

GENERAL NOTES

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| <p>THE DRAWINGS DESCRIBE THE SYSTEMS FURNISH ALL MATERIAL AND DO ALL WORK REQUIRED AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL MATERIALS, EQUIPMENT AND FINISHES AND FOR THE PROPER INSTALLATION AND CONNECTIONS REQUIRED TO PROVIDE A COMPLETE OPERATING SYSTEM. ALL WORK SHALL COMPLY WITH 2022 EDITION OF THE CALIFORNIA ELECTRICAL CODE (BASED ON 2020 NEC).</p> | <p>USE CONDUCTORS WITH THINWALL 600 VOLTS INSULATION FOR SIZES #6 AWG AND SMALLER, UNLESS OTHERWISE NOTED. CONSULTORS #4 AWG AND LARGER SHALL BE THIN INSULATION, UNLESS OTHERWISE NOTED.</p> |
| <p>2. CODES AND PERMITS: ALL ELECTRICAL EQUIPMENT, INSTALLATION, ETC. SHALL CONFORM TO 2022 CITY CODES INCLUDING CALIFORNIA TITLE 24, CONSTRUCTION SHALL CONFORM WITH THE FOLLOWING PARTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR):</p> | <p>40. DELIVER ALL CONDUCTORS TO THE JOB SITE IN ORIGINAL UNBROKEN CARTON OR REEL, PROPERLY TAGGED WITH U.L. LABEL, SIZE, MANUFACTURER'S TRADE NAME AND THE DATE MANUFACTURED.</p> |
| <p>2. TITLE 24 PART 3, CCR (2022 CALIFORNIA BUILDING CODE)
TITLE 24 PART 3, CCR (2022 CALIFORNIA ELECTRICAL CODE)
TITLE 24 PART 4, CCR (2022 CALIFORNIA MECHANICAL CODE)
TITLE 24 PART 4, CCR (2022 CALIFORNIA PLUMBING CODE)
TITLE 24 PART 4, CCR (2022 CALIFORNIA MECHANICAL CODE)
CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS & INSPECTIONS.</p> | <p>41. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN WORK AREA CLEAR OF DEBRIS ON DAILY BASIS DURING CONSTRUCTION.</p> |
| <p>3. PROVIDE AND INSTALL ALL MATERIALS IN CONFORMANCE WITH 2022 CALIFORNIA ELECTRICAL CODE (BASED ON 2020 NEC) WITH THE CITY OF TORRANCE AMENDMENTS, ORDINANCES AND LOCAL AUTHORITIES HAVING JURISDICTION. INSTALL ALL EQUIPMENT IN CONFORMANCE WITH THE SPECIFICATIONS OF THE INSPECTING AUTHORITY AND THE MANUFACTURER'S RECOMMENDATIONS.</p> | <p>42. ALL UTILITIES HOOKUPS REQUIRED DURING OFF HOURS WILL BE PERFORMED BY THE CONTRACTOR AT NO ADDITIONAL COST.</p> |
| <p>4. FOR PURPOSES OF CLEARNESS AND LEGIBILITY, THE ELECTRICAL DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC. THE SIZE AND LOCATION OF EQUIPMENT IS SHOWN TO SCALE WHEREVER POSSIBLE. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS.</p> | <p>43. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN DEDICATED SPACE OF EQUIPMENT INCLUDING THE DEDICATED SPACE BETWEEN THE TOP OF EQUIPMENT TO THE STRUCTURAL CEILING ABOVE. ALL FOREIGN INSTALLATION WITHIN THE SPACE (I.E. FIRE SPRINKLER, ETC) SHALL BE INSTALLED IN ACCORDANCE WITH CEC 2022 11026(F)(16).</p> |
| <p>5. THE SYMBOLS DESIGNATING CONDUIT SIZES AND QUANTITIES OF BRANCH CIRCUIT WIRING DO NOT INCLUDE THE EQUIPMENT GROUNDING CONDUCTOR REQUIRED. INSTALL REQUIRED EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS. SIZE PER CEC 250-122. EQUIPMENT GROUNDING CONDUCTOR SHALL BE GREEN.</p> | <p>44. IDENTIFY DATA & COMMUNICATION PULL ROPE OR CABLE AT BOTH ENDS DESIGNATING OPPOSITE TERMINATIONS.</p> |
| <p>6. BEFORE SUBMITTING, BECOME THOROUGHLY FAMILIAR WITH ACTUAL EXISTING CONDITIONS AT THE BUILDING. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREIN. BY THE ACT OF SUBMITTING A BID PROPOSAL FOR WORK, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH A STUDY AND EXAMINATION AND TO ACCEPT ALL CONDITIONS PRESENT AT THE SITE. NO REQUEST FOR ADDITIONAL PAYMENT SHALL BE CONSIDERED AS VALID. DUE TO FAILURE TO ALLOW FOR CONDITIONS WHICH MAY EXIST.</p> | <p>45. USE PLASTIC COATED SELF-STICKING MARKERS SUCH AS THOMAS & BETTS E-Z COLOR FOR IDENTIFICATION OF CONDUCTORS AND METAL EDGE BANDS PAPER GLAZED ON PULL ROPES.</p> |
| <p>7. REFER TO ALL DRAWINGS FOR ADDITIONAL INFORMATION. EXACT EQUIPMENT LOCATION, MOUNTING HEIGHTS, MOUNTING REQUIREMENTS AND MAKE ALL FINAL ELECTRICAL CONNECTIONS TO ALL ELECTRICAL EQUIPMENT AS REQUIRED.</p> | <p>46. PROVIDE A TYPE WRITTEN PANELBOARD DIRECTORY.</p> |
| <p>8. LOCATIONS OF CEILING MOUNTED DEVICES SHOWN ON THE ARCHITECTURAL DRAWINGS NOT IN PRECEDENCE OVER THOSE SHOWN ON THE ELECTRICAL DRAWINGS. CONTRACTOR TO COORDINATE WITH OTHER TRADES FOR ADDITIONAL INFORMATION. EQUIPMENT LOCATION, MOUNTING HEIGHTS, MOUNTING REQUIREMENTS AND MAKE FINAL CONNECTIONS TO ALL ELECTRICAL EQUIPMENT.</p> | <p>47. FIRE ALARM SYSTEM SHALL BE DESIGN BUILD. DEFERRED APPROVAL.</p> |
| <p>9. CONTRACTOR'S BID SHALL BE BASED ON ALL WORK SHOWN ON THE PLANS AND SPECIFICATIONS. ALL PREMIUM TIME COSTS REQUIRED SHALL BE INCLUDED IN HIS BID. IF CONTRACTOR PROPOSES TO SUBSTITUTE FOR EQUIPMENT SPECIFIED, HE SHALL SUBMIT HIS REQUEST FOR CONSIDERATION TO THE OWNER AND ENGINEER PRIOR TO THE BID. IN WRITING. ALL SUBSTITUTIONS MUST BE REVIEWED BY THE ENGINEER. SUCH REVIEW SHALL NOT RELIEVE CONTRACTOR OF HIS OBLIGATION TO COMPLY WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE AT HIS OWN EXPENSE FOR ANY CHANGES RESULTING FROM HIS OWN OR OTHER SUBSTITUTIONS WHICH MAY AFFECT OTHER PARTS OF HIS WORK OR THE WORK OF OTHER CONTRACTORS.</p> | <p>48. ALL RECEPTACLES SHALL BE INSTALLED WITH GROUND PLUG UP.</p> |
| <p>10. CONTRACTOR TO PROVIDE TEMPORARY ELECTRICAL SERVICE SUITABLE TO CONDUCT CONSTRUCTION WORK.</p> | <p>49. ELECTRICAL EQUIPMENT SHALL BE LISTED BY A CITY OF TORRANCE RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE DEPARTMENT OF BUILDING AND SAFETY.</p> |
| <p>11. REFER TO REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES, SMOKE DETECTORS AND FIRE ALARM DEVICES.</p> | <p>50. MC CABLES SHALL BE INSTALLED AND USED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 330 OF THE N.E.C.</p> |
| <p>12. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BEAR THE UNDERWRITERS LABEL (UL) AND BE INSTALLED IN THE MANNER FOR WHICH THEY ARE DESIGNED AND APPROVED.</p> | <p>51. ALL EQUIPMENT AND DEVICES INSTALLED OUTDOOR SHALL BE WEATHERPROOF AND IN NEMA ENCLOSURE.</p> |
| <p>13. ANY SUBSTITUTIONS OF SPECIFIED MATERIALS REQUIRE WRITTEN NOTIFICATION BY THE CONTRACTOR AND FORMAL APPROVAL BY OWNER REPRESENTATIVE AND/OR THE ENGINEER.</p> | <p>52. ALL 120 VOLT, 15 AND 20 AMPERE RECEPTACLES SHALL BE LISTED TAMPER-RESISTANT RECEPTACLES PER CEC 406.12.</p> |
| <p>14. SEAL ALL NEW CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS, FLOORS, ETC., TO MAINTAIN EXISTING FIRE RATING CONDITIONS. FURNISH AND INSTALL FIRE RATED ENCLOSURES FOR ALL EQUIPMENT PENETRATING INTO FIRE RATED ENVELOPES, SPACES, ETC.</p> | <p>53. PROVIDE ILLUMINATED EXIT SIGNS PER 2022 C.B.C. (MAXIMUM SPACING IS 100 FT AND VISIBLE FROM ALL ENTRIES).</p> |
| <p>15. WHENEVER CONDUITS PENETRATE A PERIMETER WALL, IT IS TO BE SEALED IN AN APPROVED MANNER.</p> | <p>54. EACH OUTLET IN THE BATHROOM AND TWO SMALL APPLIANCE CIRCUIT IN THE KITCHEN COUNTER SHALL BE GFCI TYPE.</p> |
| <p>16. PROVIDE AN ENCLOSURE OF EQUAL FIRE RESISTANT RATING ABOVE ALL FIXTURES AND EQUIPMENT INSTALLED IN OR PENETRATING THROUGH FIRE RATED SEPARATIONS.</p> | <p>55. SHOP DRAWINGS AND SUBMITTALS:
A. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT AND DEVICES TO BE PROVIDED IN THE PROJECT FOR ENGINEERS REVIEW AND APPROVAL. SELECTED EQUIPMENT SHALL BE MARKED-UP IN THE CUT SHEETS INDICATING THE ELECTRICAL SPECIFICATIONS/REQUIREMENT (I.E. VOLTAGE, AMPS, FLA, HP) AND ALL OTHER OPTIONS.</p> |
| <p>17. OUTLET BOXES AND PANELS INSTALLED IN FIRE RATED WALLS AND CEILINGS SHALL NOT EXCEED 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL OR CEILING AREA. INDIVIDUAL OUTLET BOXES OR FIXTURES SHALL BE STEEL AND NOT GREATER THAN 16 SQUARE INCHES.</p> | <p>B. CONTRACTOR SHALL PROVIDE A WRITTEN STATEMENT THAT HE/SHE HAS READ AND UNDERSTAND THE DOCUMENTS BEING SUBMITTED.</p> |
| <p>18. ALL ROOF PENETRATIONS SHALL BE THROUGH ROOF CURB.</p> | <p>56. THE CONTRACTOR SHALL ANTICIPATE THE NORMAL SHRINKAGE OF THE WOOD FRAMING BOTH DURING CONSTRUCTION AND FOR A PERIOD OF TIME THEREAFTER. IN ORDER TO PREVENT CRACKING, SELECTED EQUIPMENT SHALL BE MARKED-UP IN THE CUT SHEETS TAKEN DURING INSTALLATION OF PLUMBING LINES, GAS LINES AND OTHER ELEMENTS WHICH WOULD BE ADVERSELY AFFECTED BY SHRINKAGE.</p> |
| <p>19. ISOLATED EQUIPMENT GROUNDING CONDUCTOR INSULATION SHALL BE GREEN WITH A YELLOW STRIPE. EQUIPMENT GROUNDING CONDUCTOR SHALL BE GREEN.</p> | <p>A. RAFTERS, JOISTS AND PLATES SHALL BE "S" DRY MATERIAL THROUGHOUT.</p> |
| <p>20. ALL DEVICES INSTALLED OUTSIDE OR SUBJECT TO WATER SPRAY SHALL BE APPROVED FOR WET LOCATION. ALL DEVICES SUBJECT TO VAPORS, STEAM AND MOISTURE SHALL BE APPROVED FOR DAMP LOCATION. FOR WALL MOUNTED OUTLETS EXACT LOCATION AND MOUNTING HEIGHTS, REFER TO ARCHITECTURAL DRAWINGS INTERIOR ELEVATIONS IF PROVIDED.</p> | <p>B. PROVIDE SWING JOISTS ON BRANCHES CONNECTING TO RISERS.</p> |
| <p>21. INSTALL "ANY GFCI" GROUND FULT INTERRUPTER RECEPTACLES WITHIN 6 FEET OF A SINK OR ANY AREA SUBJECT TO WATER SPRAY.</p> | <p>C. VALVES CONNECTING TO RISERS SHALL BE OF COPPER TUBING INSTALLED SO AS TO PERMIT MOVEMENT OF THE STRUCTURE.</p> |
| <p>22. INSTALL "GFCI" GROUND FULT INTERRUPTER RECEPTACLES WITH WEATHERPROOF COVER ON ROOF WITHIN 25 FEET OF "HVAC" EQUIPMENT. MUST RECEPTACLE ON UNUNIT SUPPORT.</p> | <p>D. WHEN PASTER, DRYWALL OR TILE IS INSTALLED ABOVE HORIZONTAL PIPING PROVIDE FOR MOVEMENT BY PROVIDING CLEAR SPACE TO PIPE LINES TO PERMIT DOWNWARD MOVEMENT OF STRUCTURE.</p> |
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TERMS AND ABBREVIATIONS

ABBR	SYMBOL
@	AT
A	AMPERES
A.F.F.	ABOVE FINISHED FLOOR
APPARATUS	INDICATES SWITCHGEARS, DISTRIBUTION BOARDS, TRANSFORMERS, ETC.
BKBD	BACKBOARD
CB	CIRCUIT BREAKER
CEC	CALIFORNIA ENERGY COMMISSION
CKT	CIRCUIT
C.O.	CONDUIT ONLY
Ø	PHASE OR DIAMETER
DN	DOWN
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC OR ELECTRICAL
EM	EMERGENCY
EQUIP.	EQUIPMENT
EXIST.	EXISTING
FA	FIRE ALARM
FDR.	FEEDER, INDICATES CONDUIT AND CONDUCTORS
FLA	FULL LOAD AMPERES
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
AFCI	AFCI FAULT CIRCUIT INTERRUPTER
GND	GROUND
JB	JUNCTION BOX
KVA	KILOVOLT AMPERES
KW	KILOWATT
LOC	LOCATION
LTG	LIGHTING
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MTD	MOUNTED
MTG	MOUNTING
NA	NOT APPLICABLE
NF	NON FUSIBLE
N.L.	NIGHT LIGHT
N.T.S.	NOT TO SCALE
PB	PULLBOX
PNL	PANEL
PROVIDE	INDICATED ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL
PWR.	POWER
REC. OR RECEPT.	RECEPTACLE
REQ'D	REQUIRED
SQ FT /SF	SQUARE FEET
STD.	STANDARD
SW.	SWITCH
SWBD	SWITCHBOARD
SYS.	SYSTEM
TEL	TELEPHONE
TRANSF.	TRANSFORMER
Typ.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V	VOLT
VA	VOLT AMPERES
VFD	VARIABLE FREQUENCY DRIVE (HP RATED PER MOTOR SIZE)
VD	VOLTAGE DROP
VERT.	VERTICAL
W	WATTS OR WIRE OR WIDE
WP	WEATHERPROOF
N.I.C	NOT IN CONTRACT
E	WHEN SHOWN ADJACENT TO CIRCUIT DESIGNATION INDICATES EXISTING TO REMAIN.
N	WHEN SHOWN ADJACENT TO CIRCUIT DESIGNATION INDICATES NEW INSTALLATION.

ELECTRICAL SYMBOLS LEGEND

SYMBOL	DESCRIPTION																								
	GROUND TYPE DUPLEX RECEPTACLE, 20A NEMA 5-20R, WALL MOUNTED.																								
	DOUBLE DUPLEX CONVENIENCE OUTLET, WALL MOUNTED -15' A.F.F. TO BOTTOM OF BOX (U.O.N.)																								
	GROUND TYPE DUPLEX RECEPTACLE (HALF SWITCH), WALL MOUNTED.																								
	GROUND FAULT INTERRUPTED TYPE DUPLEX RECEPTACLE, WALL MOUNTED.																								
	CEILING MOUNTED JUNCTION BOX, 4S TYPE UNLESS OTHERWISE NOTED.																								
	LED DRIVER																								
	ELECTRIC HAND DRYER																								
	TOGGLE SWITCH, "4-0"																								
	SUFFIX ON SWITCH SYMBOLS SHALL INDICATE THE FOLLOWING: NO SUFFIX = SINGLE POLE 2 = 2 POLE 3 = 3 WAY K = KEY OPERATED R = SPOT MOMENTARY CONTACT SWITCH P = WITH PILOT LIGHT a,b,c,d, ETC. INDICATES FIXTURE CONTROLLED																								
	WALL MOUNTED AUTOMATIC LIGHT MOTION SENSOR ("a,b" WHEN SHOWN INDICATE DUAL SWITCH) - SWITCH WITH PUSH ON AND AUTO OFF AS MFR. BY WATTSTOPPER OR EQUAL.																								
	WALL MOUNTED AUTOMATIC HUMIDITY MOTION SENSOR ("x" AND "h" WHEN SHOWN INDICATE INDIVIDUAL SWITCH AND HUMIDITY RESPECTIVELY) - SWITCH WITH PUSH ON AND AUTO OFF AS MFR. BY WATTSTOPPER OR EQUAL.																								
	CEILING MOUNTED AUTOMATIC LIGHT MOTION SENSOR - AUTO ON AND OFF AS MFR. BY WATTSTOPPER OR EQUAL.																								
	CEILING MOUNTED OCCUPANCY MOTION SENSOR WITH DIMMING CAPABILITY SWITCH AS MFR. LUTRON OR EQUAL.																								
	30A/2P OR 60A/2P MOTOR RATED TOGGLE TYPE DISCONNECT SWITCH TO BE MOUNTED ON HVAC/PLUMBING EQUIPMENT.																								
	FLEXIBLE CONNECTION TO EQUIPMENT.																								
	SURFACE MOUNTED CABINET OR EQUIPMENT AS NOTED.																								
	FLUSH MOUNTED CABINET OR EQUIPMENT AS NOTED.																								
	SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD.																								
	FLUSH MOUNTED BRANCH CIRCUIT PANELBOARD.																								
	SWITCHBOARD, DISTRIBUTION BOARD.																								
	CONDUIT RUN IN OR BELOW FLOOR SLAB OR UNDERGROUND - 3/2". MINIMUM.																								
	CONDUIT RUN CONCEALED IN WALL OR ABOVE FINISHED CEILING - 1/2".																								
	CONDUIT RUN EXPOSED.																								
	<table><tr><td>— 2#12, 1/2".</td><td>— 4#12, 1/2".</td><td>— 6#12, 3/4".</td></tr><tr><td>— 3#12, 1/2".</td><td>— 5#12, 3/4".</td><td>— 7#12, 3/4".</td></tr><tr><td colspan="3" style="text-align: center;">#10</td></tr><tr><td>— 2#10, 1/2".</td><td>— 4#10, 1/2".</td><td>— 6#10, 3/4".</td></tr><tr><td>— 3#10, 1/2".</td><td>— 5#10, 1/2".</td><td>— 7#10, 1".</td></tr><tr><td colspan="3" style="text-align: center;">#10</td></tr><tr><td>— 2#8, 3/2".</td><td>— 3#8, 3/2".</td><td>— 4#8, 1".</td></tr><tr><td colspan="3" style="text-align: center;">#8</td></tr></table>	— 2#12, 1/2".	— 4#12, 1/2".	— 6#12, 3/4".	— 3#12, 1/2".	— 5#12, 3/4".	— 7#12, 3/4".	#10			— 2#10, 1/2".	— 4#10, 1/2".	— 6#10, 3/4".	— 3#10, 1/2".	— 5#10, 1/2".	— 7#10, 1".	#10			— 2#8, 3/2".	— 3#8, 3/2".	— 4#8, 1".	#8		
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— 2#8, 3/2".	— 3#8, 3/2".	— 4#8, 1".																							
#8																									
	WIRE SIZE OTHER THAN #12, #10 OR #8 IS NOTED ON EACH CONDUIT RUN WITH SIZE OF CONDUIT (I.E. 3#6 - 1"). SEE GENERAL NOTE #42.																								
	EMERGENCY LIGHTING SYSTEM BRANCH CIRCUITRY CONDUIT RUN.																								
#10	HASH MARKS INDICATES THE QUANTITY OF CONDUCTORS REQUIRED. NO HASH MARKS INDICATES 2 #12 AWG. CONDUCTORS LARGER THAN SIZE #12 AWG ARE INDICATED NEXT TO HASH MARKS.																								
	INDICATE HOMERUN TO DESIGNATED PANEL BOARD, SWITCH GEAR, OR SIGNAL CABINET																								
	WHEN SHOWN INDICATE THE FOLLOWING: BRANCH CIRCUIT NUMBERS HOUSE PANEL OR DISTRIBUTION PANEL																								
	INDICATES REFERENCE TO PANELBOARD 'P1A'.																								
	ELECTRICAL FEEDER DESIGNATION.																								
	EXHAUST FAN.																								
	SIGNAL SYSTEM COMMUNICATION BACKBOARD DESIGNATION.																								
	REFERENCE NOTE DESIGNATION.																								
	METERING AND TEST BLOCKS AS REQUIRED BY THE UTILITY SERVING AGENCY.																								
	CIRCUIT BREAKER.																								
	GROUND.																								
NOTE: FOR ADDITIONAL SYSTEM SYMBOLS AND WIRING LEGEND REFER TO SITE PLANS AND RISER DIAGRAMS.																									

NON-RESIDENTIAL GREEN BUILDING CODE NOTES

1. OUTDOOR LIGHTING SYSTEMS SHALL BE DESIGNED AND INSTALLED TO COMPLY WITH ALL OF THE FOLLOWING:
 - a. THE MINIMUM REQUIREMENTS IN CALIFORNIA ENERGY CODE FOR LIGHTING ZONES 1-4.
 - b. BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS AS DEFINED IN IESNA TM-15-11
 - c. ALLOWABLE BUG RATINGS NOT EXCEEDED THOSE SHOWN IN ON TABLE 5.106.8
2. A SEPARATE ELECTRICAL PLAN CHECK IS REQUIRED TO VERIFY THE RACEWAY METHOD(S), WIRING SCHEMATICS AND ELECTRICAL CALCULATIONS FOR THE ELECTRICAL CHARGING SYSTEM. THE RACEWAY SHALL NOT BE LESS THAN THE TRADE SIZE 1.

ACOUSTIC NOTES

1. THERE SHALL BE NO CONTACT BETWEEN ANY SERVICE PENETRATING THE GYPSUM BOARD AND THE GYPSUM BOARD. A GAP SHALL BE MAINTAIN AND SEALED. THIS INCLUDES ALL SERVICES (INCLUDING ELECTRICAL, MECHANICAL AND PLUMBING). THE SEALANT SHALL BE NON-HARDENING.
2. THERE SHALL BE NO CONTACT BETWEEN ANY PENETRATIONS, LIGHT CANS, DUCT RUNS, EXHAUSTS, ETC. AND THE CEILING (ANY LAYER OF MATERIAL). GYPSUM BOARD RECESSED BOXES SHALL NOT BE IN CONTACT WITH CEILING GYPSUM BOARD. GYPSUM BOARD ENCLOSURES SHALL BE INSTALLED FOR EACH ITEM INDIVIDUALLY (E.G. MULTIPLE LIGHTS CANS CANNOT BE IN THE SAME GYPSUM BOARD ENCLOSURE).
3. ELECTRICAL BOXES SHALL BE OFFSET AS REQUIRED IN THE CODE IN DEMISING CONSTRUCTION.
4. ELECTRICAL BOX PADS SHALL BE INSTALLED BEHIND ALL ELECTRICAL BOXES IN DEMISING WALL, CORRIDOR WALL AND FLOOR CEILING ASSEMBLIES. ELECTRICAL BOX PADS SHALL COMPLETELY WRAP THE ELECTRICAL BOXES AND EXTEND TO THE BACK OF THE STRUCTURE OF BUILDING MATERIAL.
5. IN A DEMISING WALL CONDITION, CONDUIT (AND ALL OTHER SERVICES INCLUDING MECHANICAL, ELECTRICAL AND PLUMBING) SHALL BE RUN ON THE STUD SIDE SERVED.
6. IN DEMISING WALL, NO SERVICE, WIRE OR CONDUIT SHALL BE INSTALLED INTO THE AIR SPACE BETWEEN THE STUDS.
7. CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE FLEXIBLE CONDUIT.

SCOPE OF WORK

1. THE WWII INTERNMENT CAMP MONUMENT IS LOCATED AT 4045 190TH STREET TORRANCE, CA 90504.
2. ALL MEMORIAL LIGHTS WILL BE CIRCUITED TO THE EXISTING 200A, 277/480V PANEL AT 18727 PRAIRIE AVE.
3. ALL LIGHTS IN THE NEW BATHROOM AREA TO CONNECTED TO THE EXISTING 120/240V, 1# PANEL.

ELECTRICAL SHEET INDEX

Sheet Number	Sheet Title	Current Issue
E0.01	ELECTRICAL GENERAL NOTES, SYMBOLS LEGEND & SHEET INDEX	BID SET
E0.02	ELECTRICAL SCHEDULES	BID SET
E1.00	ELECTRICAL SITE PLAN	BID SET
E1.10	ELECTRICAL SITE LIGHTING PLAN	BID SET
E4.01	SINGLE LINE DIAGRAM & PANEL SCHEDULES	BID SET

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STAMP



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DESIGNED BY	JVILLEGAS
CHECKED BY	DMAHONY
APPROVED BY	DMAHONY

REGULATORY APPROVALS

DRAWING ISSUANCE

[illegible]

PROJECT NAME

WWII JAPANESE AMERICAN INCARCERATION MONUMENT

4045 190TH STREET
TORRANCE, CA 90504

TITLE

ELECTRICAL
GENERAL NOTES,
SYMBOLS LEGEND &
SHEET INDEX

PROJECT

2024-16

SCALE
NONE

SHEET NUMBER

E0.01

ORIGINAL SIZE: 30"x42"

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DESIGNED BY	JVILLEGAS
CHECKED BY	DMAHONY
APPROVED BY	DMAHONY

DRAWING ISSUANCE

[illegible]

WWII JAPANESE AMERICAN INCARCERATION MONUMENT

TITLE
ELECTRICAL SITE
PLAN

€1.00

CSAO, INC.



OVERALL SITE PLAN

SCALE:
1/32" = 1'-0"

1

DATE PLOTTED:	3/19/2026 8:03 AM	BY:	FITA TUTOE	LAST SAVED:	RGONZALES	FILE NAME:	H:\PROJECTS\668 TWA CHEE LANDSCAPE STUDIO\25-001 WORLD WAR II CAMP WALL MONUMENT AT COLUMBIA PARK\01 - CAD\B ELECTRICAL\1.00 ELECTRICAL SITE PLAN.DWG
ORIGINAL SIZE:	ARCH/FULL BLEED E1 (30.00 X 42.00 INCHES)	PLOT SCALE:	1:1	PLOT STYLE:	BREFN DESIGN GROUP STR		

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- ① PROVIDE HEVI LITE DIRECT BURIED DRIVER "H-POD-L35-277-LL-JB4" FOR POWER FEED TO LIGHT FIXTURE TYPE "LL1". REFER TO MANUFACTURE REQUIREMENTS FOR INSTALLATION.
- ② PROVIDE 34W LED DRIVER FOR TYPE LG1 EXTERIOR LIGHT FIXTURE. REFER TO LED DRIVER MANUFACTURER SPECIFICATION PRIOR TO INSTALLATION.

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DRAWN BY	FTUTOE
DESIGNED BY	JVILLEGAS
CHECKED BY	DMAHONY
APPROVED BY	DMAHONY

DRAWING ISSUANCE

[illegible]

PROJECT NAME

WWII JAPANESE
AMERICAN
INCARCERATION
MONUMENT

4045 190TH STREET
TORRANCE, CA 90504

TITLE
ELECTRICAL SITE
LIGHTING PLAN

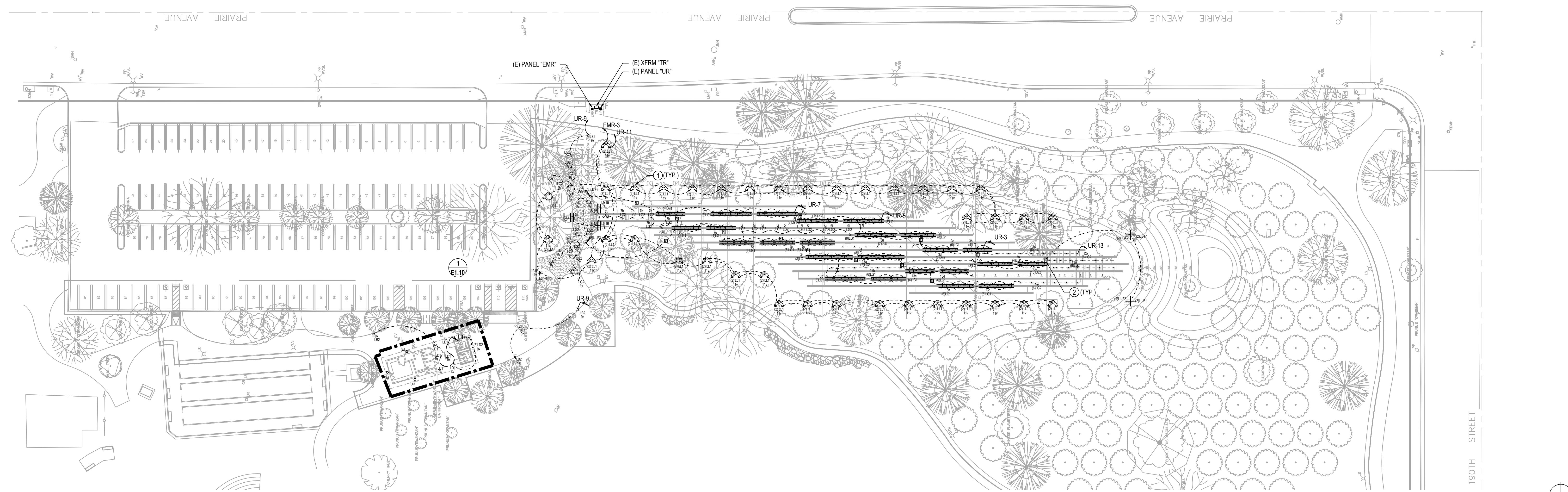
PROJECT
2024-16
SCALE

SHEET NUMBER

E1.10

ORIGINAL SIZE: 30"x42"

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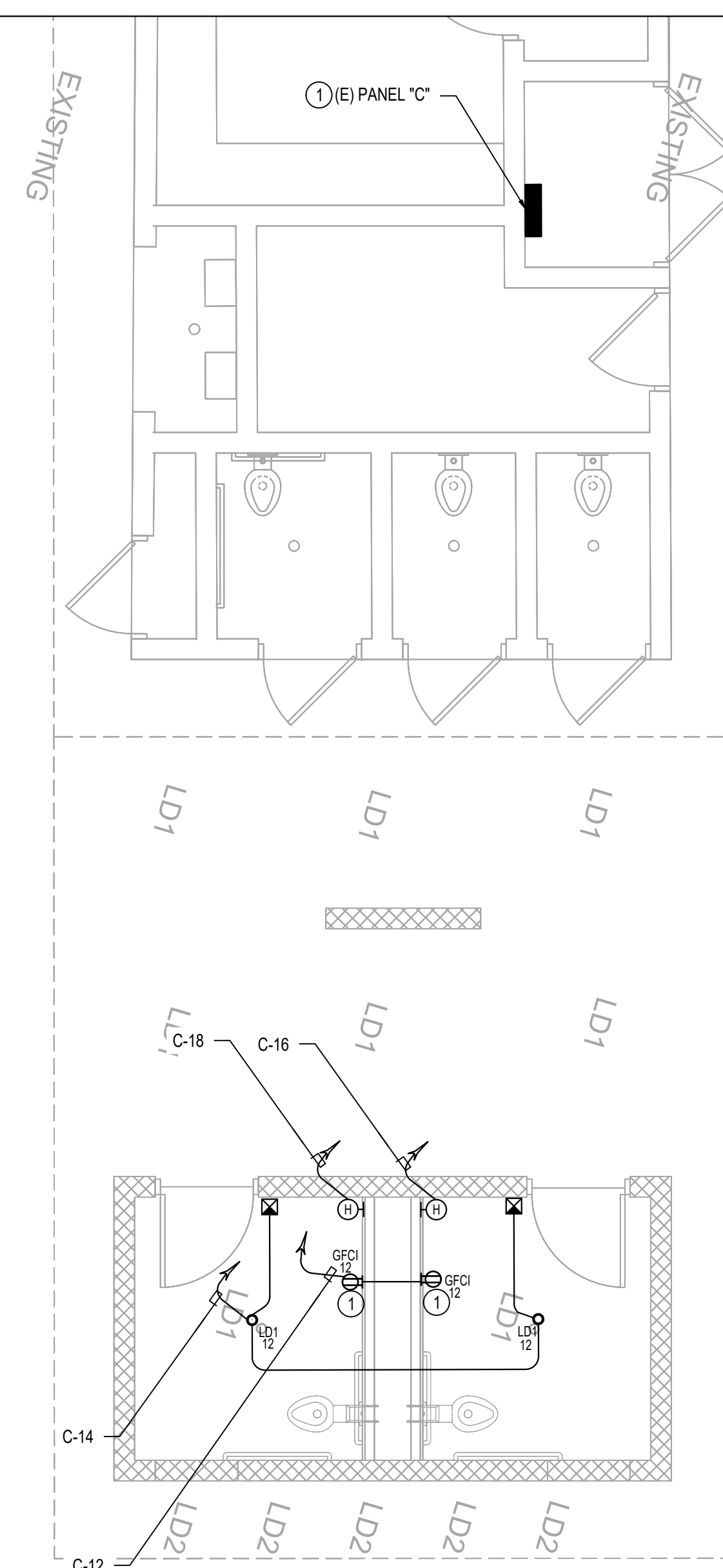


SITE LIGHTING PLAN

SCALE:
1/32" = 1'-0"

3

- ① BATHROOM RECEPTACLE SHALL BE GROUND FAULT CIRCUIT INTERRUPTED TYPE AND SHALL BE MOUNTED +42" A.F.F.
- ② EXISTING ELECTRICAL PANEL TO BE USED IN THIS CONTRACT. REFER TO PANEL SCHEDULE ON SHEET E4.01.



ELECTRICAL RESTROOM FLOOR PLAN

SCALE:
1/32" = 1'-0"

Figure 1

DATE PLOTTED: 3/19/2026 6:09 AM BY: FITA TUTOE LAST SAVED: FTUTOE
FILE H:\PROJECTS\688 TINA CHEE LANDSCAPE STUDIO\25-001 WORLD WAR I CAMP WALL MONUMENT AT COLUMBIA PARK\01 - CABLE ELECTRICAL\10 ELECTRICAL SITE LIGHTING PLAN.DWG

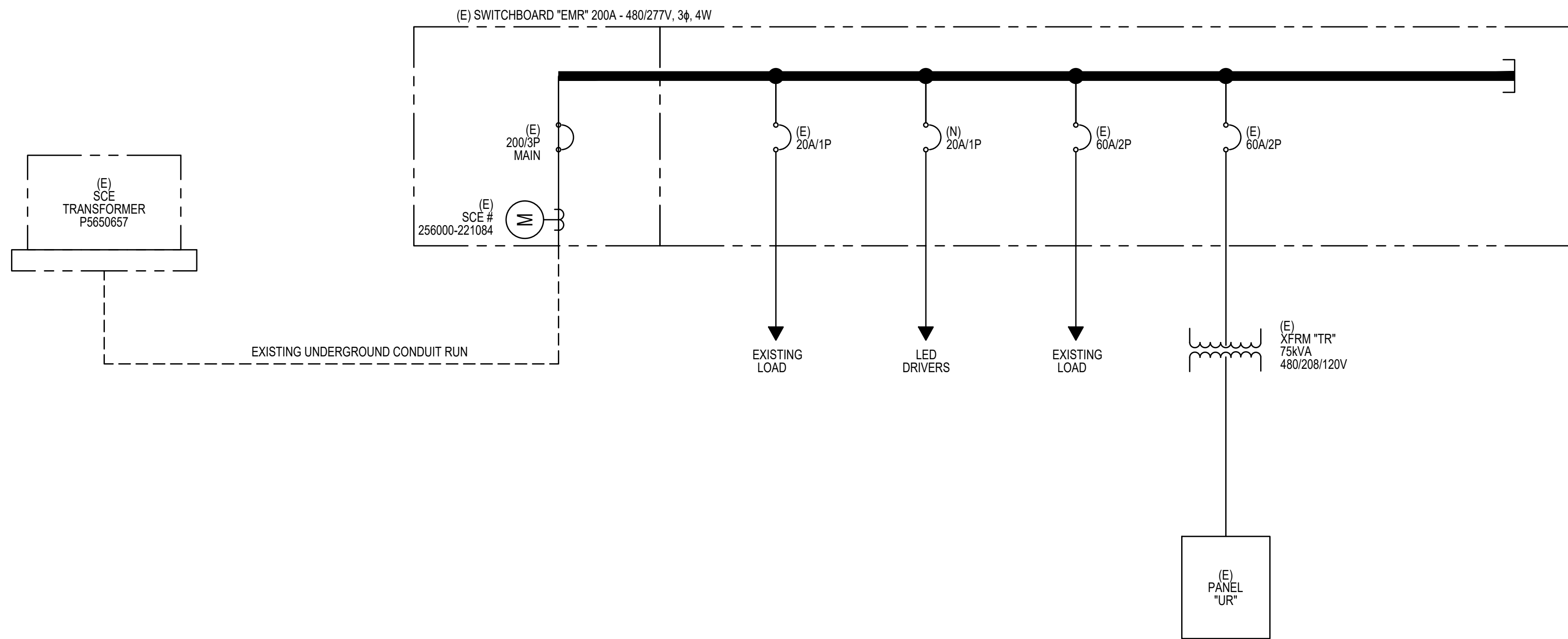
LAST SAVED: FTUTOE
PLOT STYLE: BREEN DESIGN GROUP.STB

1:1

BY: PLOT

DATE PLOTTED: 3/19/2026 8:03 AM
ORIGINAL SIZE: ARCH FULL BLEED E1 (30.00 X 42.00 INCHES)

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REMARKS		EXISTING PANEL "C"										T/C CONTROL LEVEL		REMARKS	
		120/240 VOLTS		1 PHASE		LOCATION		MAIN BKR: 50A/2P		225 BUSSING					
		3 WIRE		FEEDER		SEE SINGLE LINE DIAGRAM		ENTER CABT. AT		MTG.					
		LOCATION		VOLT AMPS		LTO REC		MIS CIR		BKR		LOCATION			
		A B		A B		A B		A B		A B		A B			
-	-	EXISTING LOAD		500		-		-		20/1 2		500 RECEPTACLE			
-	-	EXISTING LOAD		500		-		-		20/1 4		500 RECEPTACLE			
-	-	TIME CLOCK		500		-		-		20/1 8		500 ICE MACHINE			
-	-	EXISTING LOAD		500		-		-		15/1 8		500 WATER HEATER			
-	-	EXISTING LOAD		500		-		-		15/1 16		0 SPARE			
-	-	EXISTING LOAD		500		-		-		20/1 12		360 RESTROOM RECP.			
-	-	W/ CRT #11		500		-		-		20/1 14		24 BATHROOM LIGHTS			
-	-	SPACE		-		-		-		20/1 16		500 HAND DRYER			
-	-	SPACE		-		-		-		20/1 18		500 HAND DRYER			
-	-	SPACE		-		-		-		20/1 20		500 SPARE			
-	-	SPACE		-		-		-		20/1 22		500 MAIN			
-	-	SPACE		-		-		-		20/1 24		500 W/ CRT #22			
		A: 3,880 VA		B: 3,024 VA											
		TOTAL CONNECTED LOAD: 6,884 VA		CR 28.7 AMP@ 240 VOLTS - 1 ø											
		HACR = HACR TYPE CIRCUIT BREAKER		L/O = PROVIDE LOCK-OFF DEVICE ON CIRCUIT BREAKER		AFCI = ARC FAULT INTERRUPTING TYPE CIRCUIT BREAKER									
		GFCI = GROUND FAULT INTERRUPTING TYPE CIRCUIT BREAKER		CAG = COMBINATION ARC FAULT AND GROUND FAULT INTERRUPTING TYPE CIRCUIT BREAKER		X = EXISTING BREAKER									
		N = NEW CIRCUIT BREAKER													