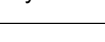
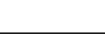
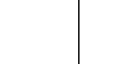
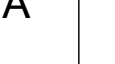
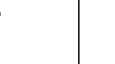
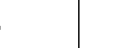
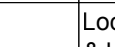
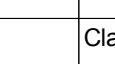
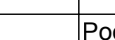
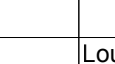
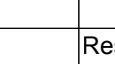
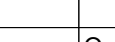
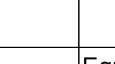
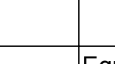
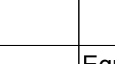
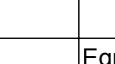
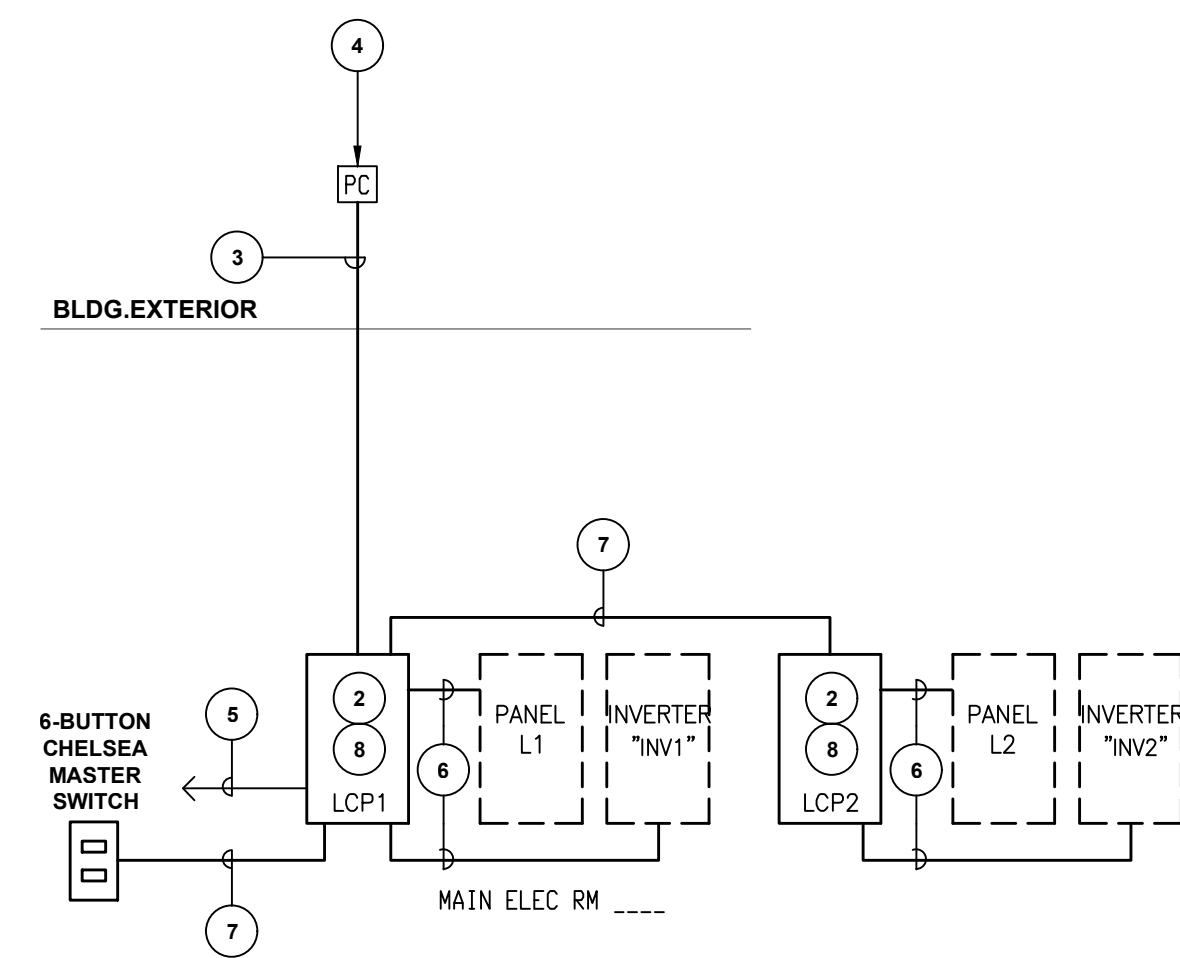


FIXTURE NOTES

1. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LIGHTING FIXTURES WITH THE CORRECT MOUNTING DEVICES WHETHER OR NOT SUCH VARIATIONS ARE INDICATED BY THE FIXTURE CATALOG NUMBER. THE CONTRACTOR SHALL VERIFY DEPTH OF ALL RECESSED LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS PRIOR TO ORDERING FIXTURES. ANY DISCREPANCIES THAT WOULD CAUSE RECESSED FIXTURES NOT TO FIT INTO CEILING SHALL BE REPORTED TO THE ARCHITECT PRIOR TO ORDERING FIXTURES.
2. CEILING INSULATION SHALL BE INSTALLED TO ALLOW 3" MINIMUM CLEARANCE FROM SIDES AND TOP OF RECESSED LIGHT FIXTURES.
3. VERIFY MOUNTING HEIGHT OF ALL WALL AND PENDANT MOUNTED FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHT FIXTURES.
5. DO NOT INSTALL LIGHTING FIXTURES IN MECHANICAL ROOMS UNTIL DUCTWORK AND PIPING IS Laid OUT. LOCATE LIGHTING FIXTURES TO AVOID ALL SUCH DUCTWORK AND PIPING TO PROVIDE OPTIMUM LIGHTING.
6. LAMPS FOR ALL FIXTURES, INCLUDING DECORATIVE FIXTURES, SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
7. ADDITIONAL EXIT SIGNS AND EMERGENCY LIGHTING MAY BE REQUIRED AT FINAL. A PRELIMINARY WALK-THROUGH INSPECTION IS RECOMMENDED.

Site Lighting Fixture Schedule										
Symbol	Label	Area Utilized	Mounting	Manufacturer	Catalog Number	Description	Lamp	Lumens	Lumens Per Watt	Wattage
	S1	Pool deck & building exit doors.	Surface, wall, +8'-0" to bottom	Lithonia	WEDGE2-LED-P3-35K-80CRI-VW-MVOLT-SRM-AWS-DOBX0	LED wall mounted wedge fixture. Dark bronze finish.	LED	3200	142	23
	S2	Pool deck and site areas.	Palm tree ring, +12'-0". Coord. free ring dia. with Landscape Architect. See detail 5/E4.01.	Hydrel Lighting	Aspen A-P2-80CRI-30K-12-55DEG-FLC Tree Ring: TRAR 6FX Transformer: TM100 277	LED low voltage "bullet" fixture mounted to palm tree via tree ring. (6) fixtures per tree ring. 3-up & 3-down. "U" on symbol denotes "UP" fixtures. Provide with remote 12V transformer.	LED MR16	923 ea.	77 ea	72 total
	S3	Site/pool deck walkway.	12" Pole on concrete base. See detail 6/E4.01.	Visionaire Lighting	PRE-2-M-T3-32LC-7-3K-UNUV-PT-BZ POLE: RNTS-4R-11-12-9BC-343-TR3-BZ	LED pedestrian pole fixture on concrete pole base.	LED	7687	105	73
	S4	Stage shade structure.	+8'-0" on pole of structure.	Hevi-Lite	HL-360-WT-8LED-E-FL-12-LA-4 xfmr: HLT-DB-50	LED compact adjustable accent light. Machined aluminum. 1/2" NPS adjustable mounting stem. White finish. 3500K. Provide with 12v direct ballast transformer.	LED	565	67	8.4

Symbol	Label	Area Utilized	Mounting	Manufacturer	Catalog Number	Description	Lamp	Lumens	Lumens Per Watt	Wattage
	F1	Offices	Recessed	Lithonia	2BLT4-48L-ADP-GZ1-LP835	LED recessed direct/indirect 2x4 fixture. 3500K	LED	4960	130.5	38
	F1A	classroom	Recessed	Lithonia	2BLT4-72L-ADP-GZ1-LP835	LED recessed direct/indirect 2x4 fixture. 3500K	LED	7245	119	59
	F2	Storage	Recessed	Lithonia	2GTL4-40L-RW-A19-GZ1-LP835	LED recessed prismatic 2x4 fixture. 3500K	LED	3922	131	30
	F3	Corridors/lockers/restrooms.	Recessed	Lumenpulse	LCRS-A-FD-277-R-L20-35K-80-W-XX-SB-MWH-RD-XX-NA	LED recessed 4" aperture downlight. 3500K	LED	2313	116	20
	F4	Utility rooms	Pendant	Lithonia	ZL1N-L48-5000LM-FST-MVOLT-35K-80CRI-WH-ZACVH	LED 48", pendant mounted, lensed strip light. 3500K	LED	4725	112.5	42
	F4A	Utility rooms	Surface	Lithonia	ZL1N-L48-5000LM-FST-MVOLT-35K-80CRI-WH	LED 48", surface mounted, lensed strip light. 3500K	LED	4725	112.5	42
	F5	Locker rooms/restrooms & kitchen	Surface	Lithonia	LBL4-6000LM-80CRI-35K-MN1-GZT-MVOLT	LED surface wrap 1x4 nominal. 3500K	LED	6101	123	50
	F6	Classroom	Pendant	3G Lighting	3G-2PLU-D1L100S-L500-35K-UNV-DIM-FL-L-WSO-WH-L-S12	LED 12" linear direct/indirect pendant fixture. 2"W x 41". White finish. 3500K.	LED	18000	120	150
	F7	Pool equip./chemical rooms.	Surface	ILLUMINA	BS100LED-4-HT-MO-WT35-SH-EOS	LED surface mounted vapor tight 4" fixture. Corrosion resistant. Integral exterior occupancy sensor.	LED	6615	110	60
	F8	Lounge	Pendant	Delray Lighting	BG67-4-W-LO-W35-CR-D	LED Decorative pendant fixture. 48" dia.	LED	5040	74	68
	F9	Restroom vanity.	Surface, wall above mirror.	Lithonia	FMVTSL36IN-MVOLT-30K-90CRI-BN	LED surface wall mounted vanity fixture.	LED	1919	73	26
	F10	Outdoor shower	Recessed	Indy	LB-170L-39K-MVOLT-G4-80CRI-ZT1-WPR-CSS-WET	LED recessed 6" aperture downlight. Wet Location. 3500K	LED	1462	92	16
	X1	Egress path	Surface, ceiling or wall per plans.	Lithonia	LE S-1-R-VR	LED exit sign with single face & mounting as shown on plans. provide directional chevrons as shown on plans. Provide vandal resistant shield.	LED	---	---	5
	X2	Egress path	Surface, ceiling or wall per plans.	Lithonia	LE S-2-R-VR	LED exit sign with single face & mounting as shown on plans. provide directional chevrons as shown on plans. Provide vandal resistant shield.	LED	---	---	5
	X1W	Egress path	Surface, ceiling or wall per plans.	Lithonia	WLTE-W-1-R-TP WET LOCATION LISTED	LED exit sign with single face & mounting as shown on plans. provide directional chevrons as shown on plans.	LED	---	---	5
	X2W	Egress path	Surface, ceiling or wall per plans.	Lithonia	WLTE-W-2-R-TP WET LOCATION LISTED	LED exit sign with double face & mounting as shown on plans. provide directional chevrons as shown on plans.	LED	---	---	5



- 1 3/4". WITH DATA CONDUCTORS AS REQUIRED.
- 2 PROGRAMMABLE LIGHTING CONTROL PANEL.
- 3 1/2". WITH CONDUCTORS AS REQUIRED.
- 4 OUTDOOR PHOTOCELL ON ROOF. MOUNT TO ROOF PER MANUFACTURERS RECOMMENDATIONS.
- 5 1/2".O. TO TELEPHONE BACKBOARD.
- 6 1". WITH CONDUCTORS AS REQUIRED.
- 7 CAT-5e-3/4".- 4 TWISTED PAIR.
- 8 N-LIGHT ARP INTENC08 NLT 8SPR MVOLT 1VB SC SM DTC OR APPROVED EQLT.

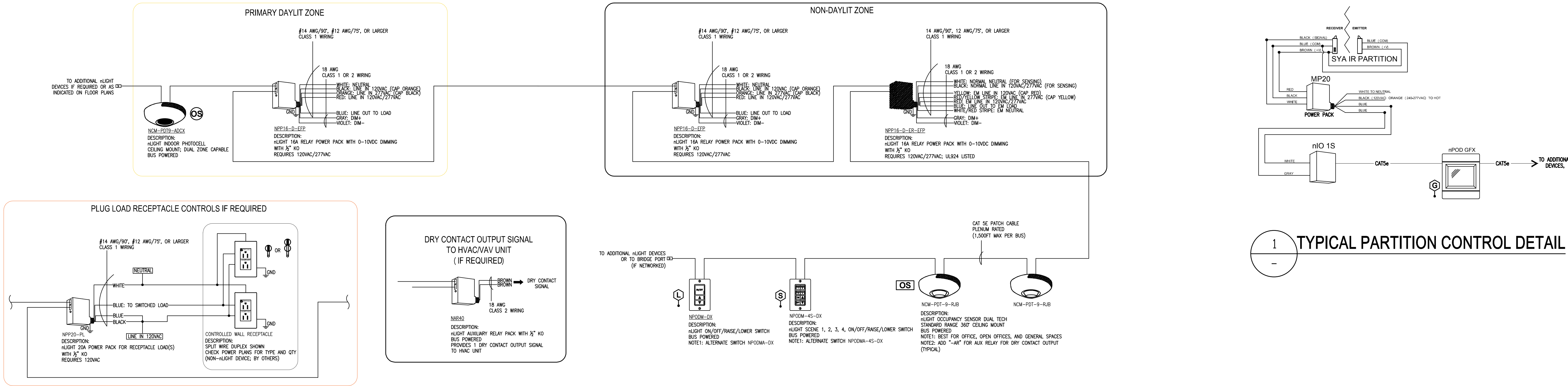
TYPICAL LIGHTING CONTROL PANEL DETAIL	SCALE:	1
	NONE	

LIGHTING CONTROL PANEL "LCP1"					
MOUNTING SURFACE		PHOTOCELL: YES			
PANEL	CIRCUIT	RELAY	DESCRIPTOIN	ZONE TYPE	NOTES
		1			
		2			
		3			
		4			
		5	SPARE		
		6	SPARE		
		7	SPARE		
		8	SPARE		
T/T	TIMECLOCK ON/OFF				
T/P	TIMECLOCK ON/ PHOTOCELL OFF				
P/T	PHOTOCELL ON/TIMECLOCK OFF				
P/P	PHOTOCELL ON/PHOTOCELL OFF				

LIGHTING CONTROL PANEL "LCP2"					
MOUNTING:	SURFACE		PHOTOCELL: YES		
PANEL	CIRCUIT	RELAY	DESCRIPTIOIN	ZONE TYPE	NOTES
		1			
		2			
		3			
		4			
		5	SPARE		
		6	SPARE		
		7	SPARE		
		8	SPARE		
T/T	TIMECLOCK ON/OFF				
T/P	TIMECLOCK ON/ PHOTOCELL OFF				
P/T	PHOTOCELL ON/TIMECLOCK OFF				
P/P	PHOTOCELL ON/PHOTOCELL OFF				

[illegible]

MULTIPLE ZONE SPACE W/ DAYLIGHTING & EM (INV/GEN)



- LIGHTING CONTROL GENERAL NOTES**
- THE TYPICAL CONTROL DIAGRAM IS AN EXAMPLE ONLY AND DEPICTS ONLY THE INTENT OF THE LIGHTING CONTROLS. LIGHTING CONTROL SYSTEM BASIS OF DESIGN IS AN nLIGHT SYSTEM BY ACUTY CONTROLS.
 - PROVIDE MANUFACTURER SPECIFIC INSTALLATION SHOP DRAWINGS. SHOP DRAWINGS SHALL INCLUDE 1/8 SCALE FLOOR PLANS INDICATING ALL REQUIRED CONTROL DEVICE LOCATIONS AND POINT-TO-POINT WIRING. SHOP DRAWINGS SHALL INCLUDE PRODUCT DATA CUT SHEETS AND SINGLE LINE SCHEMATIC DIAGRAM.
 - WHETHER OR NOT DETAILED ON ELECTRICAL DRAWINGS, PROVIDE ALL CONTROL DEVICES AS REQUIRED FOR A COMPLETE, FULLY OPERABLE AND CODE COMPLIANT SYSTEM.
 - PROVIDE UL924 DEVICES IN ANY AREA THAT REQUIRES EMERGENCY EGRESS LIGHTING WHETHER OR NOT SPECIFICALLY HEREIN DETAILED. REFER TO LIGHTING PLANS FOR ALL EMERGENCY EGRESS "EM" LIGHTING FIXTURES.
 - PROVIDE CONTROL DEVICES AS REQUIRED FOR LIGHTING ZONES AS SHOWN ON LIGHTING PLANS. SCHEMATIC DIAGRAM EXAMPLES SHOWN HEREIN ARE NOT SPECIFIC FOR EACH LIGHTING CONTROL CONDITION DEPICTED ON LIGHTING PLANS.
 - ALL 0-10VDC DIMMING CONDUCTORS SHALL BE INSTALLED IN CONDUIT.
 - VERIFY CORRECT LIGHTING CONTROL CONFIGURATIONS AND OPERATION IN EACH ROOM. REFER TO LIGHTING PLANS.
 - SIMULATE NORMAL SOURCE POWER FAILURE BY "OPENING" (TURN OFF) BUILDING MAIN SERVICE DISCONNECT AND VERIFY CONNECTIONS AND OPERATION OF UL 924 DEVICES FOR EMERGENCY LIGHTING FIXTURES.
 - SETUP, PROGRAM, AND FUNCTION TEST LIGHTING CONTROL SYSTEMS TO PERFORM EACH OF THE INDICATED CONTROL FUNCTIONS.
 - REMOTE LED DRIVERS AND/OR LIGHTING CONTROL RELAYS/RELAY PANELS SHALL BE MOUNTED IN NEAREST ACCESSIBLE CEILING SPACE AND/OR UTILITY ROOM CEILING SPACE, WHERE THIS IS NOT POSSIBLE, AND A CEILING ACCESS PANEL IS REQUIRED, THE LOCATION OF THE ACCESS PANEL SHALL BE REVIEWED AND APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.

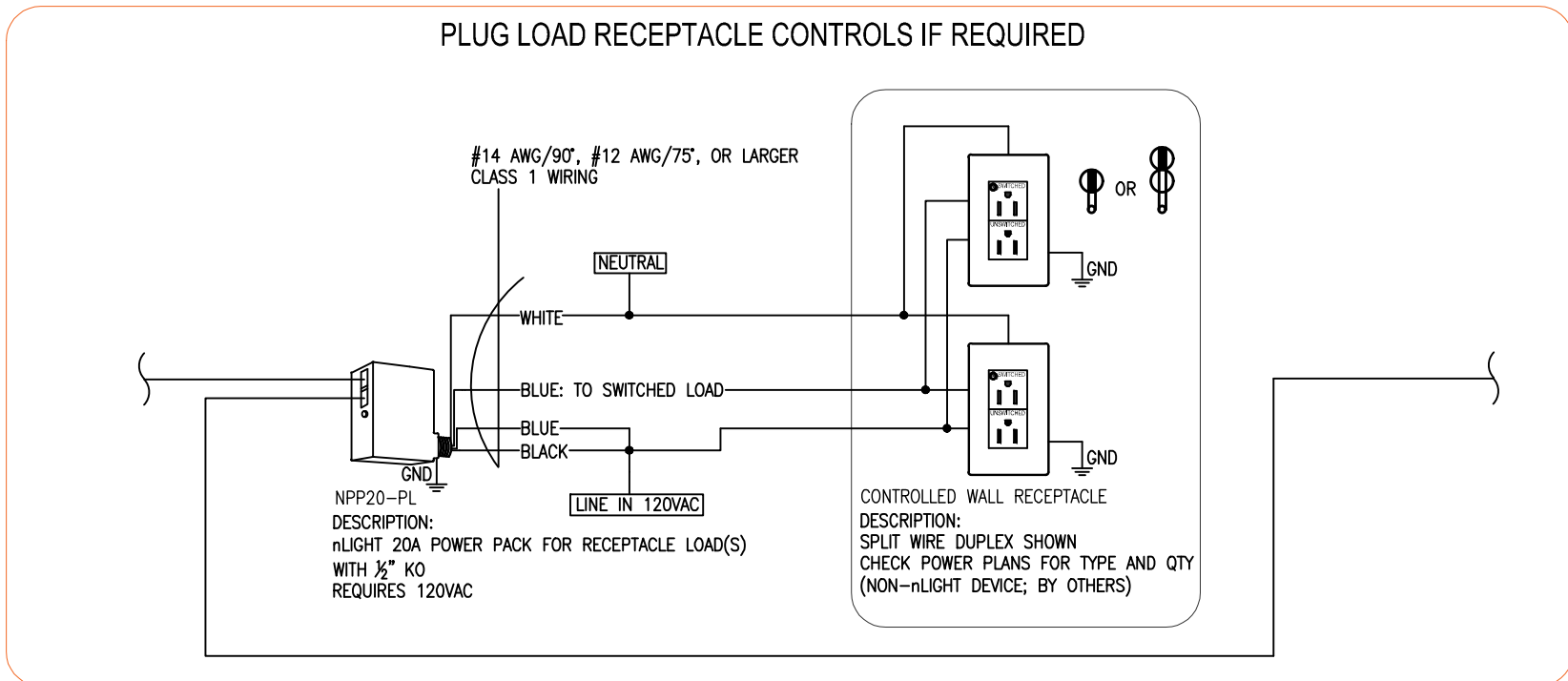
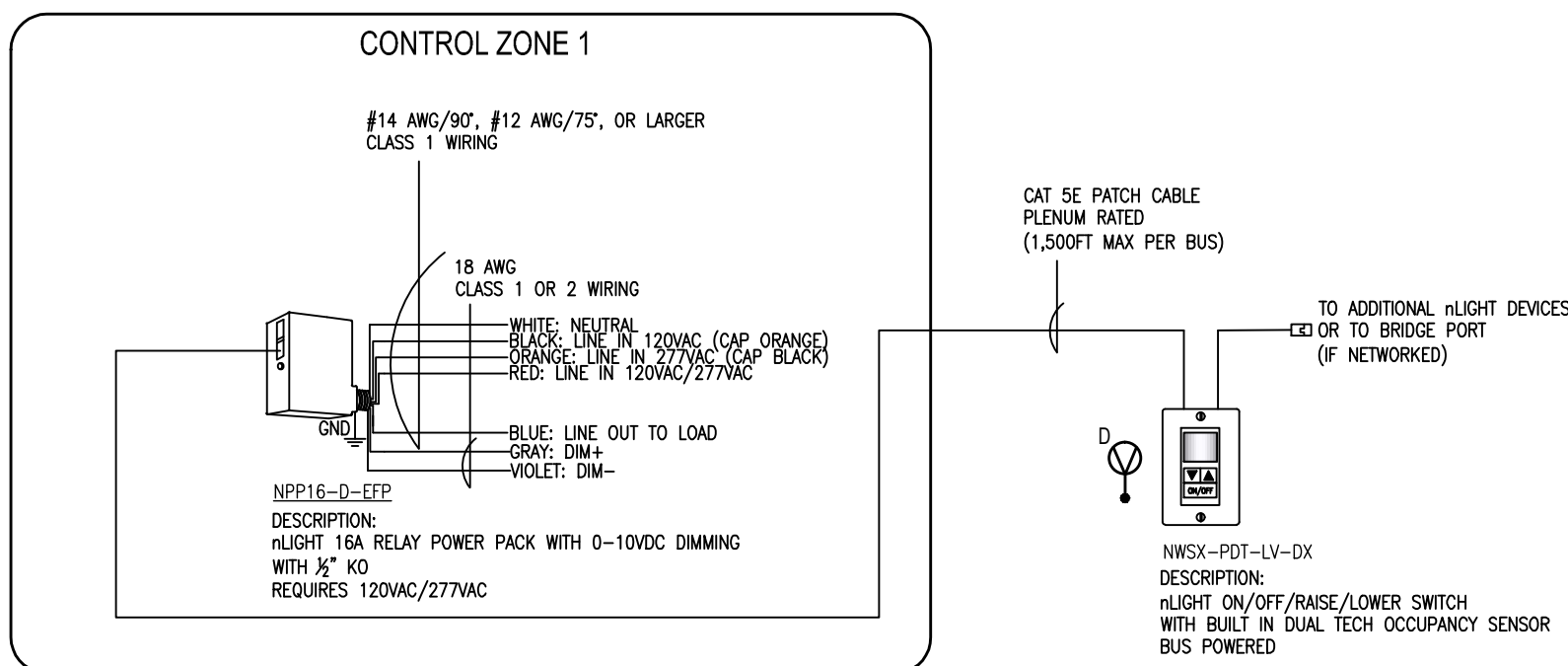
T24 COMPLIANT SEQUENCE OF OPERATION:

- OCCUPANCY SENSOR PROVIDES AUTOMATIC ON/OFF OF LIGHTS/LOAD BASED ON ROOM OCCUPANCY (USE DEFAULT TIME DELAY FOR OCCUPANCY SENSOR).
- DUAL ZONE PHOTOCELL SHALL AUTOMATICALLY REDUCE GENERAL LIGHTING IN BOTH PRIMARY AND SECONDARY DAYLIT ZONES BASED ON DAYLIGHT TO MAINTAIN DESIGN ILLUMINANCE.
- SWITCH PROVIDES MANUAL OVERRIDE OF THE LIGHTS. NP20M-4S-DX PROVIDES 4 PRESET SCENES PLUS ALL ON/OFF/RAISE/LOWER SCENE SWITCH. NP20D-TOUCH PROVIDES 16 CHANNELS/ZONES FOR ON/OFF/RAISE/LOWER CONTROL AND 16 PRESET SCENES.
- UPON LOSS OF NORMAL POWER, ALL "ER" POWER PACK (S) SHALL SHUNT CLOSED AND KEEP 0-10VDC DIMMING AT HIGH END TRIM LEVEL.

nLIGHT SYSTEM NOTE:

- OCCUPANCY SENSOR IS CAPABLE OF DOING PARTIAL ON 50%-70% LIGHTING POWER AND FULL AUTO OFF. PROVIDE IN SPACES WHERE REQUIRED SUCH AS CONFERENCE ROOMS, OFFICES < 250SQFT, MULTIPURPOSE ROOMS < 1000SQFT, AND CLASSROOMS.
- OCCUPANCY SENSORS HAVE DRY CONTACT OUTPUT OPTION FOR HVAC SYSTEM; SPECIFY "AR" OPTION ON OCCUPANCY SENSOR; REFER TO SPEC SHEET.

1-ZONE SMALL ROOM



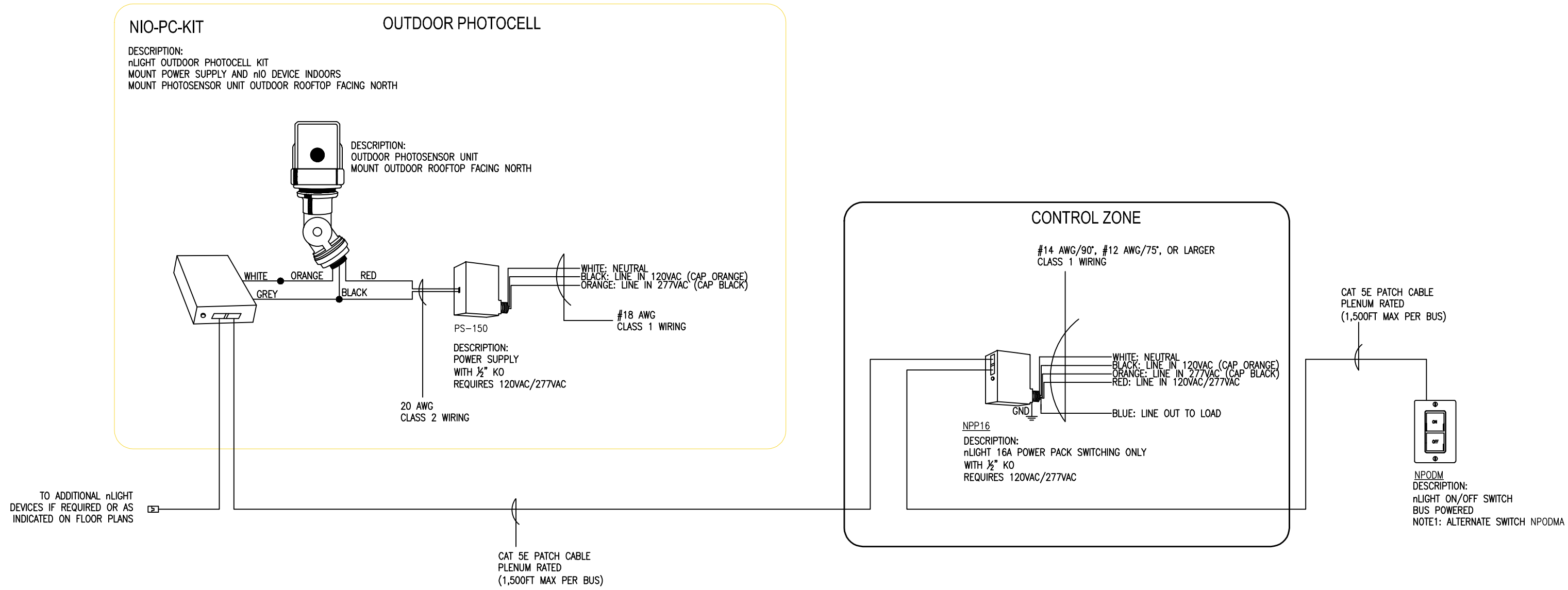
TITLE 24 COMPLIANT SEQUENCE OF OPERATION:

- OCCUPANCY SENSOR PROVIDES AUTOMATIC ON/OFF OF LIGHTS/LOAD BASED ON ROOM OCCUPANCY (USE DEFAULT TIME DELAY FOR OCCUPANCY SENSOR).
- SWITCH PROVIDES MANUAL OVERRIDE OF THE LIGHTS: ON/OFF/RAISE/LOWER.

nLIGHT SYSTEM NOTE:

- OCCUPANCY SENSOR IS CAPABLE OF DOING PARTIAL ON 50%-70% LIGHTING POWER AND FULL AUTO OFF. PROVIDE IN SPACES WHERE REQUIRED SUCH AS CONFERENCE ROOMS, OFFICES < 250SQFT, MULTIPURPOSE ROOMS < 1000SQFT, AND CLASSROOMS.

EXTERIOR LIGHTS W/ FEW ZONES

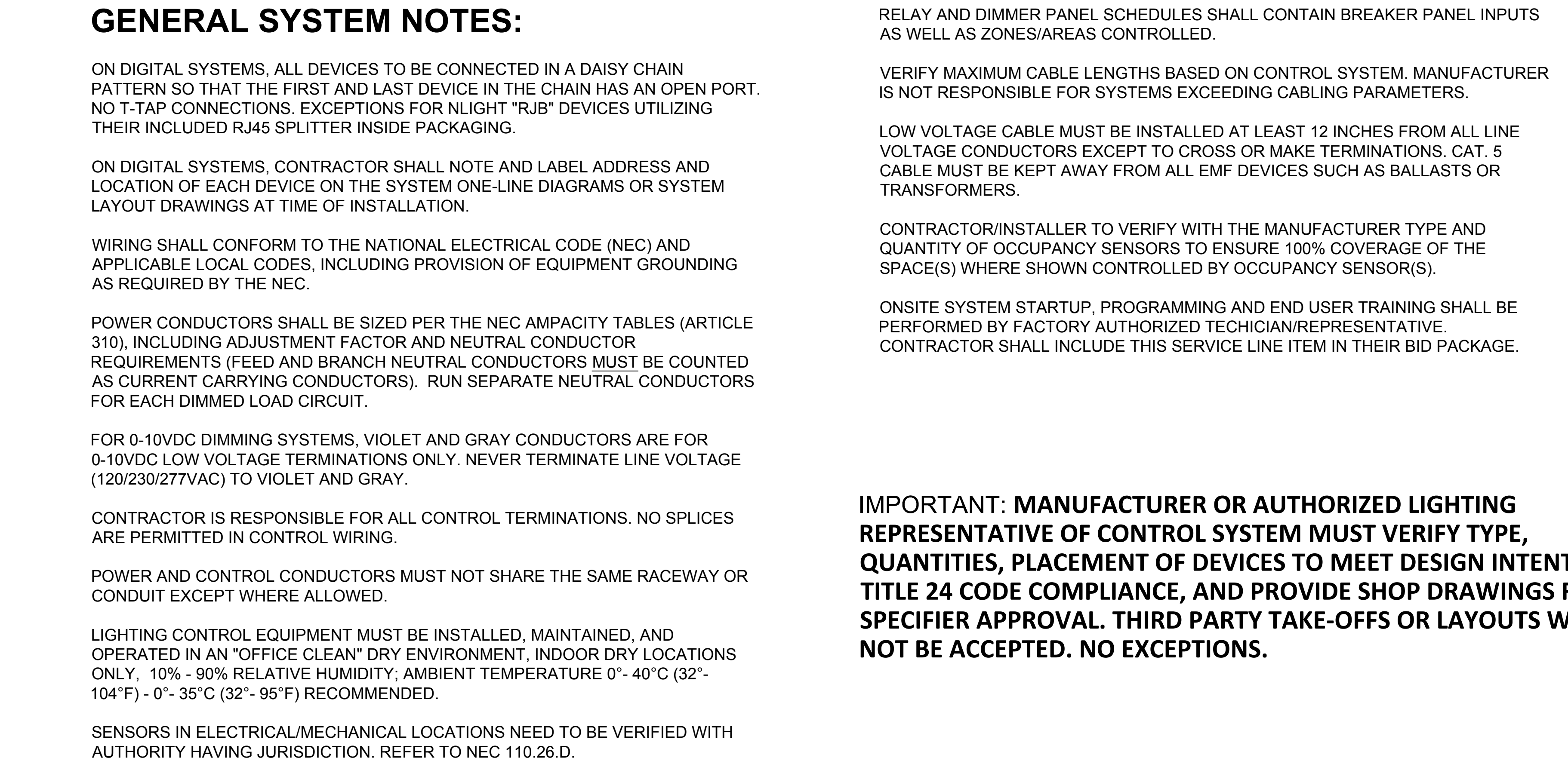


T24 COMPLIANT SEQUENCE OF OPERATION:

- PHOTOCELL OR ASTRONOMICAL TIME-SWITCH CONTROL SHALL AUTOMATICALLY SHUT-OFF EXTERIOR LIGHTING WHEN DAYLIGHT IS AVAILABLE.
- AUTOMATIC SCHEDULING CONTROLS VIA TIME CLOCK AT NIGHT ECLYPSE CONTROLLER (NECY) SHALL REDUCE LIGHTING POWER BY 50%-90% AND FULL OFF DURING UNOCCUPIED TIMES.
- AUTOMATIC SCHEDULING CONTROLS VIA TIME CLOCK AT NIGHT ECLYPSE CONTROLLER (NECY) SHALL ALLOW SCHEDULING OF A MINIMUM OF TWO NIGHTTIME PERIODS AT DIFFERENT LIGHTING LEVELS.
- SYSTEM MAY INCLUDE AN OVERRIDE FUNCTION WALL SWITCH THAT TURNS LIGHT ON FOR 2 HOURS MAX DURING DIMMED OR OFF STATE.

nLIGHT SYSTEM NOTE:

- EXTERIOR LIGHTING SHALL COMPLY WITH T24 2019 PART 6 SECTION 130.2c3 MOTION SENSOR CONTROLS NOT SHOWN IN THIS DIAGRAM.



ON DIGITAL SYSTEMS, ALL DEVICES TO BE CONNECTED IN A DAISY CHAIN PATTERN SO THAT THE FIRST AND LAST DEVICE IN THE CHAIN HAS AN OPEN PORT NO T-TAP CONNECTIONS. EXCEPTIONS FOR NLIGHT "RJB" DEVICES UTILIZING THEIR INCLUDED RJ45 SPLITTER INSIDE PACKAGING.

WIRING SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL CODES, INCLUDING PROVISION OF EQUIPMENT GROUNDING AS REQUIRED BY THE NEC.

POWER CONDUCTORS SHALL BE SIZED PER THE NEC AMPACITY TABLES (ARTICLE 310), INCLUDING ADJUSTMENT FACTOR AND NEUTRAL CONDUCTOR REQUIREMENTS (FEED AND BRANCH NEUTRAL CONDUCTORS MUST BE COUNTED AS CURRENT CARRYING CONDUCTORS). RUN SEPARATE NEUTRAL CONDUCTORS FOR EACH DIMMED LOAD CIRCUIT.

FOR 0-10VDC DIMMING SYSTEMS, VIOLET AND GRAY CONDUCTORS ARE FOR 0-10VDC LOW VOLTAGE TERMINATIONS ONLY. NEVER TERMINATE LINE VOLTAGE (120/230/277VAC) TO VIOLET AND GRAY.

CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL TERMINATIONS. NO SPLICES
ARE PERMITTED IN CONTROL WIRING.

POWER AND CONTROL CONDUCTORS MUST NOT SHARE THE SAME RACEWAY OR CONDUIT EXCEPT WHERE ALLOWED.

LIGHTING CONTROL EQUIPMENT MUST BE INSTALLED, MAINTAINED, AND OPERATED IN AN "OFFICE CLEAN" DRY ENVIRONMENT, INDOOR DRY LOCATIONS ONLY, 10% - 90% RELATIVE HUMIDITY; AMBIENT TEMPERATURE 0° - 40°C (32° - 104°F) - 0° - 35°C (32° - 95°F) RECOMMENDED.

SENSORS IN ELECTRICAL/MECHANICAL LOCATIONS NEED TO BE VERIFIED WITH AUTHORITY HAVING JURISDICTION. REFER TO NEC 110.26.D.

RELAY AND DIMMER PANEL SCHEDULES SHALL CONTAIN BREAKER PANEL INPUTS AS WELL AS ZONES/AREAS CONTROLLED.

VERIFY MAXIMUM CABLE LENGTHS BASED ON CONTROL SYSTEM. MANUFACTURER IS NOT RESPONSIBLE FOR SYSTEMS EXCEEDING CABLING PARAMETERS.

LOW VOLTAGE CABLE MUST BE INSTALLED AT LEAST 12 INCHES FROM ALL LINE VOLTAGE CONDUCTORS EXCEPT TO CROSS OR MAKE TERMINATIONS. CAT. 5 CABLE MUST BE KEPT AWAY FROM ALL EMF DEVICES SUCH AS BALLASTS OR TRANSFORMERS.

CONTRACTOR/INSTALLER TO VERIFY WITH THE MANUFACTURER TYPE AND QUANTITY OF OCCUPANCY SENSORS TO ENSURE 100% COVERAGE OF THE SPACE(S) WHERE SHOWN CONTROLLED BY OCCUPANCY SENSOR(S).

ONSITE SYSTEM STARTUP, PROGRAMMING AND END USER TRAINING SHALL BE PERFORMED BY FACTORY AUTHORIZED TECHICIAN/REPRESENTATIVE. CONTRACTOR SHALL INCLUDE THIS SERVICE LINE ITEM IN THEIR BID PACKAGE.

IMPORTANT: MANUFACTURER OR AUTHORIZED LIGHTING REPRESENTATIVE OF CONTROL SYSTEM MUST VERIFY TYPE, QUANTITIES, PLACEMENT OF DEVICES TO MEET DESIGN INTENT AND TITLE 24 CODE COMPLIANCE, AND PROVIDE SHOP DRAWINGS FOR SPECIFIER APPROVAL. THIRD PARTY TAKE-OFFS OR LAYOUTS WILL NOT BE ACCEPTED. NO EXCEPTIONS.

[illegible]

TYPE "F5"

FEATURES & SPECIFICATIONS

INTERIOR USE — LB, LED wraparound provides a digital lighting platform to deliver general ambient lighting to surface-mount applications. The LB fixture delivers long life and excellent color rendering capabilities, low-maintenance lighting installation. Ideal for closets, storage rooms, hallways, stairwells and offices.

CONSTRUCTION — Metal parts are die formed from pre-anodized color-anodized 6063 aluminum. Plastic parts are 30% styrene with specially melted butyrate resin. Continuous stress design to future light output and continuous off-gas support to prevent accidental opening and simplify maintenance.

OPTICS — Curved polycarbonate diffuser with heat sink pins and high temperature low outgassing extrusion lamp image and provides high-angle brightness control. Luminaires red-plate within appearance for improved aesthetics.

ELECTRICAL — Long-life LEDs, coupled with high efficiency drivers, provides superior quantity and quality of illumination for extended service. 100, 300k LED lumens maintenance at 5,000 hours 1,500,000. The LBs have a CRI of 82.

elcLED driver options deliver choice of dimming range and choices for control, while ensuring flicker-free, low-current loads, 80% efficiency and low EMI.

Step-level dimming option allows system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

Controls — Pair the LBs with the Feature motor Sensor Switch LDR sensor for additional energy savings when the space is unoccupied. The LDR sensor moves the fixture down to a lower level setting when there is no occupancy. This option is ideal for stairwells, back rooms, and closets due to the low occupancy level in these spaces.

Optional elcLight™ enabled controls maximize system performance, allow for constant human management / compensation functions, facilitate simple plug-and-play network and control upgrading via a PC cable. Rather described provided when required to comply with US and Canadian codes.

LISTINGS — CSA certified to meet U.S. and Canadian standards. ULmp listed.

Dryvit Lighting Consortium (DLC) Premium qualified product and DLC qualified project. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Project list at www.dryvit.com/dlc/projects/ to confirm which versions are qualified.

BUY AMERICAN — Product with the BAA option is assembled in the USA and meets the Buy American (U.S. government procurement requirements under BAA, SBARS and DOD). Please refer to www.buyusa.gov/buy-usa-america/ for additional information.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.lithonia.com/warranty/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All claims on design or physical values, measured under laboratory conditions at 25°C.

Specifications subject to change without notice.

Galaxy Number	
Notes	
Type	

Low-Profile Curved-Box
LED Wraparound

LBL4

4" LENGTH, NARROW HOUSING

LED

elcLED

Capable Luminaire

This item is an A+ Capable luminaire, which has been designed and tested to provide consistent color appearance and cut-off-of-the-base control compatibility with simple commissioning.

- All configurations of this luminaire meet the AcuityBrands® specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for eLight™ control networks when ordered with drivers marked by [Lithonia Lighting](http://www.lithonia.com)
- This luminaire is part of an A+ Certified solution for elcLight control networks, providing advanced control functionality at the luminaire level, when selected includes driver and control options marked by [Lithonia Lighting](http://www.lithonia.com)

To learn more about A+, visit www.acuitybrands.com/leds.

*See ordering tree for details

COMMERCIAL INDUSTRY

LELA

ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- Lumina packages suitable for ceiling heights ranging from 8' to in excess of 100'
- Efficiencies up to 124 lm/w
- Superior quality white LED light output using Chip On Board technology
- Natural Hypocrite Reflector (U.S. Patent No. 10,470,727 B2)

PRODUCT SPECIFICATIONS

Atrius™ - Ready Product: Select models of the Lumina product line deliver valuable data and connectivity to the Atrius IoT Solution based platform services. For more information, please refer to www.astris.com/atrisc.

OPTICS

Hypocrite®: Patented hypocrite design (U.S. Patent No. 10,470,727 B2) optimized for solid, directed LED output, maximizes light efficiency while creating the "Silent Ceiling" appearance by reducing lamp image and aperture brightness. A Geometry of Hypocrite curve provides unique aperture appearance and another light distribution.

Parabolic/Lens: Computer-optimized parabolic reflector with frosted converted lens regressed into cone provides uniform distribution with no apertures

Wide Beam: Available in Hypocrite and Parabolic. Both providing uniform distributions with no apertures

Beamer: White or black printed deep mill-groove aluminum bores inset with integral white printed lens and frosted converted glass lens

ELECTRICAL

LED Light Engine: Compact light sources deliver uniform illumination without heat sink, reaching available beam center (3500K-3500K with 3500K @ 40-90 & 97 C°)

LED Driver: Available with push in wire connections mount directly to heat sink and is optional

Passive Cooling: Aluminum heat sink integrated directly with housing provides superior performance to ensure long life LED

LED Power: Low Power 10 W • Easily replaceable from above or below the ceiling

LED Driver: Dimmable via 0-10V potentiometer • Optional driver provided for use with all rated Lumina Ecosystem, 2-wire dimmer, DMX, or DALI • For a full list of compatible dimmers, visit www.astris.com/dimmers

Life: Rated for 40,000 hours or 70% lumens maintenance • Available with optional lumina Depreciation Indicators, (U.S. Patent No. 9,115,769 No. 9,115,769)

Emergency Battery Pack (Optional): Provides a minimum of 600 lumen @ 8000K, or 1000 lumen for the minimum duration of 90 minutes @ 8000K option is CEC Title 20 compliant

As an equal opportunity employer, we encourage the colorblind to apply.

Our technology-based data solutions are present only for the OnDemand™ Ecosystem. Data from other data sources to OnDemand™ Ecosystem may vary from product, manufacturer, or system details. Manufacturer's data is provided for reference only.

ORDERING INFORMATION

Complete Catalog Example Includes (length, size, options, warranty) Ordering Example: LM-GBM-3K-WC30-64-800R-21-DH-W-CL-PR-HE

Series	Light Engine	Color Temperature	Voltage	Generation	Driver	Beam/Size Options
LM™	U1 Optics Non-Conversion Downlight	15K 27K 30K 3500K 4000K 5000K 5600K 6500K 7500K 8200K 9000K	120V 277V 300V 3500V 4000V 5000V 5600V 6500V 7500V 8200V 9000V	G1 G2 G3 G4 G5 G6 G7 G8 G9 G10 G11 G12	None GBM GBM GBM GBM GBM GBM GBM GBM GBM GBM GBM	None and End Holder Chicago Lights LP 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack
	U1 Optics Non-Conversion Downlight	15K 27K 30K 3500K 4000K 5000K 5600K 6500K 7500K 8200K 9000K	120V 277V 300V 3500V 4000V 5000V 5600V 6500V 7500V 8200V 9000V	G1 G2 G3 G4 G5 G6 G7 G8 G9 G10 G11 G12	None GBM GBM GBM GBM GBM GBM GBM GBM GBM GBM GBM	None and End Holder Chicago Lights LP 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack
	U1 Optics Non-Conversion Downlight	15K 27K 30K 3500K 4000K 5000K 5600K 6500K 7500K 8200K 9000K	120V 277V 300V 3500V 4000V 5000V 5600V 6500V 7500V 8200V 9000V	G1 G2 G3 G4 G5 G6 G7 G8 G9 G10 G11 G12	None GBM GBM GBM GBM GBM GBM GBM GBM GBM GBM GBM	None and End Holder Chicago Lights LP 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack
	U1 Optics Non-Conversion Downlight	15K 27K 30K 3500K 4000K 5000K 5600K 6500K 7500K 8200K 9000K	120V 277V 300V 3500V 4000V 5000V 5600V 6500V 7500V 8200V 9000V	G1 G2 G3 G4 G5 G6 G7 G8 G9 G10 G11 G12	None GBM GBM GBM GBM GBM GBM GBM GBM GBM GBM GBM	None and End Holder Chicago Lights LP 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack
	U1 Optics Non-Conversion Downlight	15K 27K 30K 3500K 4000K 5000K 5600K 6500K 7500K 8200K 9000K	120V 277V 300V 3500V 4000V 5000V 5600V 6500V 7500V 8200V 9000V	G1 G2 G3 G4 G5 G6 G7 G8 G9 G10 G11 G12	None GBM GBM GBM GBM GBM GBM GBM GBM GBM GBM GBM	None and End Holder Chicago Lights LP 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack
	U1 Optics Non-Conversion Downlight	15K 27K 30K 3500K 4000K 5000K 5600K 6500K 7500K 8200K 9000K	120V 277V 300V 3500V 4000V 5000V 5600V 6500V 7500V 8200V 9000V	G1 G2 G3 G4 G5 G6 G7 G8 G9 G10 G11 G12	None GBM GBM GBM GBM GBM GBM GBM GBM GBM GBM GBM	None and End Holder Chicago Lights LP 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 600 Lines Emergency Battery Pack 6



TYPE "F2"

FEATURES & SPECIFICATIONS

INTENDED USE — The SLT LED recessed troffer offers a wide range of luminaire options, color temperatures, and beam options to meet the lighting needs for a wide range of applications such as schools, offices, and hospitals. The light options deliver different light and excellent color to ensure a sound quality, low maintenance lighting installation. **Certain applications can diminish the integrity of acrylic and/or polycarbonate.** Click here for [Acrylic/Polycarbonate Compatibility table for available sizes.](#)

CONSTRUCTION — Housing formed from 22 gauge cold-rolled steel. Smooth beveled sides and smooth inward formed end flanges for safe handling. Includes integral 1-bar diffuser. Lighter-weight design allows for safe, easy installation.

OPTICS — Highly transmissive polycarbonate pin diffuses the light source without compromising output. Pattern 17 beam with wide beam options also available.

ELECTRICAL — Line 180 VAC, equipped with high-efficiency drivers, provided standard 5-wire, 80% LED lumens maintenance at 72,000 lumens (80/20/200), e180 LED driver options deliver choice of dimming range, and options for remote, while awaiting flicker-free, low current noise, 90% efficiency and low EMI.

Optional right-angle embedded corner trim and backscatter shields, designed to digitally communicate with other light-enabled controls such as dimmers, switches, occupancy sensors and motion controllers. Simply connect the light-enabled control device and the SLT luminaire using standard Cat 5 cabling. Simple plug-and-play connecting a device and luminaire immediately delivers on-site and self-commissioning. Lumens Management: Unique lumens management system (patent pending) provides for intelligence that automatically manages the LED light source so that constant lumens output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Two-level dimming system (SLT) allows the system to be switched to 50% power for compliance with common energy codes while maintaining fixture appearance.

Full compliance is provided when required to comply with U.S. and Canadian codes.

INSTALLATION — LED boards include plug-in connectors for easy of separability. Suitable for direct recessed corner cut. Suitable for damp location.

LISTING — UL certified to meet U.S. and Canadian standards. If used, Non-Incandescent Qualified (NQC) qualified product. Not all versions of this product may be NEC qualified. Please check the UL Certified Product Listing Unit at [http://www.luxonlighting.com/UL](#) for further listing which variants are qualified.

UL RECOGNITION — Product with the UL label option is certified in the USA and meets the Bay Area

America government procurement requirements under FAR, DARS and SET.

See [www.usa.lithonia.com](#) for the additional information.

WARRANTY — 5-year limited warranty. Complete warranty terms located at:

[www.usa.lithonia.com/warranty-terms-and-conditions](#)

Note: Actual performance may differ as a result of on-site measurement and application.

All units are designed to typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

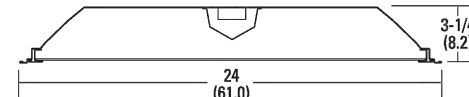


Specifications

Length: 59.0 (1.83)

Width: 24.0 (0.7)

Depth: 3.14 (0.07)



All dimensions are inches (parentheses) unless otherwise indicated.

Capable Luminaire

This item is an Ac Capable Luminaire, which has been designed and tested to provide consistent color appearance and cut-off of the beam control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency.
- The luminaire is part of an Ac Certified solution for all right control networks when ordered with drivers marked by a **BlueDot luminaire**.
- The luminaire is part of an Ac Certified solution for all right control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a **BlueDot luminaire**.

To learn more about Ac, visit [www.acuitybrands.com/ghis](#).

*See ordering details for details.

COMMERCIAL INDOOR

2GT1_204

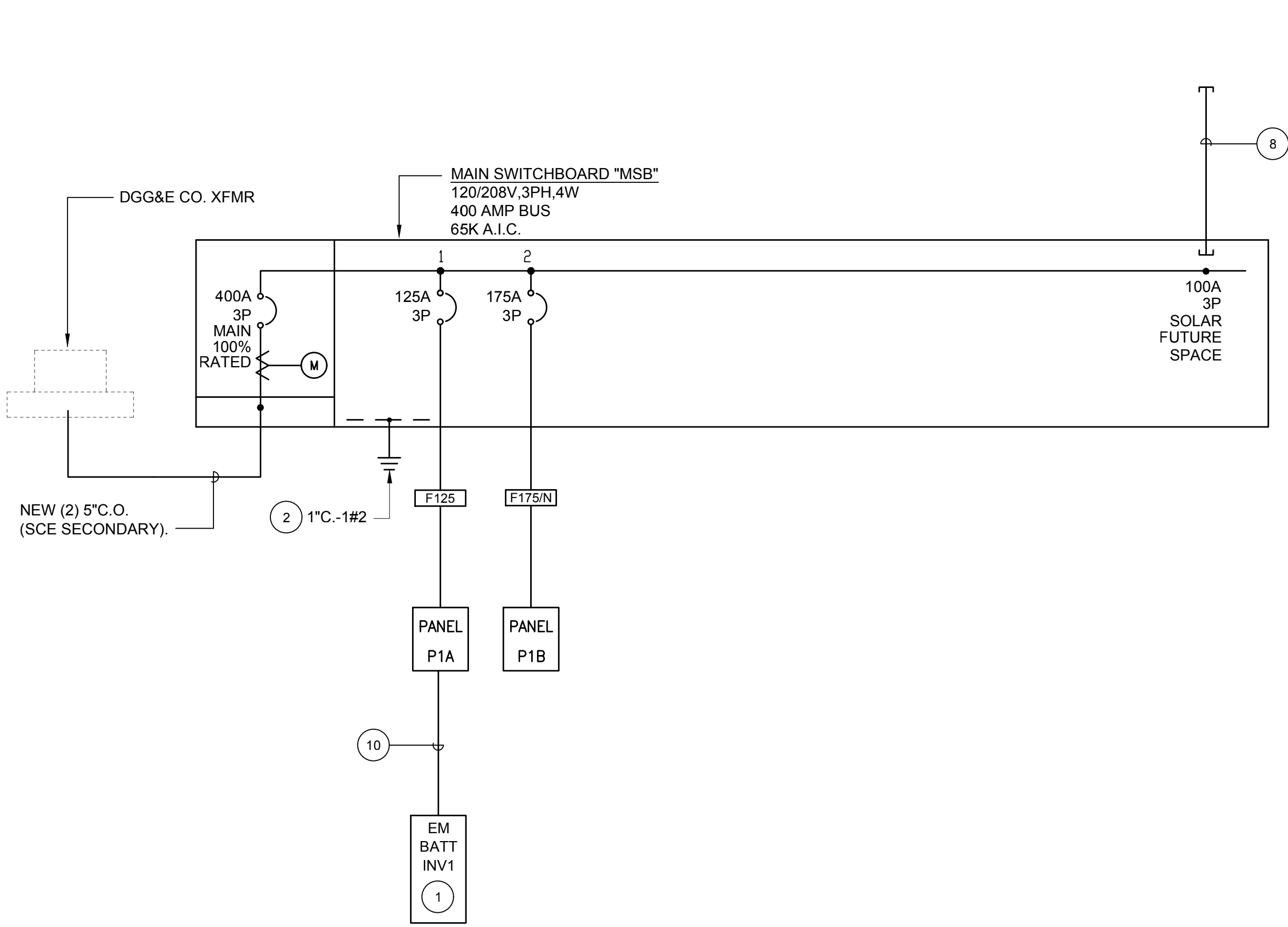
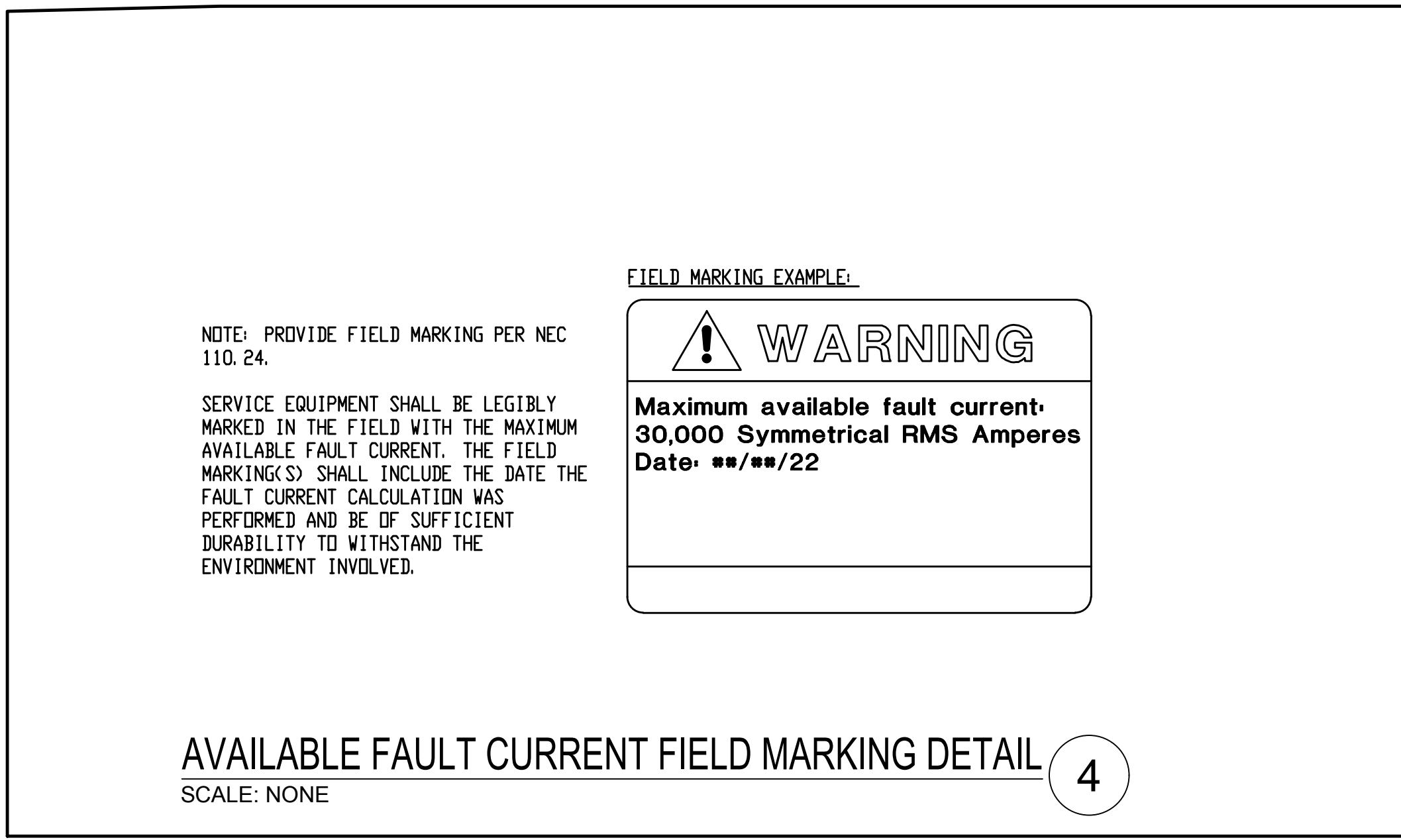
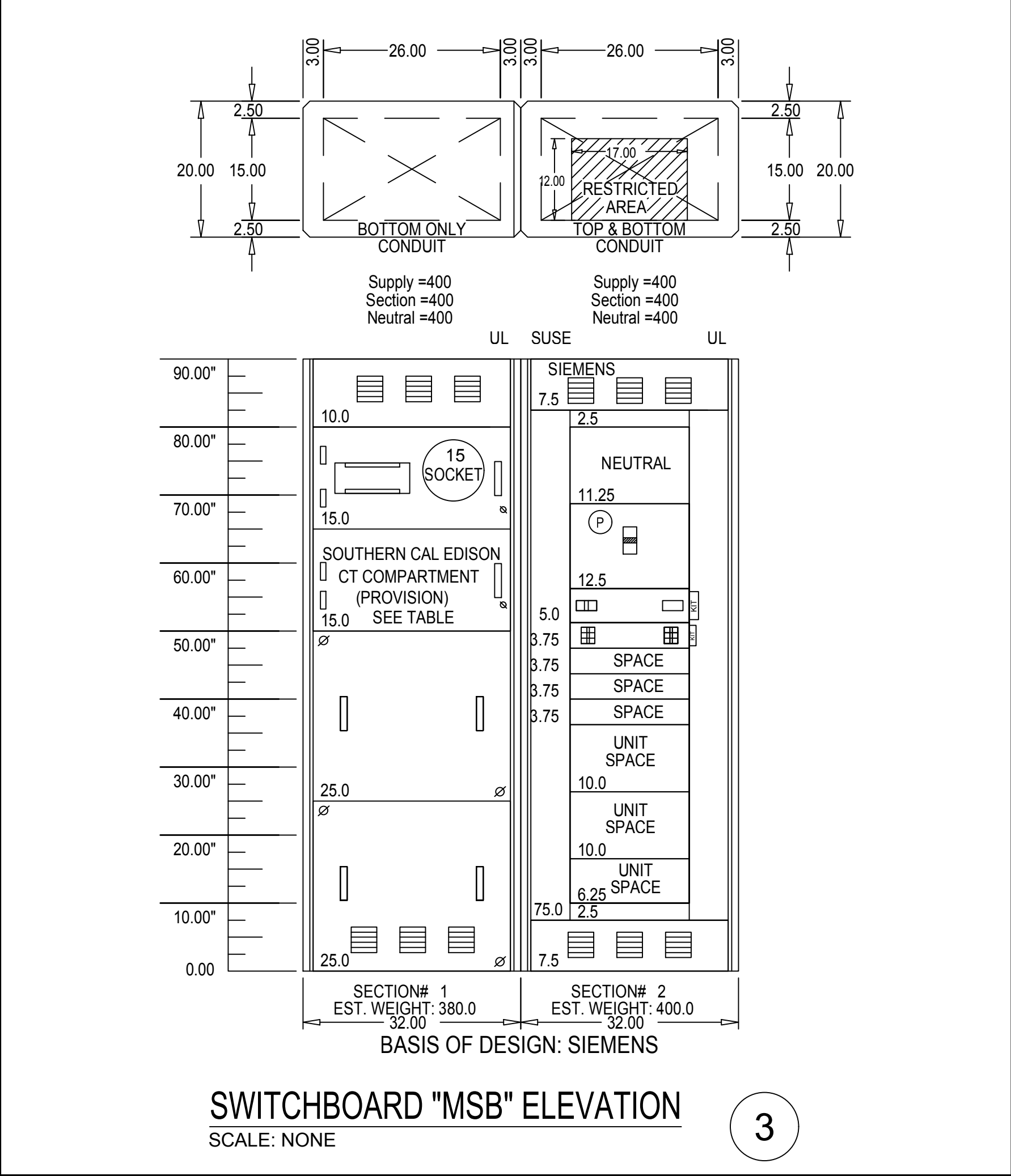
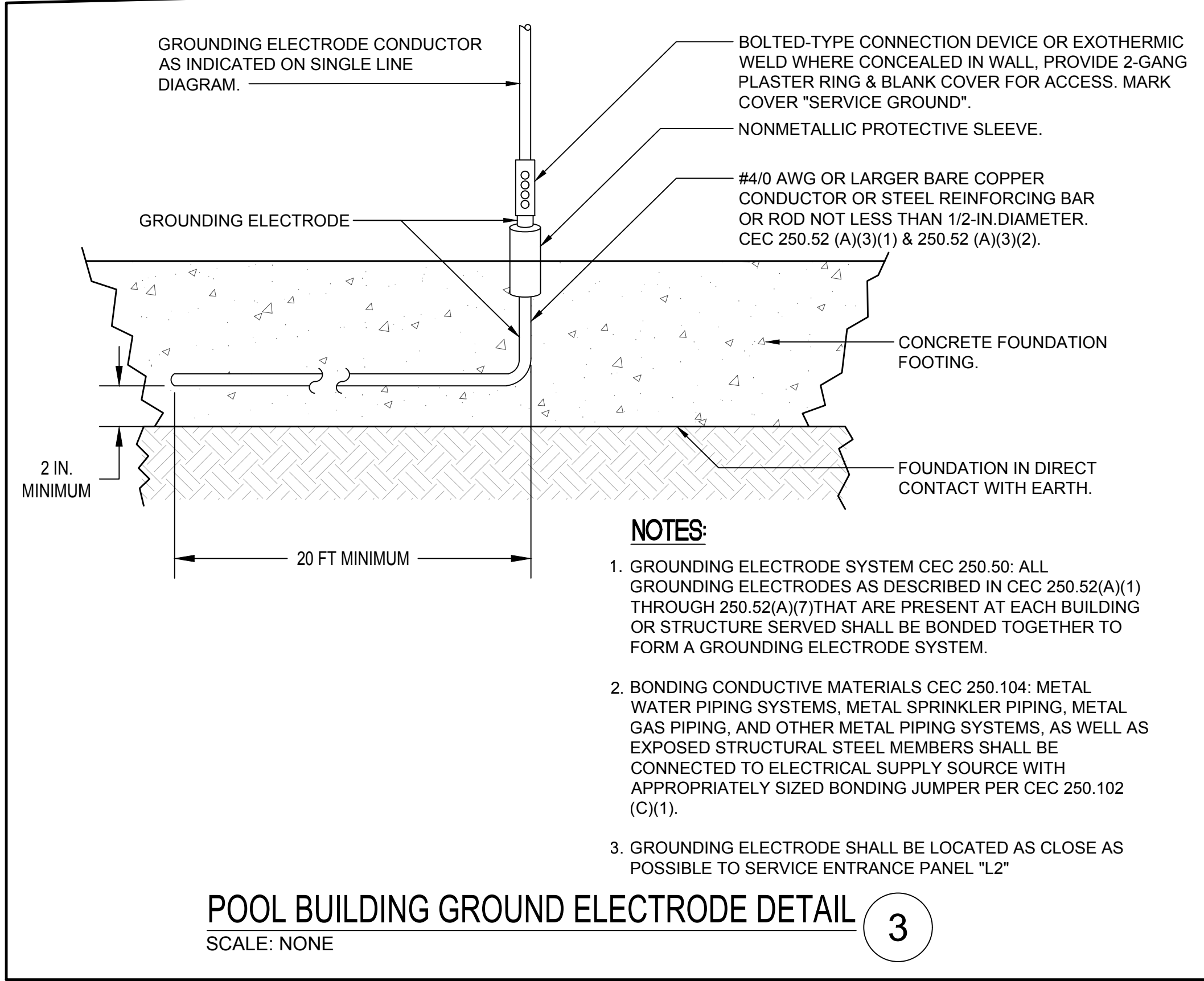
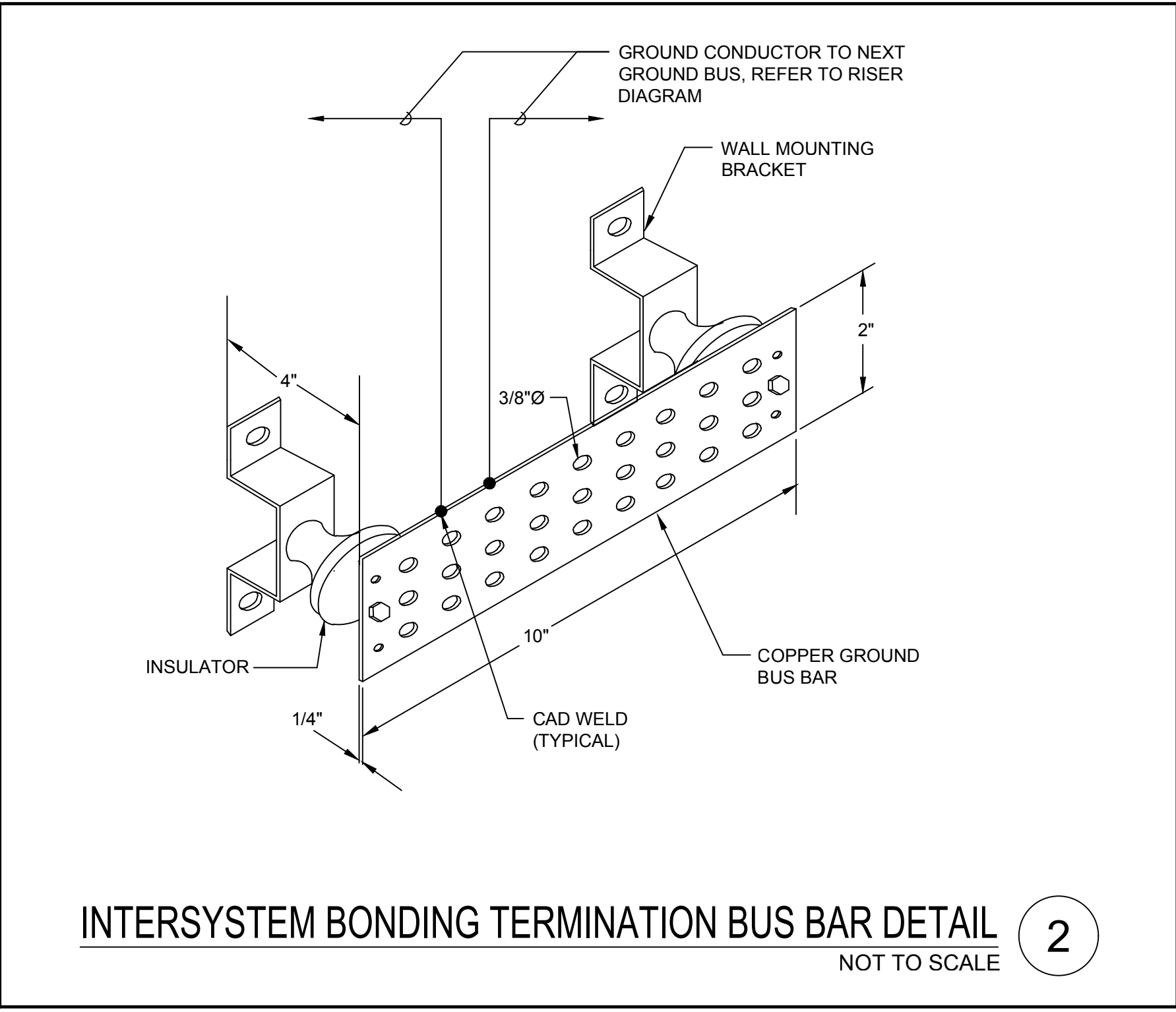
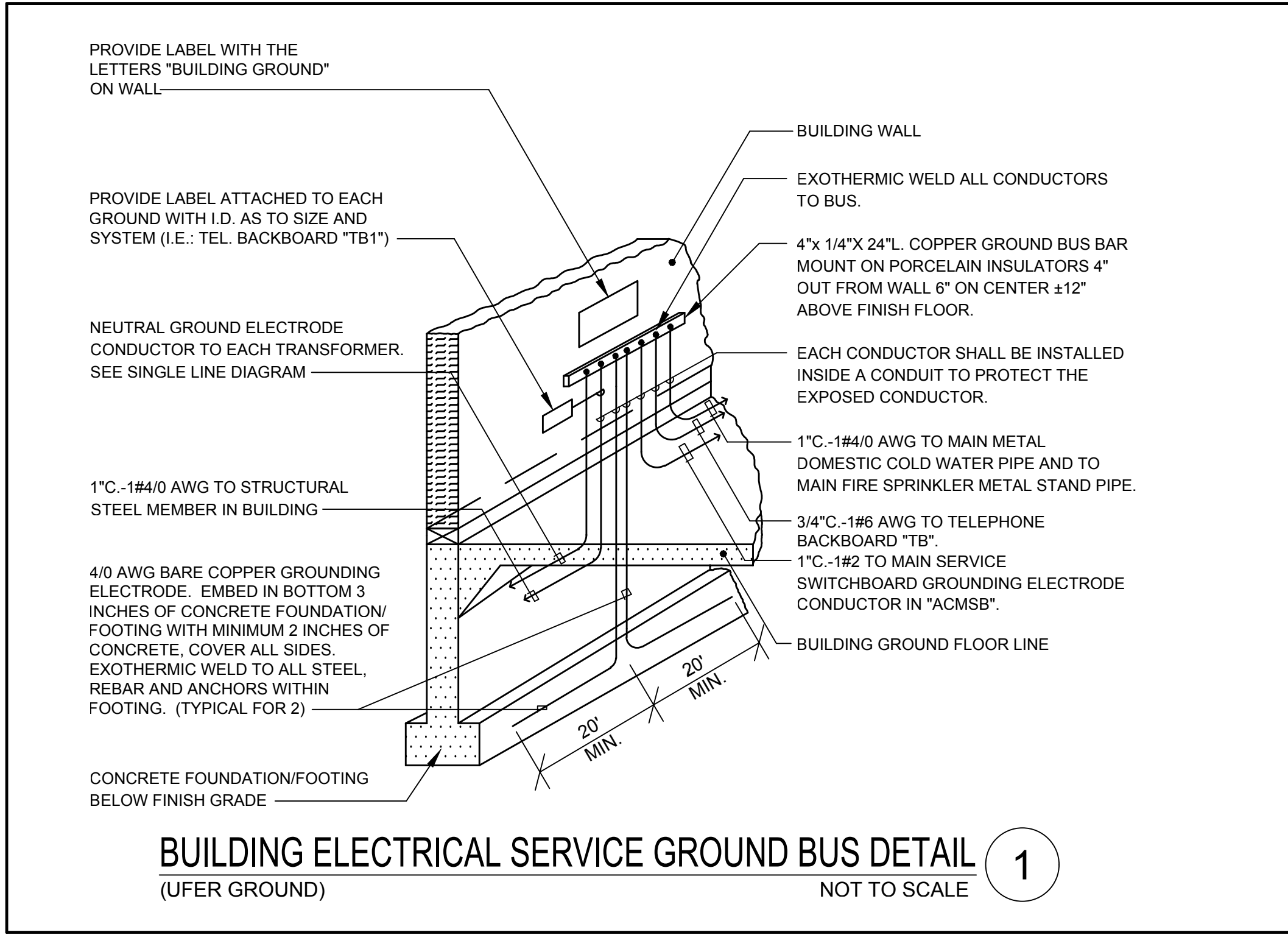
DIGALERT

 DIAL TOLL FREE
 1-800-422-4133
 AT LEAST TWO DAYS
 BEFORE YOU DIG
 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

The image contains two circular seals. The left seal is a Professional Engineer Seal for the State of California, Electrical Engineering. It features a star at the top and bottom, and the text "REGISTERED PROFESSIONAL ENGINEER", "ELECTRICAL", "STATE OF CALIFORNIA", "No. 10372", and "Exp. 09-30-22". The right seal is the City of Gardena Seal, featuring a landscape with a bridge and the text "CITY OF GARDENA", "INCORPORATED 1920", and "FARMER CITY".

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS - ENGINEERING
LIGHTING FIXTURE CUT SHEETS
COMMUNITY AQUATICS & SENIOR CENTER
E-0.02C

	INITIAL	DATE	APPROVED BY:	
DESIGNED BY	SR	05/25/2022		
DRAWN BY	SR	05/25/2022	DATE _____ DIRECTOR OF PUBLIC WORKS	
CHECKED BY	BZ	05/26/2022	SHT. <u>127</u> OF <u>157</u>	DWG. NO. _____



- SINGLE LINE DIAGRAM PLAN NOTES:**
- EMERGENCY LIGHTING BATTERY INVERTER SYSTEM. 2.8 KVA. 277V INPUT - 277V OUTPUT. (5) 20 AMP-1 POLE (NORMALLY ON) OUTPUT CIRCUIT BREAKERS. MYERS #4-EM4-S-BDA205-2YW OR APPROVED EQUAL.
 - TO UFR GROUND BUS. SEE DETAIL 1/E0.03.
 - PANEL PROVIDED AND INSTALLED BY POOL EQUIPMENT CONTRACTOR.
 - SWITCH AND FUSE SIZE PER ELEVATOR MANUFACTURERS REQUIREMENTS. PROVIDE NORMALLY OPEN AUXILIARY CONTACT FOR CONNECTION TO ELEVATOR CONTROLLER.
 - CONNECT SHUNT TRIP BREAKER RELAY COIL TO FIRE ALARM SYSTEM.
 - SHUNT TRIP CIRCUIT BREAKER. CIRCUIT BREAKER TO OPEN WHEN ELEVATOR MACHINE ROOM OR ELEVATOR SHAFT HEAT DETECTOR IS ACTIVATED.
 - PROVIDE EQUIPMENT GROUND CONDUCTORS. THE CONDUIT SHALL NOT BE USED AS THE SOLE GROUNDING MEANS.
 - (2) 2\"/>

- SINGLE LINE DIAGRAM GENERAL NOTES**
- THE ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE FULLY RATED FOR 65 K A.I.C.
 - PROVIDE SHORT CIRCUIT PROTECTIVE DEVICE COORDINATION AND ARC-FLASH STUDY INCLUDING THE ENGINEERED SETTINGS FOR EACH FUSE AND ADJUSTABLE CIRCUIT BREAKER SHOWING THE CORRECT TIME AND CURRENT SETTINGS TO PROVIDE COORDINATION WITHIN THE LIMITS OF THE SPECIFIED EQUIPMENT. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 - THE BASIS OF DESIGN AND DIMENSIONS USED FOR SWITCHBOARDS/METER BANKS ARE BASED UPON SIEMENS MANUFACTURED PRODUCTS. IF ANOTHER MANUFACTURES PRODUCT IS FURNISHED, CONTRACTOR SHALL INSURE THAT THE PRODUCT WILL FIT WITHIN THE SPACE PROVIDED.
 - PROVIDE EQUIPMENT GROUND CONDUCTOR IN ELEVATOR FEEDER. THE CONDUIT SHALL NO BE USED AS THE SOLE GROUNDING MEANS.

FEEDER SCHEDULE						
COPPER CONDUCTORS THW 600V (AWG)						
FEEDER TYPE	CONDUIT SIZE	CONDUCTORS IN EACH CONDUIT	QUAN.	SIZE	QUAN.	SIZE
			QUAN.	SIZE	QUAN.	SIZE
F20	1 3/4"	4 12	12			
F30	1 3/4"	4 10	10			
F40	1 1"	4 8	10			
F50	1 1 1/4"	4 6	10			
F60	1 1 1/2"	4 4	10			
F70	1 1 1/2"	4 4	8			
F80	1 2"	4 2	8			
F90	1 2"	4 2	8			
F100	1 2"	4 1	6			
F110	1 2"	4 1	6			
F125	1 2"	4 1/0	6			
F130	1 2"	4 1/0	6			
F175	1 2"	4 2/0	6			
F200	1 2 1/2"	4 3/0	6			
F225	1 2"	4 4/0	4			
F250	1 2"	4 250MCM	4			
F275	1 4"	4 350MCM	4			
F300	1 4"	4 500MCM	4			
F350	1 4"	4 500MCM	2			
F400	2 2 1/2"	4 3/0	2			
F500	2 2"	4 250MCM	2			
F600	2 4"	4 250MCM	1			
F700	2 4"	4 350MCM	1/0			
F800	3 4"	4 350MCM	1/0			
F900	3 4"	4 500MCM	2/0			
F1000	3 4"	4 500MCM	2/0			
F1200	4 4"	4 500MCM	3/0			
F1600	5 4"	4 500MCM	4/0			
F2000	6 4"	4 500MCM	250MCM			
F2500	7 4"	4 500MCM	350MCM			
F3000	8 4"	4 500MCM	500MCM			
F4000	11 4"	4 500MCM	500MCM			
F700/N	1 3/4"	3 12	12			
F300/N	1 3/4"	3 10	10			
F400/N	1 1"	3 8	10			
F500/N	1 1"	3 6	10			
F600/N	1 1 1/4"	3 4	10			
F700/N	1 1 1/4"	3 4	8			
F800/N	1 1 1/4"	3 2	8			
F900/N	1 1 1/4"	3 2	8			
F1000/N	1 1 1/2"	3 1	8			
F1100/N	1 1 1/2"	3 1	6			
F1250/N	1 2"	3 1/0	6			
F1500/N	1 2"	3 1/0	6			
F1750/N	1 2"	3 2/0	6			
F2000/N	1 2 1/2"	3 4/0	6			
F2250/N	1 2 1/2"	3 250MCM	4			
F2500/N	1 2 1/2"	3 250MCM	4			
F2750/N	1 2"	3 250MCM	4			
F3000/N	1 2"	3 250MCM	4			
F3500/N	1 4"	3 500MCM	2			
F4000/N	2 2 1/2"	3 4/0	2			
F4500/N	2 2 1/2"	3 4/0	2			
F5000/N	2 2 1/2"	3 250MCM	2			
F6000/N	2 2"	3 250MCM	1			
F7000/N	2 4"	3 500MCM	1/0			
F8000/N	3 2"	3 250MCM	1/0			
F9000/N	3 2"	3 250MCM	2/0			

REVISIONS		
NO.	DESCRIPTION	DATE

CITY OF GARDENA			
DEPARTMENT OF PUBLIC WORKS - ENGINEERING			
SINGLE LINE DIAGRAM			
COMMUNITY AQUATICS & SENIOR CENTER			
E-0.03			
DESIGNED BY:	INITIAL	DATE	APPROVED BY:
DRAWN BY:	SH	09/29/2022	DATE
CHECKED BY:	SH	09/29/2022	DATE
SHT. 129 OF 157		DWG. NO.	

STATE OF CALIFORNIA Indoor Lighting NRCC-17-E		CALIFORNIA ENERGY COMMISSION NRCC-17-E (Page 6 of 8)	
CERTIFICATE OF COMPLIANCE			
Project Name: Community Aquatics & Senior Center		Report Page:	
Project Address: 1700 W. 162nd St.		Date Prepared:	9/15/2022
L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY			
This section does not apply to this project.			
M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING			
This section does not apply to this project.			
N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS			
This section does not apply to this project.			
O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE			
This section does not apply to this project.			
P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))			
This section does not apply to this project.			
Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS			
This section does not apply to this project.			
R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS			
This section does not apply to this project.			
S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)			
This section does not apply to this project.			

Registration Number:

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

Registration Date/Time:

Report Version: 2019.1.003
Schema Version: rev 20200601

Registration Provider: Energysoft

Report Generated: 2022-09-15 10:48:05

STATE OF CALIFORNIA Indoor Lighting NRC-C-101-E				CALIFORNIA ENERGY COMMISSION NRC-C-101-E			
CERTIFICATE OF COMPLIANCE				CERTIFICATE OF NONCOMPLIANCE			
Project Name:		Community Aquatics & Senior Center		Report Page:		(Page 5 of 8)	
Project Address:		1700 W. 162nd St.		Date Prepared:		9/15/2022	

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS							
Conference First Floor	Convention, Conference, Multipurpose and Meeting Center Areas	0.85	174	147.9	No	No	
Multipurpose First Floor	Convention, Conference, Multipurpose and Meeting Center Areas	0.85	1,339	1,138.1	No	No	
Lobby First Floor	Main Entry Lobby	0.85	849	721.6	No	No	
Locker Room First Floor	Locker Dressing Room	0.45	51	23	No	No	
Misc First Floor	All Other Space Types	0.4	268	107.2	No	No	
Storage Second Floor	All Other Space Types	0.4	229	91.6	No	No	
Classroom Second Floor	Classroom, Lecture, or Training Vocational Area	0.7	2,810	1,967	No	No	
Misc Second Floor	All Other Space Types	0.4	18	7.2	No	No	
Electrical Room Second Floor	Electrical Mechanical Telephone Room	0.4	22	8.8	No	No	
Corridor Second Floor	Corridor Area	0.6	1,461	876.6	No	No	
Lounge Second Floor	Lounge Breakroom or Waiting Area	0.65	400	260	No	No	
Electrical/Mechanical Pool Building	Electrical Mechanical Telephone Room	0.4	520	208	No	No	
Storage Pool Building	All Other Space Types	0.4	511	204.4	No	No	
		TOTALS:	9,892	6,618.4	See Tables I, or P for detail		

Unconditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/R ²)	Area (R ²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category	PAF
Corridor First Floor	Corridor Area	0.6	94	56.4	No	No
			TOTALS:	94	56.4	See Tables J, or P for detail

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM
<i>This section does not apply to this project.</i>

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
<i>This section does not apply to this project.</i>

DATE OF CALCULATION				CITY OF CALIFORNIA			
INDOOR LIGHTING				CALIFORNIA ENERGY COMMISSION			
NRCC-131-E				NRCC-131-E			
CERTIFICATE OF COMPLIANCE				NRCC-131-E (Page 4 of 8)			
Project Name:		Community Aquatics & Senior Center		Report Page:			
Project Address:		1700 W. 162nd St.		Date Prepared:		9/15/2022	

H. INDOOR LIGHTING CONTROLS (Not including PFAs)
 This table includes lighting controls for conditioned and unconditioned spaces. When a control having a * is shown, the notes section of this table provides more detail on how compliance is achieved. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

D1			D2			D3		
Mandatory Demand Response §110.12(c)			Shut-off controls §130.1(c)			Field Inspector		
Required > 10,000 SF			Whole Building Auto Time Switch			Pass ☐ Fail ☐		

D4		D5		D6		D7		D8		D9		D10		D11		D12	
Area Description		Complete Building or Area Category Primary Function Area		Area Controls §130.1(a)		Multi-Level Controls §130.1(b)		Shut-Off Controls §130.1(c)		Primary/Skylight Daylighting §130.1(d)		Secondary Daylighting §140.6(d)		Interlocked Systems §140.6(e)		Field Inspector	
																Pass ☐ Fail ☐	

*NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
 EX: Exception 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.12(d)

13											
Plan Sheet Showing Daylight Zones:											

LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
 Each area complying using the Complete Building or Area Category Methods per §140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used .

D1		D2		D3		D4		D5		D6	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment Area Category	PAF					
Food Prep Area First Floor	Kitchen/ Food Preparation Area	0.95	538	511.1	No	No					
Electrical Room First Floor	Electrical/Mechanical Telephone Room	0.4	304	121.6	No	No					
Storage First Floor	All Other Space Types	0.4	181	72.4	No	No					
Office First Floor	Office 250 square feet or less	0.7	217	151.9	No	No					

Registration Number:	Registration Date/Time:	Registration Provider: Energysoft
CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance	Report Version: 2019.1.003 Schema Version: rev 20200601	Report Generated: 2022-09-15 10:48:05



FBA Engineering

Consulting Electrical Engineers

150 Pasadena Avenue, Suite A100
Costa Mesa, CA 92626
404.832.5599 • 404.832.1657 (fax)
fbagr@gmail.com

FBA Job Number: 5335950



1937-1938
APR 10 1937
APR 09-30-32



CITY OF GARDENA
INCORPORATED 1930

RECEIVED

APR 10 1937

APR 09-30-32



1937-1938
APR 10 1937
APR 09-30-32



CITY OF GARDENA
INCORPORATED 1930

RECEIVED

APR 10 1937

APR 09-30-32



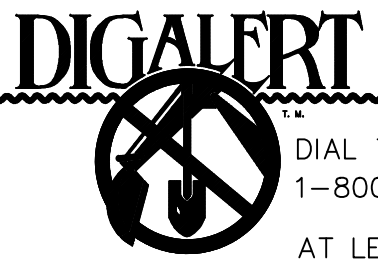
1937-1938
APR 10 1937
APR 09-30-32



CITY OF GARDENA
INCORPORATED 1930

	R E V I S I O N S				CITY OF GARDENA DEPARTMENT OF PUBLIC WORKS - ENGINEERING <u>TITLE 24 - INDOOR</u> MUNICIPALITY AQUATICS & SENIOR CENTER E-005											
	NO.	DESCRIPTION	DATE	APPROVED												
8.M.: THE CITY OF GARDENA BENCHMARK NO. 50-15 ELEV. = 43.508				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">DESIGNED BY</td> <td style="width: 30%;">SR</td> <td style="width: 30%;">DATE</td> <td style="width: 10%;">04/25/2002</td> </tr> <tr> <td>DRAWN BY</td> <td>SR</td> <td>DATE</td> <td>04/25/2002</td> </tr> <tr> <td>CHECKED BY</td> <td>SR</td> <td>DATE</td> <td>04/25/2002</td> </tr> </table>	DESIGNED BY	SR	DATE	04/25/2002	DRAWN BY	SR	DATE	04/25/2002	CHECKED BY	SR	DATE	04/25/2002
DESIGNED BY	SR	DATE	04/25/2002													
DRAWN BY	SR	DATE	04/25/2002													
CHECKED BY	SR	DATE	04/25/2002													
SHT. <u>131</u> OF <u>157</u> DWG. NO.																

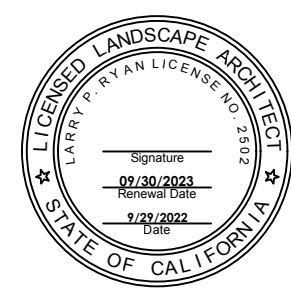
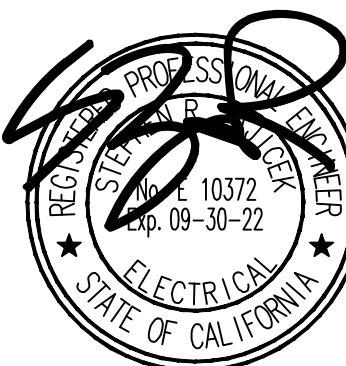
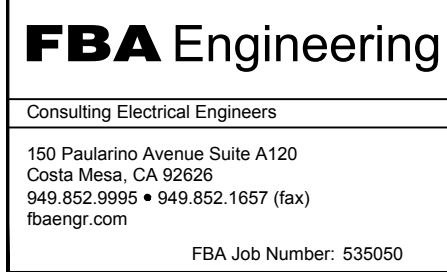
FBA Engineering / Plot Date: 9/29/2022 8:24 AM / Plotted by: Steve Roth / Drawing Location: I:\335050\91E-0-06-535650.dwg



DIAL TOLL FREE
1-800-422-4133

AT LEAST TWO DAYS
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



REVISIONS		
NO.	DESCRIPTION	DATE

CITY OF GARDENA DEPARTMENT OF PUBLIC WORKS - ENGINEERING			
TITLE 24 - OUTDOOR COMMUNITY AQUATICS & SENIOR CENTER E-0.06			
DESIGNED BY	SH	DATE	05/25/2022
DRAWN BY	SH	DATE	05/25/2022
CHECKED BY	AZ	DATE	06/26/2022
SHT. 132 OF 157		DWG. NO.	

INITIAL		DATE		APPROVED BY:	
DIRECTOR OF PUBLIC WORKS					

9.M. THE CITY OF GARDENA BENCHMARK NO. SD-15
ELEV. = 63.508'

FILE PATH: I:\335\050\1-E-06-535050.DWG, PLOT TIME: 9/29/2022 8:24:40 AM, PLOT TIME: 9/29/2022 8:40:40 AM

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Community Aquatics & Senior Center
Project Address: 1700 W. 162nd St.
Report Page: (Page 3 of 6)
Date Prepared: 9/15/2022

F. OUTDOOR LIGHTING FIXTURE SCHEDULE
For new or altered lighting systems demonstrating compliance with §140.7, all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §143.0(b)(2), only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (i.e. existing luminaires remaining or existing luminaires being moved are not included).
Designed Wattage:

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire ¹	How is Wattage determined	Total number luminaires ²	Luminaire Status ³	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b) ⁴	Field Inspector
S1	23w LED Wall Mounted Wedge Fixture, Dark Bronze Finish.	22.5	Mfr. Spec	8	New		180	NA: < 6200 lumens	Pass
S2	LED Low-Voltage Bullet Fixture Mounted To Palm Tree Via Tree Ring.	12.3	Mfr. Spec	45	New		553.5	NA: < 6200 lumens	Pass
S3	73w LED Pedestrian Pole Fixture On Concrete Pole Base.	73	Mfr. Spec	7	New		511	NA: < 6200 lumens	Pass
S4	8.4w LED Compact Adjustable Accent Light.	8.4	Mfr. Spec	2	New		16.8	NA: < 6200 lumens	Pass
Total Design Watts:								1261.3	

¹ NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
² Luminaire is lighting a fixture. EXCEPTION: >= §130.2(b)
³ FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)
⁴ For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
⁵ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
⁶ Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)

G. CUTOFF REQUIREMENTS (BUG)
This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Schema Version: rev 20200601
Report Generated: 2022-09-15 10:48:05

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Community Aquatics & Senior Center
Project Address: 1700 W. 162nd St.
Report Page: (Page 6 of 6)
Date Prepared: 9/15/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Steve Zajick
Company: FBA Engineering
Address: 150 Paularino Avenue Suite A120
City/State/Zip: Costa Mesa CA 92626

Documentation Author Signature: [Signature]
Signature Date: 2022-09-15
CEA/HERS Certification Identification (if applicable): E10372
Phone: 9498529995

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the building permit(s) to be building owner at occupancy.

Responsible Designer Name: Stephen B. Zajick, P.E.
Company: FBA Engineering
Address: 150 Paularino Ave., Suite A120
City/State/Zip: Costa Mesa CA 92626

Date Signed: 2022-09-15
License: E10372
Phone: 949-852-9995

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Schema Version: rev 20200601
Report Generated: 2022-09-15 10:48:05

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Community Aquatics & Senior Center
Project Address: 1700 W. 162nd St.
Report Page: (Page 2 of 6)
Date Prepared: 9/15/2022

C. COMPLIANCE RESULTS
Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)(2)

01	02	03	04	05	06	07	08	09
General Hardscape Allowance §140.7(d)(1)	Per Application §140.7(d)(2) (See Table J)	Sales Frontage §140.7(d)(2) (See Table K)	Ornamental §140.7(d)(2) (See Table L)	Per Specific Area §140.7(d)(2) (See Table M)	Existing Power Allowance §143.0(b)(3) (See Table N)			
1,344.69	+	---	+	---	+	---	OR	---
Cutoff Compliance (See Table G for Details)						N/A		
Controls Compliance (See Table H for Details)						COMPLIES		

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Schema Version: rev 20200601
Report Generated: 2022-09-15 10:48:05

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Community Aquatics & Senior Center
Project Address: 1700 W. 162nd St.
Report Page: (Page 5 of 6)
Date Prepared: 9/15/2022

J. LIGHTING ALLOWANCE: PER APPLICATION
This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE
This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL
This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTO-01-E - Must be submitted for all buildings.	☐	☐

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no NRCA forms required for this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Schema Version: rev 20200601
Report Generated: 2022-09-15 10:48:05

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Community Aquatics & Senior Center
Project Address: 1700 W. 162nd St.
Report Page: (Page 1 of 6)
Date Prepared: 9/15/2022

A. GENERAL INFORMATION

01 Project Location (city)	Gardena	04 Total Illuminated Hardscape Area (ft ²)	19703
02 Climate Zone	8		
03 Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):			
☐ L2-0: Very Low - Undeveloped Parkland	☐ L2-2: Moderate - Rural Areas	☐ L2-4: High - Must be reviewed by CA Energy Commission for Approval	
☐ L2-1: Low - Developed Parkland	☒ L2-3: Moderately High - Urban Areas		

B. PROJECT SCOPE
This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §143.0(b)(2), for alterations.

My Project Consists of:

01	02
☒ New Lighting System	Must Comply with Allowances from §140.7
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?
03 % of Existing Luminaires Being Altered ¹	04 Sum Total of Luminaires Being Added or Altered
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%	05 Calculation Method

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Schema Version: rev 20200601
Report Generated: 2022-09-15 10:48:05

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Community Aquatics & Senior Center
Project Address: 1700 W. 162nd St.
Report Page: (Page 4 of 6)
Date Prepared: 9/15/2022

H. OUTDOOR LIGHTING CONTROLS
This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Mandatory Controls

01	02	03	04	05
Area Description	Shut-Off §130.2(c)(1)	Auto-Schedule §130.2(c)(2)	Motion Sensor §130.2(c)(3)	Field Inspector
				Pass
				Fail

¹ NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off. EXCEPTION: 1 to §130.2(c)

I. LIGHTING POWER ALLOWANCE (per §140.7)
This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

General Hardscape Allowance Table I (below)		01 "Use it or lose it" Allowance (select all that apply) (select all that apply)				
		☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (L2 0, 1 & 4)						
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (L2 2 & 3)						
02	03	04	05	06	07	08
Area Description	Surface Type	Illuminated Area (ft ²)	Allowed Density (W/ft ²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)
Pedestrian Hardscape	Concrete	19703	0.03	591.1	1009	0.4
					403.6	995
					Initial Wattage Allowance for Entire Site (Watts):	
					Total General Hardscape Allowance (Watts):	
					1345	

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: Report Version: 2019.1.003
Registration Provider: Energysoft
Schema Version: rev 20200601
Report Generated: 2022-09-15 10:48:05

PLAN NOTES

- (2) 5" C.O. (POWER COMPANY TRANSFORMER SECONDARY). COORDINATE EXACT REQUIREMENTS WITH DRY UTILITY PLANS.
- (1) 5" C.O. (POWER COMPANY TRANSFORMER PRIMARY). COORDINATE EXACT REQUIREMENTS WITH DRY UTILITY PLANS.
- (2) 2" C. (TELECOM.) COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DRY UTILITY PLANS.
- 4' X 6' TRANSFORMER SLAB BOX PER POWER COMPANY REQUIREMENTS. COORDINATE EXACT REQUIREMENTS WITH DRY UTILITY PLANS.
- (2) 1 1/4" C.O. (TELECOM.). STUB UP INTO ACCESSIBLE CEILING SPACE OF BREAK ROOM AND +12" A.F.F. IN POOL BUILDING ELECTRICAL ROOM.
- 3/4" C. - 2#12, 1#12 GRD.
- 3/4" C. - 4#12, 1#12 GRD.
- CONTINUE THROUGH REST OF BRANCH CIRCUIT RUN, UNLESS NOTED OTHERWISE.
- ROUTE CIRCUIT THROUGH DESIGNATED RELAY IN DESIGNATED LIGHTING CONTROL PANEL (LCP#) SEE SCHEDULES ON E-0.02.
- POOL PANELS "PL1 & PP1" PROVIDED & INSTALLED BY POOL EQUIPMENT CONTRACTOR. SEE E-0.03 FOR FEEDER REQUIREMENTS. COORDINATE EXACT LOCATION & REQUIREMENTS WITH POOL EQUIPMENT PLANS & SPECIFICATIONS.
- PLACE CODE SIZED COMPOSITE PULLBOX IN PLANTER. LABEL "LIGHTING".
- LOW VOLTAGE CABLING PER MANUFACTURER'S REQUIREMENTS.
- 4S WEATHERPROOF J-BOX AT BASE OF TREE FOR SPEAKER CABLING. SEE DETAIL 3/E-4.01.
- 1" C.O. (SPEAKER CABLING) TO TEL. BACKBOARD "TBP" IN POOL BUILDING.
- 3/4" C.O. (SPEAKER CABLING).
- 3/4" C.-6#12, 1#12 GRD.

SITE PLAN GENERAL NOTES:

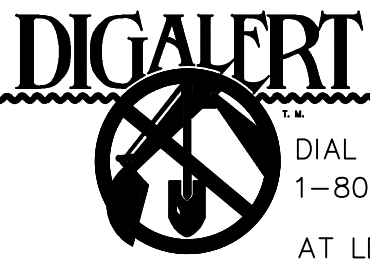
- LOCATIONS OF EXISTING UTILITIES ARE NOT SHOWN AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, OR CONDUITS, ETC., AND TO PREVENT HAZARDS TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES, WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER. THE ENGINEER SHOULD SEARCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
- CONTRACTOR SHALL VERIFY THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO COMMENCEMENT OF WORK BY CONTACTING UNDERGROUND SERVICE ALERT (U.S.A.) AT 1(800) 422-4133, OR OTHER LOCAL APPLICABLE UNDERGROUND SERVICE ALERT AGENCIES.
- THE DRAWINGS ILLUSTRATE LOCATIONS OF EQUIPMENT AND ASSEMBLIES, PULLBOXES, MANHOLES, HANDHOLES, AND VAULTS, INCLUDING OTHER ELECTRICAL UNDERGROUND STRUCTURES AND PATHWAYS. CONTRACTOR SHALL CLOSELY COORDINATE EXACT LOCATIONS AND MOUNTING DEPTHS OF ALL DEVICES, STRUCTURES AND PATHWAYS WITH OTHER TRADES PRIOR TO PLACEMENT. TO ENSURE FINAL LOCATIONS ARE OUTSIDE FEATURE LANDSCAPE AND ARCHITECTURAL AREAS AND ARE NOT IN CONFLICT WITH THE INSTALLATION OF MATERIALS BY OTHER TRADES.
- SEE ARCHITECTURAL, CIVIL AND LANDSCAPE PLANS FOR EXACT LOCATION OF FIXTURES, PULLBOXES, MANHOLES, OTHER ELECTRICAL EQUIPMENT AND DEVICES, ETC. COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH ARCHITECT OR OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN, TO ENSURE SUCH ITEMS ARE NOT PLACED IN PLANTING / HARDSCAPE AREAS.
- ALL EQUIPMENT LOCATED OUTDOORS SHALL BE WEATHERPROOF, NEMA 3R RATED.
- ALL UNDERGROUND CONDUIT SIZE SHALL NOT BE LESS THAN 1/2" - U.N.O.
- MINIMUM CONDUCTOR SIZE SHALL BE #10 AWG. - U.N.O.
- ALL SITE BRANCH CIRCUIT CONDUIT RUNS SHALL INCLUDE AN EQUIPMENT GROUND THAT AT A MINIMUM, MATCHES THE SIZE OF THE LARGEST BRANCH CIRCUIT CONDUCTOR.
- PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

SITE UTILITY GENERAL NOTES

- UTILITY POINTS OF SERVICE AND WORKMATERIAL SHOWN ARE BASED UPON PRELIMINARY INFORMATION ONLY BY THE UTILITY COMPANIES AND ARE FOR BID PURPOSES ONLY, NOT FOR CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK AND MATERIAL REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL WIRES, CABLES, PULLBOXES, CONCRETE ENCASMENT OF CONDUITS, TRANSFORMER PAD, BREAKERS, TRENCHING AND BACKFILL, AND PAY ALL UTILITY COMPANY FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.
- LOCATIONS OF UTILITIES WHERE SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON SITE TO AVOID EXISTING DUCTS, PIPING, OR CONDUITS, ETC., AND TO PREVENT HAZARD TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
- UNLESS SPECIFICALLY SHOWN AS (E), (R), (ER), (D), EXISTING OR NON-BOLD, ALL ELECTRICAL LINE WORK SHOWN IS NEW.

SITE ELECTRICAL PLAN

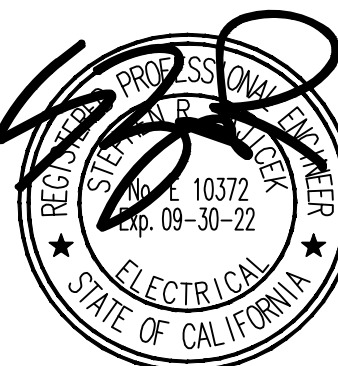
SCALE: 3/32"=1'-0" 1



DIAL TOLL FREE
1-800-422-4133
AT LEAST TWO DAYS
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

FBA Engineering
Consulting Electrical Engineers
150 Piedra Avenue Suite A120
Costa Mesa, CA 92626
949 852 9955 • 949 852 1657 (fax)
fbagr.com FBA Job Number: 530550



PREPARED BY:

RJM DESIGN GROUP
31591 Camino Capistrano
San Juan Capistrano, CA 92675
www.RJMDesignGroup.com
(949) 433-2500 fax
(949) 433-2500 phone

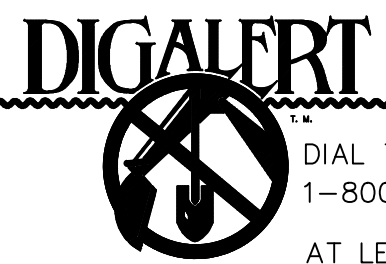


REVISIONS		
NO.	DESCRIPTION	DATE

CITY OF GARDENA		
DEPARTMENT OF PUBLIC WORKS - ENGINEERING		
SITE ELECTRICAL PLAN		
COMMUNITY AQUATICS & SENIOR CENTER		
E-1.01		
DESIGNED BY: JR	DATE: 05/25/2022	APPROVED BY:
DRAWN BY: JR	DATE: 05/25/2022	DATE:
CHECKED BY: AZ	DATE: 05/25/2022	DATE:
SHT. 133 OF 157		DWG. NO.

FILE PATH: I:\535\0501-E-1.01_530550.DWG, PLOT TIME: 9/29/2022 8:24:51 AM

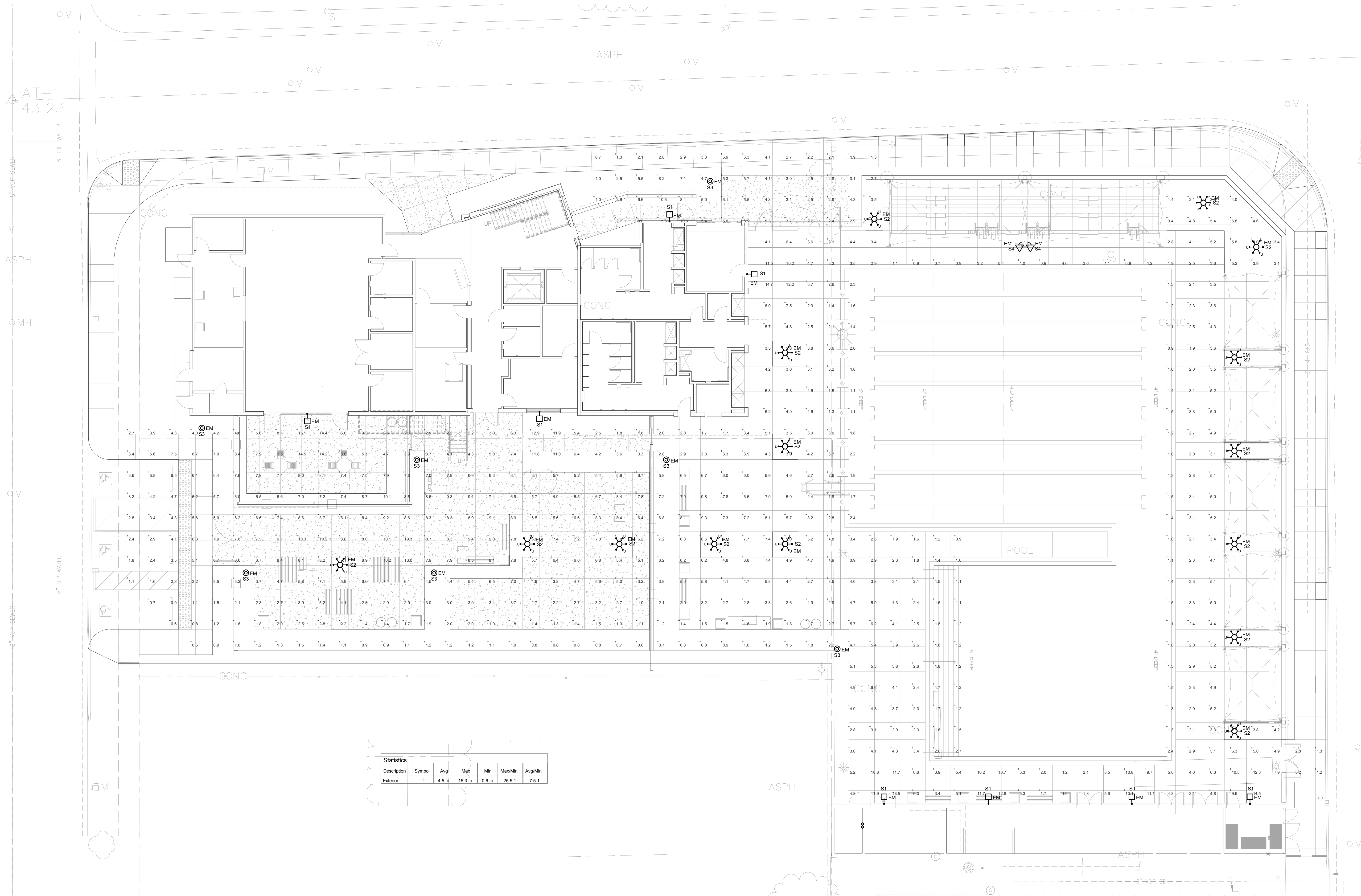
FBA Engineering / Plot Date: 9/29/2022 8:24 AM / Drawing Location: I:\3305050\E-1.01_535050.dwg



DIAL TOLL FREE
1-800-422-4133

AT LEAST TWO DAYS
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Exterior	+	4.5 ft	15.3 ft	0.6 ft	25.5 ft	7.5 ft

SITE PHOTOMETRIC PLAN

SCALE:
3/32"=1'-0"

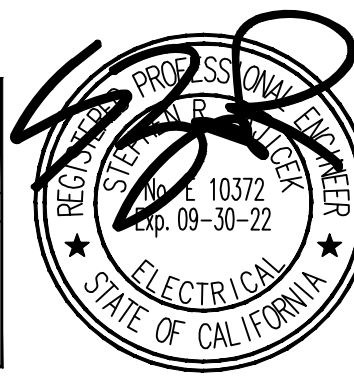


FBA Engineering

Consulting Electrical Engineers

150 Piedra Avenue Suite A120
Covina, CA 91724
949 852 9995 • 949 852 1657 (fax)
fbaengr.com

FBA Job Number: 535050



PREPARED BY:



31591 Camino Capistrano
San Juan Capistrano, CA 92675
www.RJMDesignGroup.com
(949) 433-2500 fax
(949) 433-2500 phone



REVISIONS

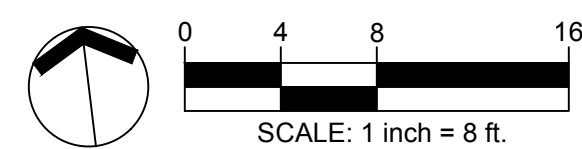
NO.	DESCRIPTION	DATE	APPROVED

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS - ENGINEERING

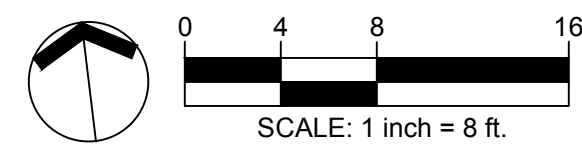
SITE PHOTOMETRIC PLAN
COMMUNITY AQUATICS & SENIOR CENTER
E-1.01A

DESIGNED BY	DATE	APPROVED BY:
SH	05/25/2022	
DRAWN BY	DATE	DIRECTOR OF PUBLIC WORKS
SH	05/25/2022	
CHECKED BY	DATE	

SHT. 134 OF 157 DWG. NO. 535050
FILE PATH: I:\3305050\E-1.01_535050.DWG, PLOT TIME: 9/29/2022 8:24:52 AM



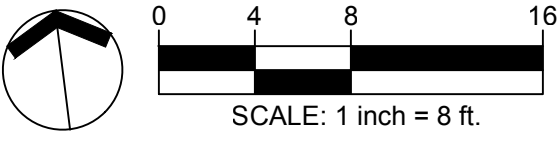
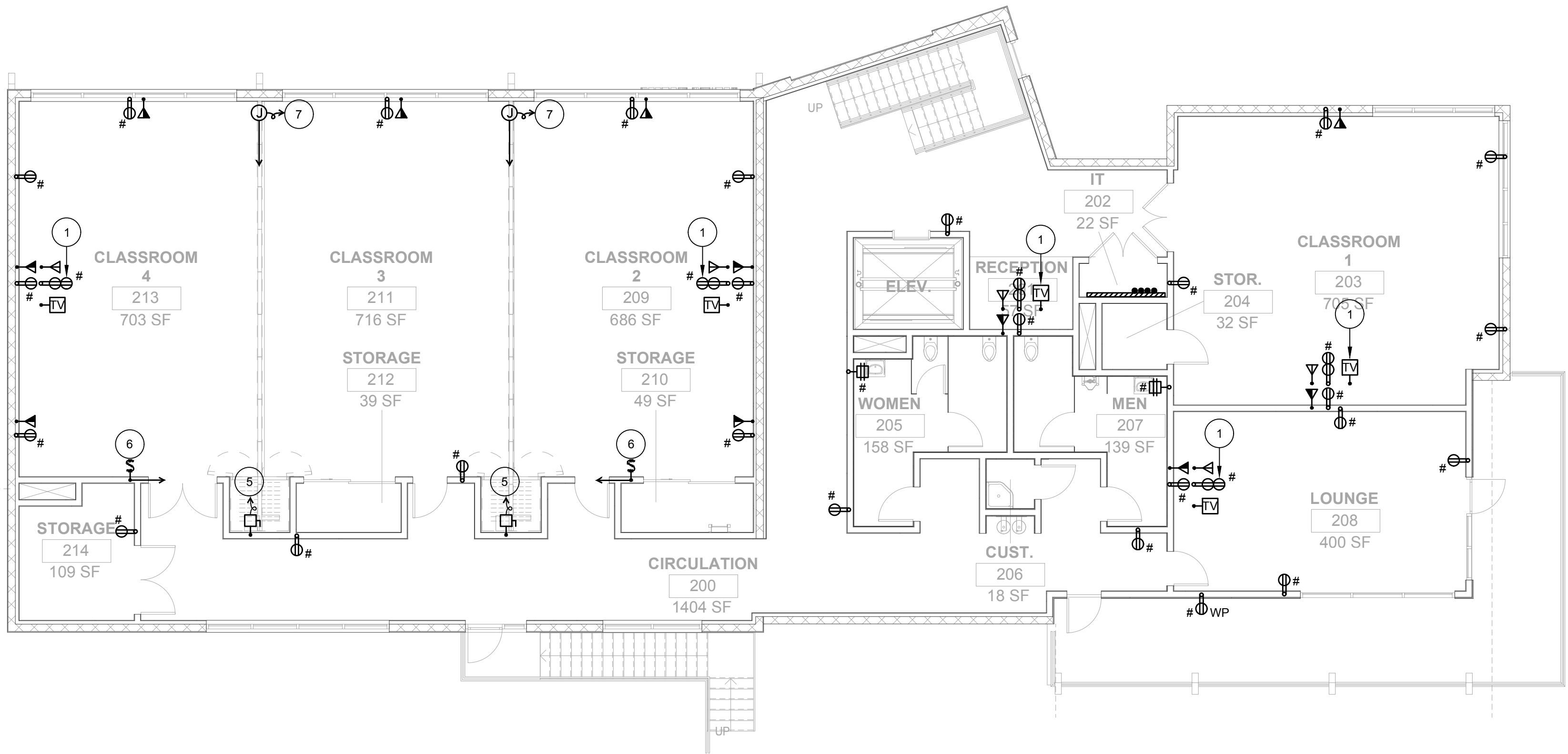
SCALE:	2
1/8"=1'-0"	



SCALE:	1
1/8"=1'-0"	

PLAN NOTES

- 1 OUTLETS FOR MONITOR. MOUNT +6'-0" AFF. COORDINATE EXACT LOCATION WITH ARCHITECT. TYPICAL FOR (3) DEVICES.
- 2 RECEPTACLE & SWITCH FOR GARBAGE DISPOSAL. MOUNT SWITCH +6" ABOVE COUNTER SPLASH. MOUNT RECEPTACLE UNDER SINK IN CABINET SPACE.
- 3 STUB INTO ACCESSIBLE CEILING SPACE.
- 4 CONNECT AS REQUIRED TO HAND DRYER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT.
- 5 CONNECT AS REQUIRED TO MOTORIZED PARTITION. PROVIDE WIRING AND CONNECTIONS AS REQUIRED PER MANUFACTURERS REQUIREMENTS FOR A COMPLETE AND OPERABLE PARTITION.
- 6 SWITCH FOR PARTITION CONTROL. PROVIDE WIRING AND CONNECTIONS AS REQUIRED. COORDINATE EXACT LOCATION WITH ARCHITECT.
- 7 PARTITION SYSTEM LIMIT SWITCH. PROVIDE WIRING AND CONNECTIONS AS REQUIRED PER MANUFACTURERS REQUIREMENTS FOR A COMPLETE AND OPERABLE PARTITION. PROVIDE 3/4"C. WITH WIRING AND CONNECTIONS AS REQUIRED TO PARTITION MOTOR.
- 8 (4) 2"C. (TELECOM.) STUB INTO ACCESSIBLE CEILING SPACE AND UP INTO 2nd FLOOR IT CLOSET.
- 9 (4) 1 1/4"C.O. (TELECOM.) TO POOL BUILDING. REFER TO NOTE #5 ON E-1.01 FOR CONTINUATION
- 10 3/4"C. - 3#12, 1#12 GRD.
- 11 3/4"C. - 3#10, 1#10 GRD.
- 12 3/4"C.-2#12, 1#12 GRD.
- 13 TO RECEPTACLE CIRCUIT IN ROOM.
- 14 POWERED BY OUTDOOR UNIT ON ROOF. PROVIDE 3/4"C.-2#12, 1#12 GRD. TO RESPECTIVE OUTDOOR INIT ON ROOF.
- 15 CONTROLLED BY LINE VOLTAGE T-STAT. COORDINATE EXACT LOCATION & REQUIREMENTS WITH MECHANICAL.
- 16 DDC CONTROL PANEL BY MECHANICAL. COORDINATE LOCATION & REQUIREMENTS WITH MECHANICAL.
- 17 PROVIDE POWER CONNECTION TO AUTO SENSOR FOR FAUCETS AND URINALS. PROVIDE 3/4"C.-2#12, 1#12 GRD. FROM RESTROOM RECEPTACLE CIRCUIT P1-#. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING.
- 18 RECEPTACLES FOR MICROWAVE BELOW COUNTER. COORDINATE EXACT LOCATION WITH ARCHITECT.



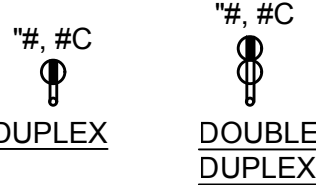
BUILDING SECOND FLOOR POWER & SIGNAL PLAN

SCALE: 1/8"=1'-0" 2

POWER & SIGNAL GENERAL NOTES:

1. ALL WALL MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH ARCHITECTURAL ROOM ELEVATIONS PRIOR TO ROUGH-IN.
2. PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED WITH AN APPROVED FIRE STOP SYSTEM EQUAL TO OR GREATER THAN THE RATING OF THE WALL BEING PENETRATED.
3. ALL DEVICES MOUNTED BACK-TO-BACK ON COMMON WALLS SHALL BE INSTALLED IN SEPARATE BOXES OFFSET 24-INCHES MINIMUM OR PROVIDED WITH PUTTY OR ANOTHER APPROVED SOUNDPROOF BACKING.
4. WHEN EXPOSED CEILING OR OPEN GRID CONDITIONS EXIST, CONTRACTOR SHALL PROVIDE:
- A. ALL BRANCH CIRCUITS TO BE INSTALLED IN EMT.
- B. ALL BRANCH CIRCUITS SHALL BE ROUTED PARALLEL TO BUILDING STRUCTURES AND RACKED NEATLY IN GROUPS OF MULTIPLE PATHWAYS.
- C. ALL LOW VOLTAGE CABLES SHALL BE:
- 1) INSTALLED IN EMT CONDUIT PATHWAYS OR
- 2) INSTALLED NEATLY IN CABLE MANAGEMENT OPEN BASKET OR LADDER TYPE WIREWAY SUPPORTED INDEPENDENTLY FROM STRUCTURE ABOVE.
- EXPOSED LOW VOLTAGE CABLING IN OPEN TYPE CEILING APPLICATIONS INSTALLED ON D-RINGS, J-HOOKS OR SIMILAR APPARATUS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY ARCHITECT/ENGINEER PRIOR TO ANY ROUGH-IN OR INSTALLATION. CONTRACTOR SHALL INCLUDE AN ALLOWANCE IN HIS BASE BID FOR THE INSTALLATION OF LOW VOLTAGE CABLES IN OPEN CEILING AS DESCRIBED.
5. EXPOSED CABLE/CONDUCTORS INSTALLED IN A PLENUM SPACE SHALL BE LISTED FOR SUCH ENVIRONMENT AND INSTALLATION SHALL CONFORM TO NEC OR CEC WHERE ADOPTED ARTICLE 300.22(C).
6. ALL RECEPTACLES MOUNTED AT 5-FEET-6-INCHES OR LOWER SHALL BE TAMPER-RESISTANT TYPE, EXCEPT RECEPTACLES FOR FIXED APPLIANCES AND/OR EQUIPMENT.
7. COORDINATE LOCATION OF ALL OUTLETS, RECEPTACLES, AND SWITCHES WITH ARCHITECT PRIOR TO ROUGH-IN.

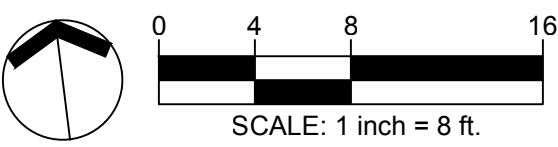
CONTROLLED RECEPTACLE DETAIL



NOTE:
SUBSCRIPT / SUPERScript "#C" INDICATES SPLIT WIRED RECEPTACLE CONTROLLED BY ROOM'S LIGHTING CONTROLS. REFER TO LIGHTING CONTROL SYSTEM DIAGRAM ON SHEET E002A FOR ADDITIONAL REQUIREMENTS. CONTROLLED PORTION OF RECEPTACLE SHALL BE IMPRINTED "CONTROLLED". REFER TO SYMBOLS LIST FOR ADDITIONAL INFORMATION.

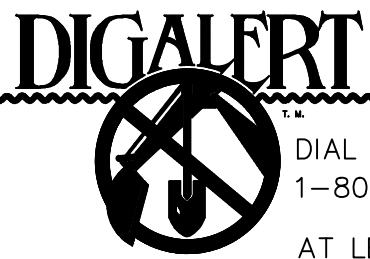
BRANCH CIRCUIT GENERAL NOTES

1. FOR CLARITY, SOME BRANCH CIRCUIT CONDUIT & CONDUCTOR REQUIREMENTS HAVE NOT BEEN SHOWN ON PLANS FOR POWER BRANCH CIRCUITS. FOR POWER THROUGHOUT ALL SPACES, PROVIDE CONDUIT AND CONDUCTORS IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS. PROVIDE #12 CONDUCTORS UNLESS SPECIFICALLY NOTED OTHERWISE.



BUILDING FIRST FLOOR POWER & SIGNAL PLAN

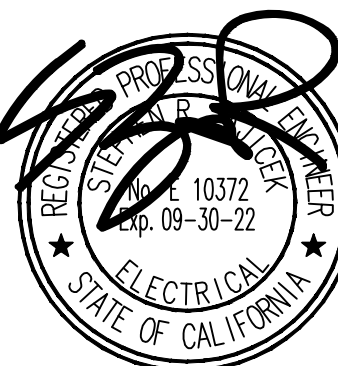
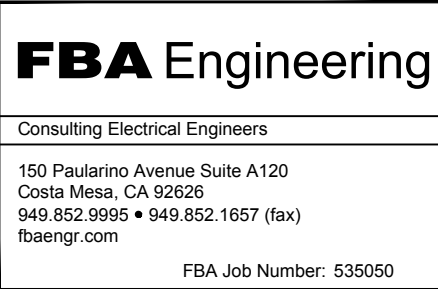
SCALE: 1/8"=1'-0" 1



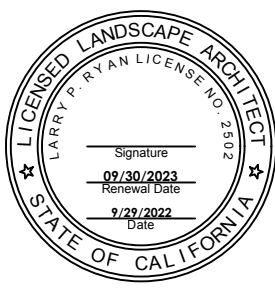
DIAL TOLL FREE
1-800-422-4133

AT LEAST TWO DAYS
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



PREPARED BY:



REVISIONS		
NO.	DESCRIPTION	DATE

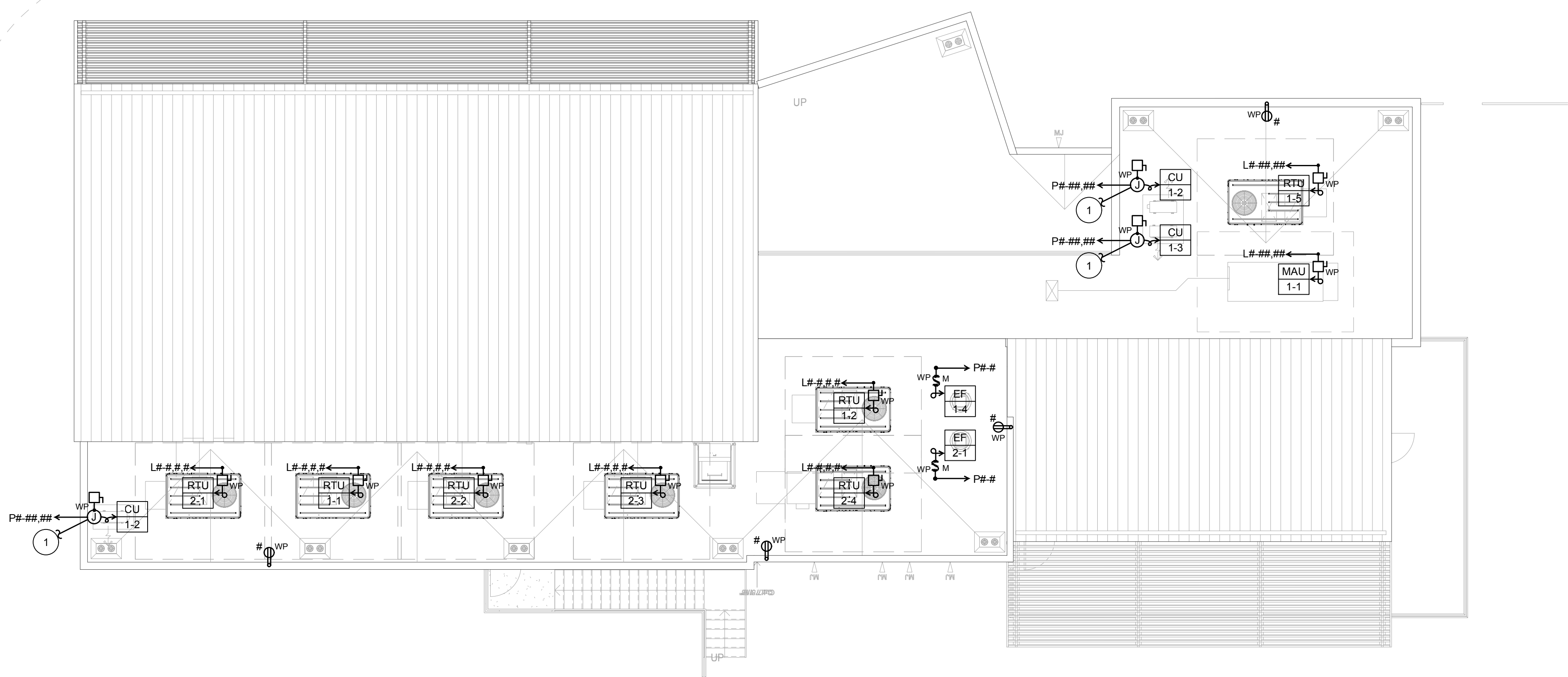
CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS - ENGINEERING
BUILDING POWER & SIGNAL PLANS
COMMUNITY AQUATICS & SENIOR CENTER
E-3.01

DESIGNED BY: SR	DATE: 05/25/2022	APPROVED BY:
DRAWN BY: SR	DATE: 05/25/2022	DIRECTOR OF PUBLIC WORKS
CHECKED BY: SR	DATE: 05/25/2022	
SHT. 137	OF 157	DWG. NO.

FILE PATH: I:\335\0501-E-3.01_530550.DWG, PLOT TIME: 9/29/2022 8:25:00 AM

PLAN NOTES

1 TO RESPECTIVE INDOOR FANCOIL UNIT. SEE NOTE #8 ON E3.01 FOR CONTINUATION.



MECHANICAL EQUIPMENT GENERAL NOTES

1. VERIFY EXACT LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF CONDUIT.
2. ALL EQUIPMENT, DEVICES, SAFETY SWITCH, JUNCTION BOXES CONNECTIONS, ETC. MOUNTED ON THE ROOF OR EXTERIOR SHALL BE WEATHERPROOF.
3. REFER TO MECHANICAL CONTROL DIAGRAMS FOR ALL SENSORS, TIME CLOCKS, RELAYS, TIMERS, STARTERS, LINE AND LOW VOLTAGE CONDUIT AND PROVIDE AS REQUIRED.
4. SAFETY SWITCHES SHALL BE HORSEPOWER RATED WITH CURRENT LIMITING FUSES, SIZED PER THE MANUFACTURER'S RECOMMENDATION. SWITCHES SHALL HAVE "RK-1" FUSE REJECTION CLIPS.
5. ELECTRICAL PLAN DO NOT INDICATE MECHANICAL AND PLUMBING EQUIPMENT CONTROL. REFER TO MECHANICAL AND PLUMBING PLANS AND SPECIFICATIONS AND PROVIDE ALL CONDUIT, WIRE, J-BOXES, OUTLET BOXES, RELAY SWITCHES, TIME SWITCHES, CONTROL CIRCUITS, ETC. REQUIRED FOR A COMPLETE AND OPERABLE MECHANICAL AND PLUMBING INSTALLATION. ALL WIRE SHALL BE INSTALLED IN CODE SIZED CONDUIT.
6. LOCATIONS OF SAFETY SWITCHES AND CONNECTIONS FOR MECHANICAL AND PLUMBING EQUIPMENT ARE SHOWN DIAGRAMMATICALLY. VERIFY ACTUAL LOCATIONS WITH EQUIPMENT SHOP DRAWINGS AND LOCATE SAFETY SWITCHES AS TO PROVIDE CODE REQUIRED CLEARANCES AND ACCESS. SAFETY SWITCHES LOCATED ON THE ROOF SHALL BE MOUNTED 30" MINIMUM ABOVE THE ROOF.

ROOF ELECTRICAL PLAN

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

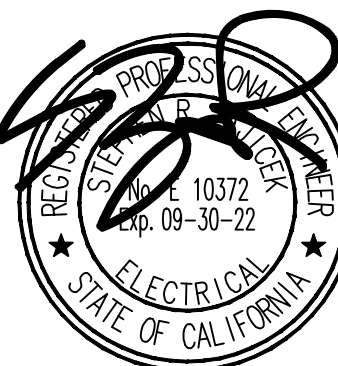
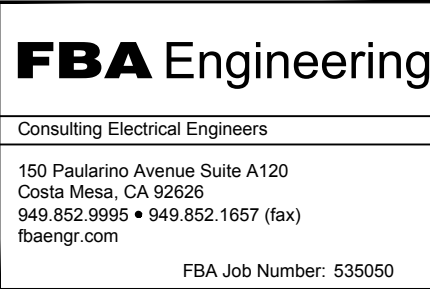
1



DIAL TOLL FREE
1-800-422-4133

AT LEAST TWO DAYS
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

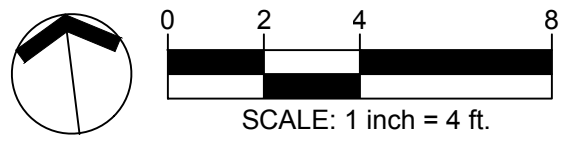
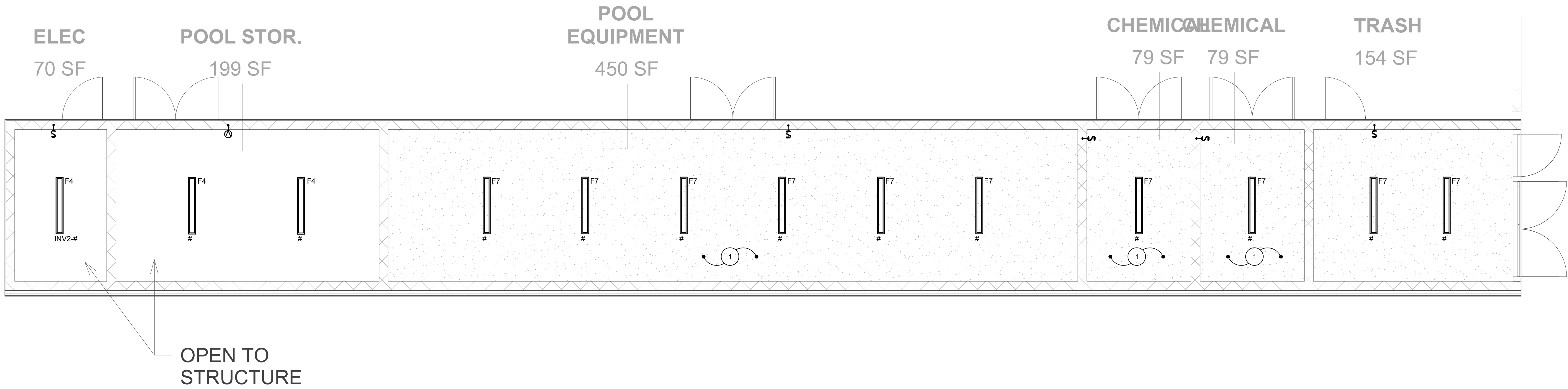


REVISIONS			CITY OF GARDENA DEPARTMENT OF PUBLIC WORKS - ENGINEERING			
NO.	DESCRIPTION	DATE	APPROVED	ROOF ELECTRICAL PLAN		
				COMMUNITY AQUATICS & SENIOR CENTER		
				E-3.02		
9.M. THE CITY OF GARDENA BENCHMARK NO. 50-15 ELEV. = 43.506'			DESIGNED BY SH	DATE 05/25/2022	APPROVED BY:	DIRECTOR OF PUBLIC WORKS
			DRAWN BY SH	DATE 05/25/2022		
			CHECKED BY AZ	DATE 06/26/2022		
					SHT. 138 OF 157	DWG. NO.

FILE PATH: I:\335\0501-E-3.02_E33000.DWG, PLOT TIME: 9/29/2022 8:23:04 AM

PLAN NOTES

- 1 ELECTRICAL INSTALLATION SHALL BE SUITABLE FOR A CORROSIVE ENVIRONMENT.
- 2
- 3
- 4
- 5



POOL BUILDING LIGHTING PLAN

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

2

GENERAL NOTES

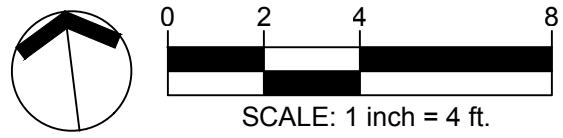
1. REFER TO TYPICAL LIGHTING CONTROL DIAGRAMS & NOTES ON E0.02.
2. FOR CLARITY, BRANCH CIRCUIT CONDUIT & CONDUCTOR REQUIREMENTS HAVE NOT BEEN SHOWN ON PLANS FOR NORMAL & EMERGENCY LIGHTING. FOR LIGHTING THROUGHOUT ALL SPACES, PROVIDE CONDUIT AND CONDUCTORS IN ACCORDANCE WITH ELECTRICAL SPECIFICATION. PROVIDE #12 CONDUCTORS UNLESS SPECIFICALLY NOTED OTHERWISE.
3. FOR EMERGENCY LIGHTING "EM" POWER BRANCH CIRCUITS, PROVIDE CONDUIT AND CONDUCTORS, SEPARATE FROM NORMAL POWER LIGHTING BRANCH CIRCUIT CONDUITS & CONDUCTORS. REFER TO NOTE #2 ABOVE. EMERGENCY LIGHTING BRANCH CIRCUITS SHALL HAVE SEPARATE NEUTRAL CONDUCTOR FOR EACH PHASE CONDUCTOR, SHARED NEUTRAL IS NOT ALLOWED. PROVIDE A NON-CONTROLLED (NON-SWITCHED) HOT CONDUCTOR, FROM EMERGENCY POWER SOURCE, FOR CONNECTION TO EXIT SIGNS.

POWER & SIGNAL GENERAL NOTES:

1. ALL WALL MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH ARCHITECTURAL ROOM ELEVATIONS PRIOR TO ROUGH-IN.
2. PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED WITH AN APPROVED FIRE STOP SYSTEM EQUAL TO OR GREATER THAN THE RATING OF THE WALL BEING PENETRATED.
3. ALL DEVICES MOUNTED BACK-TO-BACK ON COMMON WALLS SHALL BE INSTALLED IN SEPARATE BOXES OFFSET 24-INCHES MINIMUM OR PROVIDED WITH PUTTY OR ANOTHER APPROVED SOUNDPROOF BACKING.
4. WHEN EXPOSED CEILING OR OPEN GRID CONDITIONS EXIST, CONTRACTOR SHALL PROVIDE:
- A. ALL BRANCH CIRCUITS TO BE INSTALLED IN EMT.
- B. ALL BRANCH CIRCUITS SHALL BE ROUTED PARALLEL TO BUILDING STRUCTURES AND RACKED NEATLY IN GROUPS OF MULTIPLE PATHWAYS.
- C. ALL LOW VOLTAGE CABLES SHALL BE:
- 1) INSTALLED IN EMT CONDUIT PATHWAYS OR
- 2) INSTALLED NEATLY IN CABLE MANAGEMENT OPEN BASKET OR LADDER TYPE WIREWAY SUPPORTED INDEPENDENTLY FROM STRUCTURE ABOVE.
- EXPOSED LOW VOLTAGE CABLING IN OPEN TYPE CEILING APPLICATIONS INSTALLED ON D-RINGS, J-HOOKS OR SIMILAR APPARATUS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY ARCHITECT/ENGINEER PRIOR TO ANY ROUGH-IN OR INSTALLATION. CONTRACTOR SHALL INCLUDE AN ALLOWANCE IN HIS BASE BID FOR THE INSTALLATION OF LOW VOLTAGE CABLES IN OPEN CEILING AS DESCRIBED.
5. EXPOSED CABLE/CONDUCTORS INSTALLED IN A PLENUM SPACE SHALL BE LISTED FOR SUCH ENVIRONMENT AND INSTALLATION SHALL CONFORM TO NEC OR CEC WHERE ADOPTED ARTICLE 300.22(C).
6. ALL RECEPTACLES MOUNTED AT 5-FEET-6-INCHES OR LOWER SHALL BE TAMPER-RESISTANT TYPE, EXCEPT RECEPTACLES FOR FIXED APPLIANCES AND/OR EQUIPMENT.
7. COORDINATE LOCATION OF ALL OUTLETS, RECEPTACLES, AND SWITCHES WITH ARCHITECT PRIOR TO ROUGH-IN.

BRANCH CIRCUIT POWER GENERAL NOTES:

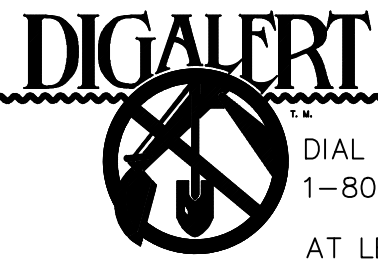
1. FOR CLARITY, SOME BRANCH CIRCUIT CONDUIT & CONDUCTOR REQUIREMENTS HAVE NOT BEEN SHOWN ON PLANS FOR POWER BRANCH CIRCUITS. FOR POWER THROUGHOUT ALL SPACES, PROVIDE CONDUIT AND CONDUCTORS IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS. PROVIDE #12 CONDUCTORS UNLESS SPECIFICALLY NOTED OTHERWISE.



POOL BUILDING POWER & SIGNAL PLAN

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

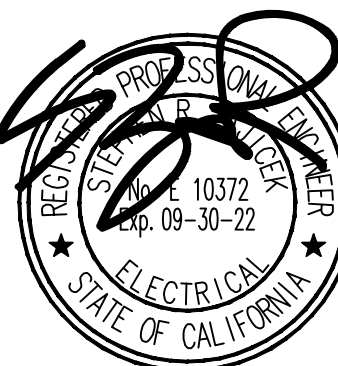
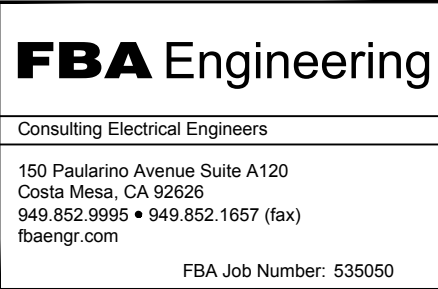
1



DIAL TOLL FREE
1-800-422-4133

AT LEAST TWO DAYS
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

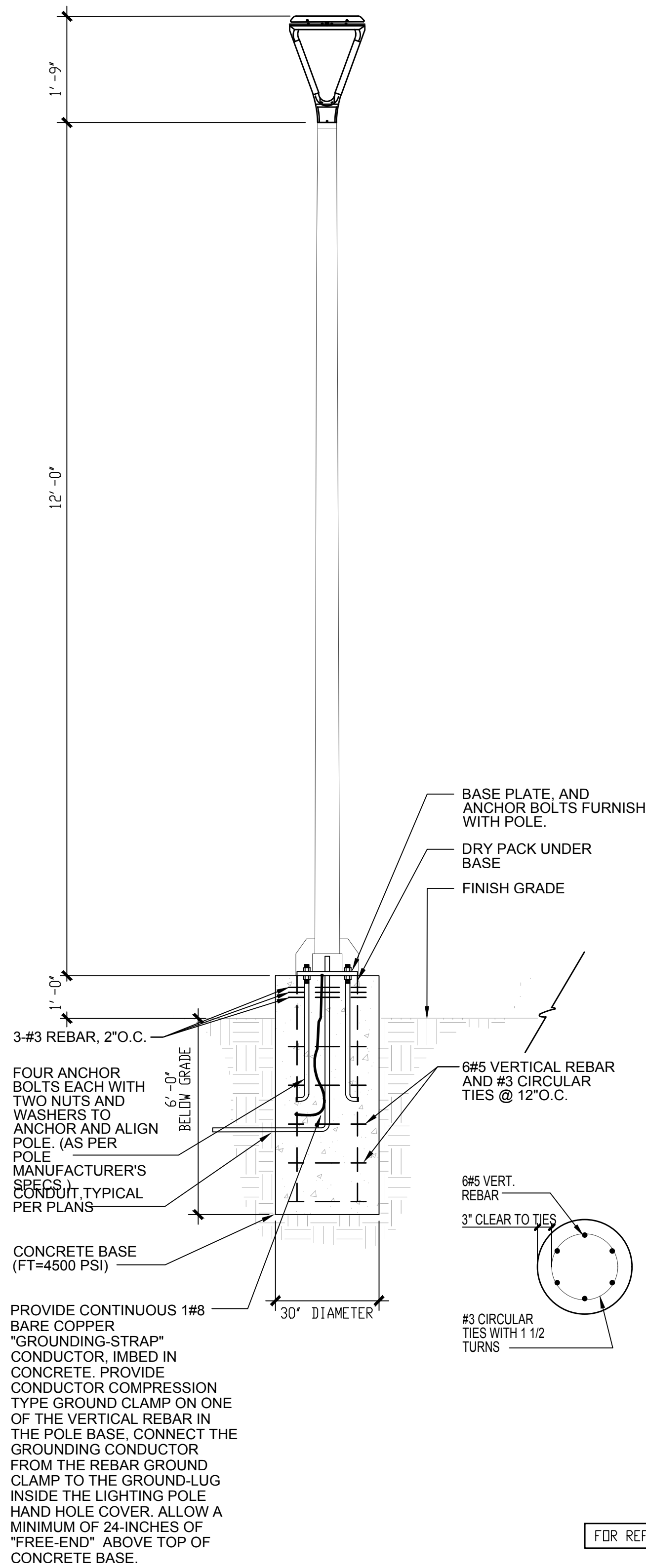


REVISIONS		
NO.	DESCRIPTION	DATE

CITY OF GARDENA		
DEPARTMENT OF PUBLIC WORKS - ENGINEERING		
POOL BUILDING LIGHTING, POWER & SIGNAL PLANS		
COMMUNITY AQUATICS & SENIOR CENTER		
E-3.03		
DESIGNED BY: SR	DATE: 05/25/2022	APPROVED BY:
DRAWN BY: SR	DATE: 05/25/2022	DIRECTOR OF PUBLIC WORKS
CHECKED BY: AZ	DATE: 05/25/2022	
SHT. 139	OF 157	DWG. NO.

FILE PATH: I:\335\0501-E-3.03_533000.DWG, PLOT TIME: 9/27/2022 8:23:04 AM

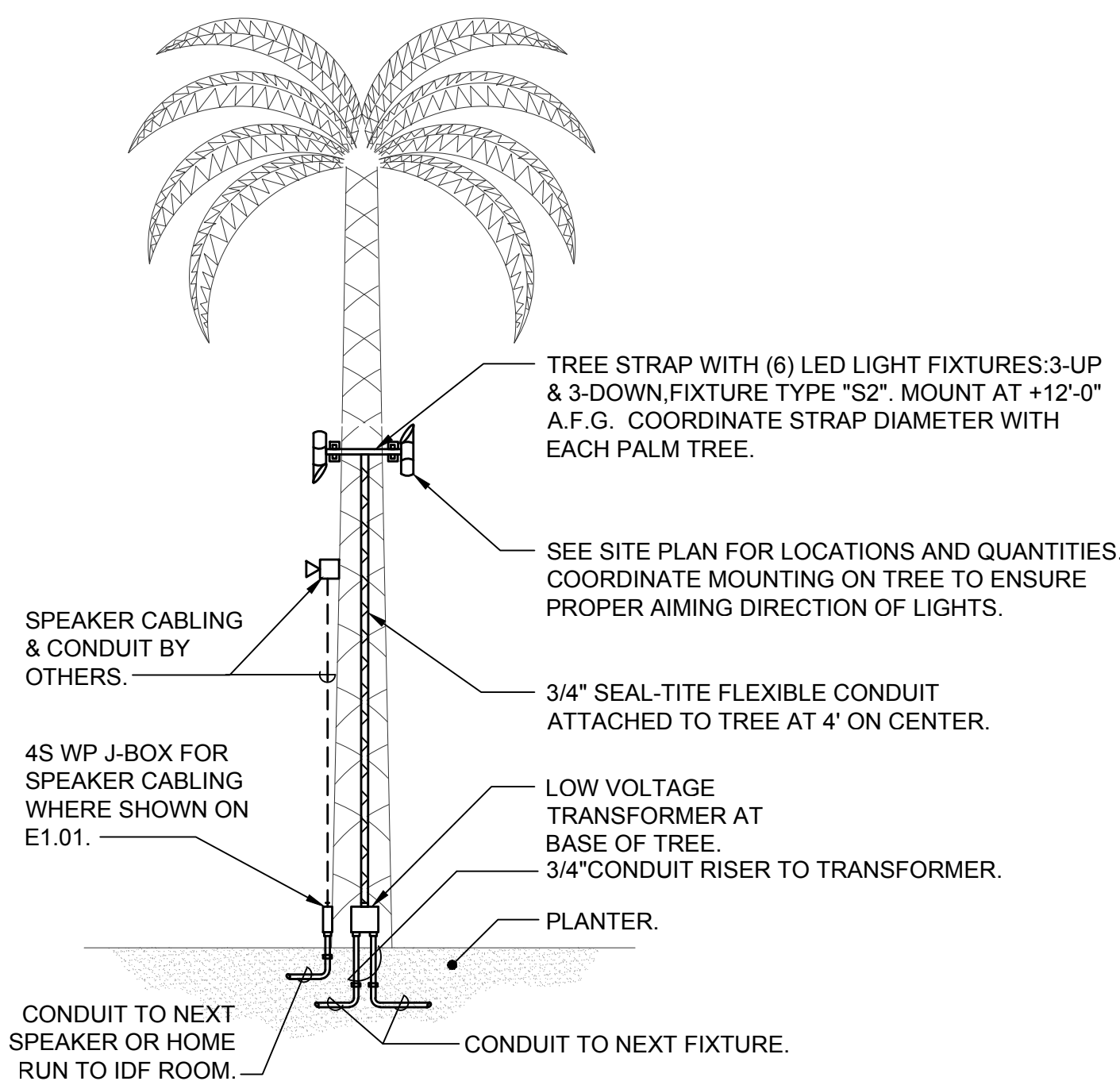
FBA Engineering / Plot Date: 9/29/2022 8:25 AM / Plotted by: Steve Rahn / Drawing Location: I:\335\0501-E-3.03_533000.dwg



FIXTURE TYPE "S3" POLE BASE DETAIL

SCALE:
NONE

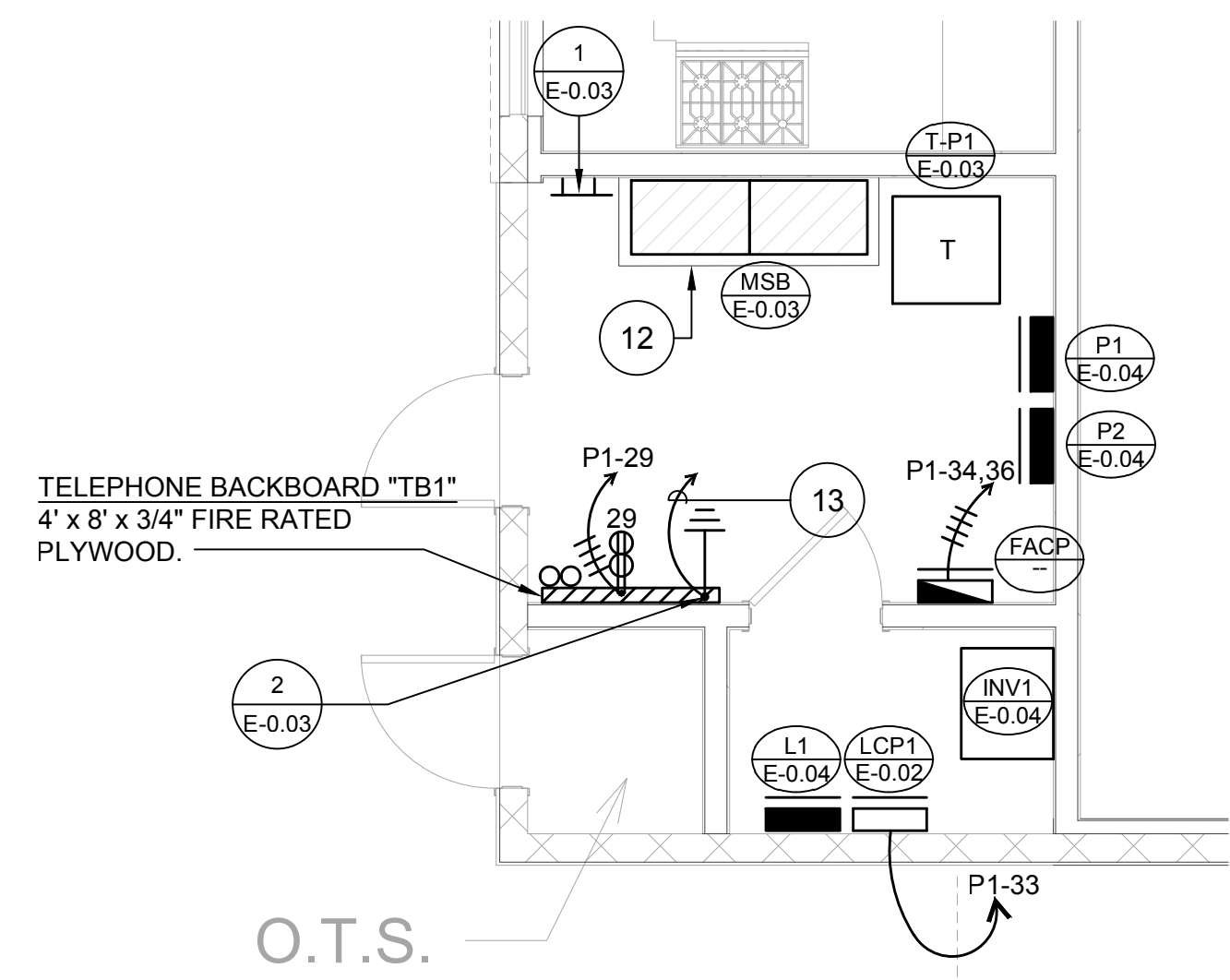
6



FIXTURE TYPE "S2" MOUNTING DETAIL

SCALE:
NONE

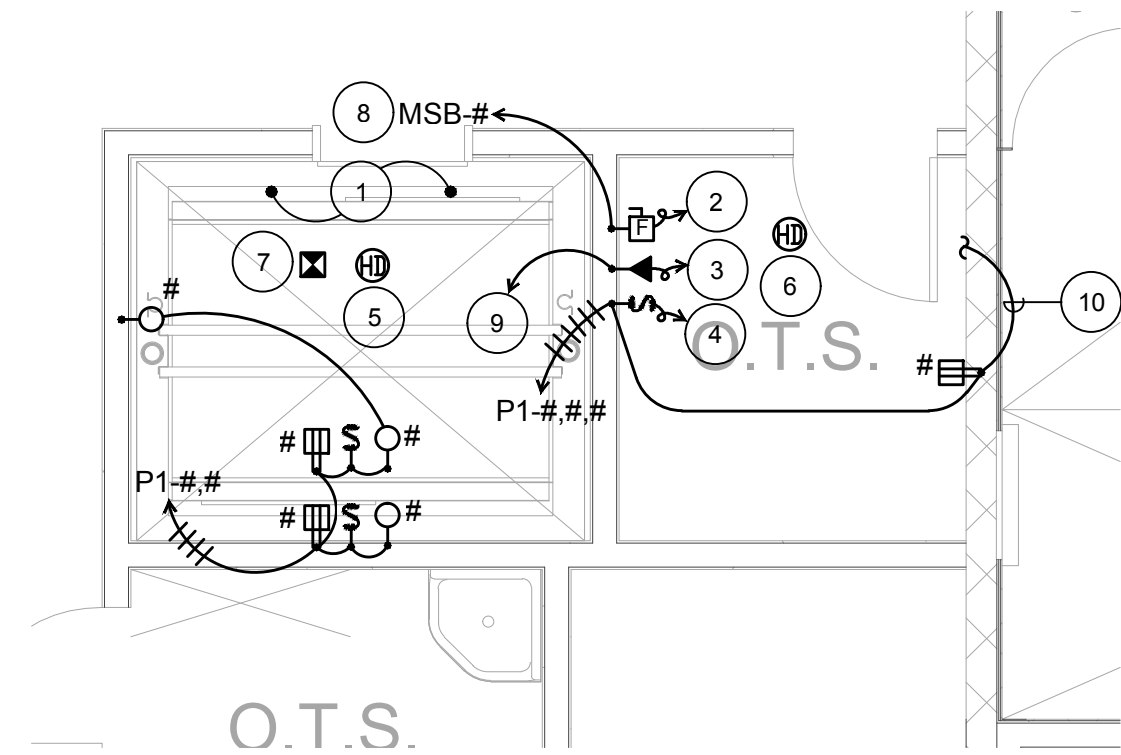
5



ENLARGED ELECTRICAL ROOM PLAN

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

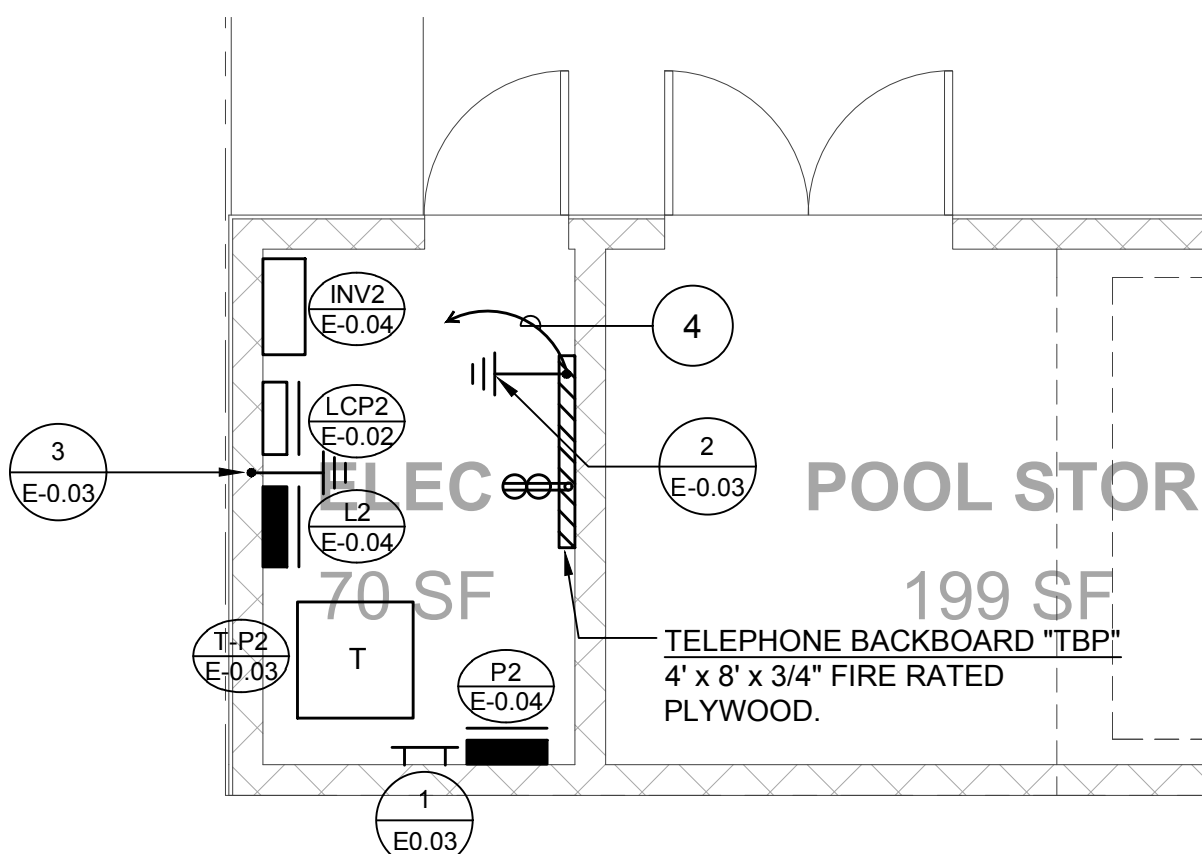
1



ENLARGED ELEVATOR DETAIL

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

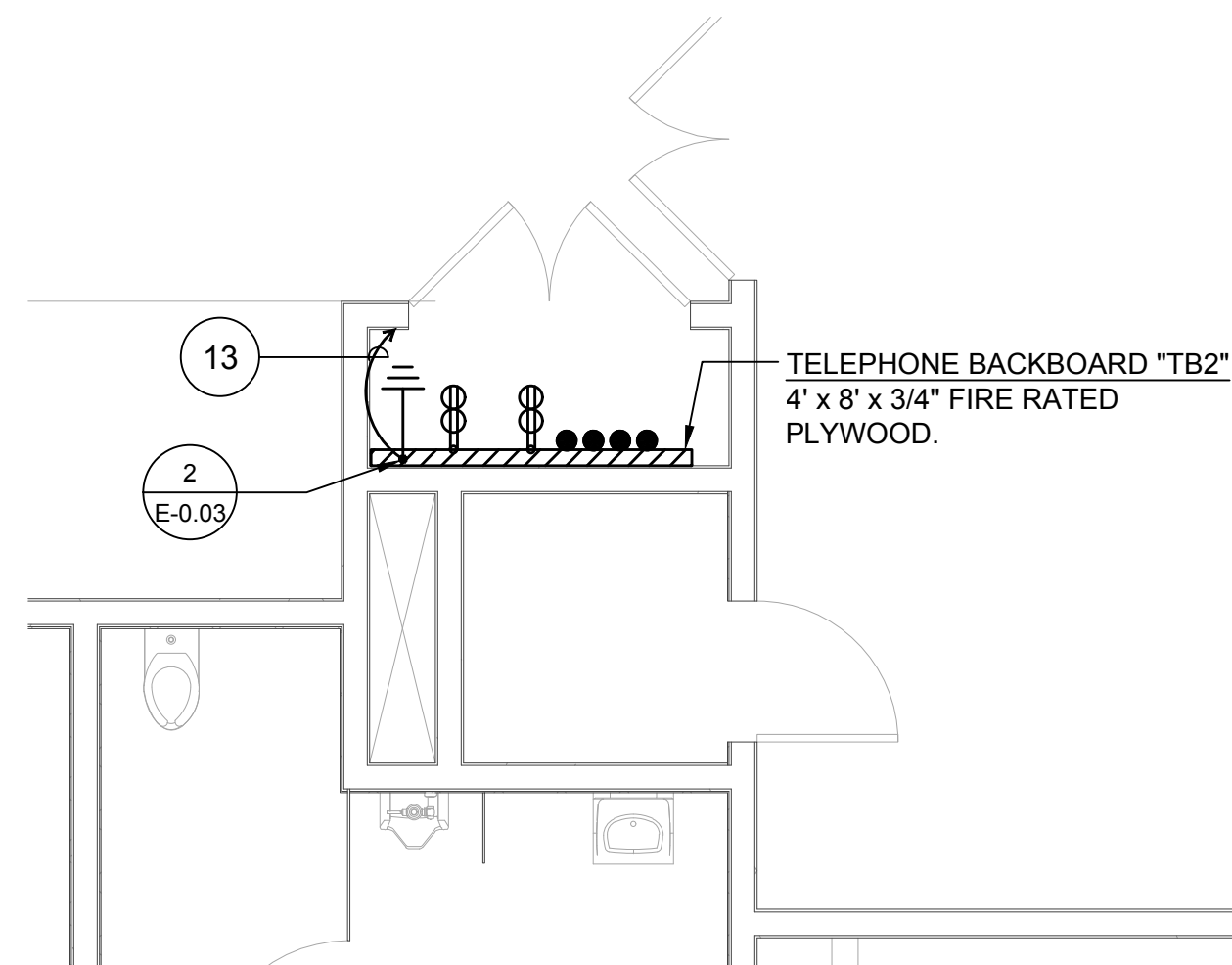
2



POOL BLDG. ENLARGED ELECTRICAL ROOM PLAN

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

3



ENLARGED ELECTRICAL IT ROOM PLAN

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

4

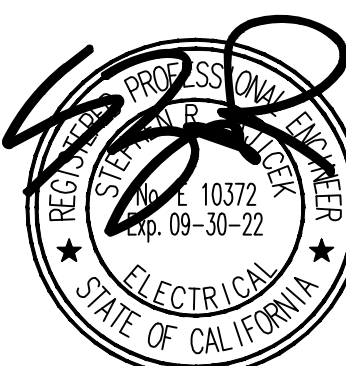
PLAN NOTES

1. LOCATE DEVICES IN ELEVATOR PIT/SHAFT PER ELEVATOR SUPPLIER REQUIREMENTS. LIGHT FIXTURE TO BE WALL MOUNTED, 2-FT, 4,000 LUMEN LED, VAPORTITE WITH HIGH IMPACT LENS AND WET LOCATION LISTED. METALUX #2VT2-LD5-4-DR-UNV-L840-CDI-WL OR EQUAL.
2. CONNECT TO ELEVATOR IN ACCORDANCE WITH THE ELEVATOR MANUFACTURER REQUIREMENTS. VERIFY EXACT LOCATION WITH ELEVATOR SUPPLIER.
3. CONNECT TO ELEVATOR FOR CAR EMERGENCY PHONE. VERIFY EXACT LOCATION WITH ELEVATOR SUPPLIER.
4. 120-VOLT, 20-AMP, SINGLE-PHASE, LOCKABLE, FUSED S.P.S.T. SWITCH FOR ELEVATOR CAR LIGHTS AND BLOWER WITH CONDUIT AND WIRE EXTENDED TO STUDS ON EACH ELEVATOR CONTROLLER. VERIFY EXACT LOCATION WITH ELEVATOR SUPPLIER.
5. HEAT DETECTOR IN ELEVATOR SHAFT LOCATED WITHIN 2'-0" PF SPRINKLER HEAD CONNECT TO FIRE ALARM SYSTEM AND TO SHUNT TRIP CIRCUIT BREAKER TO SHUT-OFF POWER TO ELEVATOR WHEN DETECTOR IS ACTIVATED. PROVIDE ACCESS FROM OUTSIDE SHAFT TO SERVICE DETECTOR.
6. HEAT DETECTOR IN ELEVATOR MACHINE ROOM LOCATED WITHIN 2'-0" OF EVERY SPRINKLER HEAD. VERIFY LOCATIONS AND QUANTITIES WITH FIRE PROTECTION DRAWINGS. CONNECT TO FIRE ALARM SYSTEM AND TO SHUNT TRIP CIRCUIT BREAKER TO SHUT-OFF POWER TO ELEVATOR WHEN DETECTOR IS ACTIVATED.
7. SMOKE DETECTOR LOCATED IN ELEVATOR SHAFT FOR ELEVATOR RECALL. PROVIDE ACCESS TO DETECTOR FROM OUTSIDE SHAFT.
8. REFER TO SINGLE LINE DIAGRAM, SHEET E-0.03 FOR FEEDER REQUIREMENTS.
9. 3/4"C.O. TO TELEPHONE BACKBOARD IN 2nd FLOOR IT CLOSET.
10. UP TO LIGHT FIXTURE IN ROOM. REFER TO E-2.01 FOR CONTINUATION.
11. DOOR SHALL OPEN IN THE DIRECTION OF EGRESS FROM ROOM AND BE PROVIDED WITH PANIC HARDWARE.
12. 3"H. CONCRETE HOUSEKEEPING PAD EXTENDING 3" BEYOND EQUIPMENT FOOTPRINT.
13. 3/4"-1#6 TO UFER GROUND BUS. SEE DETAIL 1/E-0.03.
14. 3/4"-1#6 TO POOL BUILDING GROUND ELECTRODE.

DIAL TOLL FREE
1-800-422-4133AT LEAST TWO DAYS
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

FBA Engineering
Consulting Electrical Engineers
150 Piedra Avenue Suite A120
Costa Mesa, CA 92626
949 852 9995 • 949 852 1657 (fax)
fbagr.com FBA Job Number: 530550



PREPARED BY:
RJM DESIGN GROUP
31591 Camino Capistrano
San Juan Capistrano, CA 92675
www.RJMDesignGroup.com
(949) 433-2600 fax
(949) 433-2600 phone



REVISIONS		
NO.	DESCRIPTION	DATE

CITY OF GARDENA		
DEPARTMENT OF PUBLIC WORKS - ENGINEERING		
ELECTRICAL DETAILS		
COMMUNITY AQUATICS & SENIOR CENTER		
E-4.01		
DESIGNED BY:	INITIAL	DATE
DRAWN BY:	DATE	APPROVED BY:
CHECKED BY:	DATE	DIRECTOR OF PUBLIC WORKS
SHT. 140	OF 157	DWG. NO.

FILE PATH: I:\535\0551-E-4.01-530550.DWG, PLOT TIME: 9/29/2022 8:25:10 AM