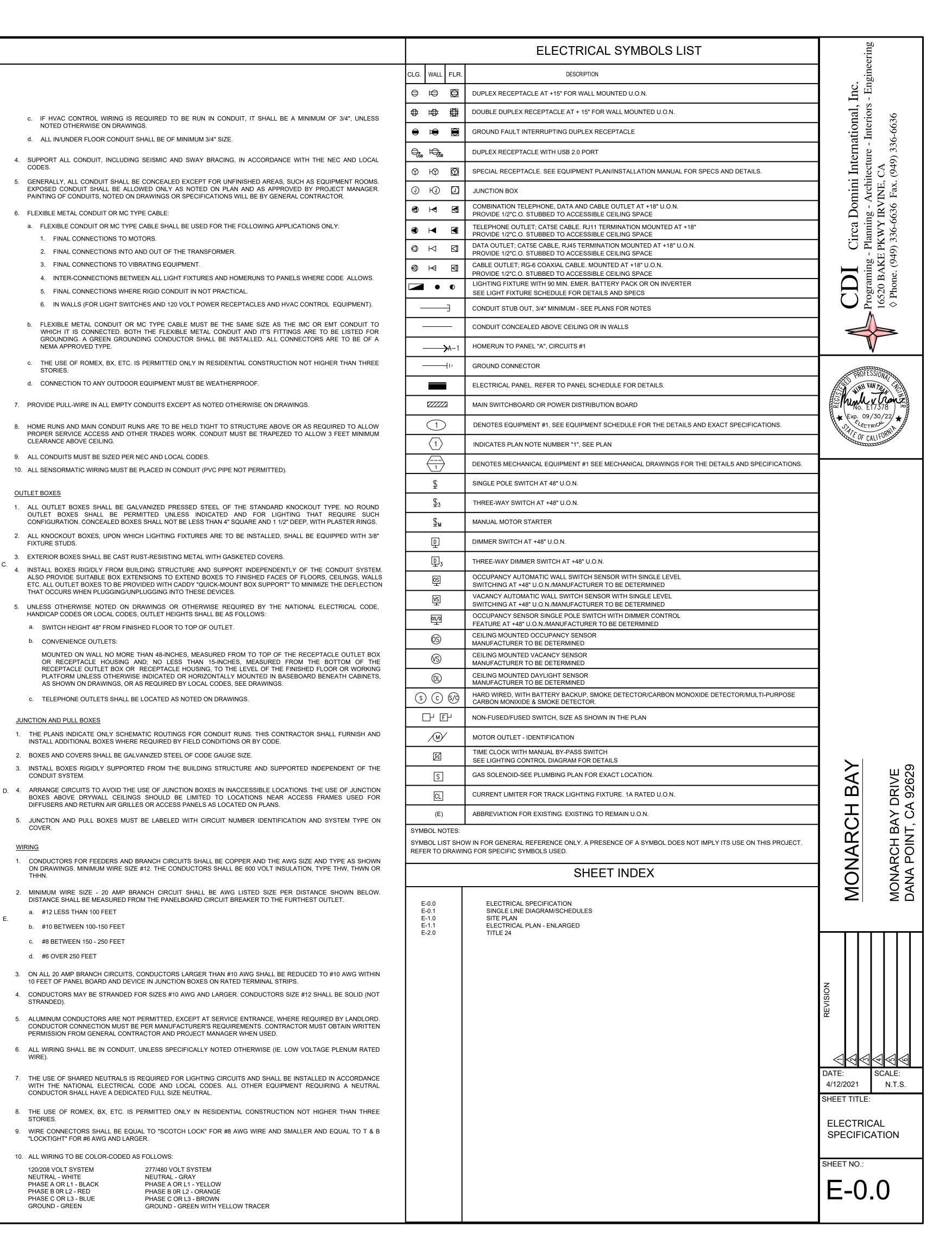
j. IF INDICATED ON DRAWINGS, INSTALLATION AND WIRING OF SPEAKERS, AMPLIFIERS, CONDUIT AND FINAL

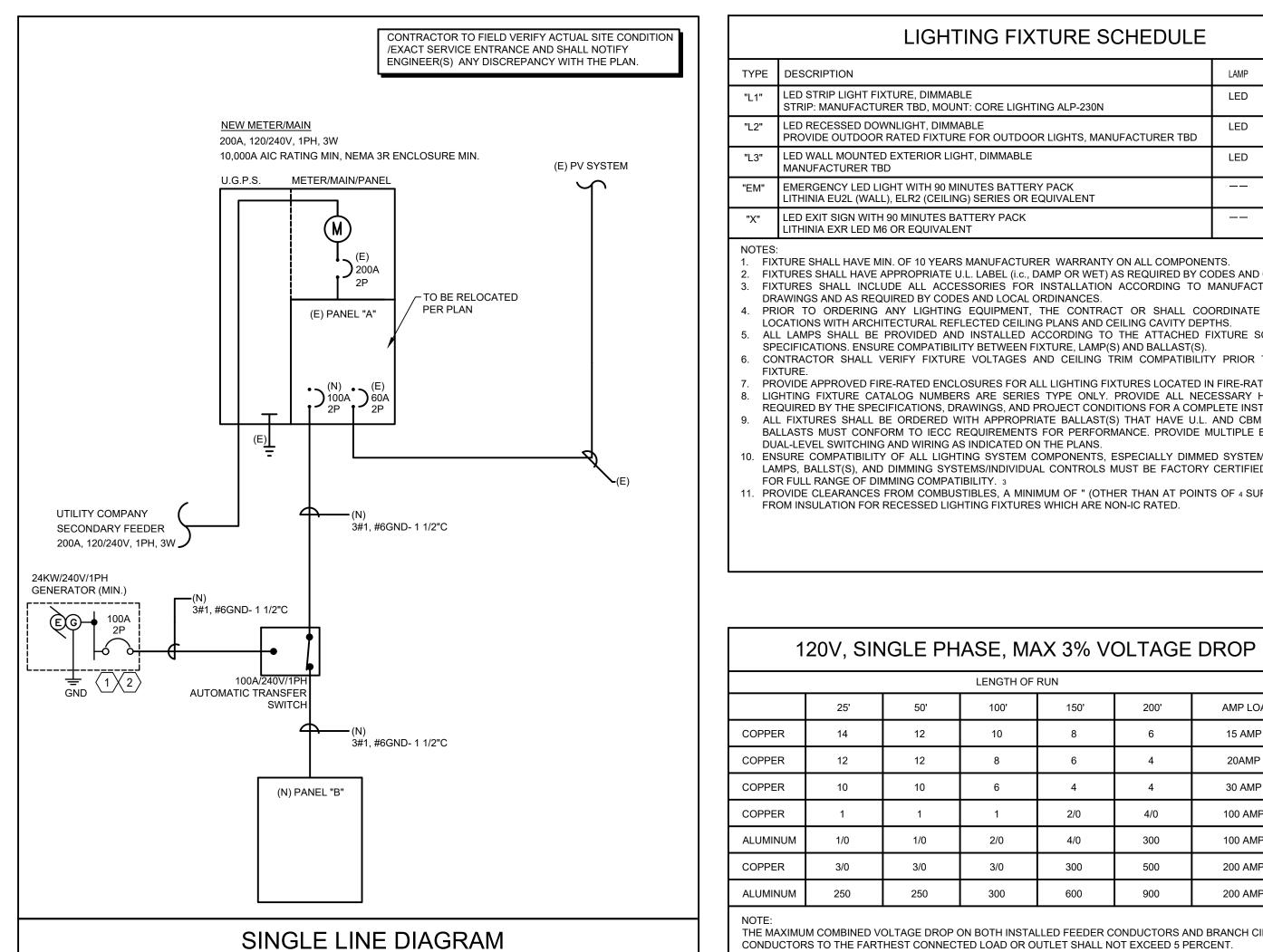
SMOKE/FIRE ALARM WIRING, DEVICES AND CONDUIT, AS SHOWN OR DESCRIBED ON DRAWINGS OR AS

NECESSARY TO MEET LANDLORD, STATE, LOCAL, INSURANCE AND FIRE DEPARTMENT REQUIREMENTS.

INSTALLATION OF CONDUITS STUBBED TO ABOVE CEILING FOR HVAC. ALSO, ANY ADDITIONAL CONDUIT FOR

HVAC CONTROL EQUIPMENT WHERE PLENUM RATED CABLES ARE NOT PERMITTED.





### **KEYED SINGLE LINE DIAGRAM NOTES:**

- VERIFY WITH MANUFACTURER FOR ELECTRICAL INSTALLATION 1 REQUIREMENTS. PROVIDE FUSE/DISCONNECT PER RECOMMENDATION IF NOT BUILT-IN.
- 2 VERIFY EXACT LOCATION WITH ARCHITECT/OWNER AND PROVIDE NEMA 3R ENCLOSURE RATING MIN. IF OUTDOOR.

VOLTS: 120/240V PHASE: 1 SHORT CIRCUIT RATING: 10000A MAIN: 200A C.B.											Ρ	AN	EL	. "B			
VOLTS:120/240V PHA	SE: 1	SH	IORT CIF	RCUIT	RATING: 10	000A	MAIN: 200A C.B.	VOLTS:120/240V	PHASE: 1			SHORT	CIRCU	IT RATING	6: 10000A		MAIN: LUGS ONLY
MOUNTING: SURFACE WIRE	E: 3				MA 3R RAT		BUSSING: 200A	MOUNTING: FLUSHED	WRE: 3			ENCLOS	SURE: I	NEMA 1 R	ATED MIN		BUSSING: 100A
LOAD	* A-VA B-V/	A BK	(R CT	CT	BKR A-V	A B-VA	* LOAD	LOAD	*	A-VA E	B-VA	BKR	CT C	TBKR	A-VA I	3-VA "	* LOAD
PRIMARY SIGNAGE	C 1200	2	20/1 1					GUARD HOUSE LIGHTS	L	420		20/1	1	2 20/1	180	ŀ	R GUARD RESTRM RECEPT.
SECONDARY SIGNAGE	C 1	200 2	20/1 2					GUARD DESK MONITOR/PHONE	R		700	20/1	3	4 20/1		800 I	R GUARD EXT. MONITOR/RECEPT.
TIME CLOCK	C 200	2	20/1 3					GUARD DESK MONITOR	R	1200		20/1	5	6 20/1	500	(	C GUARD WATER DISP.
SPARE		2	20/1 4					GUARD PRINTER	N		1400	20/1	7	8 15/2		880	M WM/CU-1
SPARE		2	20/1 5					GUARD HAOUSE CONV. OUTLET	R	540		20/1	9 1	0	880	I	M
SPARE		2	20/1 6					U/C REFRIG.	K		820	20/1	11 1	2 20/1		1200 I	M GATE OPENER SW1
SPARE		2	20/1 7					INSTAHOT	N	1500		20/1	13 1	4 20/1	1200		M GATE OPENER SW2
SPARE		2	20/1 8					GUARDHOUSE OUTDOOR LIGHTS	L		500	20/1	15 1	6 20/1			SPARE
SPARE		2	20/1 9					SPARE				20/1	17 1	8 20/1			SPARE
SPARE		6	60/2 10					SPARE				20/1	19 2	20 20/1		1200 I	M GATE OPENER GUARD HOUSE 1
SPARE			11					SPARE				20/1	21 2	2 20/1	1200	1	M GATE OPENER GUARD HOUSE 2
LANDSCAPE LIGHTING (XFMR)	000000000000000000000000000000000000000	150 2	20/1 12					SPARE				20/1	23 2	4 20/1		1200	M GATE OPENER E1
SUBFEEDING PANEL "B"	P 8820	10	00/2 13					SPARE				20/1	25 2	26 20/1	1200	1	M GATE OPENER E2
	P 8	3700 ·	14					SPARE				20/1	27 2	28			
(2) IRRIGATION	N 1400	(2)	)20/1 15					SPARE				20/1	29 3	30			
(2) IRRIGATION	N 1	200 (2)	)20/1 16					PHASE TOTALS:		8820	8700	17520	=TOTA			D,VA (FC	OR DEMAND LOAD SEE BELOW)
IRRIGATION	N 600	2	20/1 17					PHASE AMPERES:		73.5	72.5					, (	,
SPARE		2	20/1 18					*DEMAND LOAD CALCULATION:								NOTES:	
PVSYSTEM		6	60/2 19					L=LIGHTING LOADS:		1.25	Х	920	=	1150	1-		LOAD: SPACE
			20					C=CONTINUOUS LOADS, OTHER:		1.25	х	500		625			
PHASE TOTALS:	12220 12	250 24	4470 =T	OTAL	CONNECTE	D LOAD, VA (	FOR DEMAND LOAD SEE BELOW)	M=MOTOR LOADS (INCL LGST):		1.00	Х	8960	=	8960			
PHASE AMPERES:	101.8 10	02.1						LARGEST, VA:		0.25	х	0	=	0	VA		
*DEMAND LOAD CALCULATION:						NOTES		R=RECEPTACLES: 1ST 10K:		1.00	Х	3420	=	3420	VA		
L=LIGHTING LOADS:	1.25 >	X 2	2070	=	2588 VA	- EMPT	Y LOAD: SPACE	BALANCE:		0.50	х	0	=	0	VA		
C=CONTINUOUS LOADS, OTHER:	1.25 >	X (	3100	=	3875 VA	- SHAD	ED GRAY TEXT: EXISITNG TO REMAIN	K=KITCHEN LOADS: QTY:	0	1.00	X	820	=	820	VA		
M=MOTOR LOADS (INCL LGST):	1.00 >	X 8	8960	=	8960 VA	- PROV	IDE SPLIT PHASE BERAKERS AS NECESSARY	N=NONCONTINUOUS LOADS, OTHER	R:	1.00	Х	2900	=	2900	VA		
LARGEST, VA:	0.25 >	X	0	=	0 VA			(P=PANEL, INCL. IN ABOVE)		AL N.E.C.			=			74.5 /	AMPERES
R=RECEPTACLES: 1ST 10K:	1.00 >	x :	3420	=	3420 VA												
BALANCE:	0.50	Х	0	=	0 VA												
K=KITCHEN LOADS: QTY: 0	1.00	X	820	=	820 VA												
N=NONCONTINUOUS LOADS, OTHER:	1.00	X 6	6100	=	6100 VA												
(P=PANEL, INCL. IN ABOVE)	TOTAL N.E.C. DE	MAND L	OAD	=	25763 VA	= 107.3	AMPERES										

# LIGHTING FIXTURE SCHEDULE

	LAMP	VOLT	WATT
CORE LIGHTING ALP-230N	LED	120	3W/FT
LE FOR OUTDOOR LIGHTS, MANUFACTURER TBD	LED	120	15W
F, DIMMABLE	LED	120	20W
JTES BATTERY PACK SERIES OR EQUIVALENT		120	
TERY PACK		120	

FIXTURES SHALL HAVE APPROPRIATE U.L. LABEL (i.c., DAMP OR WET) AS REQUIRED BY CODES AND ORDINANCES. FIXTURES SHALL INCLUDE ALL ACCESSORIES FOR INSTALLATION ACCORDING TO MANUFACTURER'S SHOP

PRIOR TO ORDERING ANY LIGHTING EQUIPMENT, THE CONTRACT OR SHALL COORDINATE ALL FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND CEILING CAVITY DEPTHS. ALL LAMPS SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE ATTACHED FIXTURE SCHEDULE AND SPECIFICATIONS. ENSURE COMPATIBILITY BETWEEN FIXTURE, LAMP(S) AND BALLAST(S). CONTRACTOR SHALL VERIFY FIXTURE VOLTAGES AND CEILING TRIM COMPATIBILITY PRIOR TO ORDERING

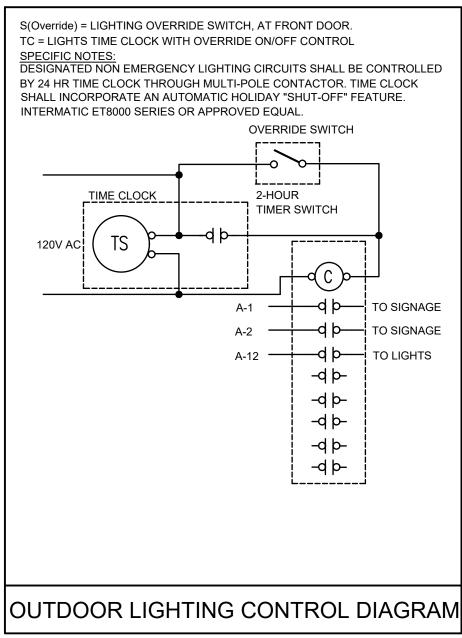
PROVIDE APPROVED FIRE-RATED ENCLOSURES FOR ALL LIGHTING FIXTURES LOCATED IN FIRE-RATED CEILINGS. LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE ALL NECESSARY HARDWARE AS REQUIRED BY THE SPECIFICATIONS, DRAWINGS, AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION. ALL FIXTURES SHALL BE ORDERED WITH APPROPRIATE BALLAST(S) THAT HAVE U.L. AND CBM LABELS. ALL BALLASTS MUST CONFORM TO IECC REQUIREMENTS FOR PERFORMANCE. PROVIDE MULTIPLE BALLASTS FOR

0. ENSURE COMPATIBILITY OF ALL LIGHTING SYSTEM COMPONENTS, ESPECIALLY DIMMED SYSTEMS. FIXTURES, LAMPS, BALLST(S), AND DIMMING SYSTEMS/INDIVIDUAL CONTROLS MUST BE FACTORY CERTIFIED COMPATIBLE

PROVIDE CLEARANCES FROM COMBUSTIBLES, A MINIMUM OF " (OTHER THAN AT POINTS OF 4 SUPPORT) AND 3"

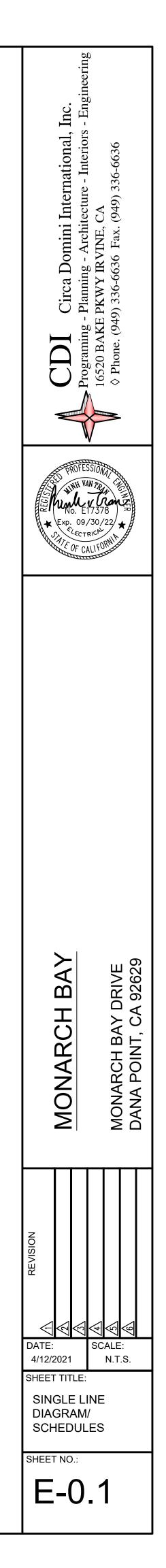
### **EMERGENCY EXIT ILLUMINATION NOTES:**

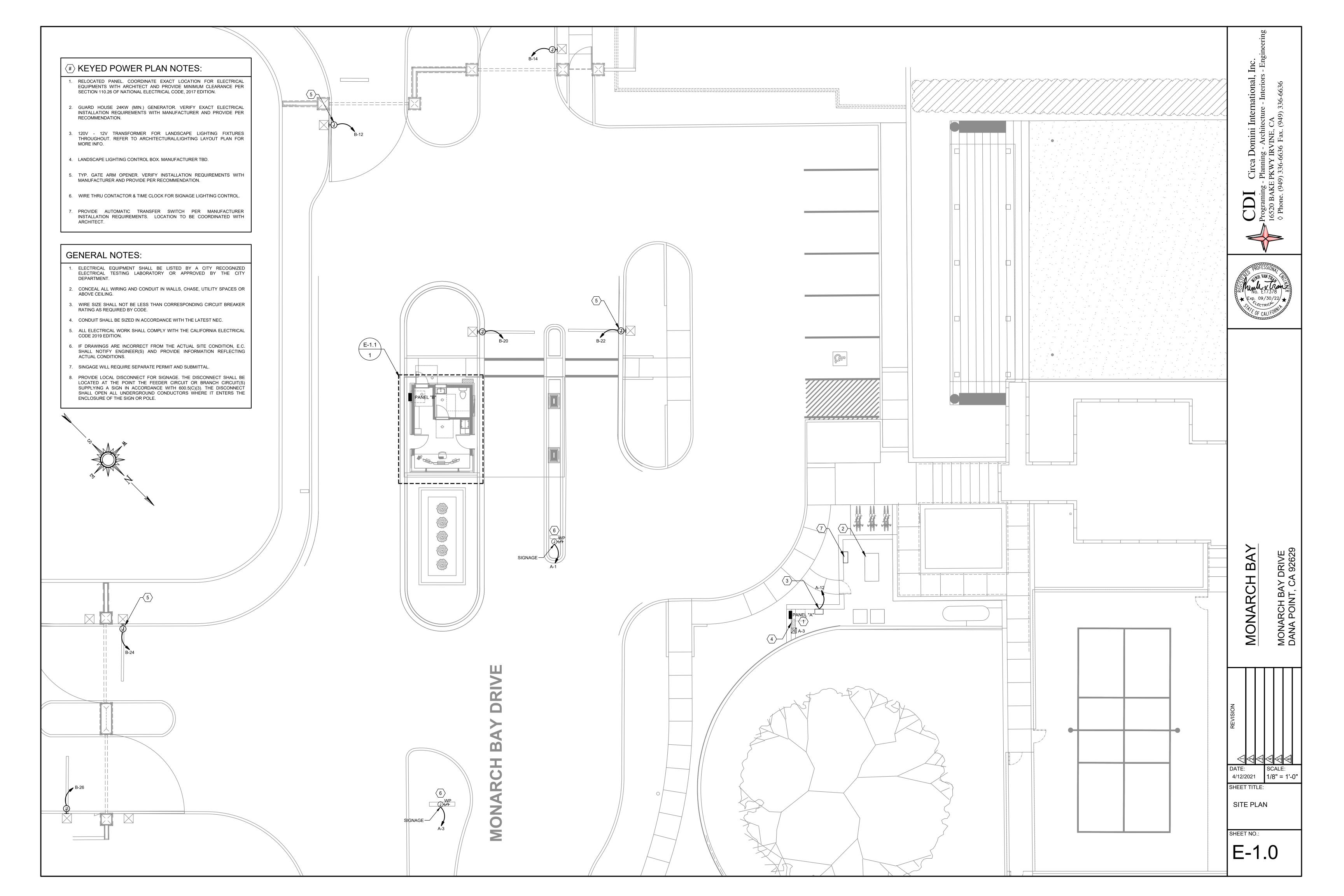
- FIXTURES WITH 90 MIN. EMERGENCY BATTERY BACKUP SHALL BE WIRED AHEAD OF ANY LOCAL IN COMPLIANCE WITH NEC ARTICLE 700.
- 2. EMERGENCY LIGHTING UNITS SHALL BE EQUIPPED WITH FACTORY INSTALLED INTEGRAL TEST SWITCHES.
- 3. ILLUMINATION LEVELS IN THE ENTIRE EXIT ACCESS SHALL HAVE AVERAGE MINNIMUM OF 1FT CANDLE, ILLUMINATION LEVELS AT ANY ONE POINT SHALL BE AT LEAST 0.1FT CANDLE AND MAX TO MIN UNIFORM RATIO OF 40 PER CFC1008.3.5.
- THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 2702. CBC 1008.3.4.
- EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES. TO ENSURE CONTINUED ILLUMINATION FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS, THE SIGN ILLUMINATION MEANS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM PROVIDED FROM STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH CHAPTER 27.
- 6. EXIT AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL; PATH OF EGRESS TRAVEL TO EXITS AND WITHIN EXITS SHALL BE MARKED BY READILY VISIBLE EXIT SIGN TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL; INTERVENING MEANS OF EGRESS DOORS WITH EXITS SHALL BE MARKED BY EXIT SIGNS. CBC 1013.1.
- THE BOTTOM OF THE SIGN SHALL NOT BE LESS THAN 6 INCHES OR MORE THAN 8 INCHES ABOVE THE FLOOR LEVEL AND SHALL INDICATE THE PATH OF EXIT TRAVEL. FOR EXIT AND EXIT ACCESS DOORS, THE SIGN SHALL BE ON THE DOOR OR ADJACENT TO THE DOOR WITH THE CLOSEST EDGE OF THE SIGN OR MARKER WITHIN 4 INCHES OF THE DOOR FRAME.
- 8. TACTILE EXIT SIGNS SHALL BE PROVIDED WITH APPROPRIATE WORDS AT EXIT DOORS LEADING TO ENCLOSED EXIT STAIRWAYS AND EXIT DOORS LEADING TO OUTSIDE. CBC 1013.4.

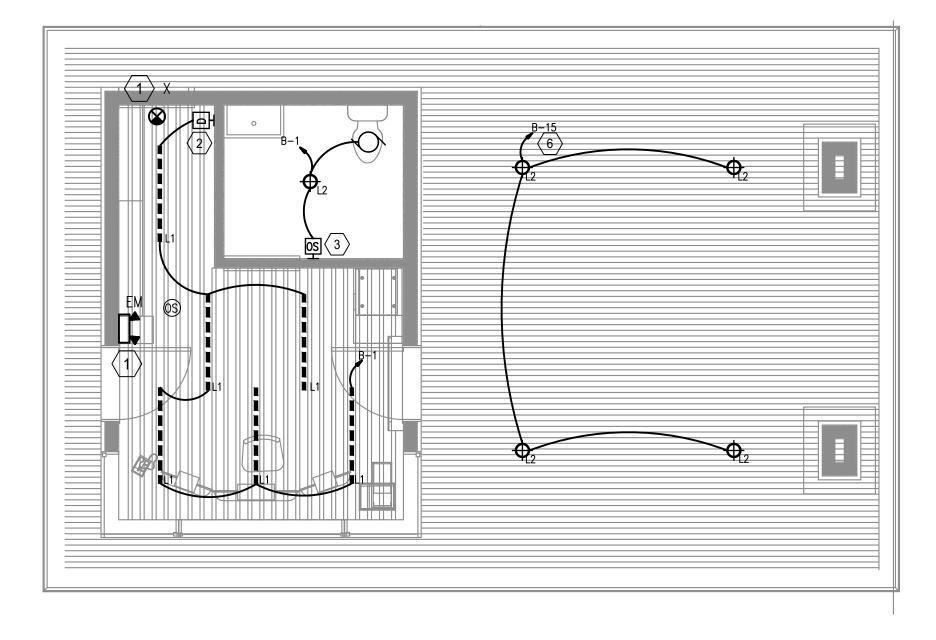


		JLIAGE	DROF							
LENGTH OF RUN										
100'	150'	200'	AMP LOAD							
10	8	6	15 AMP							
8	6	4	20AMP							
6	4	4	30 AMP							
1	2/0	4/0	100 AMP							
2/0	4/0	300	100 AMP							
3/0	300	500	200 AMP							
300	600	900	200 AMP							

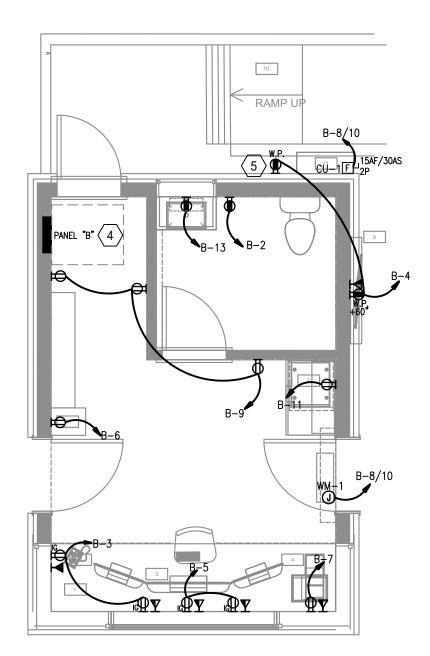
THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER CONDUCTORS AND BRANCH CIRCUIT



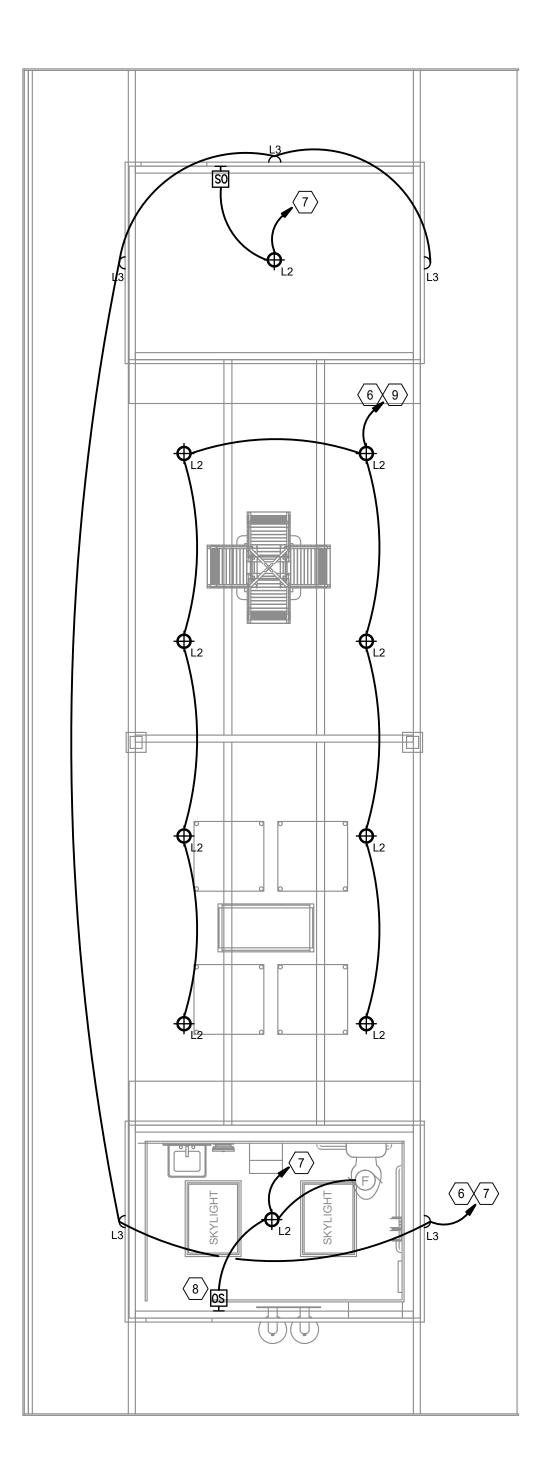




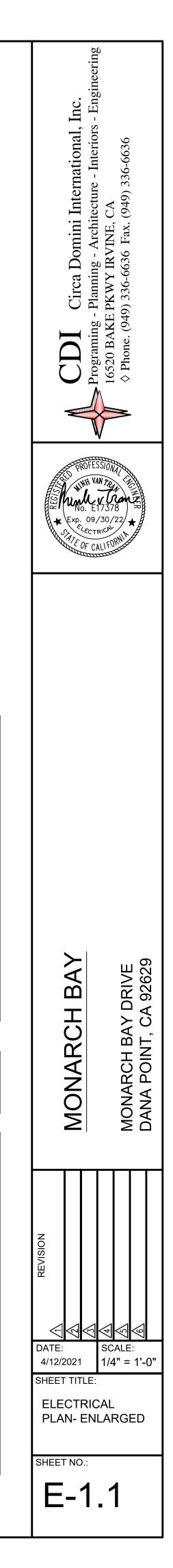
# LIGHTING PLAN - ENLARGED GUARD HOUSE



### POWER PLAN - ENLARGED GUARD HOUSE



## LIGHTING PLAN - ENLARGED PAVILION



# $\langle \# \rangle$ KEYED PLAN NOTES:

- 1. CONTRACTOR SHALL CONNECT EMERGENCY/NL AND EXIT FIXTURES TO NEARBY ROOM LIGHTING CIRCUIT AHEAD OF LOCAL SWITCH.
- 2. G.C. TO VERIFY FINAL LOCATION OF SWITCH/DIMMER BANK WITH THE OWNER'S P.M.
- INTERLOCK REST RM LIGHT WITH EXHAUST FAN. PROVIDE MANUAL MOTOR STARTER AT FAN MOTOR.
   COORDINATE EXACT LOCATION FOR ELECTRICAL EQUIPMENTS IN FIELD
- WITH G.C. AND PROVIDE MINIMUM CLEARANCE PER SECTION 110.26 OF NATIONAL ELECTRICAL CODE, 2017 EDITION.
- 5. PROVIDE GFI/WATERPROOF/WEATHER RESISTANT RECEPTACLE WITHIN 25FT OF HEATING, AC, AND REFRIGERATION EQUIPMENT.
- 6. WIRE THROUGH PHOTOCELL AND MOTION SENSOR OR ASTRONOMICAL TIME CLOCK FOR ALL EXTERIOR LIGHT FIXTURES PER 2019 BEES SEC. 130.2.
- 7. EXISTING LIGHT FIXTURES TO BE REPLACED WITH LED FIXTURES. EXISTING CIRCUIT TO REMAIN AS-IS. FIXTURE REPLACEMENT ONLY.
- 8. INTERLOCK REST RM LIGHT WITH EXHAUST FAN IF NOT ALREADY EXISTING.
- 9. NEW LIGHT FIXTURE TO BE CONNECTED TO EXISTING WALL MOUNTED LIGHTING CIRCUITS.

### NOTES:

DAYLIGHT CONTROL: COMBINED TOTAL GENERAL LIGHTING POWER IN PRIMARY SIDELIT DAYLIT ZONE IS LESS THAN 120 WATTS. NO DAYLIGHT CONTROL REQUIRED PER 2019 BUILDING ENERGY EFFICIENCY STANDARDS SECT 130.1(D)2.

## GENERAL NOTES:

- 1. CONCEAL ALL WIRING AND CONDUIT IN WALLS, CHASE, UTILITY SPACES OR ABOVE CEILING.
- 2. WIRE SIZE SHALL NOT BE LESS THAN CORRESPONDING CIRCUIT BREAKER RATING AS REQUIRED BY CODE.
- 3. CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE LATEST NEC.
- ALL ELECTRICAL WORK SHALL COMPLY WITH THE CALIFORNIA ELECTRICAL CODE 2019 EDITION.
- 5. IF DRAWINGS ARE INCORRECT FROM THE ACTUAL SITE CONDITION, E.C. SHALL NOTIFY ENGINEER(S) AND PROVIDE INFORMATION REFLECTING ACTUAL CONDITIONS.
- 6. ALL LIGHT FIXTURE TYPES, SPECIFICATIONS, AND QUANTITIES ARE TO BE COORDINATED AND VERIFIED WITH ARCHITECT/OWNER.
- 7. OBTAIN APPROVAL ON LOCATION OF SWITCH/DIMMER/SENSOR WITH ARCHITECT AND OWNER AT SITE PRIOR TO ROUGH-IN.
- 8. COORDINATE LOCATIONS/HEIGHTS OF ALL RECEPTACLES FOR ELECTRICAL DEVICES WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- PROVIDE GFI PROTECTION AT ALL 125V, 15A OR 20A RECEPTACLES WITHIN
   6' OF WATER SOURCES PER SECTION 210.8(B)(5) OF CALIFORNIA ELECTRICAL CODE, 2019 EDITION.
- 10. ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE CITY DEPARTMENT.

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1. Carl	dress: MONARCH BAY DRIVE, DANA	A POINT, CA 926	529		Date Prepared	d:			012070000	15/2020	Project Address: MO	NARCH BAY DRIVE, DANA POINT, CAS	92629
				Cont	rols Compliance (S	See Table H for	Details) COMF	LIES with Excep	tional Cor	ditions	G. MODULAR LIGH	FING SYSTEMS	
			Rated	Power Reduct	ion Compliance (S	See Table Q for	Details)	Not Applie	able		This Section Does Not	Apply	
D. EXCEP	TIONAL CONDITIONS									2	H. INDOOR LIGHTIN	IG CONTROLS (Not Including PAF	5)
This table	is auto-filled with uneditable comme	ents because of	selections made o	r data entered	in tables through	out the form.						ease include lighting controls for cond	
	an Kanananan (Kanana Kananan Kananan) Kananan (Kananan)	· · · · · · · · · · · · · · · · · · ·				• · · · · · · · · · · · · · · · · · · ·					20 20 20 20 20 20 20 20 20 20 20 20 20 2	he lighting controls section of the Con	
	door Lighting Controls Permit Applic										Building Level Contro	ls	•
	UARD HOUSE: Primary/Skylight Day	lighting: Exemp	t because less tha	n 120 watts o	f general lighting;E	XCEPTION 1 to	§130.1(d)2					01	
К	ESTROOM: RESTROOM. N/A.											Mandatory Demand Response	
Selections	made in Table T have been changed	by the permit	applicant. See Tal	ole E. Addition	al Remarks for pe	rmit applicant's	explanation.					§110.12(c)	
	5	<i>, , , , , , , , , ,</i>	AS N			1.1						Not Required ≤ 10,000 SF	
											Area Level Controls		
	IONAL REMARKS										04	05	
This table	includes remarks made by the permi	t applicant to ti	he Authority Havir	ng Jurisdiction.	8						Area Description	Complete Building or Area Catego Primary Function Area	ry Area §1
	PR LIGHTING FIXTURE SCHEDULE	The shared state of the								2	GUARD HOUSE	All Other Space Types	- Man
	ructions: Include all permanent desig	ned lighting an	d all portable ligh	ting in offices.									Man
-	Wattage: Conditioned Spaces	-r					1		Ť		RESTROOM	Restroom	- (
01	02	03	04	05	06	07	08	09	1	0	*NOTES: Controls wit	h a * require a note in the space belo	w explaini
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture e & Color Change <sup>1</sup>	Watts per luminaire²	How Wattage is determined	Total number luminaires	Exempt per <u>§140.6(a)3</u>	Design Watts	Field In Pass	spector Fail		nary/Skylight Daylighting: Exempt be	
L1	LED STRIP LIGHT FIXTURE			3	Mfr. Spec <sup>2</sup>	24		72			GUARD HOUSE	Primary/Skylight Daylighting: Exem	ot becaus
L2	LED RECESSED DOWNLIGHT			13	Mfr. Spec <sup>2</sup>			13			RESTROOM	RESTROOM. N/A.	
		Land	Louised		Total Designe	d Watts CONDI	TIONED SPACES	5: 85					
							Reset	Add Row	Remo	e Last			
<sup>1</sup> FOOTNO	TE: Design Watts for small aperture	and color chand	aina luminaires wł	nich aualify pe	r §140.6(a)4B is ac	diusted to be 75	% of their rated	wattage. Table	Fautoma	tically		R ALLOWANCE: COMPLETE BUILD	
makes thi	s adjustment, the permit applicant sl	hould enter full	rated wattage in a	column 05.								mplete the table for each area comply	
	y Having Jurisdiction may ask for Lun	ninaire cut shee	ts to confirm wat	tage used for a	compliance per <u>§1.</u>	3 <mark>0.0(c)</mark> Wattage	e used must be t	the maximum rat	ed for the		and the second s	<u>6(c)</u> or adjustments per <u>§140.6(a)</u> are	being use
luminaire,	not the lamp.										Conditioned Spaces		
CA Building	Energy Efficiency Standards - 2019 Non	residential Comp	liance: <u>http://www</u> .	energy.ca.gov/t	itle24/2019standard	ds			Janu	ary 2020	CA Building Energy Effic	iency Standards - 2019 Nonresidential Co	mpliance:
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Indoor	Lighting										Indoor Lighting		
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2-2 13 0000 12-00 You	me: MONARCH BAY				Report Page:					ge 5 of 7	Project Name: MO		
Project Ad	dress: MONARCH BAY DRIVE, DANA	A POINT, CA 926	529		Date Prepare	d:			9,	15/2020	Project Address: MO	NARCH BAY DRIVE, DANA POINT, CA	92629

R. 80% LIGHTING POWER FOR ALTERATIONS - CONTROLS EXCEPTIONS This Section Does Not Apply S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF) This Section Does Not Apply T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://ww2.energy.ca.gov/ title24/2019standards/2019\_compliance\_documents/Nonresidential\_Documents/NRCI/ Field Inspector YES NO Form/Title Pass Fail O NRCI-LTI-01-E - Must be submitted for all buildings NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be • recognized for compliance. NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance. NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance. NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance. 

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/title24/2019standards

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Project Add	ress: MON	IARCH BAY DRIVE, DANA POINT, CA 92629
U. DECLAR	ATION OF	REQUIRED CERTIFICATES OF ACCEPTANCE
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Table E. Add	litional Ren	narks. These documents must be provided to the
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CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <u>h</u>

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Reset       Add Row       Remove Last         TE BUILDING OR AREA CATEGORY METHODS       Image: Complete Building or Area Category Methods per §140.6(b).       Indicate if additional lighting power         10.6(a) are being used.       Image: Complete Building or Area Category Methods per §140.6(b).       Indicate if additional lighting power	No. E17378 Exp. 09/30/22
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02 Climate				640.4	6		•• ••		(8111)				
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Hardscape		Per blication +	Sales Frontage	e +	Ornamental	+ Per Spec	ific OF	Existing R Power =	Total Allowed	≥	Total Actual		
Allowance §140.7(d)1	81/	10.7(d)2	§140.7(d)		<u>§140.7(d)2</u>	§140.7(	4.27	§141.0(b)2L	(Watts)		(Watts)	07 M	ust be≥08
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