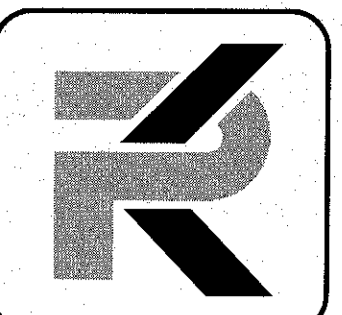


VICTORIAN SQUARE THEATER GARAGE LIGHTING PROJECT

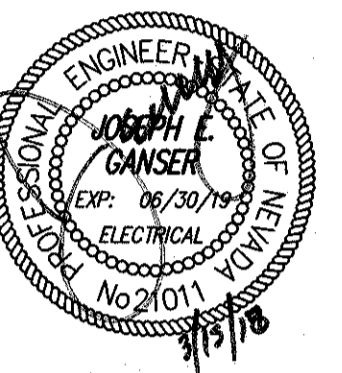
PROGRAM #18-8500
 BID #17/18-018

1150 VICTORIAN AVENUE
 SPARKS, NEVADA 89431

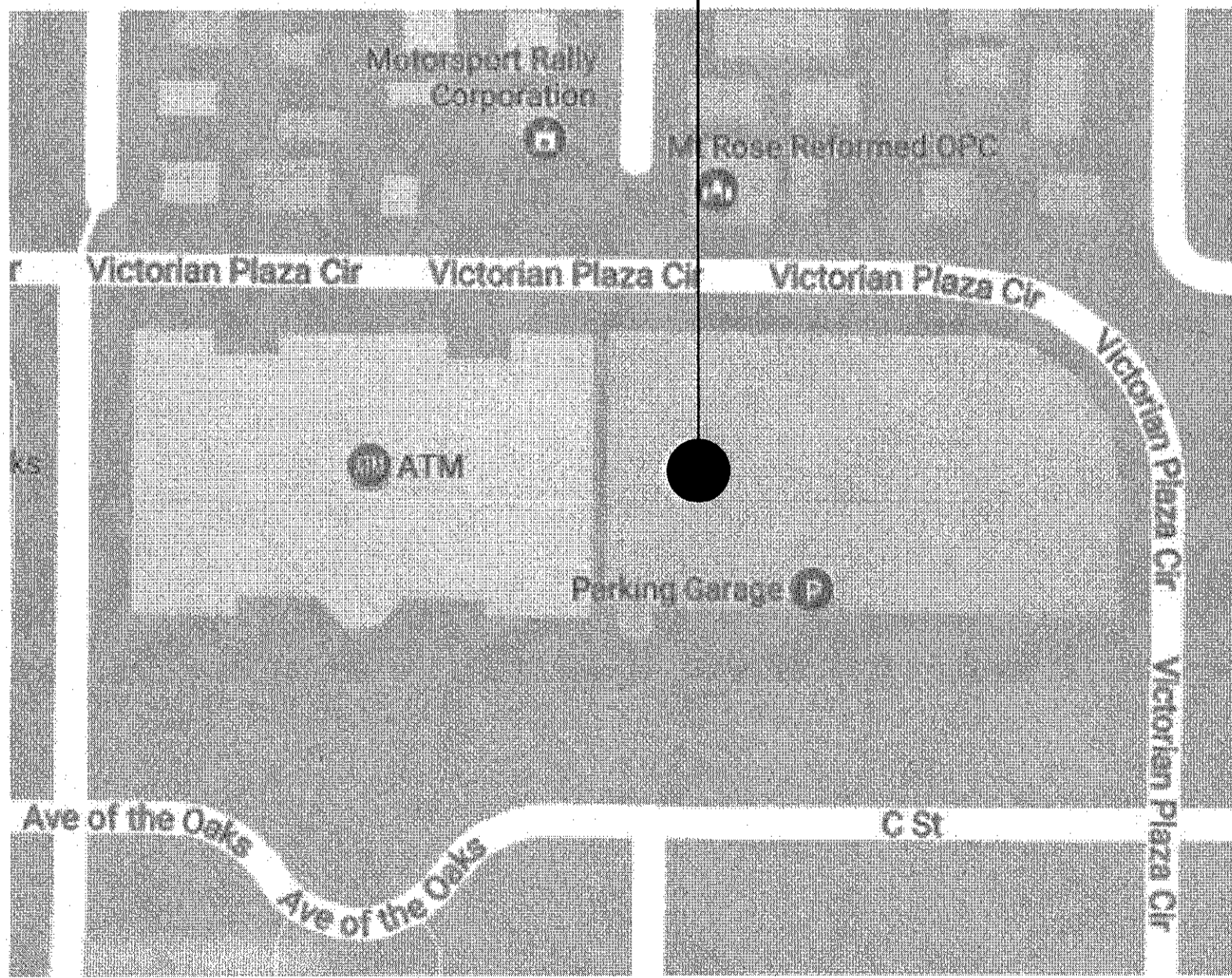
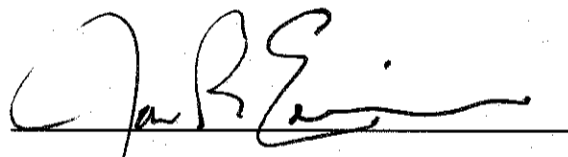

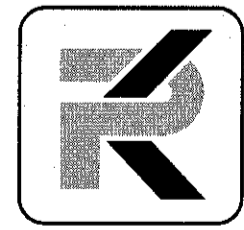
ISSUED FOR APPROVED PERMIT/BID SET
 MARCH 15, 2018



PK Electrical, Inc.
 661 Sierra Rose Dr., Ste. B
 Reno, Nevada 89511
 775.826.9010
 5108 DTC Pkwy, Ste 420
 Greenwood Village, CO 80111
 720.481.3290
 pkelectrical.com



Victorian Square Theater Garage
 Lighting Project
 Sparks, Nevada 89431

SITE	PROJECT INFORMATION	APPROVED BY	DRAWING SCHEDULE																																		
<p>PROJECT LOCATION</p> 	<p>JURISDICTION STATE OF NEVADA (BUILDING)</p> <p>CURRENT CODES 2012 INTERNATIONAL BUILDING CODE 2011 NATIONAL ELECTRIC CODE 2012 INTERNATIONAL ENERGY CONSERVATION CODE</p> <p>CITY OF SPARKS OFFICIALS</p> <table border="0"> <tr> <td>GENO MARTINI</td> <td>MAYOR</td> </tr> <tr> <td>DONALD ABBOTT</td> <td>COUNCIL MEMBER WARD 1</td> </tr> <tr> <td>ED LAWSON</td> <td>COUNCIL MEMBER WARD 2</td> </tr> <tr> <td>RON SMITH</td> <td>COUNCIL MEMBER WARD 3</td> </tr> <tr> <td>CHARLENE BYBEE</td> <td>COUNCIL MEMBER WARD 1</td> </tr> <tr> <td>KRISTOPHER DAHIR</td> <td>COUNCIL MEMBER WARD 1</td> </tr> <tr> <td>STEPHEN DISCOLL</td> <td>CITY MANAGER</td> </tr> </table>	GENO MARTINI	MAYOR	DONALD ABBOTT	COUNCIL MEMBER WARD 1	ED LAWSON	COUNCIL MEMBER WARD 2	RON SMITH	COUNCIL MEMBER WARD 3	CHARLENE BYBEE	COUNCIL MEMBER WARD 1	KRISTOPHER DAHIR	COUNCIL MEMBER WARD 1	STEPHEN DISCOLL	CITY MANAGER	 JON R. ERICSON, P.E., P.T.O.E. CITY ENGINEER DATE: 3/15/18	<table border="1"> <thead> <tr> <th>SHEET</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>GO.1</td> <td>COVER SHEET</td> </tr> <tr> <td>EO.1</td> <td>ELECTRICAL LEGEND, FIXTURE SCHEDULE, & IECC FORMS</td> </tr> <tr> <td>EO.2</td> <td>ELECTRICAL SPECIFICATIONS</td> </tr> <tr> <td>EI.1</td> <td>ELECTRICAL PLAN GROUND LEVEL</td> </tr> <tr> <td>EI.2</td> <td>ELECTRICAL PLAN SECOND LEVEL</td> </tr> <tr> <td>EI.3</td> <td>ELECTRICAL PLAN THIRD LEVEL</td> </tr> <tr> <td>EI.4</td> <td>ELECTRICAL PLAN ROOF LEVEL</td> </tr> <tr> <td colspan="2">TOTAL SHEETS IN ISSUE</td> </tr> <tr> <td colspan="2">7</td> </tr> </tbody> </table>	SHEET	DESCRIPTION	GO.1	COVER SHEET	EO.1	ELECTRICAL LEGEND, FIXTURE SCHEDULE, & IECC FORMS	EO.2	ELECTRICAL SPECIFICATIONS	EI.1	ELECTRICAL PLAN GROUND LEVEL	EI.2	ELECTRICAL PLAN SECOND LEVEL	EI.3	ELECTRICAL PLAN THIRD LEVEL	EI.4	ELECTRICAL PLAN ROOF LEVEL	TOTAL SHEETS IN ISSUE		7	
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	<p>OWNER</p> 	<p>CONSULTANT</p>  <p>PK Electrical, Inc. <i>Engineering · Design · Consulting</i> <small>661 Sierra Rose Dr., Ste. B Reno, Nevada 89511 775.826.9010 5108 DTC Parkway Suite 420 Greenwood Village, Colorado 80111 720.481.3290 pkelectrical.com © 2008-2018 PK Electrical, Inc. 17236</small></p>																																			

REVISIONS

SHEET TITLE
 COVER SHEET

DRAWN: MJS
 CHECKED: JEG
 DATE: 03/14/18
 JOB NUMBER: 17156
 PROJECT NAME: SP

COMcheck Software Version 4.0.7.0
Interior Lighting Compliance Certificate

Project Information
 Energy Code: 2012 IECC
 Project Title: C STREET THEATER PARKING GARAGE
 Project Type: Alteration

Construction Site: Sparks, NV 89431
 Owner/Agent: Robert Bidart, City of Sparks, 431 Prater Way, Sparks, NV 89431, 775.224.2976, rbidart@cityofsparks.us
 Designer/Contractor: PK Electrical, Inc., 681 Sierra Rose Drive, Suite B, Reno, NV 89511, (775) 826-9010

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-INTERIOR (Parking Garage/Garage areas)	164761	0.20	32952
		Total Allowed Watts =	32952

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixture Fixtures	D Fixture Watt.	E (C X D)
INTERIOR (Parking Garage/Garage areas 164761 sq.ft.)				
LED 1: (E) L1: EXISTING LED: Other:	1	123	75	9225
LED 2: (N) L1: NEW LED: Other:	1	46	36	1656
LED 3: (N) L2/L3: NEW LED: Other:	1	8	29	174
Induction 1: (N) L3: NEW LED: Other:	1	13	29	377
LED 4: (N) L4: NEW LED: Other:	1	8	29	232
		Total Proposed Watts =	11684	

Interior Lighting PASSES
Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.7.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jonny E. Ganser, PE
 Name - Title Signature Date

Project Title: C STREET THEATER PARKING GARAGE Report date: 11/08/17
 Data filename: \\PK-N-5138\Archive\jobs\PK 2011 Job Archive\11126 - Victorian Square Garage LED Retrofit\04 Page 1 of 7
 Calculations\1_Lighting\17136 C Street Theater Parking Garage.cck

COMcheck Software Version 4.0.7.0
Exterior Lighting Compliance Certificate

Project Information
 Energy Code: 2012 IECC
 Project Title: C STREET THEATER PARKING GARAGE
 Project Type: Alteration
 Exterior Lighting Zone: 2 (Residential mixed use area)

Construction Site: Sparks, NV 89431
 Owner/Agent: Robert Bidart, City of Sparks, 431 Prater Way, Sparks, NV 89431, 775.224.2976, rbidart@cityofsparks.us
 Designer/Contractor: PK Electrical, Inc., 681 Sierra Rose Drive, Suite B, Reno, NV 89511, (775) 826-9010

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Roof (Parking area)	55300 sq	0.06	Yes	3318
		Total Tradable Watts (a) =	3318	
		Total Allowed Watts =	3318	
		Total Allowed Supplemental Watts (b) =	600	

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
 (b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixture Fixtures	D Fixture Watt.	E (C X D)
Roof (Parking area 55300 sq): Tradable Wattage				
LED 1: (E) L3: POLE LT: Other:	2	4	172	688
LED 2: (E) L4: POLE LT: Other:	1	2	172	344
		Total Tradable Proposed Watts =	1032	

Exterior Lighting PASSES: Design 74% better than code
Exterior Lighting Compliance Statement
 Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.0.7.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: C STREET THEATER PARKING GARAGE Report date: 11/08/17
 Data filename: \\PK-N-5138\Archive\jobs\PK 2011 Job Archive\11126 - Victorian Square Garage LED Retrofit\04 Page 2 of 7
 Calculations\1_Lighting\17136 C Street Theater Parking Garage.cck

LIGHTING FIXTURE SCHEDULE PK ELECTRICAL, INC. @ 2007

LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION. THIS IS NOT A STANDALONE SCHEDULE AND FIXTURES MUST INCORPORATE ALL WORK INDICATED OR IMPLIED THROUGHOUT THE DRAWINGS AND SPECIFICATIONS.

SUBSTITUTION DEFINITIONS
 • OR EQUAL = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS WILL BE ALLOWED. ENGINEER'S PRE-BID APPROVAL IS NOT REQUIRED. PROPOSED EQUAL FIXTURES ARE SUBJECT TO REVIEW DURING THE STANDARD SUBMITTAL PROCESS.
 • NO EQUAL = PROVIDE SPECIFIED FIXTURE. SUBSTITUTIONS ARE NOT ALLOWED.

• SUBJECT TO REVIEW = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS MAY BE ALLOWED ONLY WITH ENGINEER'S APPROVAL. ALL SUBSTITUTIONS MUST BE SUBMITTED AS REQUIRED BY SPECIFICATIONS AND ACCOMPANIED WITH POINT BY POINT LIGHTING CALCULATIONS. DETERMINATION OF EQUAL IS ENGINEER'S SOLE DISCRETION.

TYPE	SYMBOL	DESCRIPTION AND MANUFACTURER
L1	○	LED SURFACE MOUNTED GARAGE LUMINAIRE, LOW GLARE, MARINE-GRADE, DIE-CAST ALUMINUM, UV STABILIZED, POLYCARBONATE CONSTRUCTION & LENS, TYPE V SQUARE DISTRIBUTION, QUICK MOUNT TO SURFACE J-BOX (BOX BY CONTRACTOR), BIRD GUARD, LIMITED 10-YEAR WARRANTY, MATTE WHITE FINISH, 0-10V DIMMING, INTEGRAL LIGHTING CONTROL SYSTEM WITH OC SENSOR, DAYLIGHT HARVESTING & ADJUSTABLE TIME OUT/DIMMING SETTINGS (BY HAND HELD REMOTE CONTROLLER). LAMP: LED, 4,788 LUMENS, 4000K, ESTIMATED LIFE 175,000 HOURS VOLTAGE: 277V MANUFACTURER: KENALL TD17-GM-55-TP-MN-SOL-40KT-DCC-DV-BG-TL50 (PROVIDE ONE TLS0 REMOTE CONTROLLER FOR PROJECT) SUBSTITUTIONS: ○ OR EQUAL • SUBJECT TO REVIEW ○ NO EQUAL
L2X	●	LED, CEILING OR WALL MOUNT, 17" DIAMETER, MARINE-GRADE, DIE-CAST ALUMINUM, HIGH-IMPACT, POLYCARBONATE LENS, GASKET, TAMPER PROOF SCREWS, IP64 RATED, PEACE OF MIND LIFETIME GUARANTEE, BLACK FINISH, EMERGENCY BATTERY PACK -4 DEGREES F RATED. LAMP: LED - 15 WATT, 4000K, 2,006 LUMENS, ESTIMATED LIFE 100,000 HOURS VOLTAGE: 277V MANUFACTURER: KENALL MR17FD-PP-MB-15L40K-27T-CEL SUBSTITUTIONS: ○ OR EQUAL • SUBJECT TO REVIEW ○ NO EQUAL
L3X	●	LED, CEILING OR WALL MOUNT, 17" DIAMETER, MARINE-GRADE, DIE-CAST ALUMINUM, HIGH-IMPACT, POLYCARBONATE LENS, GASKET, TAMPER PROOF SCREWS, IP64 RATED, PEACE OF MIND LIFETIME GUARANTEE, BLACK FINISH, EMERGENCY BATTERY PACK -4 DEGREES F RATED, JET-INTERGRAL MOTION SENSORS. LAMP: LED - 25 WATT, 4000K, 2,941 LUMENS, ESTIMATED LIFE 100,000 HOURS VOLTAGE: 277V MANUFACTURER: KENALL MR17FD-PP-MB-25L40K-27T-CEL SUBSTITUTIONS: ○ OR EQUAL • SUBJECT TO REVIEW ○ NO EQUAL
L4X	●	LED, CEILING OR WALL MOUNT, 17" DIAMETER, MARINE-GRADE, DIE-CAST ALUMINUM, HIGH-IMPACT, POLYCARBONATE LENS, GASKET, TAMPER PROOF SCREWS, IP64 RATED, PEACE OF MIND LIFETIME GUARANTEE, BLACK FINISH, EMERGENCY BATTERY PACK -4 DEGREES F RATED, JET-INTERGRAL MOTION SENSORS. LAMP: LED - 25 WATT, 4000K, 2,941 LUMENS, ESTIMATED LIFE 100,000 HOURS VOLTAGE: 277V MANUFACTURER: KENALL MR17FD-PP-MB-25L40K-27T-CEL-MS SUBSTITUTIONS: ○ OR EQUAL • SUBJECT TO REVIEW ○ NO EQUAL
X1	⊙	LED, EXIT SIGN 14-GAUGE DIE-FORMED COLD ROLLED STEEL, WELDED CORNERS ON HOUSING, SINGLE FACE, GREEN LETTERS, HARDENED TORX HEAD WITH CENTER PIN SCREWS, POWDER COAT FINISH, NET LOCATION, COLD WEATHER EMERGENCY BATTERY PACK LAMP: LED VOLTAGE: 277V MANUFACTURER: KENALL MME-X-1-0-6-DT-1-CEL (PROVIDE ONE TORX SCREWDRIVER) SUBSTITUTIONS: ○ OR EQUAL • SUBJECT TO REVIEW ○ NO EQUAL
X2	⊙	LED, VANDAL RESISTANT EMERGENCY BATTERY UNIT, NEMA 4X, ADJUSTABLE TWIN HEAD, GASKETED, UV RESISTANT POLYCARBONATE COVER, TAMPER PROOF SCREWS, WHITE HOUSING, COLD WEATHER BATTERY LAMP: LED - 12V-6W, MR16 LED VOLTAGE: 277V MANUFACTURER: EMERGI-LITE W-12V24M-2-LJ-S-GM4-SMG SUBSTITUTIONS: ○ OR EQUAL • SUBJECT TO REVIEW ○ NO EQUAL

LIGHTING SYSTEM FOOTCANDLE LEVELS ARE BASED ON THE UTILIZATION OF STANDARD REFLECTANCES OF 80-50-20 (CEILING-WALL-FLOOR) PER I.E.S. (ILLUMINATED ENGINEERING SOCIETY). THE ROOM SURFACES ARE USED AS AN INTEGRAL COMPONENT OF THE LIGHTING SYSTEMS. THE REFLECTANCE OF THE SURFACE PAINT COLOR, MATERIAL, AND OTHER ROOM SURFACES DIRECTLY AFFECTS THE DELIVERY OF LIGHT TO THE WORK PLANE. A SIGNIFICANT DROP IN OVERALL LIGHTING LEVELS WILL OCCUR IF REFLECTANCES ARE LOWERED. THE ARCHITECT/OWNER SHALL NOTIFY THE ENGINEER IMMEDIATELY IF FINISHES DO NOT FALL IN LINE WITH THE REFLECTANCES MENTIONED ABOVE.
 IF FIXTURES ARE SUBSTITUTED, PROVIDE POINT-BY-POINT FOOTCANDLE CALCULATIONS FOR ALL AREAS FOR NORMAL AND EMERGENCY LIGHTING LEVELS FOR PRIOR APPROVAL. EMERGENCY LIGHTING LEVEL IN GARAGE SHALL MEET THE REQUIREMENTS OF NFPA 101, SECTION 7.4 (MINIMUM 1 FC AVERAGE, 0.1 FC MINIMUM - IN THE MIDDLE OF THE DRIVE AISLE @ 8' WIDE PATH).

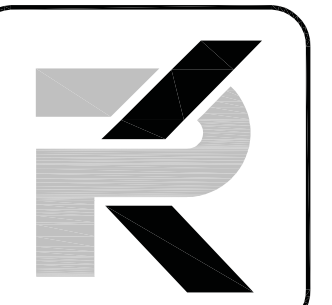
SHEET NOTES

- ① SETTINGS SHALL BE COORDINATED WITH CITY OF SPARKS DURING SUBMITTAL PROCESS.

ELECTRICAL LEGEND

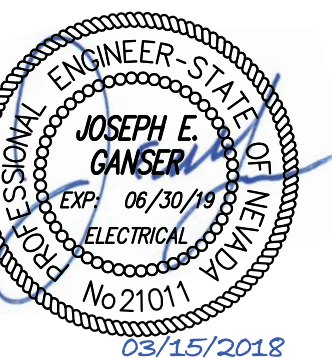
<ul style="list-style-type: none"> PANELBOARD, SURFACE MOUNTED PANELBOARD, FLUSH MOUNTED SWITCHBOARD OR DISTRIBUTION PANEL TRANSFORMER FULLBOX / VAULT MOTOR STARTER COMBINATION MOTOR STARTER COMBINATION MOTOR STARTER PROVIDED BY OTHERS DISCONNECT SWITCH - FUSIBLE (FUSED PER EQUIP. NAMEPLATE) DISCONNECT SWITCH - NON-FUSIBLE DISCONNECT SWITCH PROVIDED BY OTHERS VARIABLE FREQUENCY DRIVE VARIABLE FREQUENCY DRIVE PROVIDED BY OTHERS ENCLOSED CIRCUIT BREAKER GROUND ROD SHUNT TRIP STATION OR EMERGENCY PUSHBUTTON REMOTE METER 	<ul style="list-style-type: none"> GROUND FAULT INTERRUPTER DEVICE METERING DEVICE REMOTE METER SHUNT TRIP DEVICE TRANSFORMER CURRENT TRANSFORMER GENERATOR MOTOR - # INDICATES HP INTERRUPTER SWITCH GROUND FAULT RELAY W/ CT OR SENSOR FUSE CIRCUIT BREAKER DRAWOUT CIRCUIT BREAKER TRANSFER SWITCH (A=AUTOMATIC, M=MANUAL) # FOR POLES 2, 3 OR 4 SURGE PROTECTION DEVICE THERMOSTAT (PROVIDED BY MECH. CONTRACTOR UNO) JUNCTION BOX (SIZE AS REQUIRED UNO) SHEET NOTE DESIGNATION FIXTURE DESIGNATION: F#(TYPE SEE FIXTURE SCH.) REVISION DELTA: NUMBER REPRESENTS REVISION FEEDER DESIGNATION EQUIPMENT CONNECTION 	<ul style="list-style-type: none"> AMPS AMERICANS WITH DISABILITIES ACT ABOVE FINISHED CEILING ARC-FAULT CIRCUIT INTERRUPTER ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AMP INTERRUPTING CAPACITY ALUMINUM AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE BARE COPPER BREAKER CONDUIT/RACEWAY CALIFORNIA ENERGY COMMISSION CIRCUIT CEILING CONDUIT/RACEWAY ONLY CURRENT TRANSFORMER COPPER DISTRIBUTION BOARD DIRECT DIGITAL CONTROLLER DOUBLE-POLE, DOUBLE-THROW DOUBLE-POLE, SINGLE-THROW DRAWING EXISTING TO REMAIN ELECTRICAL EMERGENCY ELECTRICAL METALLIC TUBING FUTURE FULL LOAD AMPS FLEXIBLE METAL CONDUIT (STEEL) FUSE PER EQUIP. NAMEPLATE GROUND FAULT INTERRUPT GROUND FAULT RELAY GROUND HIGH INTENSITY DISCHARGE HAND-OFF-AUTO SWITCH HORSEPOWER HOUSEKEEPING INTERMEDIATE METAL CONDUIT JUNCTION BOX kg/m² (300K = 300 kg/m²) KILOVOLT AMPS KILOWATT LIGHTS ISOLATED GROUND MAIN CIRCUIT BREAKER MAIN CIRCULAR MILS MANUFACTURER MAIN LUGS ONLY MOTOR STARTER MAIN SWITCHBOARD MANUAL TRANSFER SWITCH NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NOT IN CONTRACT NIGHTLIGHT NORMALLY OPEN NOT TO SCALE NV ENERGY POLE PHASE PHOTOVOLTAIC PANEL PV USA TEST CONDITIONS POWER RELOCATED RIGID ALUMINUM CONDUIT RIGID FIBERGLASS CONDUIT RIGID STEEL CONDUIT SERVICE ENTRANCE SURGE PROTECTION DEVICE SINGLE-POLE, DOUBLE-THROW SINGLE-POLE, SINGLE-THROW STANDARD TEST CONDITIONS SWITCH TELECOM TELEPHONE TERMINATION BOARD TYPICAL UNDERWRITER'S LABORATORY UNLESS NOTED OTHERWISE UNSWITCHED UNINTERRUPTED POWER SUPPLY VOLTS VOLT AMPS VARIABLE FREQUENCY DRIVE WATTS WEATHER PROOF EQUIPMENT MOTOR LARGEST MOTOR KITCHEN EQUIP ELECTRIC HEAT
<ul style="list-style-type: none"> LIGHTING FIXTURE - LOWERCASE LETTER DENOTES SWITCHING (a = CENTER LAMP, b = OUTER LAMPS) WALL MOUNTED FIXTURE RECESSED DOWNLIGHT SURFACE LUMINAIRE POLE MOUNTED LIGHT (# OF HEADS INDICATED ON DRAWING) FLOURESCENT STRIP FIXTURE BOLLARD RECESSED DOWNLIGHT (WALL MASH) TRACK LIGHTING EMERGENCY LIGHTING UNIT EXIT SIGN FIXTURE - SHADED AREA DENOTES LIGHTED FACE - ARROWS DENOTE DIRECTION EMERGENCY FIXTURE 	<ul style="list-style-type: none"> CONDUIT/RACEWAY IN WALL OR ABOVE CEILING CONDUIT/RACEWAY BELOW GRADE OR BELOW FLOOR CONDUIT/RACEWAY UP CONDUIT/RACEWAY DOWN BREAK OR RUN CONTINUES OVERHEAD SERVICE PRIMARY SECONDARY COMMUNICATIONS OR SIGNAL TELEPHONE TELEVISION LOW VOLTAGE AND/OR CONTROL WIRING EMERGENCY CIRCUIT CONDUIT/RACEWAY STUB OUT. MARK AND CAP (SITE) CONDUIT/RACEWAY SLEEVE 	<ul style="list-style-type: none"> TIGS = NO. OF #12 WIRES (UNO) IF MORE THAN TWO WITHIN RACEWAY. GROUNDING CONDUCTOR (NOT SHOWN) ALWAYS REQUIRED. ISOLATED GROUNDING CONDUCTOR (PHASE CONDUCTOR(S)) BRANCH CIRCUIT (WHEN TIG MARKS ARE NOT SHOWN) = (1) PHASE, (1) NEUTRAL AND (1) GROUNDING CONDUCTOR HOMERUN TO PANELBOARD OR DEVICE HOMERUN CIRCUIT DESIGNATION GROUNDING CONDUCTOR (N=1, 2N=2 NEUTRALS, 3N=3 NEUTRALS) PHASE CONDUCTOR(S) PANELBOARD DESIGNATION HOMERUN CIRCUIT DESIGNATION (3 PHASE CIRCUIT SHOWN) GROUNDING CONDUCTOR (PHASE CONDUCTOR(S)) PANELBOARD DESIGNATION NORMALLY OPEN (NO) CONTACT NORMALLY CLOSED (NC) CONTACT COIL - VOLTAGE PER CONTROL DIAGRAMS PILOT LIGHT (LED) PUSH-TO-TEST, LETTER INDICATES COLOR (R=RED, G=GREEN, A=AMBER, Y=YELLOW) PILOT LIGHT (LED) NON PUSH-TO-TEST THERMAL OVERLOAD MAGNETIC OVERLOAD PUSH BUTTON NORMALLY OPEN (NO) PUSH BUTTON NORMALLY CLOSED (NC) OCCUPANCY SENSOR - WALL MOUNTED 48" AFF (UNO) 360° OCCUPANCY SENSOR - CEILING MOUNTED, ARROWS INDICATE COVERAGE DIRECTION & PATTERN, PROVIDE WITH POWER PACK PER MFG REQUIREMENTS. 40° CONTROL STATION CONTACTOR OR RELAY PHOTOELECTRIC CELL (ON ROOF FACING NORTH UNO) TIMECLOCK SINGLE POLE SWITCH 48" AFF (UNO) THREE WAY SWITCH 48" AFF (UNO) FOUR WAY SWITCH 48" AFF (UNO) KEY OPERATED SWITCH 48" AFF (UNO) SWITCH WITH LIGHTED HANDLE MANUAL MOTOR STARTER SWITCH WITH PILOT LIGHT 48" AFF (UNO) TIME HALL SWITCH 48" AFF (UNO) DIMMER OPERATED SWITCH 48" AFF (UNO)
<ul style="list-style-type: none"> DATA / VOICE OUTLET, 18" AFF (UNO) - 1 VOICE, 1 DATA JACK, 2 BLANKS DATA / VOICE OUTLET, ABOVE COUNTER (VERIFY HEIGHT) DATA / VOICE OUTLET, ABOVE COUNTER (VERIFY HEIGHT) TELEPHONE ASSEMBLY, SPACING PER DWGS TELEPHONE OUTLET, 18" AFF (UNO) DATA OUTLET, 18" AFF (UNO) SPEAKER TELEVISION OUTLET, 18" AFF (UNO) TELEPHONE TERMINAL BOARD (TTB) VOLUME CONTROL GROUNDING BAR 	<ul style="list-style-type: none"> 20 SINGLE POLE CIRCUIT BREAKER 20/2 TWO POLE CIRCUIT BREAKER 20/3 THREE POLE CIRCUIT BREAKER 20A ARC FAULT CIRCUIT BREAKER 20G CONTROLLABLE CIRCUIT BREAKER 20G GFI CIRCUIT BREAKER 	<ul style="list-style-type: none"> L = LIGHTING R = RECEPTACLES E = EQUIPMENT M = MOTOR MI = LARGEST MOTOR K = KITCHEN EQUIP H = ELECTRIC HEAT

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 pk-electrical.com



06/25/2018

Victorian Square Theater Garage
 Lighting Project

Sparks, Nevada 89431

REVISIONS

2-8-18 PLAN CHECK

SHEET TITLE

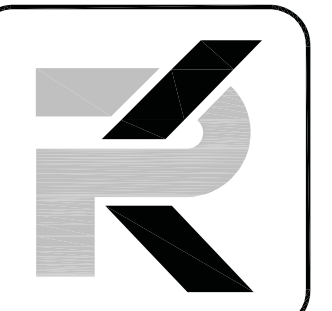
ELECTRICAL LEGEND,
 FIXTURE SCHEDULE, &
 IECC FORMS

DRAWN: MJS
 CHECKED: JEG
 DATE: 02/15/18
 JOB NUMBER: 17136
 PROJECT NAME: SP

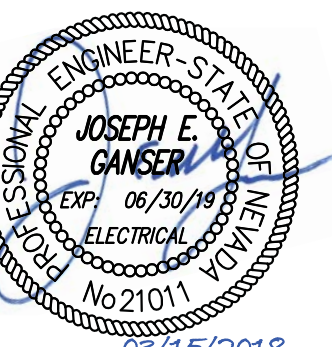
E0.1

SECTION 16000 ELECTRICAL SPECIFICATIONS

ITEM	DESCRIPTION	ITEM	DESCRIPTION	ITEM	DESCRIPTION																				
1.1	<p>PART 1 - GENERAL</p> <p>SUMMARY</p> <ul style="list-style-type: none"> THE WORK UNDER THIS DIVISION SHALL CONSIST OF ALL LABOR, MATERIALS, EQUIPMENT, SERVICES AND RELATED ACCESSORIES, ETC. NECESSARY AND REQUIRED TO COMPLETE ALL WORK AS SHOWN OR INFERRED ON THE DRAWINGS AND IN THE SPECIFICATIONS (CONTRACT DOCUMENTS). PROVIDE FIXED ELECTRICAL EQUIPMENT, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. PROVIDE EQUIPMENT AND/OR WIRING NORMALLY FURNISHED OR REQUIRED FOR COMPLETE ELECTRICAL SYSTEMS BUT NOT SPECIFICALLY SPECIFIED ON THE DRAWINGS AND/OR IN SPECIFICATIONS, AS THOUGH SPECIFIED BY BOTH. ALL EQUIPMENT AND WIRING SHALL BE NEW, EXCEPT WHERE SPECIFICALLY SHOWN OR SPECIFIED OTHERWISE. <p>ADOPTED CODES</p> <ul style="list-style-type: none"> INTERNATIONAL BUILDING CODE (IBC) PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC). NATIONAL ELECTRICAL CODE (NEC) PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). INTERNATIONAL ENERGY CONSERVATION CODE (IECC) PUBLISHED BY THE INTERNATIONAL CODE COUNCIL, ASHRAE / IESNA STANDARD 90.1-2004 IS INCORPORATED BY REFERENCE. ALL APPLICABLE PROVISIONS OF THE NEVADA REVISED STATUTES (NRS) AND THE NEVADA ADMINISTRATIVE CODE (NAC), INCLUDING THOSE LISTED BELOW. <p>DEFINITIONS</p> <ul style="list-style-type: none"> PROVIDE FURNISH, INSTALL, CONNECT AND TEST UNTIL COMPLETE. WIRE FURNISH ALL NECESSARY WIRING, CONNECT AND TEST UNTIL COMPLETE. INSTALL FURNISH, SET IN PLACE, WIRE AND TEST UNTIL COMPLETE. WORK MATERIALS COMPLETELY INSTALLED, CONNECTED, AND TESTED UNTIL COMPLETE EQUAL ACCEPTABLE EQUAL, AS DETERMINED BY THE ENGINEER. <p>REQUIREMENTS OF REGULATORY AGENCIES</p> <ul style="list-style-type: none"> OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR THE WORK, COMPLY WITH ALL ORDINANCES PERTAINING TO WORK DESCRIBED HEREIN, PAY ALL EXPENSES ARISING FROM THE PROCUREMENT OF THESE CERTIFICATES AND INCLUDE IN THE BASE CONTRACT PRICE. INSTALL WORK UNDER THIS DIVISION PER DRAWINGS, SPECIFICATIONS, LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), LOCAL AMENDMENTS AND INTERPRETATIONS, LOCAL ADOPTED BUILDING CODES, AND ANY SPECIAL CODES HAVING JURISDICTION OVER SPECIFIC PORTIONS OF WORK, WITHIN COMPLETE INSTALLATION. IN EVENT OF CONFLICT, INSTALL WORK PER MOST STRINGENT CODE REQUIREMENTS DETERMINED BY ENGINEER. THIS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING WORK SHOWN OR SPECIFIED WHICH MAY EXCEED THE REQUIREMENTS OF SUCH ORDINANCES, LAWS, REGULATIONS AND CODES. ALL MATERIALS, PRODUCTS, DEVICES, FIXTURES, FORMS OR TYPES OF CONSTRUCTION INCLUDED IN THIS PROJECT SHALL MEET OR EXCEED THE PUBLISHED REQUIREMENTS OF NATIONAL ELECTRICAL CODE (NEC), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) AND NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATIONS (NEMA). ALL EQUIPMENT SHALL BEAR THE UNDERWRITER'S LABORATORIES (UL) LABEL OR EQUIVALENT FROM APPROVED INDEPENDENT TESTING LABORATORY. ARRANGE PAY FEES FOR AND COMPLETE WORK TO PASS REQUIRED TESTS BY AGENCIES HAVING AUTHORITY OVER WORK. DELIVER TO ENGINEER COPIES OF THE CERTIFICATES OF INSPECTION AND APPROVAL ISSUED BY AUTHORITIES AND PROVIDE ORIGINAL COPY OF EACH CERTIFICATE TO OWNER. WHEN REQUIRED BY LAW OR REGULATIONS, THE GOVERNMENTAL AGENCY HAVING JURISDICTION FOR INSPECTIONS SHALL BE GIVEN REASONABLE NOTICE AND OPPORTUNITY TO INSPECT THE WORK. ANY WORK THAT IS ENCLOSED OR COVERED UP BEFORE SUCH INSPECTION AND TEST SHALL BE UNCOVERED AT THE CONTRACTOR'S EXPENSE. AFTER IT HAS BEEN INSPECTED, THE CONTRACTOR SHALL RESTORE THE WORK TO ITS ORIGINAL CONDITION AT HIS OWN EXPENSE. <p>DRAWINGS AND SPECIFICATIONS</p> <ul style="list-style-type: none"> DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. WORK CALLED FOR BY ONE IS BINDING AS IF CALLED FOR BY BOTH. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION DURING THE BIDDING PERIOD. NO ALLOWANCE SHALL SUBSEQUENTLY BE MADE TO THE CONTRACTOR BY REASON OF HIS FAILURE TO HAVE BROUGHT SAID DISCREPANCIES TO THE ATTENTION OF THE CONSULTANT DURING THE BIDDING PERIOD OR BY REASON OF ANY ERROR ON THE CONTRACTOR'S PART. DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. DRAWINGS SHOW GENERAL RUN OF CIRCUITS AND APPROXIMATE LOCATION OF EQUIPMENT. THE CONTRACTOR SHALL REVIEW DRAWINGS OF ALL TRADES TO ASSURE COORDINATION PRIOR TO PLACEMENT OF WORK. RIGHT IS RESERVED TO CHANGE LOCATION OF EQUIPMENT AND DEVICES, AND ROUTING OF CONDUITS WITHIN 10 FEET WITHOUT EXTRA COST TO OWNER (PRIOR TO ROUGH-IN). USE DIMENSIONS IN FIGURES, SHOP DRAWINGS, ETC. AND ACTUAL SITE MEASUREMENTS IN PREFERENCE TO SCALED DIMENSIONS. DO NOT SCALE DRAWINGS FOR EXACT SIZES OR LOCATIONS - USE DIMENSIONED DETAILS OR ACTUAL FIELD CONDITIONS. VERIFY ITEM MOUNTING HEIGHTS AS REQUIRED BY PROJECT CONDITIONS PRIOR TO ROUGH-IN. 	1.2	<p>ADDITIONAL SPECIFICATIONS</p> <ul style="list-style-type: none"> LAYOUT EQUIPMENT AS SHOWN ON DRAWINGS AS CLOSE AS POSSIBLE. VERIFY ACCESS REQUIREMENTS FOR EQUIPMENT ACTUALLY FURNISHED AND ADJUST LAYOUT TO COMPLY WITH NEC 10. RIGHT IS RESERVED TO CHANGE LAYOUT WITHIN 10 FEET WITHOUT ADDITIONAL COST (PRIOR TO ROUGH-IN). THE CONTRACTOR IS RESPONSIBLE TO FIELD MEASURE AND CONFIRM THE MOUNTING HEIGHTS AND LOCATION OF ELECTRICAL EQUIPMENT WITH RESPECT TO COUNTERS, DOORWAYS, AND OTHER ARCHITECTURAL, MECHANICAL, OR STRUCTURAL WORK. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS. USE ACTUAL BUILDING DIMENSIONS. EXISTION OF CONTRACT IS EVIDENCE THAT CONTRACTOR HAS EXAMINED ALL EXISTING CONDITIONS, DRAWINGS AND SPECIFICATIONS RELATED TO WORK, AND IS INFORMED AS TO EXTENT AND CHARACTER OF WORK. LATER CLAIMS FOR LABOR AND MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED. ALL WORK CALLED FOR IN THIS SECTION OF THE PLANS AND SPECIFICATIONS SHALL BE PERFORMED UNDER THIS SECTION REGARDLESS OF WHETHER SUCH WORK MAY ALSO HAVE BEEN CALLED FOR IN OTHER SECTIONS. DISCREPANCIES IN OR CONFLICTS AMONG THE VARIOUS PARTS OF THE CONTRACT DRAWINGS SHALL NOT RELIEVE CONTRACTOR OF HIS OBLIGATION TO PERFORM. CHARGES FOR EXTRA WORK ARE NOT ALLOWED UNLESS WORK IS AUTHORIZED BY WRITTEN ORDER FROM THE OWNER'S REPRESENTATIVE APPROVING CHARGES FOR WORK. <p>COPYRIGHT</p> <ul style="list-style-type: none"> THESE PLANS, SPECIFICATIONS, AND ALL RELATED ADDENDA AND DOCUMENTS CONSTITUTE COPYRIGHT MATERIALS OF PK ELECTRICAL. ALL RIGHTS CONFERRED BY THE COPYRIGHT AND SIMILAR LAWS ARE RESERVED TO PK ELECTRICAL. THESE MATERIALS SHALL REMAIN THE SOLE PROPERTY OF PK ELECTRICAL, AND MAY NOT BE REPRODUCED, DISTRIBUTED TO OTHERS OR USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF PK ELECTRICAL. 	1.3	<p>SUBMITTALS</p> <ul style="list-style-type: none"> BEFORE ORDERING ANY EQUIPMENT, CONTRACTOR SHALL SUBMIT SIX COPIES OF FACTORY SHOP DRAWINGS FOR ALL LIGHTING FIXTURES, RACEWAYS AND FITTINGS, ETC. PROPOSED FOR THIS PROJECT. <p>SUBSTITUTIONS</p> <ul style="list-style-type: none"> PROPOSED SUBSTITUTIONS SHALL BE EQUAL OR SUPERIOR TO SPECIFIED ITEMS IN ALL RESPECTS. DETERMINATION OF EQUALITY RESTS SOLELY WITH ENGINEER. SUBSTITUTIONS MUST BE SUBMITTED A MINIMUM OF 10 WORKING DAYS PRIOR TO BID FOR CONSIDERATION. PROPOSED SUBSTITUTIONS PROVIDED LATER WILL NOT BE REVIEWED OR ALLOWED. BID SUBSTITUTED MATERIAL WILL ONLY BE ALLOWED IF ACCEPTED IN WRITING BY ENGINEER. <p>EXAMINATION OF SITE AND EXISTING CONDITIONS</p> <ul style="list-style-type: none"> BEFORE SUBMITTING A PROPOSAL, CONTRACTOR SHALL EXAMINE THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND LIMITATIONS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING OF THE AMOUNT OF WORK INVOLVED OR HIS LACK OF KNOWLEDGE OF ANY SITE CONDITIONS WHICH MAY AFFECT HIS WORK. ANY APPARENT VARIANCE OF THE DRAWINGS OR SPECIFICATIONS FROM THE EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO ATTENTION OF THE ENGINEER BEFORE SUBMITTING A PROPOSAL. <p>EXISTING OUTLETS</p> <ul style="list-style-type: none"> EXISTING OUTLETS AND CIRCUITING NOT IN CONFLICT WITH NEW CONDITIONS SHALL REMAIN. EXTEND OUTLETS TO NEW SURFACES, GASK, AND PROVIDE JEMBO PLATES AS REQUIRED TO PRESENT A SERVICEABLE AND FINISHED APPEARANCE. <p>EXISTING SWITCHGEAR</p> <ul style="list-style-type: none"> REUSE EXISTING SWITCHGEAR AND PANELS IN PLACE WHERE SO INDICATED. MODIFY AS REQUIRED TO ACCOMMODATE NEW WORK. PROVIDE NEW CIRCUIT BREAKERS AND/OR FUSES AS REQUIRED. MATCH AIC RATINGS. REARRANGE EXISTING CIRCUITS WITHIN PANELS TO AGREE WITH NEW PANEL SCHEDULES, TRACE AND IDENTIFY ALL EXISTING CIRCUITS ON NEW RECORD PANEL SCHEDULES. <p>EXISTING PANELBOARDS</p> <ul style="list-style-type: none"> RING OUT CIRCUITS IN EXISTING PANELS. WHERE ADDITIONAL CIRCUITS ARE NEEDED REUSE CIRCUITS AVAILABLE FOR REUSE. INSTALL NEW BREAKERS AS INDICATED ON DRAWINGS. MATCH AIC RATINGS. TAG UNUSED CIRCUITS AS SPARE. WHERE EXISTING CIRCUITS ARE INDICATED TO BE REUSED, USE SENSING MEASURING DEVICES TO VERIFY THAT CIRCUITS FEEDING PROJECT AREA ARE NOT IN USE OR OVERLOADED. REMOVE EXISTING WIRE NO LONGER IN USE FROM PANEL TO EQUIPMENT. PROVIDE NEW UPDATED TYPED DIRECTORIES. 	1.4	<p>PART 2 - PRODUCTS</p> <p>MATERIALS</p> <ul style="list-style-type: none"> ALL MATERIAL SHALL BE NEW AND HAVE A UL LABEL WHERE AVAILABLE. IF UL LABEL IS NOT AVAILABLE, MATERIAL SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE NEMA, IEEE AND FEDERAL STANDARDS. USE UL LABELED COMPONENTS IN ASSEMBLIES THAT DO NOT HAVE OVERALL UL LABEL. ALL EQUIPMENT SHALL COMPLY WITH THE TERMS LISTED AND LABELED AS DEFINED IN THE NEC 10, ARTICLE 100. SUBMIT LETTER STATING COMPLIANCE WITH THESE REQUIREMENTS. 	1.5	<p>DELIVERY, STORAGE AND HANDLING</p> <ul style="list-style-type: none"> DELIVER EQUIPMENT AND MATERIALS TO JOB SITE IN ORIGINAL, UNOPENED, LABELED CONTAINER. PRODUCTS SHALL BE PROPERLY IDENTIFIED WITH NAMES, MODEL NUMBERS, TYPES, GRADES, COMPLIANCE LABELS AND OTHER INFORMATION NEEDED FOR IDENTIFICATION. STORE TO PREVENT DAMAGE AND INJURY. STORE MATERIALS TO PREVENT CORROSION. STORE FINISHED MATERIALS AND EQUIPMENT TO PREVENT STAINING AND DISCOLORING. STORE MATERIALS AFFECTED BY CONDENSATION IN WARM DRY AREAS. PROVIDE HEATERS. CONTRACTOR SHALL VERIFY THE AVAILABILITY OF ON SITE STORAGE SPACE. IF NO ON SITE STORAGE SPACE IS AVAILABLE THEN THE CONTRACTOR SHALL COVER THE COST FOR OFF SITE STORAGE. MATERIALS STORED AT THE PROJECT SITE THAT BECOMES SOILED WITH CONSTRUCTION DIRT, CONCRETE, OR MOISTURE SHALL BE REMOVED FROM THE SITE AND REPLACED WITH NEW. DO NOT INSTALL SOILED MATERIAL. INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. CONFLICTS BETWEEN CONTRACT DOCUMENTS AND THESE RECOMMENDATIONS SHALL BE REFERRED TO ENGINEER FOR RESOLUTION. ELECTRICAL OR ELECTRONIC EQUIPMENT THAT HAS BEEN DAMAGED, EXPOSED TO HEATER OR IS, IN THE OPINION OF THE ENGINEER OR ARCHITECT, OTHERWISE UNSUITABLE BECAUSE OF IMPROPER FABRICATION, STORAGE OR INSTALLATION SHALL BE REMOVED AND REPLACED BY THIS CONTRACTOR AT HIS EXPENSE. <p>ANCHORS</p> <ul style="list-style-type: none"> PROVIDE ANCHORS FOR ALL EQUIPMENT, RACEWAYS, HANGERS, ETC. TO SAFELY SUPPORT WEIGHT OF ITEM INVOLVED PLUS 100% FOR DEAD LOADS. LIVE LOADS SHALL BE CONSIDERED IN ADDITION TO DEAD LOADS. ANCHORS TO CONSIST OF EXPANSION TYPE DEVICES SIMILAR TO "REDHEAD" OR LEAD EXPANSION ANCHORS. PLASTIC ANCHORS ARE NOT ACCEPTABLE. USE PRESET ANCHOR STEEL INSERTS IN CONCRETE SLABS. PROVIDE PRESET ANCHOR SIZE AND TYPE FOR ANTICIPATED OR SPECIFIED ROD/BOLT SIZE AND LIVE/DEAD LOAD. <p>CLEANING AND PAINTING</p> <ul style="list-style-type: none"> CLEAN EQUIPMENT FURNISHED IN THIS DIVISION AFTER COMPLETION OF WORK. CLEAN NIPE THE INTERIOR OF ALL CONDUIT, PULLBOXES, JUNCTION BOXES, AND OUTLET BOXES, SOILED WITH DIRT AND DEBRIS PRIOR TO INSTALLATION OF WIRING. TOUCH-UP OR RE-PAINT DAMAGED PAINTED FINISHES AS DETERMINED BY THE ENGINEER. <p>RECORD DRAWINGS</p> <ul style="list-style-type: none"> CONTRACTOR SHALL PROVIDE, PRIOR TO FINAL ACCEPTANCE AND OBSERVATION, ONE-SET OF REVISED RECORD ELECTRICAL CONSTRUCTION DOCUMENTS ON REPRODUCIBLE MEDIUM. ALSO INCLUDE THE FOLLOWING INFORMATION: <ul style="list-style-type: none"> EXACT ROUTING OF ALL CONDUITS LARGER THAN ONE INCH. EXACT LOCATION OF ALL SERVICE GROUNDING/ BONDING CONNECTIONS. CONTRACTOR'S NAME, ADDRESS, AND TELEPHONE NUMBER. RECORD NOTATIONS SHALL BE CLEARLY DRAWN AT A DRAFTING APPEARANCE EQUAL TO THE ORIGINAL DRAWINGS. CONTRACTOR SHALL ALSO PROVIDE ALL OPERATING AND MAINTENANCE MANUALS PRIOR TO FINAL PAYMENT. <p>TESTING</p> <ul style="list-style-type: none"> PRIOR TO PLACING IN SERVICES, ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR OPEN, GROUND, AND PHASE ROTATION. THE MAIN SERVICE GROUND AND ALL LOCAL TRANSFORMER MADE GROUNDS SHALL BE MEGGER-TESTED. PROVIDE GFI TESTING FOR SERVICE SWITCHBOARD. ONGOING OPERATIONS THE CONSTRUCTION WORK SHALL BE PHASED SO THAT THE PARKING GARAGE MAY REMAIN OPERATIONAL DURING THE COURSE OF THE PROJECT. DRIVING AISLES WILL NEED TO REMAIN AT LEAST PARTIALLY ACCESSIBLE TO ACCESS OTHER FLOORS. WORK MAY BE DONE ON A FLOOR-BY-FLOOR BASIS AND MAY BE CLOSED ENTIRELY OR PARTIALLY. CONTRACTOR SHALL COORDINATE A PHASING PLAN TO KEEP THE GARAGE OPERATIONAL WITH THE CITY OF SPARKS PROJECT MANAGER, ROBERT BIDART (775) 224-2476. CONDUCT WORK TO MINIMIZE DISRUPTION OF OWNER'S ONGOING OPERATIONS. PROVIDE BARRICADES, NOISE ABATEMENT AND DUST CONTAINMENT MEASURES TO ENSURE THE SAFETY AND COMFORT OF PATRONS, STAFF, AND WORKERS. INTERRUPTIONS OF EXISTING POWER SYSTEMS SHALL BE PERFORMED ONLY AT SUCH TIMES AS DIRECTED BY THE OWNER. OUTAGES SHALL BE MOMENTARY IN NATURE. EACH SUCH OUTAGE OR OPERATION WHICH MAY POSE RISK OF AN ACCIDENTAL OUTAGE SHALL BE SCHEDULED 48 HOURS IN ADVANCE. DISPOSAL PROCEDURES (FLUORESCENT BULBS, BALLASTS, AND LIGHT FIXTURES) THESE MATERIALS DO NOT REQUIRE SPECIAL TRAINING TO REMOVE OR PACKAGE. THE CONTRACTOR SHALL CONTRACT WITH WASTE MANAGEMENT LAMTRACKER OR SIMILAR RECYCLING COMPANY TO RECYCLE THE LAMPS (FLUORESCENT BULBS) AND BALLASTS REMOVED DURING THE PROJECT. THE COSTS TO RECYCLE THESE MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE DISPOSAL, AND COSTS OF NON-REGULATED MATERIALS (LIGHT FIXTURES) IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO RECYCLE AS MUCH MATERIAL AS POSSIBLE. <p>END OF SECTION 16000</p>	1.6	<p>ADDITIONAL SPECIFICATIONS</p> <ul style="list-style-type: none"> ALL WORK PERFORMED SHALL BE FIRST CLASS WORK IN EVERY ASPECT. THE WORK SHALL BE PERFORMED BY MECHANICS SKILLED IN THEIR RESPECTIVE TRADES, WHO SHALL AT ALL TIMES BE UNDER THE SUPERVISION OF COMPETENT PERSONS. ALL WORK SHALL BE INSTALLED TO COMPLY WITH NECA'S STANDARD OF INSTALLATION. IN ADDITION TO THE MATERIALS SPECIFIED ELSEWHERE, FURNISH AND INSTALL ALL OTHER MISCELLANEOUS ITEMS NECESSARY FOR THE COMPLETION OF THE WORK TO THE EXTENT THAT ALL SYSTEMS ARE COMPLETE AND OPERATIVE. CONDUIT SYSTEMS MUST BE COMPLETE PRIOR TO INSTALLATION OF WIRING. <p>CHANGE ORDERS</p> <ul style="list-style-type: none"> ADDITIONAL WORK MAY BE REQUIRED ON THE PROJECT WHICH IS OUTSIDE THE SCOPE OF THE CONTRACT. SUCH ADDITIONAL WORK WILL BE DESCRIBED IN SUPPLEMENTAL INSTRUCTIONS AND/OR CLARIFICATIONS, TO BE ESTIMATED AND PRICED BY THE CONTRACTOR, AND ACCEPTED BY THE OWNER PRIOR TO COMMENCING WORK. PROPOSALS SHALL INCLUDE A LIST OF QUANTITIES OF ALL MATERIAL BEING USED WITH UNIT COSTS BROKEN DOWN INTO MATERIAL AND LABOR COSTS PER UNIT. CONTRACTOR SHALL PROVIDE ACTUAL EQUIPMENT QUOTES WHEN REQUESTED BY ENGINEER. MATERIAL COSTS AND LABOR UNITS SHALL NOT EXCEED THE LATEST EDITION OF RS MEANS ELECTRICAL COST DATA. <p>WARRANTY</p> <ul style="list-style-type: none"> FURNISH THE OWNER A WRITTEN GUARANTEE, STATING THAT IF THE WORKMANSHIP AND/OR MATERIAL EXECUTED UNDER THIS DIVISION IS PROVEN DEFECTIVE WITHIN (1) YEAR AFTER THE FINAL ACCEPTANCE BY THE OWNER, SUCH DEFECTS AND OTHER WORK DAMAGED WILL BE REPAIRED AND/OR REPLACED, SUBMIT WITH OPERATION AND MAINTENANCE MANUALS. OBTAIN FROM THE VARIOUS MANUFACTURERS OR VENDORS GUARANTEES OR WARRANTIES FOR THEIR PARTICULAR EQUIPMENT OR COMPONENTS, AND DELIVER THEM TO THE OWNER. ALL GUARANTEES AND WARRANTIES PROVIDED SHALL BE REFERENCED TO THIS PROJECT. IN EVENT THAT SYSTEMS ARE PLACED IN OPERATION IN SEVERAL PHASES AT THE OWNER'S REQUEST, GUARANTEE WILL BEGIN ON DATE EACH SYSTEM OR ITEM OF EQUIPMENT IS ACCEPTED FOR SERVICE BY THE OWNER. PROVIDE O&M MANUALS FOR ALL EQUIPMENT WHEN EQUIPMENT IS ACCEPTED FOR SERVICE BY THE OWNER. ALL GUARANTEES AND WARRANTIES SHALL INCLUDE LABOR AND MATERIAL AT THE SITE OF INSTALLATION FOR THE DURATION OF THE GUARANTEE PERIOD. <p>OBSERVATIONS OF WORK, OPEN PANEL COVERS, JUNCTION BOX COVERS, PULL BOX COVERS, DEVICE COVERS, AND OTHER EQUIPMENT WITH REMOVABLE PLATES FOR OBSERVATION AS REQUESTED BY AHI OR ENGINEER. PROVIDE SUFFICIENT PERSONNEL TO EXPEDITE COVER REMOVAL AND REPLACEMENT.</p> <ul style="list-style-type: none"> CONTRACTOR TO DEMONSTRATE OPERATION OF NEW EQUIPMENT AND/OR SYSTEMS TO SATISFACTION OF OWNER/ENGINEER. CONTRACTOR TO HAVE MANUFACTURER AVAILABLE FOR DEMONSTRATION OF EQUIPMENT AND/OR SYSTEMS WHERE REQUESTED BY OWNER/ENGINEER. FURNISH AFFIDAVIT SIGNED BY OWNER'S REPRESENTATIVE INDICATING THAT DEMONSTRATION OF OPERATION HAS BEEN PERFORMED. 	1.7	<p>ADDITIONAL SPECIFICATIONS</p> <ul style="list-style-type: none"> ALL WIRING SHALL BE IN CONDUIT, CONCEALED EXCEPT WHERE NOTED. EMT WITH STEEL SET SCREWS INSULATED-THROAT FITTINGS SHALL BE USED IN DRY, PROTECTED INTERIOR LOCATIONS ABOVE 10' AFF. RGS OR IMC CONDUIT WITH THREADED FITTINGS SHALL BE USED IN BELOW 10' AFF WHERE EXPOSED TO THE ELEMENTS OR SUBJECT TO PHYSICAL DAMAGE. <p>WIRING</p> <ul style="list-style-type: none"> WIRE SHALL BE COPPER UNLESS OTHERWISE INDICATED. MINIMUM WIRE SIZE SHALL BE #12 AWG. INSULATION SHALL BE THX, THHN OR THHN. UNLESS OTHERWISE REQUIRED BY LOCAL ORDINANCES, GROUND WIRES SHALL BE GREEN, NEUTRAL WIRES SHALL BE WHITE (20%) OR GREY (21%) AND PHASE WIRES SHALL BE BLACK (PHASE A), RED (PHASE B), AND BLUE (PHASE C) FOR A 120/208 VOLT SYSTEM AND BROWN (PHASE A), ORANGE (PHASE B), AND YELLOW (PHASE C) FOR A 277/480 VOLT SYSTEM. 	1.8	<p>ADDITIONAL SPECIFICATIONS</p> <ul style="list-style-type: none"> VISIT SITE AND SURVEY EXISTING CONDITIONS AFFECTING WORK PRIOR TO BID. INCLUDE NECESSARY MATERIALS AND LABOR TO ACCOMPLISH THE ELECTRICAL WORK. NO CONSIDERATION SHALL BE GIVEN TO FUTURE CLAIMS DUE TO EXISTING CONDITIONS. ANY DISCREPANCIES OR INTERFERENCES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER. <p>WORKMANSHIP</p> <ul style="list-style-type: none"> ALL WORK PERFORMED SHALL BE FIRST CLASS WORK IN EVERY ASPECT. THE WORK SHALL BE PERFORMED BY MECHANICS SKILLED IN THEIR RESPECTIVE TRADES, WHO SHALL AT ALL TIMES BE UNDER THE SUPERVISION OF COMPETENT PERSONS. ALL WORK SHALL BE INSTALLED TO COMPLY WITH NECA'S STANDARD OF INSTALLATION. IN ADDITION TO THE MATERIALS SPECIFIED ELSEWHERE, FURNISH AND INSTALL ALL OTHER MISCELLANEOUS ITEMS NECESSARY FOR THE COMPLETION OF THE WORK TO THE EXTENT THAT ALL SYSTEMS ARE COMPLETE AND OPERATIVE. CONDUIT SYSTEMS MUST BE COMPLETE PRIOR TO INSTALLATION OF WIRING. 	1.9	<p>ADDITIONAL SPECIFICATIONS</p> <ul style="list-style-type: none"> ADDITIONAL WORK MAY BE REQUIRED ON THE PROJECT WHICH IS OUTSIDE THE SCOPE OF THE CONTRACT. SUCH ADDITIONAL WORK WILL BE DESCRIBED IN SUPPLEMENTAL INSTRUCTIONS AND/OR CLARIFICATIONS, TO BE ESTIMATED AND PRICED BY THE CONTRACTOR, AND ACCEPTED BY THE OWNER PRIOR TO COMMENCING WORK. PROPOSALS SHALL INCLUDE A LIST OF QUANTITIES OF ALL MATERIAL BEING USED WITH UNIT COSTS BROKEN DOWN INTO MATERIAL AND LABOR COSTS PER UNIT. CONTRACTOR SHALL PROVIDE ACTUAL EQUIPMENT QUOTES WHEN REQUESTED BY ENGINEER. MATERIAL COSTS AND LABOR UNITS SHALL NOT EXCEED THE LATEST EDITION OF RS MEANS ELECTRICAL COST DATA. 	1.10	<p>ADDITIONAL SPECIFICATIONS</p> <ul style="list-style-type: none"> FURNISH THE OWNER A WRITTEN GUARANTEE, STATING THAT IF THE WORKMANSHIP AND/OR MATERIAL EXECUTED UNDER THIS DIVISION IS PROVEN DEFECTIVE WITHIN (1) YEAR AFTER THE FINAL ACCEPTANCE BY THE OWNER, SUCH DEFECTS AND OTHER WORK DAMAGED WILL BE REPAIRED AND/OR REPLACED, SUBMIT WITH OPERATION AND MAINTENANCE MANUALS. OBTAIN FROM THE VARIOUS MANUFACTURERS OR VENDORS GUARANTEES OR WARRANTIES FOR THEIR PARTICULAR EQUIPMENT OR COMPONENTS, AND DELIVER THEM TO THE OWNER. ALL GUARANTEES AND WARRANTIES PROVIDED SHALL BE REFERENCED TO THIS PROJECT. IN EVENT THAT SYSTEMS ARE PLACED IN OPERATION IN SEVERAL PHASES AT THE OWNER'S REQUEST, GUARANTEE WILL BEGIN ON DATE EACH SYSTEM OR ITEM OF EQUIPMENT IS ACCEPTED FOR SERVICE BY THE OWNER. PROVIDE O&M MANUALS FOR ALL EQUIPMENT WHEN EQUIPMENT IS ACCEPTED FOR SERVICE BY THE OWNER. ALL GUARANTEES AND WARRANTIES SHALL INCLUDE LABOR AND MATERIAL AT THE SITE OF INSTALLATION FOR THE DURATION OF THE GUARANTEE PERIOD. <p>OBSERVATIONS OF WORK, OPEN PANEL COVERS, JUNCTION BOX COVERS, PULL BOX COVERS, DEVICE COVERS, AND OTHER EQUIPMENT WITH REMOVABLE PLATES FOR OBSERVATION AS REQUESTED BY AHI OR ENGINEER. PROVIDE SUFFICIENT PERSONNEL TO EXPEDITE COVER REMOVAL AND REPLACEMENT.</p> <ul style="list-style-type: none"> CONTRACTOR TO DEMONSTRATE OPERATION OF NEW EQUIPMENT AND/OR SYSTEMS TO SATISFACTION OF OWNER/ENGINEER. CONTRACTOR TO HAVE MANUFACTURER AVAILABLE FOR DEMONSTRATION OF EQUIPMENT AND/OR SYSTEMS WHERE REQUESTED BY OWNER/ENGINEER. FURNISH AFFIDAVIT SIGNED BY OWNER'S REPRESENTATIVE INDICATING THAT DEMONSTRATION OF OPERATION HAS BEEN PERFORMED. 	1.11	<p>ADDITIONAL SPECIFICATIONS</p> <ul style="list-style-type: none"> FURNISH THE OWNER A WRITTEN GUARANTEE, STATING THAT IF THE WORKMANSHIP AND/OR MATERIAL EXECUTED UNDER THIS DIVISION IS PROVEN DEFECTIVE WITHIN (1) YEAR AFTER THE FINAL ACCEPTANCE BY THE OWNER, SUCH DEFECTS AND OTHER WORK DAMAGED WILL BE REPAIRED AND/OR REPLACED, SUBMIT WITH OPERATION AND MAINTENANCE MANUALS. OBTAIN FROM THE VARIOUS MANUFACTURERS OR VENDORS GUARANTEES OR WARRANTIES FOR THEIR PARTICULAR EQUIPMENT OR COMPONENTS, AND DELIVER THEM TO THE OWNER. ALL GUARANTEES AND WARRANTIES PROVIDED SHALL BE REFERENCED TO THIS PROJECT. IN EVENT THAT SYSTEMS ARE PLACED IN OPERATION IN SEVERAL PHASES AT THE OWNER'S REQUEST, GUARANTEE WILL BEGIN ON DATE EACH SYSTEM OR ITEM OF EQUIPMENT IS ACCEPTED FOR SERVICE BY THE OWNER. PROVIDE O&M MANUALS FOR ALL EQUIPMENT WHEN EQUIPMENT IS ACCEPTED FOR SERVICE BY THE OWNER. ALL GUARANTEES AND WARRANTIES SHALL INCLUDE LABOR AND MATERIAL AT THE SITE OF INSTALLATION FOR THE DURATION OF THE GUARANTEE PERIOD. <p>OBSERVATIONS OF WORK, OPEN PANEL COVERS, JUNCTION BOX COVERS, PULL BOX COVERS, DEVICE COVERS, AND OTHER EQUIPMENT WITH REMOVABLE PLATES FOR OBSERVATION AS REQUESTED BY AHI OR ENGINEER. PROVIDE SUFFICIENT PERSONNEL TO EXPEDITE COVER REMOVAL AND REPLACEMENT.</p> <ul style="list-style-type: none"> CONTRACTOR TO DEMONSTRATE OPERATION OF NEW EQUIPMENT AND/OR SYSTEMS TO SATISFACTION OF OWNER/ENGINEER. CONTRACTOR TO HAVE MANUFACTURER AVAILABLE FOR DEMONSTRATION OF EQUIPMENT AND/OR SYSTEMS WHERE REQUESTED BY OWNER/ENGINEER. FURNISH AFFIDAVIT SIGNED BY OWNER'S REPRESENTATIVE INDICATING THAT DEMONSTRATION OF OPERATION HAS BEEN PERFORMED. 	1.12	<p>ADDITIONAL SPECIFICATIONS</p> <ul style="list-style-type: none"> FURNISH THE OWNER A WRITTEN GUARANTEE, STATING THAT IF THE WORKMANSHIP AND/OR MATERIAL EXECUTED UNDER THIS DIVISION IS PROVEN DEFECTIVE WITHIN (1) YEAR AFTER THE FINAL ACCEPTANCE BY THE OWNER, SUCH DEFECTS AND OTHER WORK DAMAGED WILL BE REPAIRED AND/OR REPLACED, SUBMIT WITH OPERATION AND MAINTENANCE MANUALS. OBTAIN FROM THE VARIOUS MANUFACTURERS OR VENDORS GUARANTEES OR WARRANTIES FOR THEIR PARTICULAR EQUIPMENT OR COMPONENTS, AND DELIVER THEM TO THE OWNER. ALL GUARANTEES AND WARRANTIES PROVIDED SHALL BE REFERENCED TO THIS PROJECT. IN EVENT THAT SYSTEMS ARE PLACED IN OPERATION IN SEVERAL PHASES AT THE OWNER'S REQUEST, GUARANTEE WILL BEGIN ON DATE EACH SYSTEM OR ITEM OF EQUIPMENT IS ACCEPTED FOR SERVICE BY THE OWNER. 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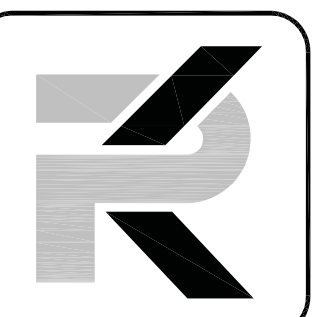
Victorian Square Theater Garage
Lighting Project
Sparks, Nevada 89431

REVISIONS

SHEET TITLE
ELECTRICAL SPECIFICATIONS

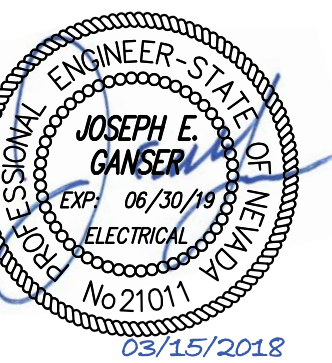
DRAWN: MJS
CHECKED: JEG
DATE: 02/15/18
JOB NUMBER: 17196
PROJECT NAME: SP

E0.2



PK Electrical, Inc.

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Victorian Square Theater Garage
Lighting Project

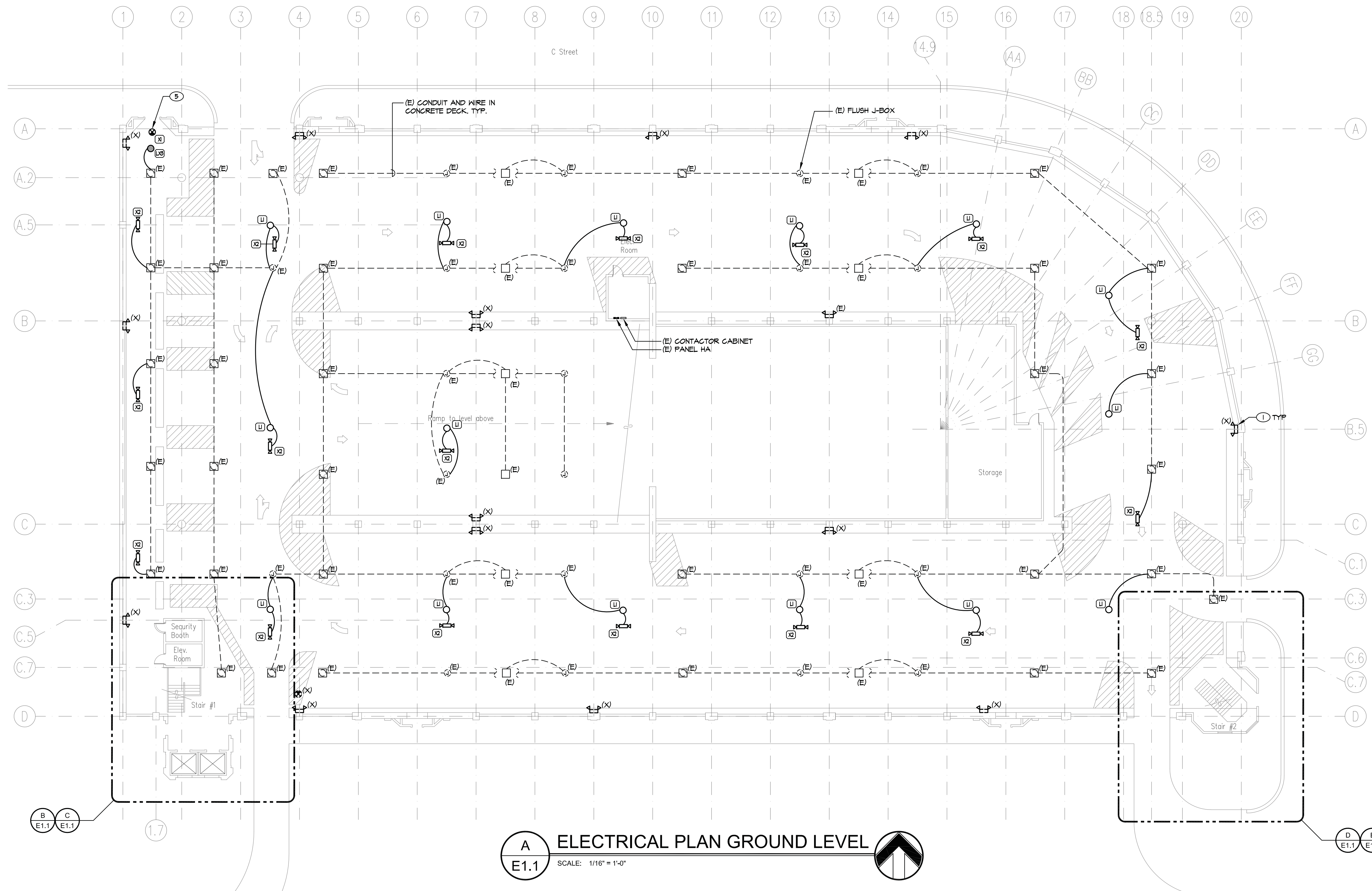
Sparks, Nevada 89431

GENERAL NOTES

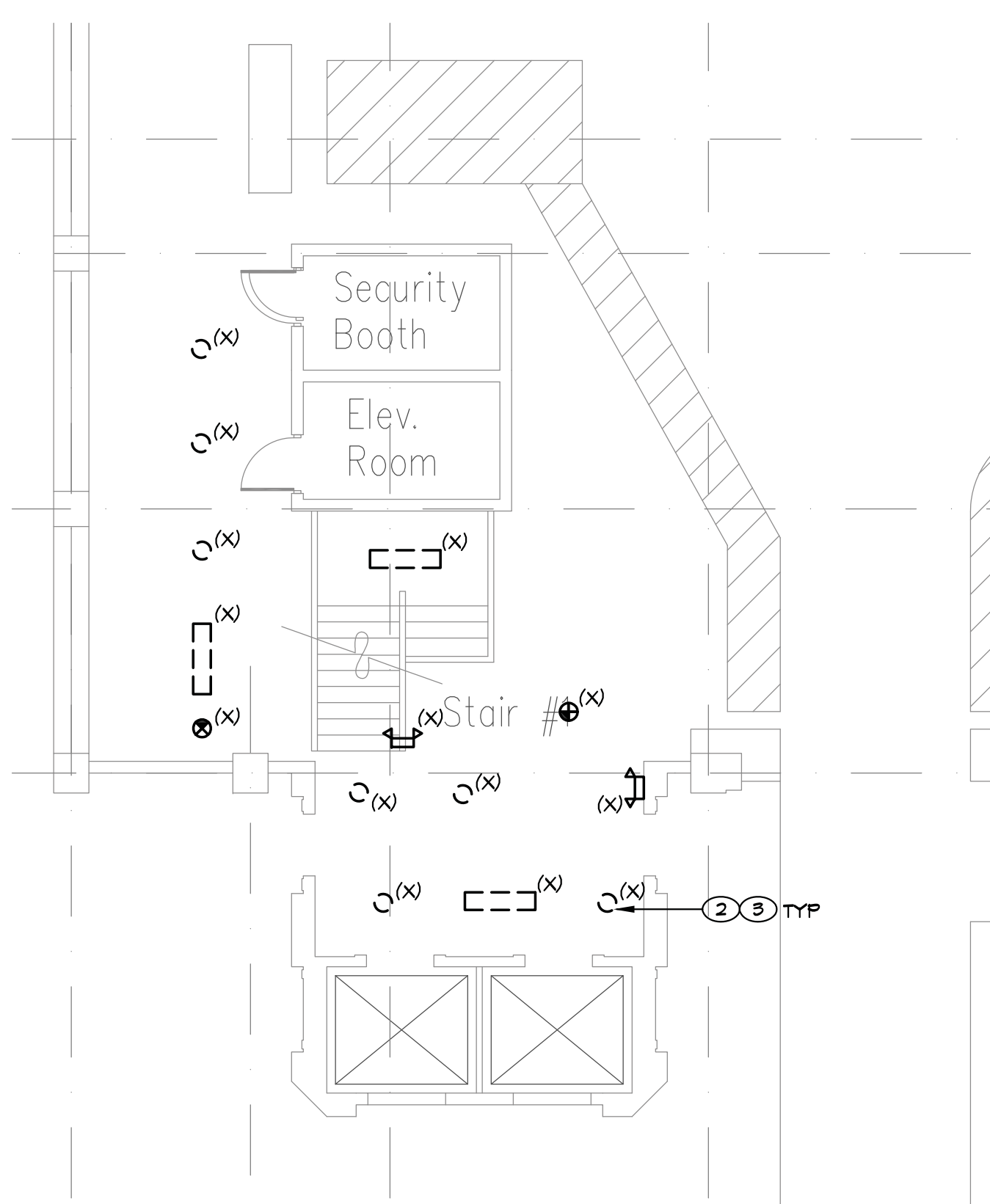
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SHEET NOTES

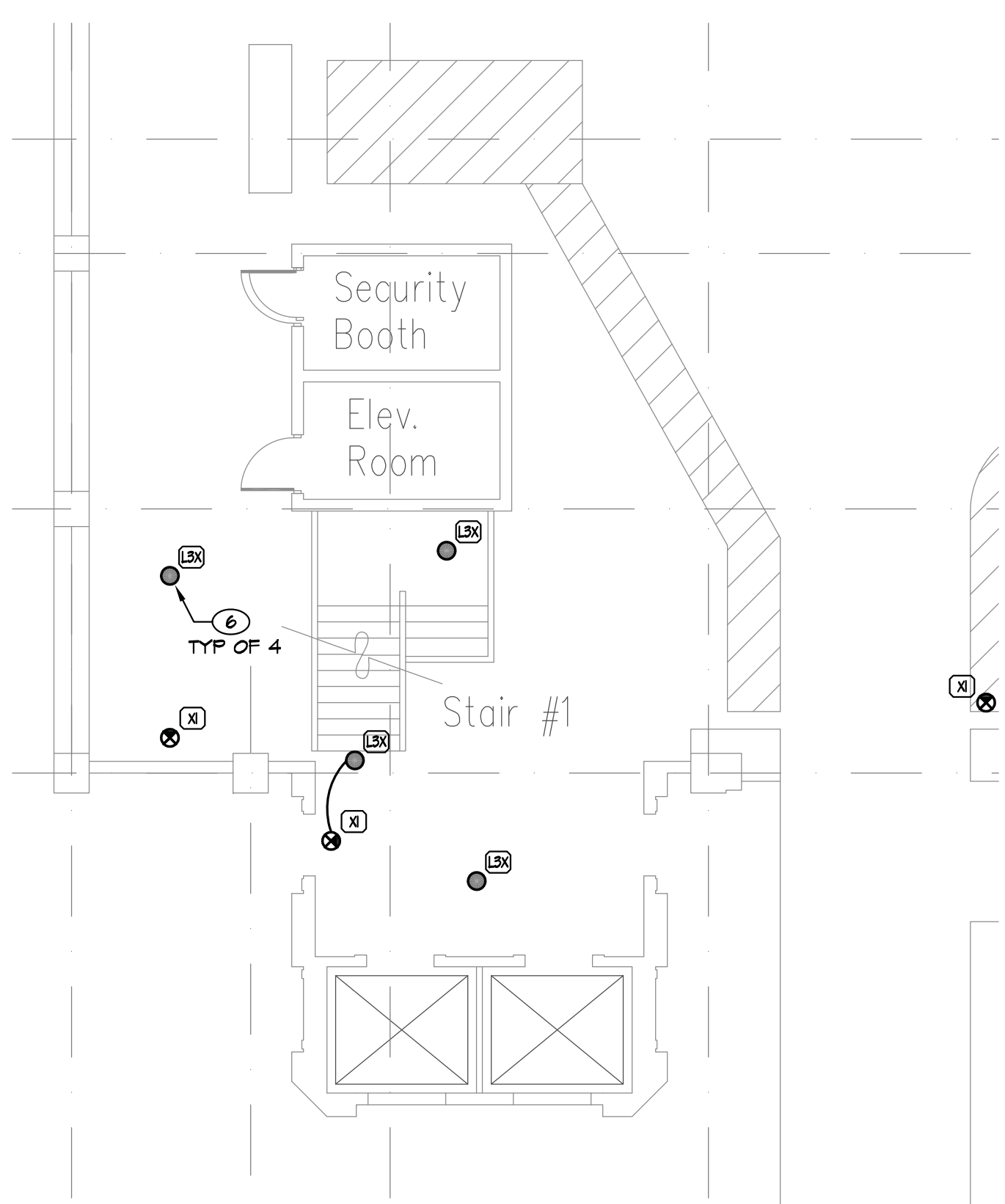
- REMOVE EXISTING TWINHEAD BATTERY PACK (OR WHAT REMAINS), TERMINATE CONDUCTORS AND PROVIDE STAINLESS STEEL COVER-PLATE-SIZE AS REQUIRED TO COVER BOX, PROVIDE TAMPER-PROOF SCREWS.
- REMOVE (E) FIXTURES AND REPLACE WITH NEW FIXTURES PER NEW WORK PLANS. CONNECT NEW FIXTURES TO EXISTING CIRCUIT.
- WHERE NEW FIXTURES ARE NOT BEING INSTALLED TERMINATE (E) CONDUCTORS AND PROVIDE A BLANK STAINLESS STEEL COVER PLATE WITH TAMPER-PROOF SCREWS.
- FIXTURE ON/OFF BY INTEGRAL OC SENSOR.
- REMOVE EXISTING EXIT SIGN AND REPLACE WITH NEW.
- FIXTURES "ON" ALL THE TIME.



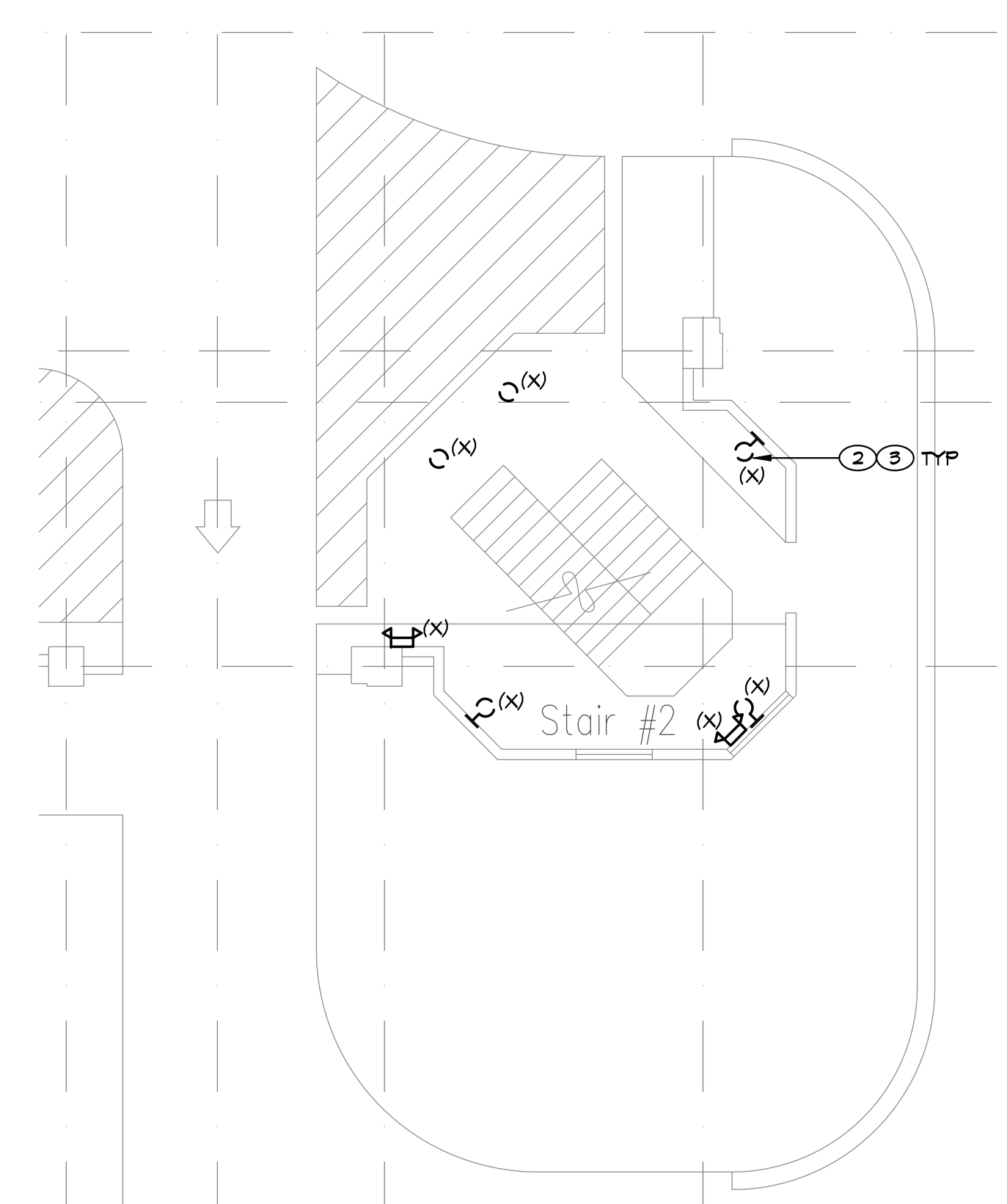
A ELECTRICAL PLAN GROUND LEVEL
E1.1 SCALE: 1/16" = 1'-0"



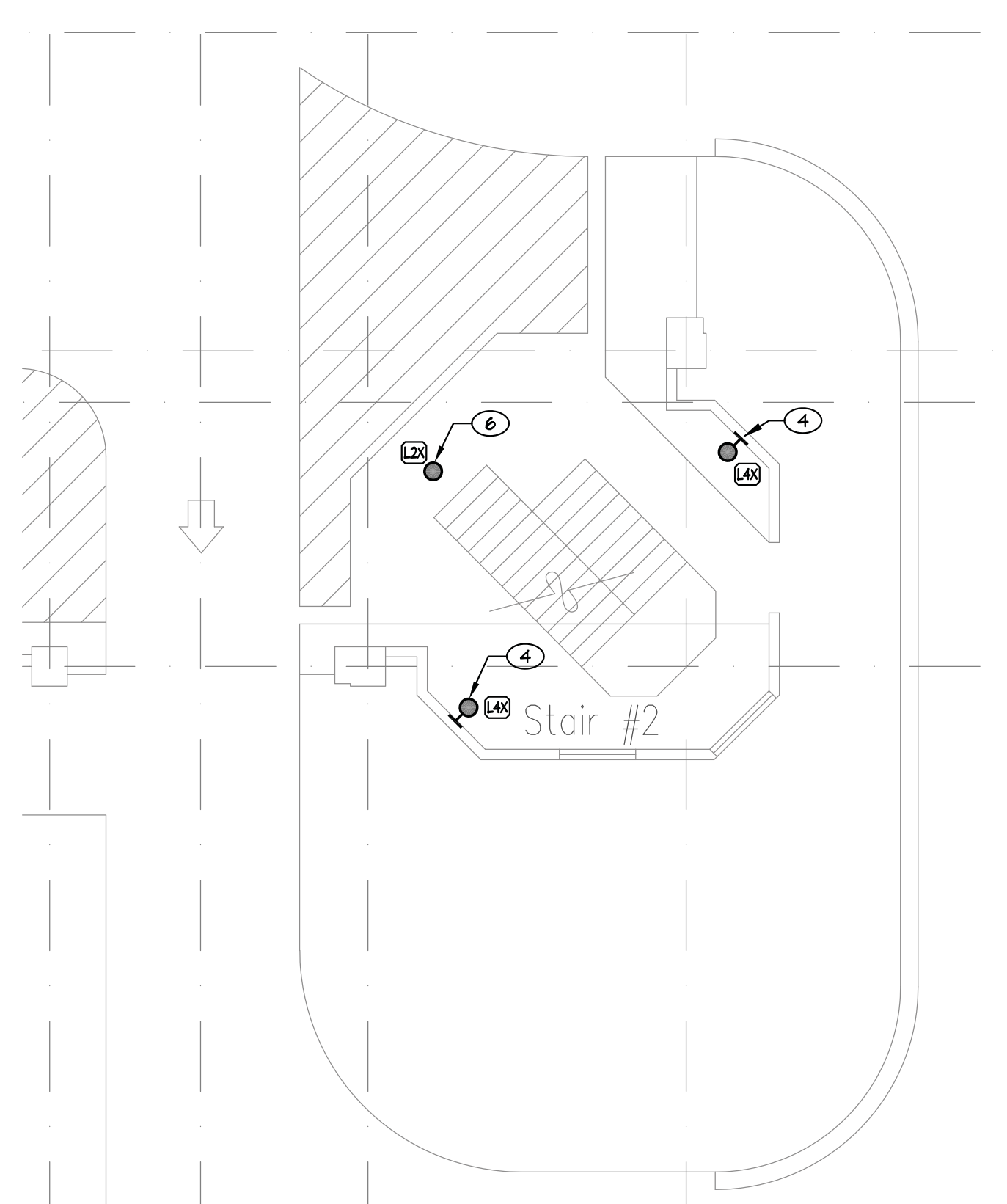
B STAIR NO.1/ELEVATORS ENLARGED ELECTRICAL DEMO PLAN
E1.1 SCALE: 1/8" = 1'-0"



C STAIR NO.1/ELEVATORS ENLARGED ELECTRICAL NEW WORK PLAN
E1.1 SCALE: 1/8" = 1'-0"



D STAIR NO.2 ENLARGED ELECTRICAL DEMO PLAN
E1.1 SCALE: 1/8" = 1'-0"



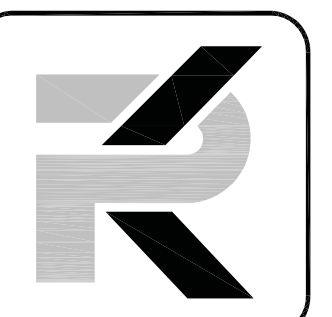
E STAIR NO.2 ENLARGED ELECTRICAL NEW WORK PLAN
E1.1 SCALE: 1/8" = 1'-0"

REVISIONS

SHEET TITLE
ELECTRICAL PLAN
GROUND LEVEL

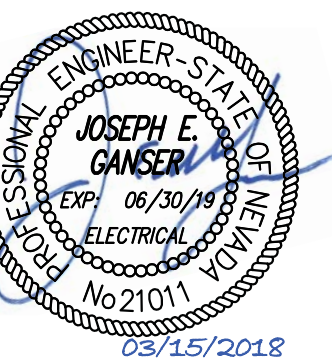
DRAWN: M.J.G.
 CHECKED: J.E.G.
 DATE: 02/15/18
 JOB NUMBER: 17186
 PROJECT NAME: SP

E1.1



PK Electrical, Inc.

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Victorian Square Theater Garage
Lighting Project

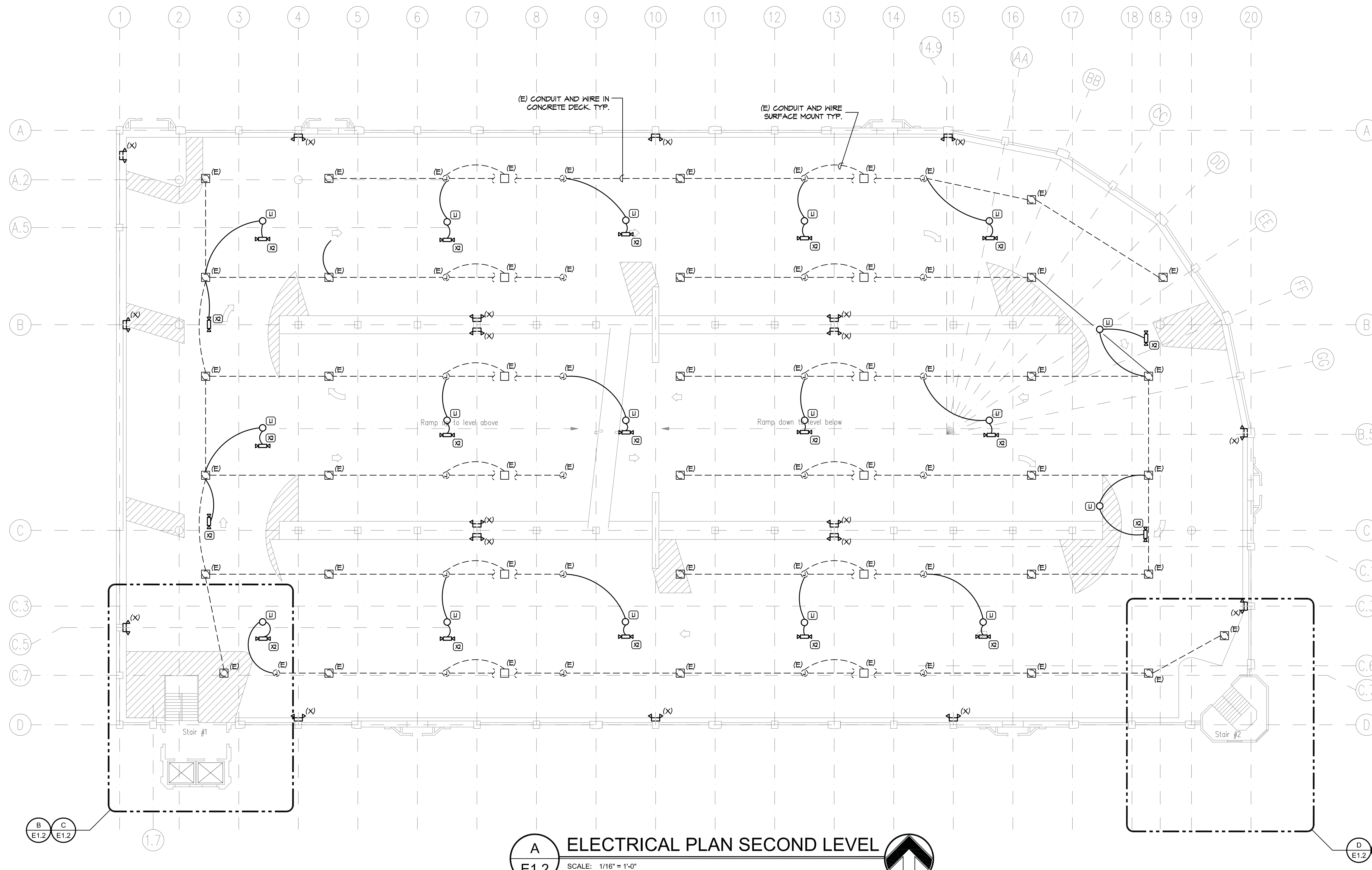
Sparks, Nevada 89431

GENERAL NOTES

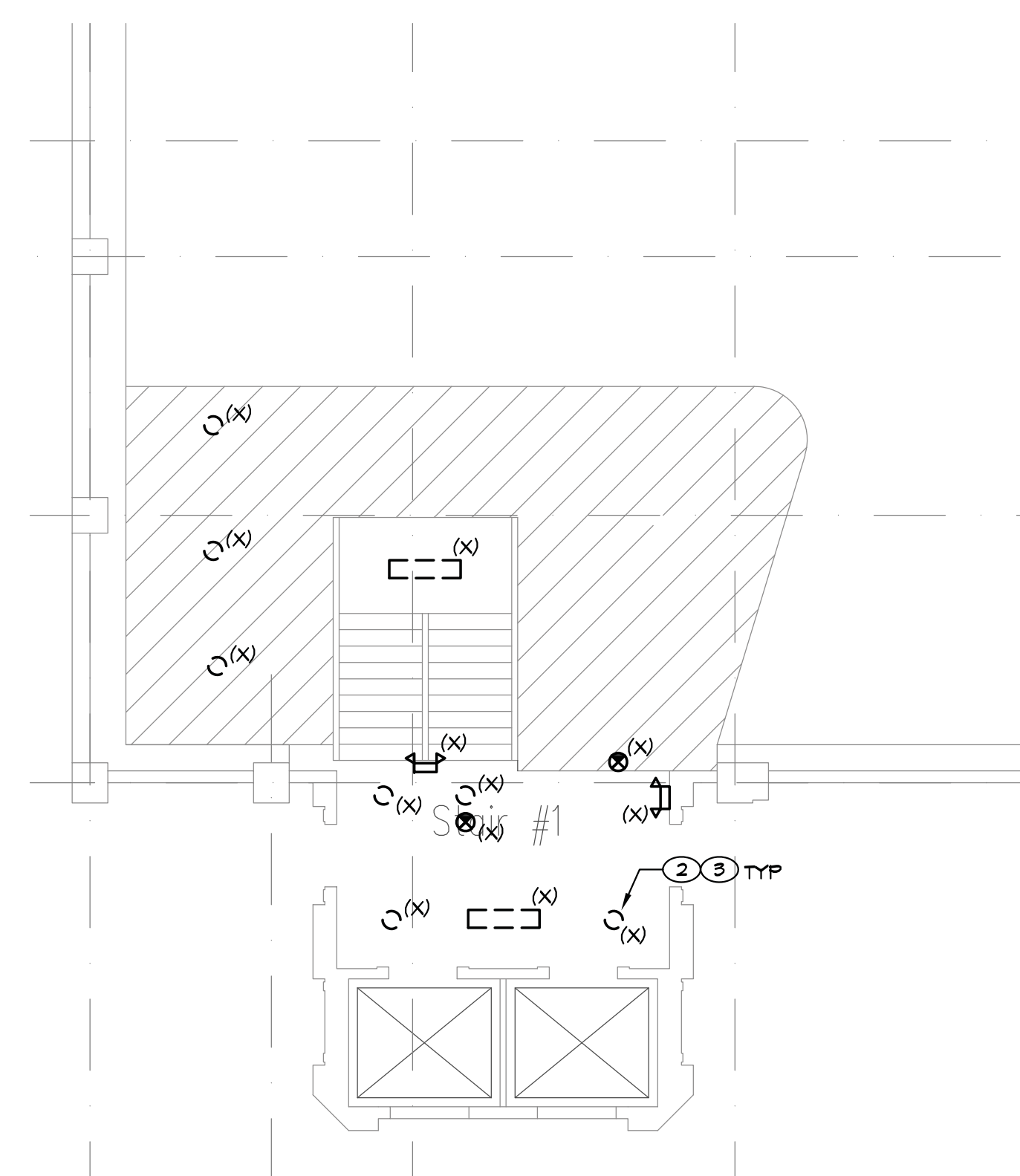
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SHEET NOTES

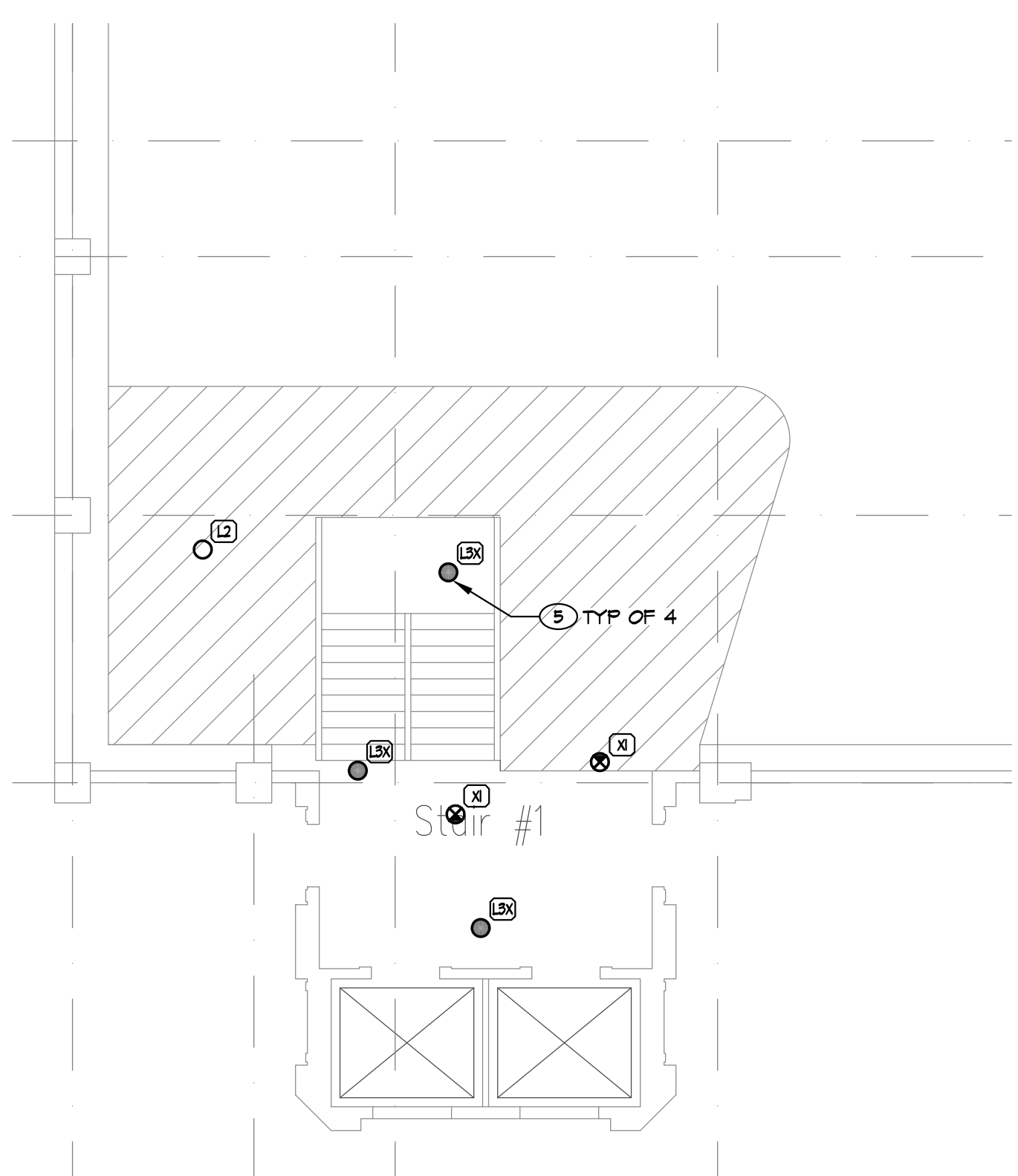
- REMOVE EXISTING THINHEAD BATTERY PACK (OR WHAT REMAINS). TERMINATE CONDUCTORS AND PROVIDE STAINLESS STEEL COVER-PLATE-SIZE AS REQUIRED TO COVER BOX. PROVIDE TAMPER-PROOF SCREWS.
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- FIXTURE ON/OFF BY INTEGRAL OC SENSOR.
- FIXTURES "ON" ALL THE TIME.



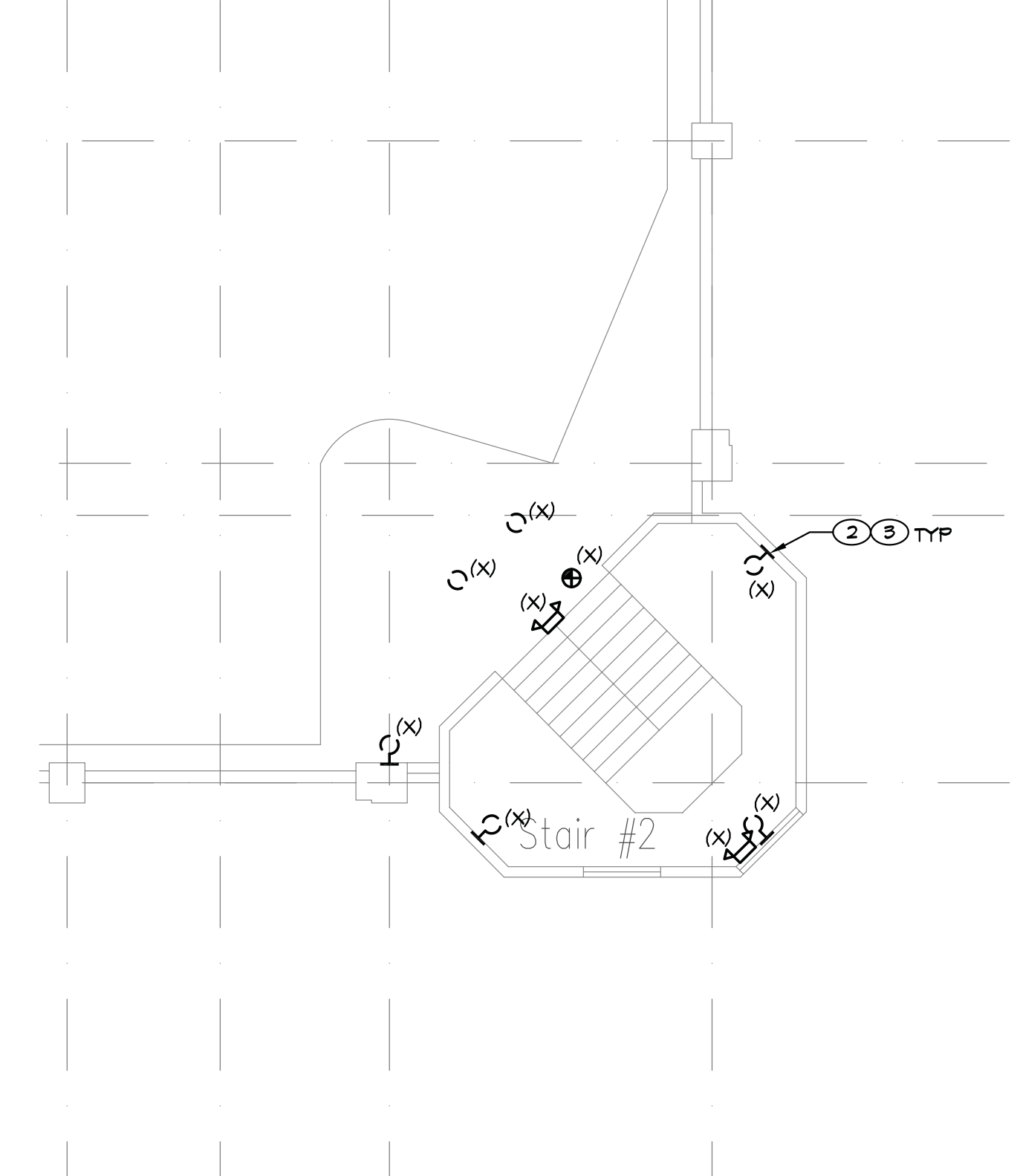
A ELECTRICAL PLAN SECOND LEVEL
SCALE: 1/16" = 1'-0"



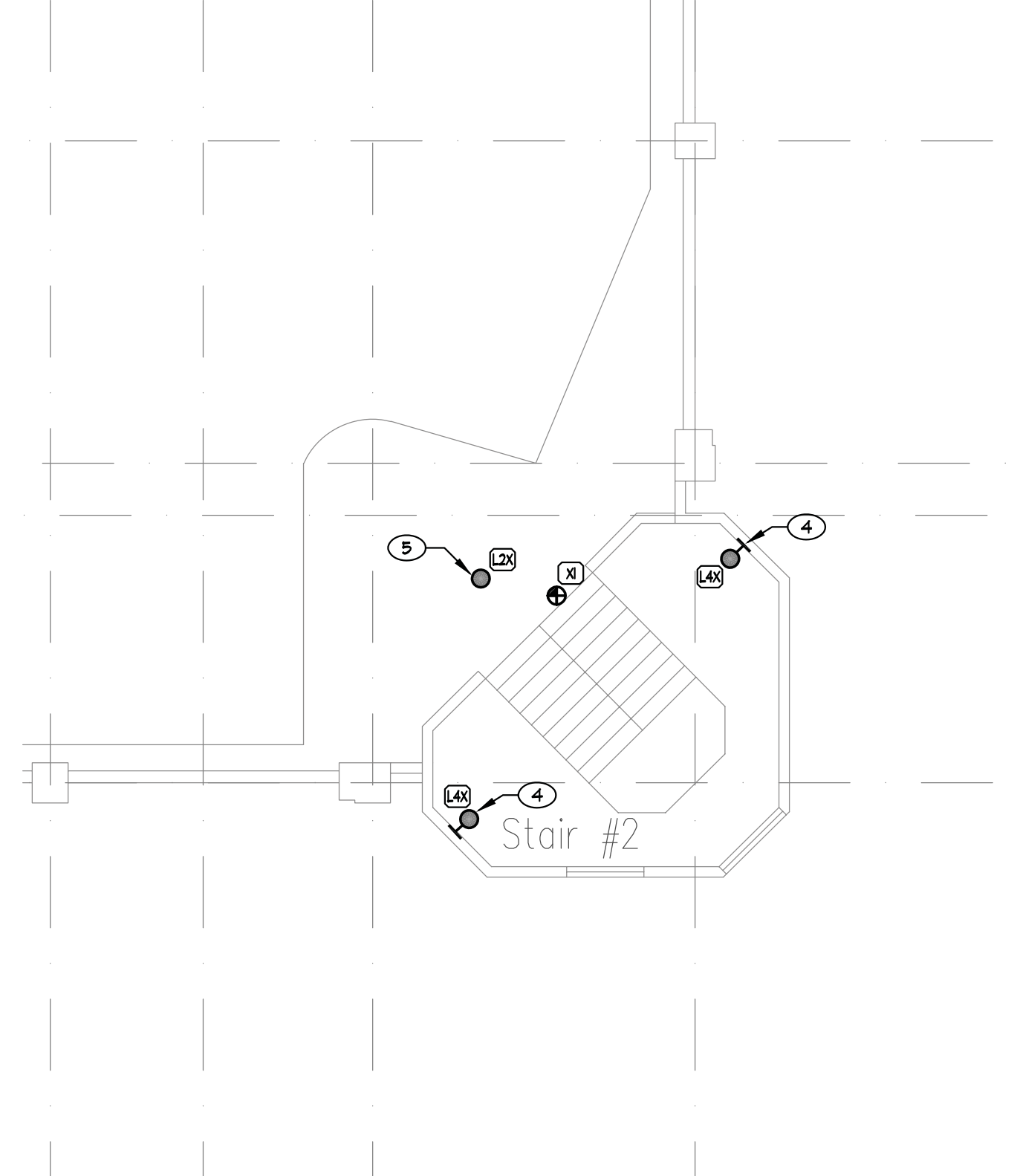
B STAIR NO.1/ELEVATORS ENLARGED ELECTRICAL DEMO PLAN
SCALE: 1/8" = 1'-0"



C STAIR NO.1/ELEVATORS ENLARGED ELECTRICAL NEW WORK PLAN
SCALE: 1/8" = 1'-0"



D STAIR NO.2 ENLARGED ELECTRICAL DEMO PLAN
SCALE: 1/8" = 1'-0"



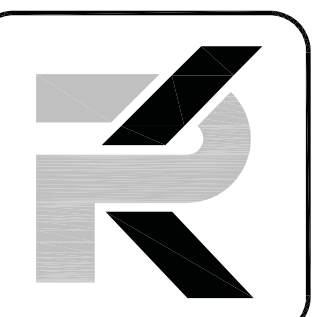
E STAIR NO.2 ENLARGED ELECTRICAL NEW WORK PLAN
SCALE: 1/8" = 1'-0"

REVISIONS

SHEET TITLE
ELECTRICAL PLAN
SECOND LEVEL

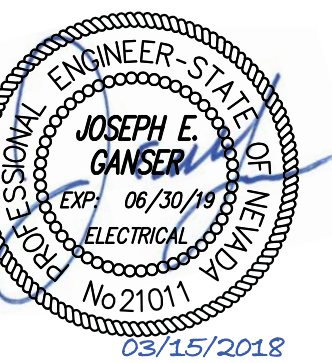
DRAWN: M.J.G.
 CHECKED: J.E.G.
 DATE: 02/15/18
 JOB NUMBER: 17186
 PROJECT NAME: SF

E1.2



PK Electrical, Inc.

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Victorian Square Theater Garage
Lighting Project

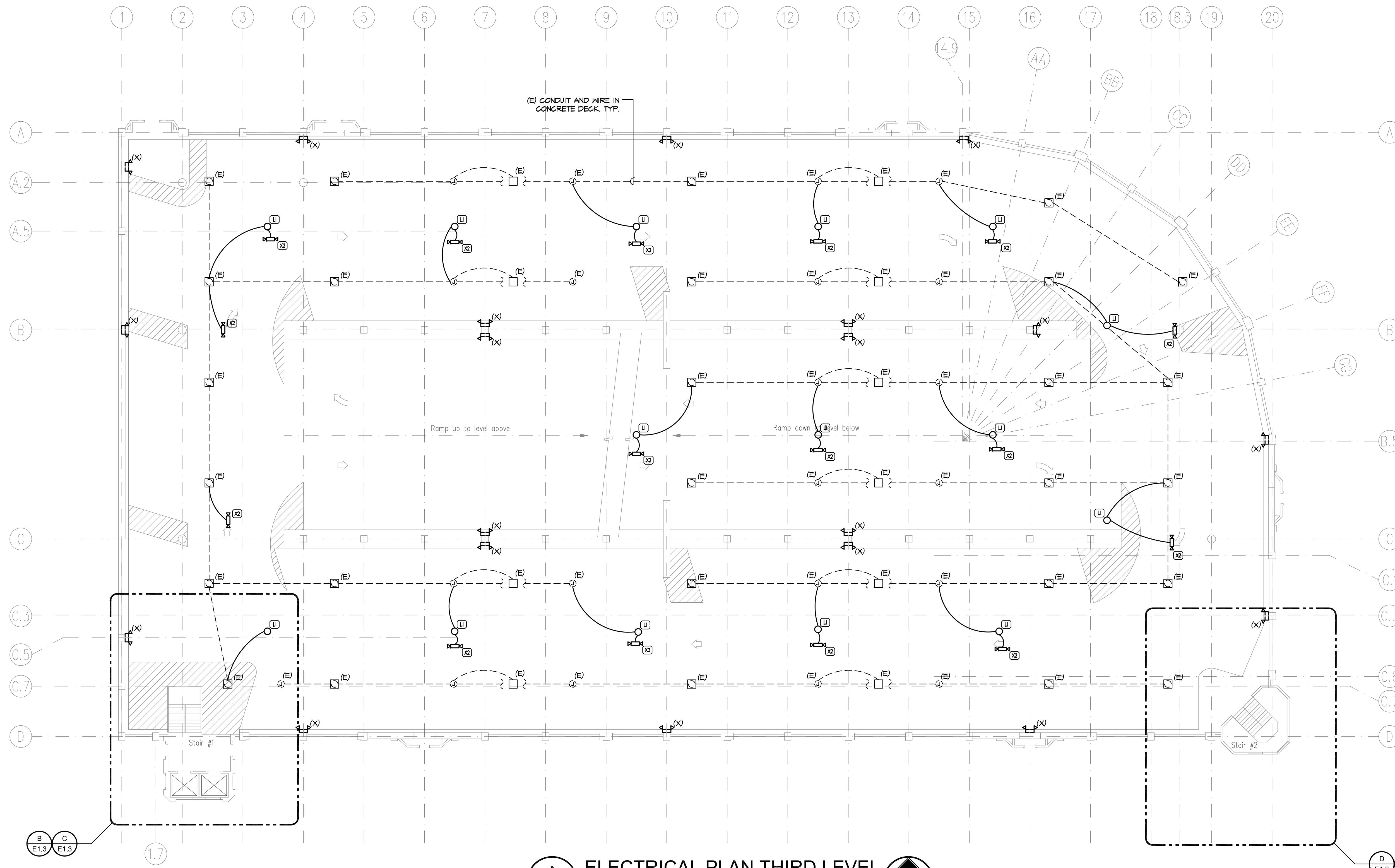
Sparks, Nevada 89431

GENERAL NOTES

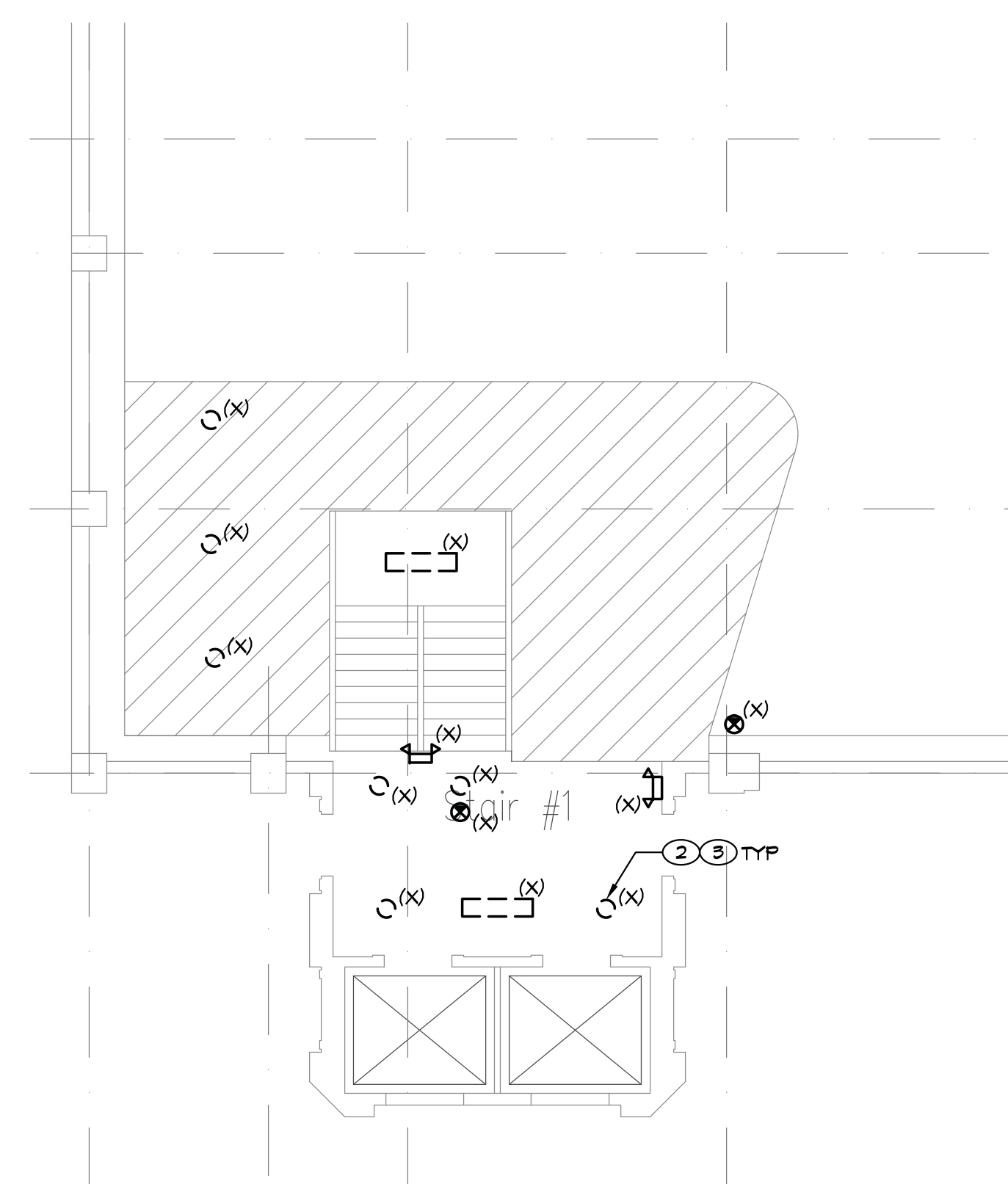
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SHEET NOTES

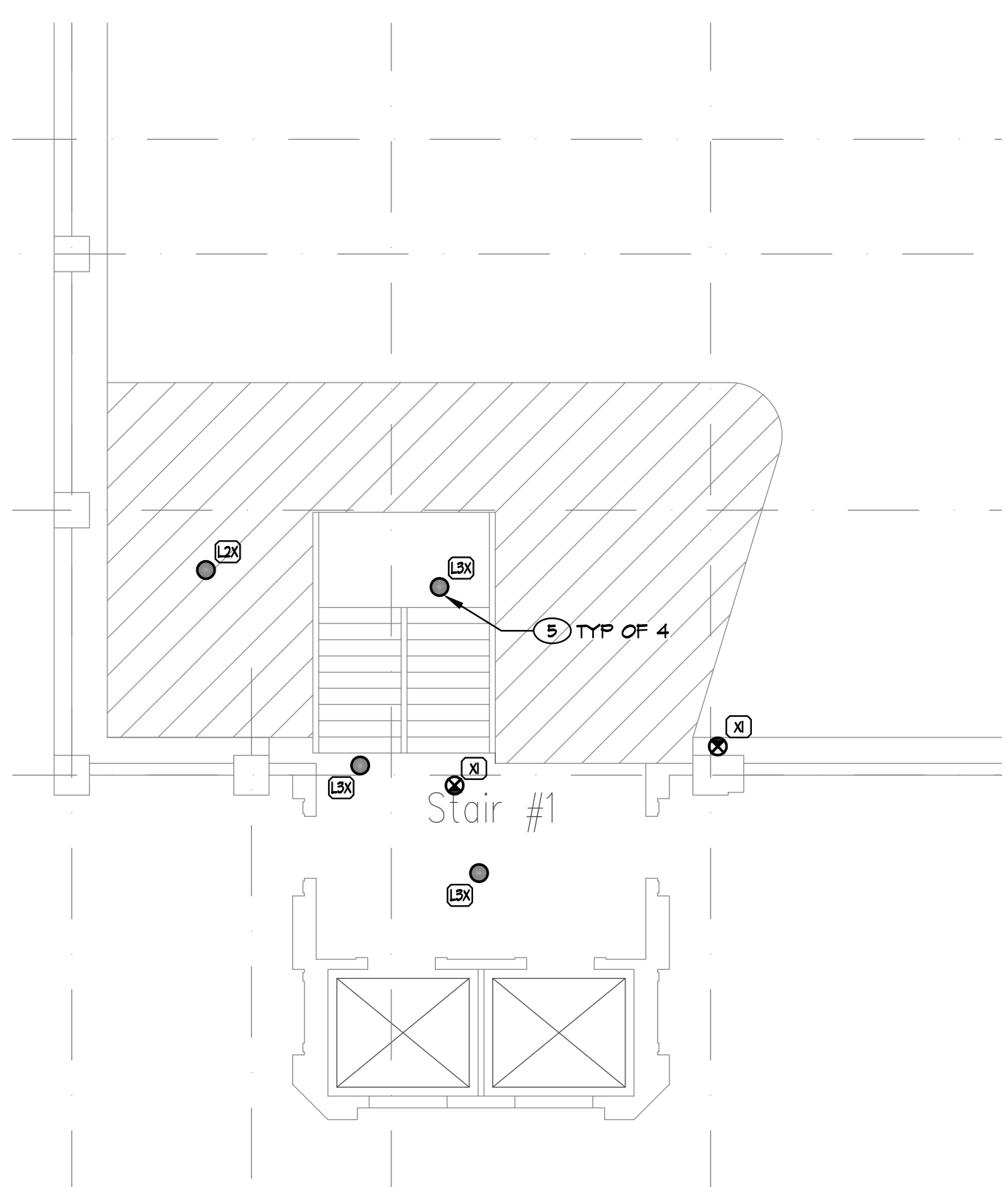
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- FIXTURES 'ON' BY INTEGRAL OC SENSOR.
- FIXTURES 'ON' ALL THE TIME.



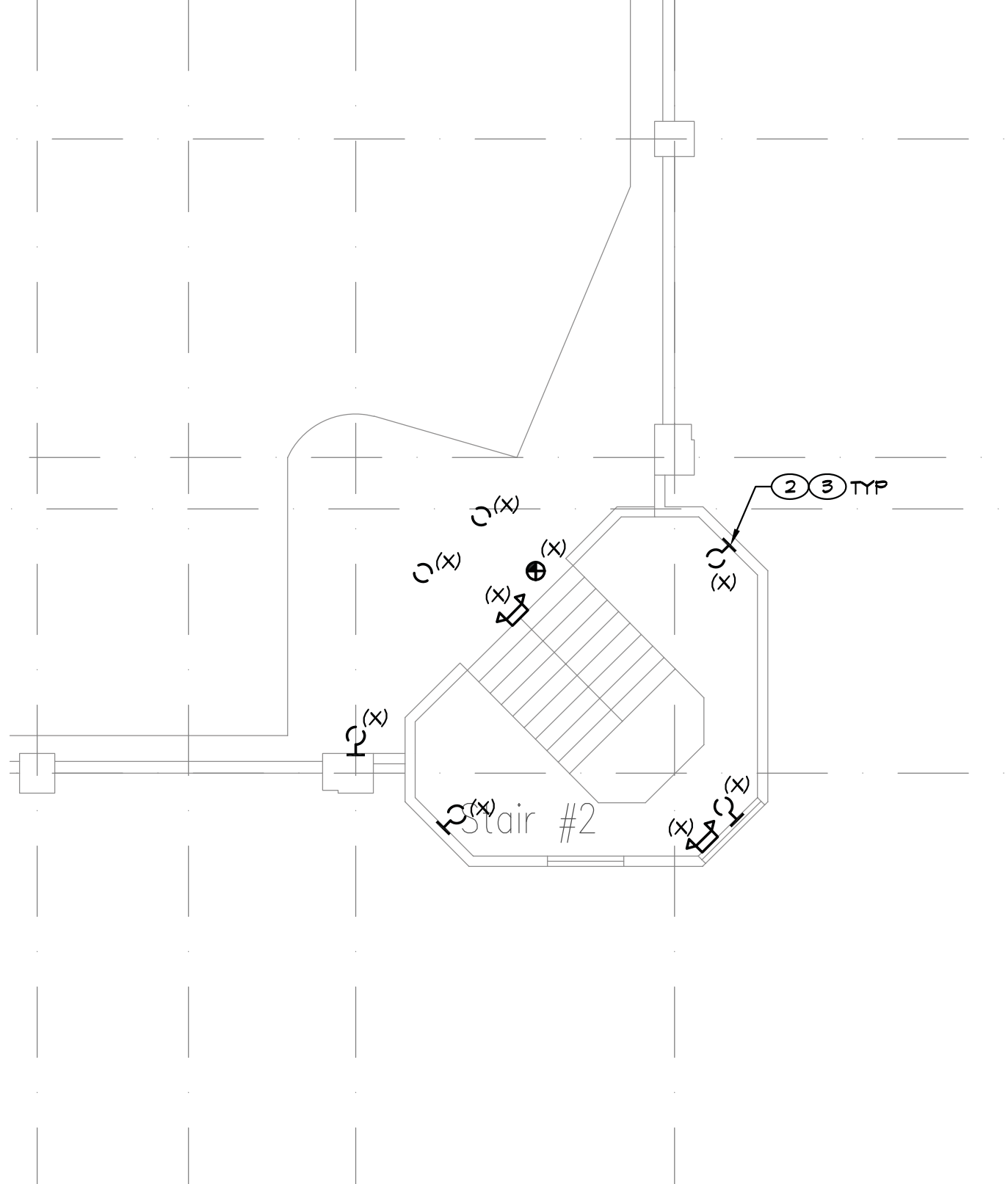
A ELECTRICAL PLAN THIRD LEVEL
E1.3 SCALE: 1/16" = 1'-0"



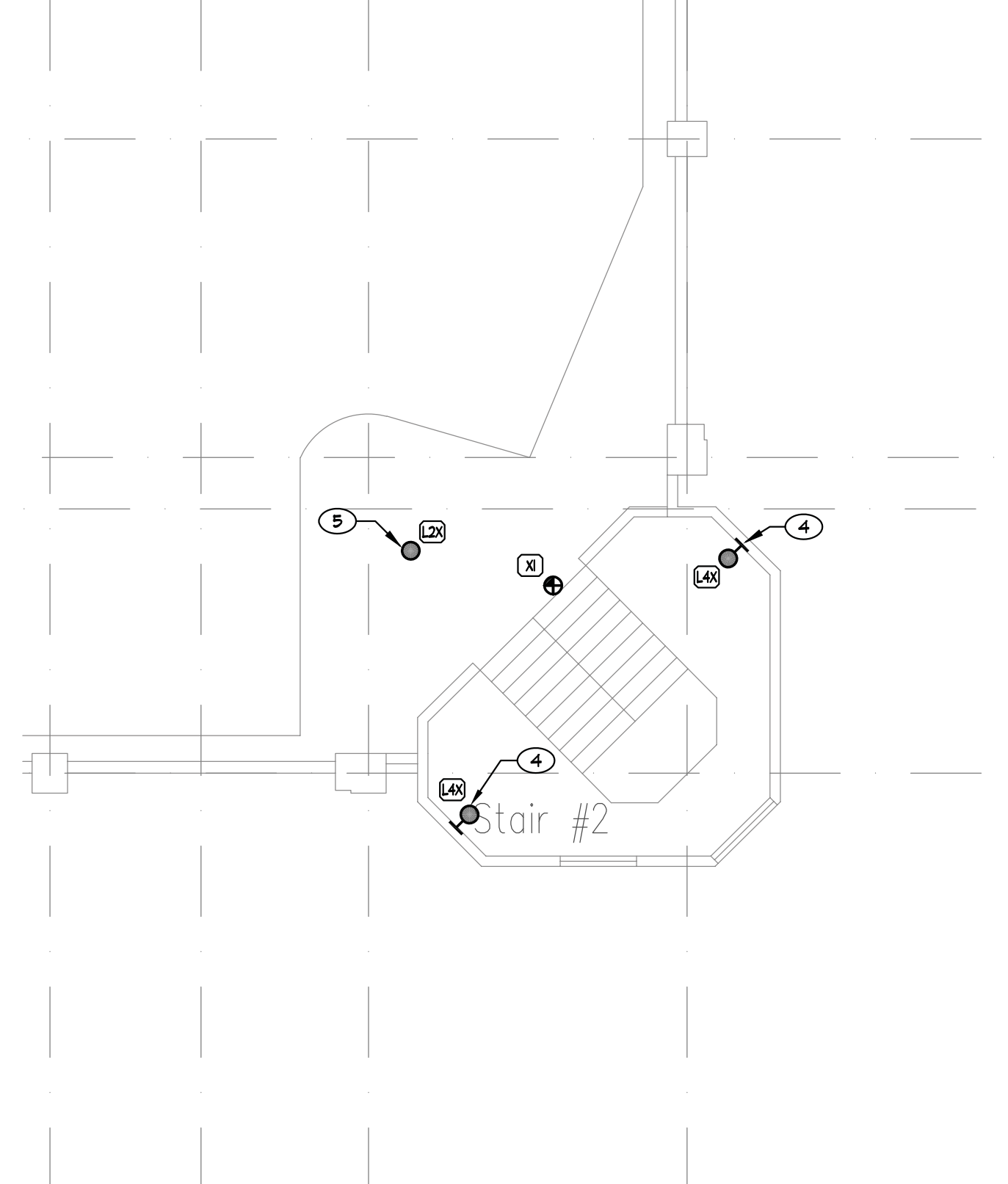
B STAIR NO.1/ELEVATORS ENLARGED ELECTRICAL DEMO PLAN
E1.3 SCALE: 1/8" = 1'-0"



C STAIR NO.1/ELEVATORS ENLARGED ELECTRICAL NEW WORK PLAN
E1.3 SCALE: 1/8" = 1'-0"



D STAIR NO.2 ENLARGED ELECTRICAL DEMO PLAN
E1.3 SCALE: 1/8" = 1'-0"



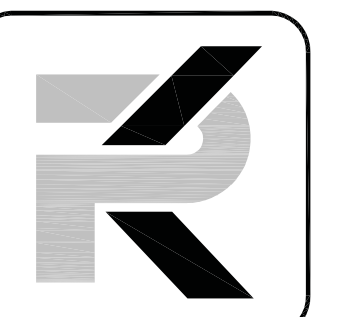
E STAIR NO.2 ENLARGED ELECTRICAL NEW WORK PLAN
E1.3 SCALE: 1/8" = 1'-0"

REVISIONS

SHEET TITLE
ELECTRICAL PLAN THIRD LEVEL

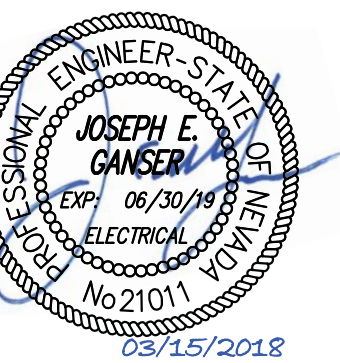
DRAWN: M.J.G.
 CHECKED: J.E.G.
 DATE: 02/15/18
 JOB NUMBER: 17136
 PROJECT NAME: SP

E1.3



PK Electrical, Inc.

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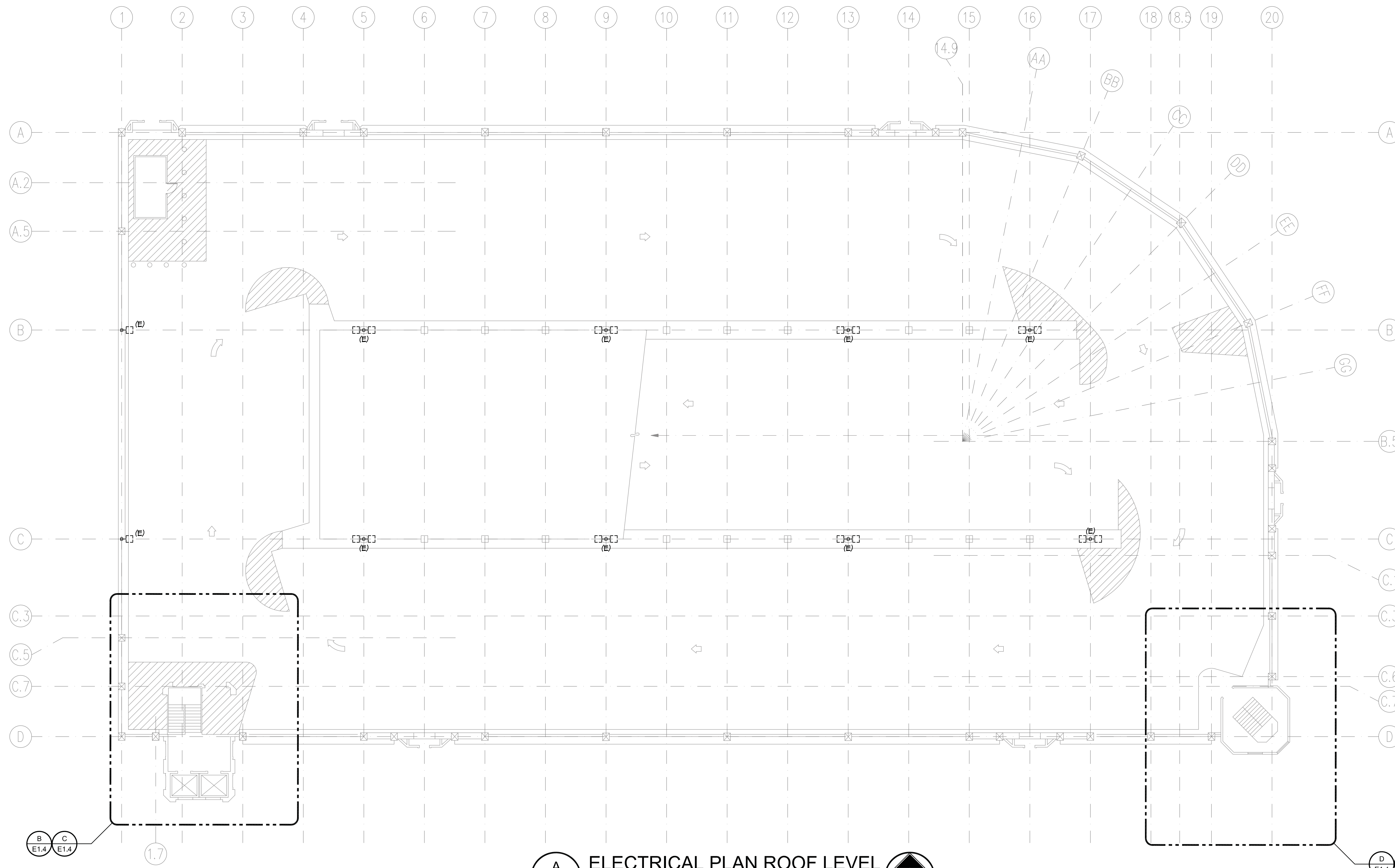


GENERAL NOTES

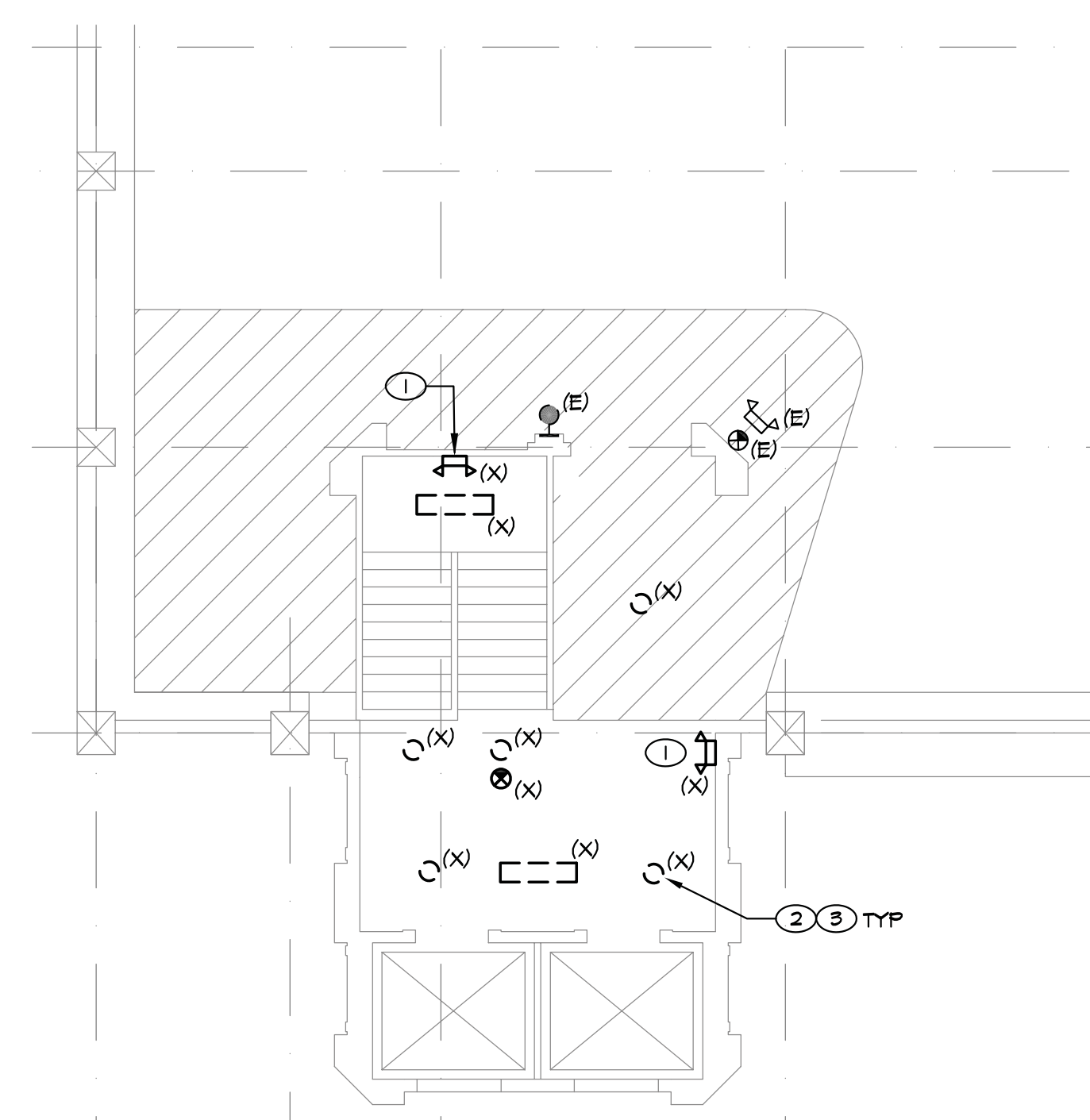
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SHEET NOTES

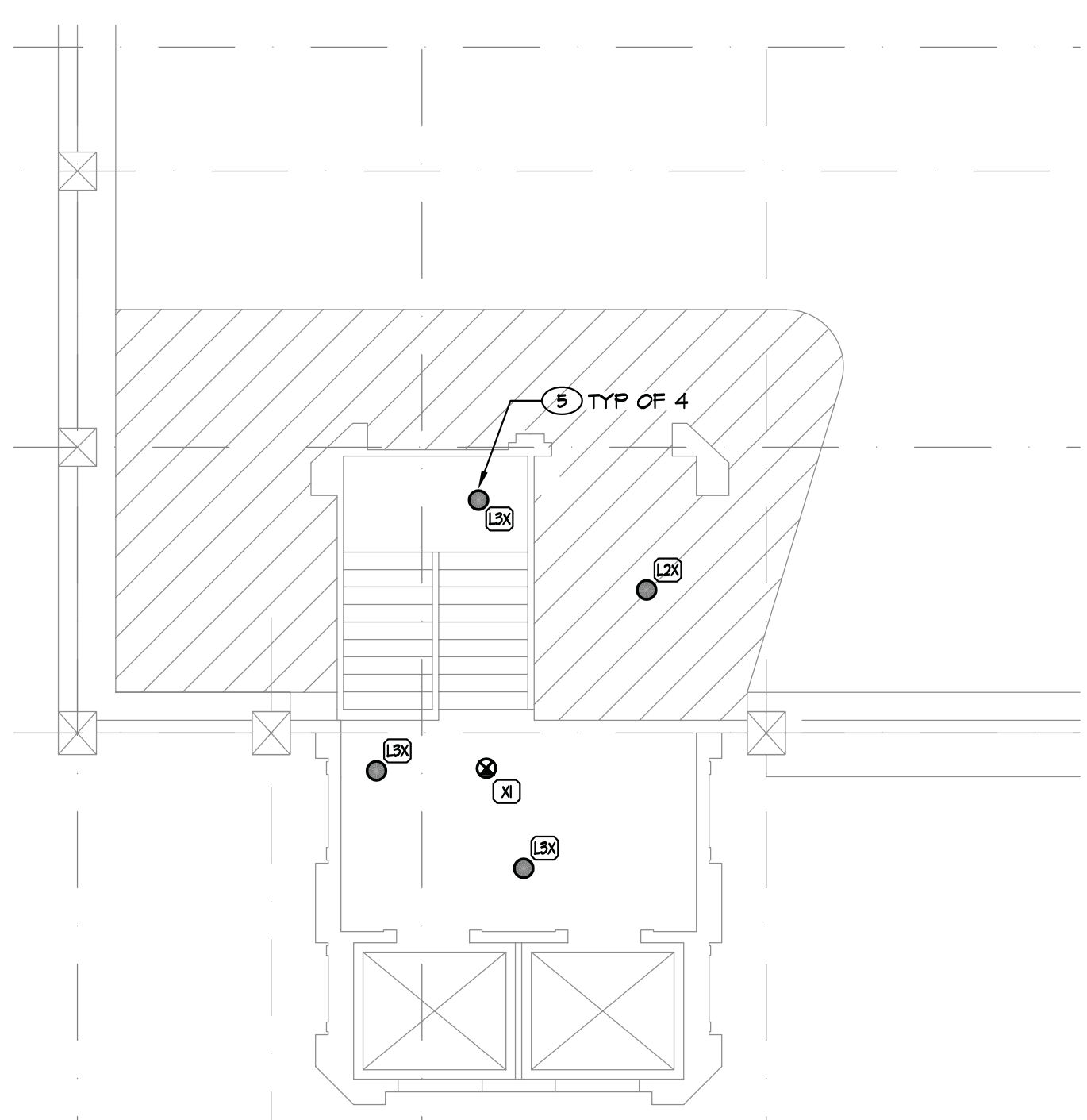
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- FIXTURES 'ON' ALL THE TIME.



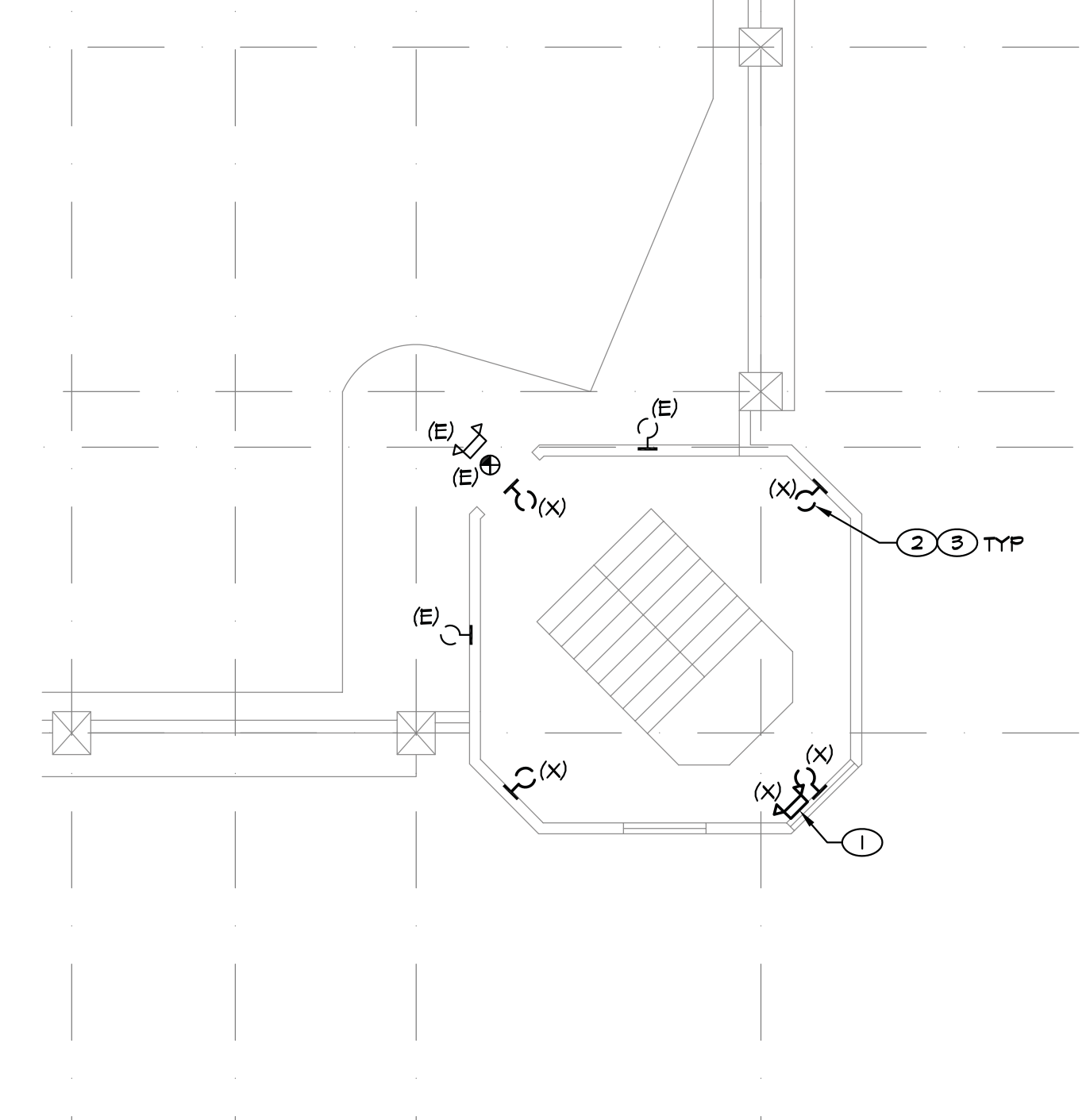
A
E1.4
SCALE: 1/16" = 1'-0"



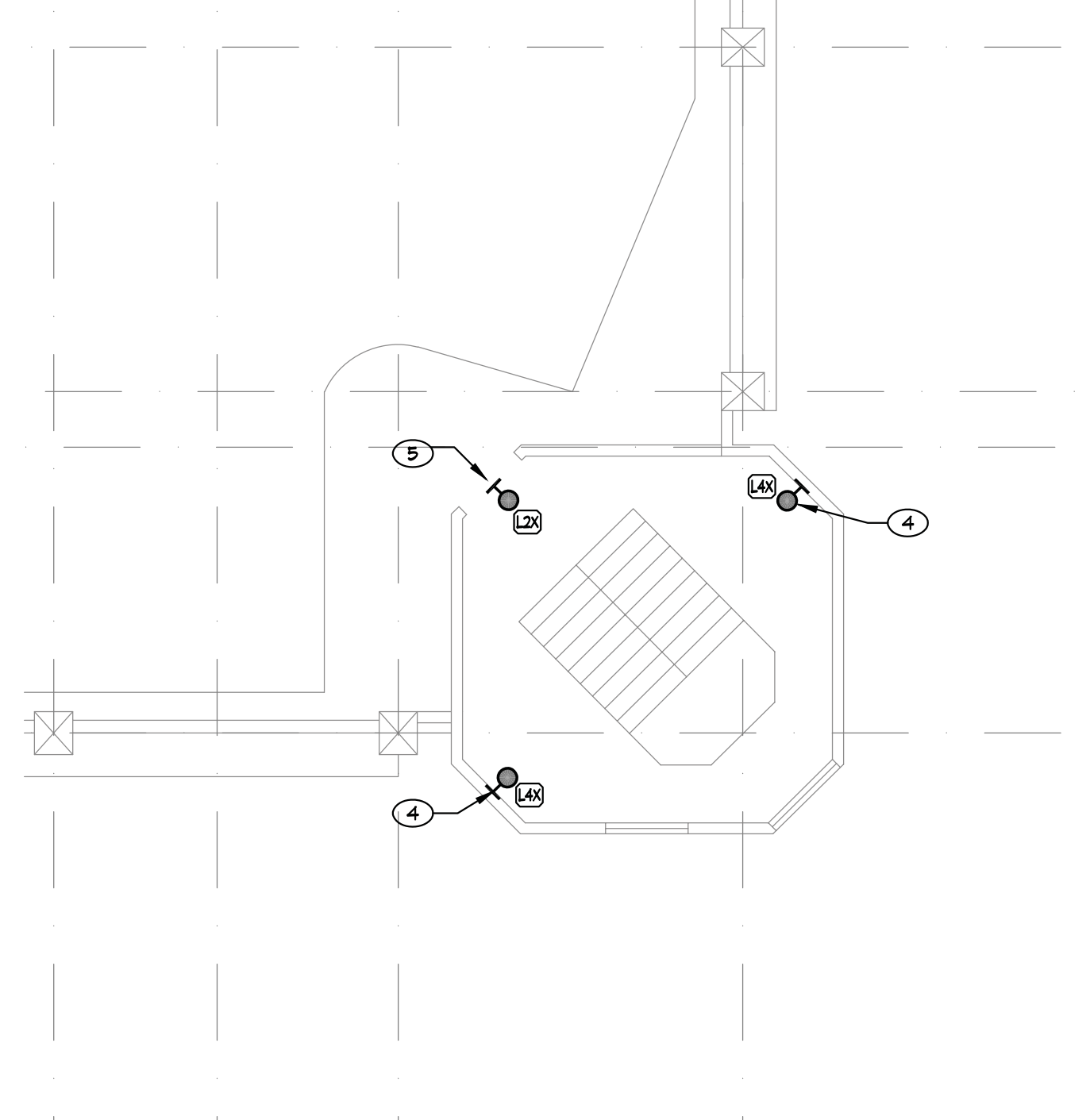
B
E1.4
SCALE: 1/8" = 1'-0"



C
E1.4
SCALE: 1/8" = 1'-0"



D
E1.4
SCALE: 1/8" = 1'-0"



E
E1.4
SCALE: 1/8" = 1'-0"

Victorian Square Theater Garage
Lighting Project

Sparks, Nevada 89431

REVISIONS

SHEET TITLE

ELECTRICAL PLAN ROOF LEVEL

DRAWN:	MJS
CHECKED:	JEG
DATE:	02/15/18
JOB NUMBER:	17196
PROJECT NAME:	SP

E1.4