

ELECTRICAL LEGEND & ABBREVS.

SYMBOL DESCRIPTION

SWITCHES - WALL-MOUNTED + 44" AFF FOR ADA OR AS NOTED.

Ⓢ SINGLE POLE SWITCH - WALL MOUNTED

SUBSCRIPT SYMBOLS INDICATE THE FOLLOWING:

Ⓢ₃ 3 THREE WAY SWITCH

Ⓢ_D D DIMMER

Ⓢ_M M MOTOR STARTING SWITCH

Ⓢ_{a,b,c} a, b, c INDICATES THE NUMBER OF SWITCHES BEHIND A COMMON PLATE AND THE CIRCUITS CONTROLLED

Ⓢ_{OS} OS WALL SWITCH OCCUPANCY SENSOR

Ⓢ_{OS-a,b} OS WALL SWITCH OCCUPANCY SENSOR DUAL RELAY

Ⓢ_{TMR} MANUAL WALL SWITCH TIMER - 0-60 MINUTES BROAN 59V

Ⓢ_{PL} MANUAL WALL SWITCH WITH PILOT LIGHT INDICATING WHEN SWITCH IS ON

Ⓢ_X MANUAL KEY SWITCH

RECEPTACLES - WALL MOUNTED +18" AFF OR AS NOTED ON PLAN.

WP INDICATES WEATHERPROOF
CT INDICATES THE RECEPTACLE IS MOUNTED IN WALL ABOVE A COUNTERTOP, IN HORIZONTAL POSITION.
UC INDICATES THE RECEPTACLE IS MOUNTED UNDER A COUNTERTOP OR INSIDE A CABINET.

Ⓢ DUPLEX OUTLET

Ⓢ DUPLEX OUTLET

Ⓢ GFCI DUPLEX OUTLET

Ⓢ QUADPLEX OUTLET

Ⓢ DUPLEX OUTLET WIRED FOR HALF HOT

Ⓢ SINGLE OUTLET

Ⓢ FLOOR MOUNTED DUPLEX OUTLET

EQUIPMENT AND MOTOR CONTROL

Ⓢ DISCONNECT (SAFETY) SWITCH - FUSED AND HP RATED ACCORDING TO THE DEVICE NAMEPLATE.

Ⓢ MOTOR STARTER - NUMBER INDICATES NEMA SIZE

Ⓢ COMBINATION FUSED DISCONNECT AND MOTOR STARTER - NUMBER INDICATES NEMA SIZE

COMMUNICATION

GENERAL: VERIFY REQUIREMENTS WITH OWNER DURING BID PHASE.

Ⓢ TELEPHONE OUTLET. PROVIDE CONDUIT WITH PULL ROPE TO TELEPHONE BACKBOARD.

Ⓢ DATA OUTLET, CAT 6 JACK. PROVIDE CONDUIT WITH PULL ROPE TO DATA SOURCE.

Ⓢ TELEPHONE AND DATA OUTLETS. PROVIDE CONDUIT WITH PULL ROPE TO TELEPHONE BACKBOARD. PROVIDE CONDUIT WITH PULL ROPE TO DATA SOURCE.

Ⓢ TELEVISION CABLE OUTLET. PROVIDE CONDUIT WITH PULL ROPE TO TELEVISION SOURCE.

Ⓢ RECESSED TV OUTLET (LOW VOLTAGE) AND RECEPTABLE OUTLET.

Ⓢ RECESSED TV OUTLET AND DATA OUTLET (LOW VOLTAGE) AND RECEPTABLE OUTLET.

GENERAL ABBREVIATIONS

ABV ABOVE
AFF ABOVE FINISHED FLOOR
CEC CALIFORNIA ELECTRICAL CODE
CECOM CALIFORNIA ENERGY COMMISSION
EC ELECTRICAL CONTRACTOR
GFCI GROUND FAULT CIRCUIT INTERRUPTER
MC MECHANICAL CONTRACTOR
MH MOUNTING HEIGHT
MTG MOUNTING
NL NIGHT LIGHT - LUMINAIRE WHICH IS WIRED TO BE ALWAYS ON DURING OCCUPIED HOURS.
PC PLUMBING CONTRACTOR
SLD SINGLE LINE DIAGRAM
TYP TYPICAL
UON UNLESS OTHERWISE NOTED
Ⓢ JUNCTION BOX

LOAD CALCULATION

AMPHITHEATER BUILDING

AMPHITHEATER BUILDING AREA
PUBLIC RESTROOM BLDG 1,230 SF
CHORUS DRESSING 600 SF
BACK OF HOUSE 893 SF
STORAGE 1,102 SF
TOTAL AREA: 3,825 SF

LIGHTING

INTERIOR LIGHTING 3,825 SF @ 2 VA/SF = 7,650 VA
EXTERIOR LIGHTING (ON BUILDING AND UNDER WALKWAY ROOFS) 50 @ 50 VA = 2,500 VA
TOTAL @ 125% FOR CONTINUOUS LOAD = 12,688 VA

RECEPTACLES (DEMANDABLE)

GENERAL PURPOSE 40 @ 180 VA = 7,200 VA
FIRST 10 KVA @ 100% = 7,200 VA
REMAINDER @ 50% = 0 VA
SUBTOTAL = 7,200 VA

EQUIPMENT AND APPLIANCES

SECURITY SYSTEM 500 VA
FIRE ALARM PANEL 400 VA
TELEPHONE, CABLE EQUIPMENT 1,000 VA
IRRIGATION CONTROLLER 400 VA
ELECTRIC WATER HEATERS EWH-1,2,3,4 4 @ 7,200 = 28,800 VA
TRUSS WINCHES 4 @ 2,000 = 8,000 VA
SUBTOTAL @ 100% DEMAND = 38,600 VA

HVAC EQUIPMENT

SYSTEM A/C-1 3,772 VA
SYSTEM A/C-2 3,772 VA
SYSTEM A/C-3 3,772 VA
SYSTEM A/C-4 3,979 VA
EF-1 200 VA
EF-2 200 VA
EF-3 200 VA
EF-4 200 VA
EF-5 200 VA
EF-6 200 VA
SUBTOTAL @ 100% DEMAND = 16,495 VA

AMPHITHEATER LIGHTING AND SOUND EQUIPMENT

STAGE RIGHT 200 A 3 PH CAM LOCK 160 X 360 = 57,600 VA
STAGE LEFT 200 A 3 PH CAM LOCK 160 X 360 = 57,600 VA
AMP RACK IN A/V ROOM 100 A 3 PH 80 X 360 = 28,800 VA
120 V 20 A RECEPT. OUTLET ON DEDICATED CIRCUIT 30 @ 1200 VA = 36,000 VA
STAGE LIGHTING - TYPE A1 24 @ 111 W = 2,664 VA
STAGE LIGHTING - TYPE A2 26 @ 100 W = 2,600 VA
AUDIENCE FLOODS - TYPE A3 7 @ 363 W = 2,541 VA
SEATING AREA - TYPE S1 72 @ 6 W = 432 VA
SEATING AREA - TYPE S2 47 @ 6 W = 282 VA
SEATING AREA - TYPE S3 62 @ 6 W = 372 VA
SEATING AREA - TYPE S4 10 @ 15 W = 150 VA
SEATING AREA - TYPE S5 9 @ 19 W = 171 VA
SEATING AREA - TYPE S6 16 @ 7 W = 112 VA
SUBTOTAL @ 100% DEMAND= 184,324 VA

LANDSCAPE LIGHTING AND POWER

LANDSCAPE LIGHTING LOAD* 5.5 KVA @ 125% = 6,875 VA
LANDSCAPE POWER LOAD (TEMPORARY EVENT POWER)* = 57,600 VA
* FROM LANDSCAPE ARCHITECT
SUBTOTAL @ 100% DEMAND = 64,475 VA
TOTAL = 323,782 VA

TOTAL AMPS @ 120/208 3PH 4W = 899 A
THEREFORE PROVIDE A 1,000 A SERVICE.

GENERAL ELECTRICAL NOTES

1. INSTALLATION OF ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES:

2010 CALIFORNIA ADMINISTRATIVE CODE
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS

2010 CALIFORNIA ELECTRICAL CODE
PART 3, TITLE 24, CCR
(BASED ON THE 2008 NATIONAL ELECTRIC CODE (NEC))

2010 CALIFORNIA FIRE CODE
PART 9, TITLE 24, CCR
(BASED ON THE 2009 INTERNATIONAL FIRE CODE (IFC))

2010 CALIFORNIA GREEN BUILDING CODE (CALGREEN)
PART 11, TITLE 24, CCR

AND ALL CODES AND ORDINANCES, ETC., OF THE CITY OF RANCHO MIRAGE, CALIFORNIA, AND OF ALL AUTHORITIES HAVING JURISDICTION OVER THE WORK.

NOTHING ON THE DRAWINGS, NOTES, OR SPECIFICATIONS IS TO BE INTERPRETED AS PERMITTING WORK NOT CONFORMING WITH ANY CODE, REGULATION, OR ORDINANCE.

GENERAL:

1. THESE GENERAL ELECTRICAL NOTES REFLECT THE REQUIREMENT OF THE ELECTRICAL CONTRACTOR TO PROVIDE A COMPLETE AND OPERABLE ELECTRICAL SYSTEM.
"PROVIDE" MEANS "FURNISH AND INSTALL." "EC" MEANS ELECTRICAL CONTRACTOR.

2. IT IS THE RESPONSIBILITY OF THE EC TO PROVIDE ALL MATERIALS, CONDUIT, WIRING, CONTROL DEVICES AND EQUIPMENT REQUIRED TO ENSURE ALL SYSTEMS ARE COMPLETE AND OPERABLE.

3. THE DIAGRAMS AND SYMBOLS SHOWN ON THESE DRAWINGS REFLECT THE INTENT OF THE ELECTRICAL SYSTEMS AND AS SUCH ARE SHOWN DIAGRAMATICALLY.

4. THE EC SHALL REVIEW THE COMPLETE SET OF CONSTRUCTION DOCUMENTS AND VISIT THE PROJECT SITE EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS.

5. THE EC SHALL NOTIFY THE PROJECT MANAGER AND THE ARCHITECT SHOULD A CONFLICT EXIST BETWEEN THESE DRAWINGS AND FIELD CONDITIONS.

6. COORDINATE ELECTRICAL WORK WITH WORK OF ALL OTHER TRADES.

7. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.

8. LOCATE ALL ELECTRICAL DEVICES REQUIRING ACCESS OR ADJUSTMENT ABOVE AREAS WITH ACCESSIBLE CEILINGS, OR PROVIDE ACCESS DOORS OF REQUIRED SIZE AND FIRE RATING, ONLY WITH PRIOR APPROVAL OF PROJECT MANGER AND ARCHITECT.

9. UPON COMPLETION OF THE WORK, INSTRUCT THE OWNER IN PROPER OPERATION OF THE ELECTRICAL SYSTEMS AND PROVIDE TWO SETS OF OPERATION AND MAINTENANCE MANUAL FOR ALL EQUIPMENT AND DEVICES.

10. WARRANTY: THE COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE BY THE OWNER. ANY WORK, MATERIAL, OR EQUIPMENT FOUND DEFECTIVE DURING THIS PERIOD SHALL BE CORRECTED IMMEDIATELY, UPON WRITTEN NOTIFICATION, AT THE CONTRACTOR'S EXPENSE.

11. SUBMITTALS: AT LEAST TWO WEEKS PRIOR TO ORDERING, FABRICATION, OR INSTALLATION OF ANY WORK, SUBMIT TO ENGINEER PDF FILES OF PRODUCT DATA FOR ALL EQUIPMENT, DEVICES, AND MATERIAL TO BE USED. NOTE PLAN TAG, SPECIFIC MODEL, SIZES, OPTIONS, ACCESSORIES, ETC. ON ALL PRODUCT DATA SHEETS. UNMARKED SHEETS WILL BE RETURNED FOR RESUBMITTAL.

17. VISIT EXISTING SITE BEFORE SUBMITTING BID. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS, ACTUAL PHYSICAL LOCATIONS, AND WORK TO BE PERFORMED.

PLANS PREPARED BY: www.equityspec-engineers.com	DATE:
EquitySpec MEP Consulting Engineers	ESCE JOB NO.: 1302B
42600 Caroline Court, Suite 102 Palm Desert, CA 92211	CAD FILE: WPA-MPE
V: 760 834-1537 F: 760 832-7333	DRN. BY: ESCE CHKD BY: DAC
E: dcelmer@equityspec-engineers.com	SCALE: AS SHOWN

SHEET INDEX

SHEET NO.	SHEET TITLE
E1.0	TITLE SHEET - NOTES, LEGEND, LOAD CALCULATION
E1.1	SPECIFICATIONS (ALSO SEE SPECIFICATIONS BOOK)
E1.2	FIXTURE AND DEVICE SCHEDULES
E2.0	BUILDING AND STAGE LIGHTING PLAN
E2.1	BUILDING AND STAGE POWER AND COMMUNICATION PLAN
E2.2	AMPHITHEATER SEATING AREA ELECTRICAL PLAN
E3.0	SLD AND SERVICE
E3.1	PANEL SCHEDULES
E3.2	DETAILS AND DIAGRAMS
E3.3	DETAILS AND DIAGRAMS

MCA
McAuliffe & Company, Inc. ARCHITECTS

42600 Caroline Court, Suite 102
Palm Desert, California 92211

T: 760.773.0709 F: 760.773.0967
mail@mcainc.com

CONSULTANT SEAL:



INSTRUMENTS OF SERVICE

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DRAWING DATE: **09-01-2014**

REVISIONS:
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ISSUE DATES:	
PLANNING SUBMITTAL SET	DRAWN BY:
<input type="checkbox"/> DESIGN DEVELOPMENT SET	<input type="checkbox"/>
PLANCHICK	CHECKED BY:
<input type="checkbox"/>	<input type="checkbox"/>
PERMIT SET	
<input type="checkbox"/>	
BID SET	McA PROJECT NO:
<input type="checkbox"/>	13-007
CONSTRUCTION SET	
<input type="checkbox"/>	

Rancho Mirage Community Park Expansion & Amphitheater Project

CP 12-284
71-560 San Jacinto Dr
Rancho Mirage, CA 92270
for

The City of
Rancho Mirage

69-825 Highway III
Rancho Mirage, CA 92270

760.324.4511

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
E1.0

MATERIAL AND DEVICE SPECIFICATIONS

MATERIALS:

1. ELECTRICAL MATERIALS AND PARTS SHALL BE PROVIDED BY THE SAME MANUFACTURER FOR EACH CLASS OR GROUP OR TYPE OF MATERIALS.
2. ALL MATERIALS, PARTS, AND EQUIPMENT SHALL BE NEW AND UL LISTED UNLESS OTHERWISE NOTED.

SERVICE EQUIPMENT:

1. SERVICE ENTRANCE EQUIPMENT:

INDOOR SWITCHBOARD:

SWITCHBOARD AND DISTRIBUTION PANEL SHALL CONSIST OF ONE OR MORE VERTICAL SECTIONS BOLTED TOGETHER TO FORM ONE COMPLETE FLOOR STANDING SHEET METAL ENCLOSURE, CONFORMING TO UL 891 AND NEMA PB-2 STANDARDS. ENCLOSURE: DESIGNED IN ACCORDANCE WITH UL STANDARDS FOR DEAD-FRONT, SWITCHBOARDS, NEMA 1 FOR INDOOR APPLICATION, ANSI 61 LIGHT GREY PAINT. INCOMING SERVICE: SEE SINGLE LINE DIAGRAM. AMPERES: SEE SINGLE LINE DIAGRAM. INTERRUPTING RATING: SEE SINGLE LINE DIAGRAM. BUSSING: HORIZONTAL AND VERTICAL BUS SHALL BE FULL LENGTH. PROVIDE FULL CAPACITY NEUTRAL BUS IN EACH SECTION. MAIN HORIZONTAL BUS SHALL BE FULL CAPACITY IN ALL SECTIONS. VERTICAL BUS MAY BE TAPERED TO NOT LESS THAN 1/3 OF THE CAPACITY OF THE HORIZONTAL BUS, AND IN NO CASE SHALL THE VERTICAL BUS BE LESS CAPACITY THAN THE SUM OF THE FRAME SIZE AMPACITIES OF ALL OVERCURRENT PROTECTIVE DEVICES MOUNTED IN THE RESPECTIVE SECTIONS. SERVICE ENTRANCE SECTION SHALL BE PROVIDED WITH UNDERGROUND PULL SECTIONS AND METERING COMPARTMENT THAT MEET THE REQUIREMENTS OF: SCE.

3. BEFORE ORDERING, CONTACT UTILITY AND VERIFY THAT THE INSTALLED METER HEIGHT(S) WILL BE ACCEPTABLE TO THE UTILITY.

4. MAIN BREAKER: THERMAL MAGNETIC.
5. FEEDER AND BRANCH BREAKERS: THERMAL MAGNETIC.
6. ALL CONNECTIONS SHALL BE TORQUED BEFORE GROUND TESTS ARE PERFORMED.

MANUFACTURER: EATON.
CONTACT DESERT ELECTRIC SUPPLY - TIM SCHULTZ 760 568-5991.

DISTRIBUTION EQUIPMENT:

1. PANEL BOARDS WITH MOLDED CASE CIRCUIT BREAKERS SHALL BE PROVIDED WITH HINGED LOCKABLE DOORS WITH KEYPED ALIKE LOCKS, INDEX CARD HOLDERS, AND PERMANENT DEVICE NUMBERS, NEUTRAL BAR, GROUND BAR, NEMA P1, UL 67, MFRS: EATON/C-H.

3. REFER TO PANEL SCHEDULES FOR PANEL MOUNTING REQUIREMENTS, VOLTAGE, AND INDIVIDUAL DEVICE REQUIREMENTS.

4. CIRCUIT BREAKERS SHALL BE PLUG-IN TYPE, WITH A MINIMUM AIC RATING AS NOTED ON PANEL SCHEDULES. LUGS SHALL BE UL LISTED FOR USE WITH 75 DEGREE C CONDUCTORS. SIEMENS.

5. SAFETY SWITCHES SHALL BE 250 V AC AS APPLICABLE, NEMA TYPE HD QUICK-MAKE, QUICK-BREAK, HP RATED, FUSIBLE, CLASS R IN NEMA TYPE I (INDOOR) OR NEMA 3R (OUTDOOR) ENCLOSURE, LOCKABLE IN THE OPEN AND CLOSED POSITIONS WITH NUMBER OR POLES AND AMPERAGE AS INDICATED ON THE DRAWINGS.

6. SAFETY SWITCHES SHALL BE MOUNTED ON CHANNELSTRUT SUPPORTS AND CONNECTED TO EQUIPMENT WITH LIQUID TIGHT FLEXIBLE CONDUIT.

WHERE POSSIBLE, SAFETY SWITCHES CAN BE MOUNTED ON MECHANICAL EQUIPMENT ENCLOSURES OR HOUSING ONLY IN LOCATIONS DESIGNATED IN THE EQUIPMENT MANUFACTURERS PRODUCT DATA. DO NOT INSTALL SAFETY SWITCHES ON ANY PANELS OR DOORS DESIGNED TO BE REMOVED OR OPENED FOR EQUIPMENT MAINTENANCE OR SERVICE.

BRANCH CIRCUITS:

1. BRANCH CIRCUITS WIRING OR CONDUCTOR COUNT HASH MARKS MAY NOT BE SHOWN ON THE DRAWINGS. THE EC SHALL PROVIDE BRANCH CONDUITS AND WIRING TO ALL CIRCUITS INDICATED AND AS REQUIRED FOR A COMPLETE AND OPERABLE BRANCH CIRCUIT DISTRIBUTION SYSTEM AS PER THE CEC.

2. MINIMUM CONDUCTOR SIZE SHALL BE #12 COPPER, UNLESS OTHERWISE NOTED. MINIMUM CONDUIT SIZE SHALL BE 3/4".

3. ALL CIRCUITS SHALL BE PROVIDED WITH AN INSULATED GROUND CONDUCTOR SIZED IN ACCORDANCE WITH CEC TABLE 250-122. RACEWAY SHALL NOT BE USED AS A GROUND.

4. ON THE COVER PLATE OF EACH JUNCTION BOX, LEGIBLY LABEL WITH PERMANENT MARKER THE CIRCUITS PASSING THROUGH OR TERMINATING AT THE BOX.

CONDUIT:

1. Conduit material:

1. EMT: Electrical metallic tubing; ANSI C80.3, zinc-coated steel, with compression fittings where exposed and setscrew fittings where concealed.
2. FMC: Flexible metal conduit; zinc-coated steel.
3. IMC: Intermediate metal conduit; ANSI C80.6, zinc-coated steel, with threaded fittings.
4. LFMC: Liquid tight flexible metal conduit; zinc-coated steel with sunlight-resistant and mineral-oil-resistant plastic jacket.
5. RMC: Rigid metal conduit; galvanized rigid steel; ANSI C80.1.
6. RNC: Rigid nonmetallic conduit; NEMA TC 2, Schedule 40 PVC, with NEMA TC 3 fittings.
7. Raceway fittings: Specifically designed for raceway type with which used.
8. MC Cable with compatible fittings per CEC.

2. Outdoor Installations:

1. Exposed in mechanical equipment wells on roofs: RMC with compression fittings.
2. Concealed: IMC
3. Underground, single run: RNC.
4. Underground, grouped: RNC.
5. Connection to rotating, vibrating, or resiliently-supported equipment: LFMC.
6. Boxes and enclosures: NEMA 250, Type 3R or Type 4, N-1, unless otherwise indicated.

3. Indoor Installations:

1. Exposed: EMT with compression fittings.
2. Concealed in walls or above ceilings: EMT OR FMC.
Note: where permitted by code, MC cable may be used for lighting branch circuits above suspended ceilings and in stud partitions for whips to individual devices.
3. In concrete slab: RNC, PVC.
4. Below slab on grade or in crawl space: RNC, PVC.
5. Connection to rotating, vibrating, or resiliently-supported equipment: FMC; except in wet or damp locations: LFMC.

4. Exposed conduits that penetrate walls or ceilings shall be made with LB conduit bodies for EMT or rigid conduits at penetration points. Conduit sweep penetrations are not acceptable.

JUNCTION AND PULL BOXES:

1. BOXES OR SPLICE BOX ENCLOSURES SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH CEC ARTICLE 370.

2. BOXES LOCATED OUTDOORS, IN WET OR DAMP LOCATIONS, SHALL BE GASKETED WEATHERPROOF TYPE.

3. BOXES LOCATED INDOORS SHALL BE ONE-PIECE ZINC-PLATED STEEL, KNOCKOUT TYPE WITH REMOVEABLE MACHINE SCREW COVERS.

OUTLET BOXES:

1. VERIFY THE MOUNTING HEIGHT OF ALL OUTLET BOXES PRIOR TO INSTALLATION. COORDINATE WITH OTHER TRADES.

2. OUTLET BOXES FOR WALL SCONCE LIGHT FIXTURES, RECEPTACLES, AND SWITCH DEVICES SHALL BE INSTALLED TO MEET ADA REQUIREMENTS.

3. OUTLET BOXES SHALL BE ONE-PIECE ZINC PLATED STEEL, KNOCKOUT TYPE, NOT LESS THAN 4 INCHES SQUARE AND 1-1/2" DEEP.

4. NO BACK-TO-BACK OUTLETS ARE PERMITTED, OUTLETS SHALL BE OFFSET 12" HORIZONTALLY.

CONDUCTORS:

1. ALL CONDUCTORS SHALL BE COPPER WITH AMPACITY RATINGS IN ACCORDANCE WITH CEC ARTICLE 310 AND TABLE 310.

2. ALUMINUM CONDUCTORS ARE NOT APPROVED FOR THIS PROJECT, EXCEPT AS NOTED.

3. CONDUCTORS SHALL BE CODE GRADE THHN/THWN (DRY/WET) 600 VOLT 75 DEGREE C, COPPER WITH MARKING 24°C. INDICATING MANUFACTURER, WIRE TYPE, AMPERAGE, AND SIZE.

4. THE MINIMUM WIRE SIZE SHALL BE #12 AWG SOLID COPPER. WIRE SIZE #8 AND LARGER SHALL BE COPPER STRANDED.

5. SPLICES SHALL BE MADE WITH SPRING WIRE CONNECTORS.

6. BRANCH CIRCUIT AND FIXTURE WIRING, SPLICES AND TAPS FOR CONDUCTORS #10 AND SMALLER SHALL BE MADE WITH UL LISTED 600 VOLT CONNECTORS. MFRS: IDEAL, SCOTCHLOK.

7. CONDUCTORS IN PANELS, TERMINAL CABINETS, PULL BOXES, AND WIRING GUTTERS SHALL BE NEATLY GROUPED AND TAPED OR TIED TOGETHER. MFRS: 3M SCOTCH #33 PLASTIC ELECTRICAL TAPE, T&B TY-RAP CABLE TIES.

8. REMOVE ALL DEBRIS AND MOISTURE FROM CONDUITS, BOXES, AND CABINETS BEFORE THE INSTALLATION OF CONDUCTORS.

9. WHEN REQUIRED, WIRE PULLING COMPOUNDS BY 3M, IDEAL, POLYWATER SUITABLE FOR THE CONDUCTOR TYPE AND USE, ARE APPROVED. OIL, GREASE, OR SIMILAR SUBSTANCES ARE NOT APPROVED AS PULLING COMPOUNDS.

10. ALL CONDUCTORS SHALL BE PERMANENTLY TAGGED TO INDICATE SYSTEM OR CIRCUIT NUMBER.

11. LOW VOLTAGE CONDUCTORS FOR HVAC AND OTHER SYSTEMS REQUIRING LOW VOLTAGE CONTROL SIGNALS SHALL BE SIZED IN ACCORDANCE WITH SPECIFIC SYSTEM REQUIREMENTS.

12. CONDUCTORS FOR SPECIAL SYSTEMS (DATA, FIRE ALARM, SIGNAL, TELEPHONE, ETC.) SHALL MEET THE SYSTEM SPECIFICATIONS AND CODE REQUIREMENTS GOVERNING THE PARTICULAR SYSTEM INSTALLATION.

DEVICES:

1. SNAP SWITCHES SHALL BE SPECIFICATION GRADE, TOTALLY ENCLOSED TOGGLE TYPE, RATED AT 20 AMPS WITH 120 VAC RATING FOR FULL CAPACITY. MFRS: PASS & SEYMOUR, HUBBELL, LEVITON.

2. RECEPTACLES SHALL BE SPECIFICATION GRADE, GROUNDED TYPE, TOTALLY ENCLOSED, RATED AT 20 AMPS 120 VAC. MFRS: PASS & SEYMOUR, HUBBELL, LEVITON.

3. DEVICE AND DEVICE PLATE COLORS SHALL BE COORDINATED WITH THE PROJECT MANAGER AND ARCHITECT PRIOR TO INSTALLATION.

4. GFCI RECEPTACLES SHALL BE PROVIDED AT LOCATIONS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH CEC ARTICLE 210.

5. THE STYLE OF SWITCHES SHALL BE: SHALL BE A "DECORATOR STYLE" AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR HUBBELL.

DEVICE PLATES:

1. DEVICE PLATES SHALL BE STAINLESS STEEL.

LIGHTING:

1. THE LIGHTING FIXTURES ARE SPECIFIED WITH A GENERIC MOUNTING FORMAT. THE EC IS RESPONSIBLE TO VERIFY AND PROVIDE ALL HANGERS, CLIPS, AND NECESSARY HARDWARE TO INSTALL FIXTURES AT THE LOCATION INDICATED ON THE ARCHITECTURAL AND ELECTRICAL DRAWINGS.

2. VERIFY THE FIXTURE VOLTAGE PRIOR TO SUBMITTING SHOP DRAWINGS.

3. VERIFY THE COLOR TEMPERATURE OF ALL FLUORESCENT LAMPS PRIOR TO ORDERING AND INSTALLATION OF LAMPS. SEE FIXTURE SCHEDULE.

4. PROVIDE PLASTER FRAMES FOR ALL FLUORESCENT FIXTURES MOUNTED IN DRYWALL, PLASTER, OR STUCCO CEILINGS OR SOFFITS.

5. ALL BALLASTS SHALL BE ELECTRONIC HIGH POWER FACTOR RATED. BALLAST HARMONIC DISTORTION SHALL NOT EXCEED VALUES LISTED IN FIXTURE SCHEDULE.

6. VERIFY THE MOUNTING LOCATIONS FOR ALL EXIT SIGNS PRIOR TO INSTALLATION WITH THE PROJECT MANAGER AND ARCHITECT.

7. ACCEPTABLE LAMP MANUFACTURERS: SEE FIXTURE SCHEDULE.

8. ALL LIGHTING AND SWITCHING SHALL BE IN COMPLIANCE WITH 2008 TITLE 24 ENERGY CODE.

9. ALL EMERGENCY LIGHTING AND EXIT LIGHTING SHALL BE CONNECTED TO THE UNSWITCHED SIDE OF THE LOCAL LIGHTING CIRCUIT OR SHALL BE CIRCUITED WITH AN ADDITIONAL UNSWITCHED HOT CONDUCTOR.

10. ALL LIGHTING CIRCUITS SHALL HAVE A SEPARATE INSULATED GROUNDING CONDUCTOR INSTALLED WITHIN EACH CIRCUIT.

11. OCCUPANCY SENSORS: SEE OCCUPANCY SENSOR SCHEDULE.

12. WALL MOUNTED DIMMING CONTROLS: SEE FIXTURE SCHEDULE.

LIGHTING CONTROL PANEL LCP-1:

MFR AND MODEL: LC & D GR 1408LT
ENCLOSURE: SURFACE MOUNT, NEMA 1, 8.4" W X 13.4" H X 3.125" D.
HINGED LOCKING DOOR.

RELAYS: 4.

ACCESSORIES: LC & D PHOTOSENSOR GR2400 PCC1 2WO.

EQUIPMENT IDENTIFICATION:

1. THE FOLLOWING EQUIPMENT AND DEVICES SHALL BE EQUIPPED WITH NAMEPLATES: MAIN SERVICE AND MAIN DISTRIBUTION PANEL FEEDER OVERCURRENT DEVICES, DISTRIBUTION PANELS, CIRCUIT EQUIPMENT IN SEPARATE ENCLOSURES.

2. EQUIPMENT AND DEVICES SHALL BE PROPERLY IDENTIFIED AS DESIGNATED ON THE ELECTRICAL DRAWINGS. NAMEPLATES SHALL INCLUDE THE PANEL DESIGNATION, VOLTAGE AND PHASE OF THE SUPPLY.

3. NAMEPLATES SHALL BE ENGRAVED 3 PLY WITH BLACK FACE AND WHITE CORE, PERMANENTLY ATTACHED TO THE EQUIPMENT WITH STAINLESS STEEL LOCKING SCREWS.

MECHANICAL AND PLUMBING SYSTEMS:

1. VERIFY EXACT LOCATIONS AND ORIENTATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS. FIELD VERIFY CONDITIONS WITH MC PRIOR TO ROUGH IN.

2. VERIFY EXACT LOCATIONS AND ORIENTATION OF ALL PLUMBING EQUIPMENT WITH PLUMBING DRAWINGS. FIELD VERIFY CONDITIONS WITH PC PRIOR TO ROUGH IN.

3. EC SHALL CHECK THE ROTATION OF ALL 3 PHASE MOTORS AND CORRECT THE ROTATION DIRECTION IF NECESSARY.

4. EC CONTRACTOR SHALL PROVIDE FUSES SIZED PER THE MANUFACTURER'S INSTRUCTIONS.

5. ALL TEMPERATURE CONTROL AND INTERLOCK CONDUIT AND WIRING SHALL BE BY THE EC UNLESS SPECIFICALLY NOTED OTHERWISE. SEE MECHANICAL AND PLUMBING DRAWINGS FOR INFORMATION.

COMMUNICATION SYSTEMS - TELEPHONE, DATA, CABLE TV-

1. IF MORE THAN ONE SYSTEM WILL BE TERMINATING AT A BACKBOARD SPACE THE CONTRACTOR SHALL TERMINATE EACH SYSTEM IN ITS OWN SECTION OF THE BACKBOARD.
2. EQUIPMENT BACKBOARDS SHALL BE PROVIDED WITH A SYSTEM GROUND SIZED IN ACCORDANCE WITH THE SYSTEM REQUIREMENTS AND AS PER DETAIL.

3. EQUIPMENT BACKBOARDS SHALL BE INSTALLED ON A 4" HIGH BY MINIMUM 6" DEEP CONCRETE HOUSEKEEPING PAD EXTENDING THE WIDTH OF THE BACKBOARD.

4. CABLE TV: TELEVISION OUTLETS SHALL BE PROVIDED FOR TERMINATION OF A COAXIAL CABLE. TELEVISION OUTLETS SHALL BE INSTALLED WITHIN THE SAME STUD SPACE AS THE RECEPTACLE POWER OUTLET. PROVIDE A HOMERUN COAXIAL CABLE FROM EACH TELEVISION OUTLET LOCATION TO THE COMMUNICATION BACKBOARD. SPLICES AND SPLITTERS ARE NOT ALLOWED.

5. TELEPHONE: TELEPHONE OUTLETS SHALL BE PROVIDED FOR TERMINATION OF A TELEPHONE CABLE. PROVIDE A TELEPHONE CABLE FROM EACH TELEPHONE OUTLET LOCATION TO THE COMMUNICATION BACKBOARD. SPLICES ARE NOT ALLOWED. VERIFY THE MOUNTING HEIGHT OF ALL TELEPHONE OUTLETS PRIOR TO INSTALLATION. PROVIDE COVER PLATES SUITABLE TO ACCEPT WALL MOUNTED TELEPHONES WHERE APPLICABLE.

6. ALL TELEPHONE AND DATA OUTLETS SHALL BE PROVIDED WITH DUPLEX DEVICES TO ACCOMMODATE A TELEPHONE AND A DATA DEVICE FOR EACH SYSTEM AT EACH LOCATION. DEVICES SHALL BE DESIGNED TO ACCEPT A CATEGORY CABLE. DEVICES AND PLATES SHALL MATCH THE STYLE AND COLOR OF THE RECEPTACLES.

ISOLATION TRANSFORMER T-1:

GENERAL PURPOSE VENTED DRY TYPE TRANSFORMER.
3 PHASE, 45 KVA, 208 PRIMARY VOLTS, 208Y/120 SECONDARY VOLTS.
115 DEGREES C TEMPERATURE RISE, ALUMINUM WINDING MATERIAL, NEMA 2 ENCLOSURE.

K-FACTOR: 1

TAPS: 2+/-2.5%, 4+/-2.5%.

NEMA ST20 SOUND LEVEL: 45 DBA.

NEMA TP-1 ENERGY EFFICIENT.

SPECIAL REQUIREMENTS: ELECTROSTATIC SHIELD.

AVERAGE IMPEDANCE: 5.19%

APPROX. WEIGHT: 396 LBS.

APPROX. DIMENSIONS: 23" WIDE X 16-1/2" DEEP X 30" HIGH.

MFR AND MODEL: EATON V23M2F-45E.

FIELD-INSTALLED ACCESSORIES: LUG TERMINATIONS - 200% DOUBLE NEUTRAL LUG PAD. SPECIAL INSTALLATION REQUIREMENTS:

1. MAINTAIN MINIMUM 8" CLEARANCE BETWEEN TRANSFORMER ENCLOSURE AND WALLS.

2. ANCHOR TRANSFORMER BASE TO HOUSEKEEPING PAD WITH FOUR 3/8" EXPANSION ANCHORS WITH 3" MINIMUM EMBEDMENT AND SUPPORT ON FOUR CALDYN #VT-450 VIBRATION ISOLATION PADS.

3. MAKE CONNECTIONS WITH LFNC.

CENTRAL LIGHTING INVERTER I-1:

DESCRIPTION: 2.1 KVA UL 924 INVERTER.
SERVICE: EMERGENCY LIGHTING OF STAGE AND SEATING AREA.

INPUT:

AC INPUT CIRCUIT BREAKER RATING: 25 A.

INPUT VOLTAGE: 120 V.

INPUT FREQUENCY: 60 HZ +/- 3%

OUTPUT:

OUTPUT VOLTAGE: 120 V.

OUTPUT DISTORTION: LESS THAN 5% THD LINEAR LOAD.

LOAD POWER FACTOR RANGE: 0.8 LEAD TO 0.75 LAG.

OVERLOAD: 115% MOMENTARY.

TRANSFER TIME: NO BREAK.

BATTERY:

CHARGER SIZE: 2 A.

SYSTEM DC VOLTAGE: 96 V.

RUNTIME: 90 MINUTES MINIMUM PER UL 924.

APPROX. DIMENSIONS: 32" WIDE X 12" DEEP X 37" HIGH.

APPROX WEIGHT: 480 LBS.

MFR AND MODEL: DUAL-LITE SYNCHRON 2100.

SPECIAL INSTALLATION REQUIREMENTS:

1. ANCHOR CABINET TO WITH FOUR 3/8" EXPANSION ANCHORS WITH 3" MINIMUM EMBEDMENT AND SUPPORT ON FOUR CALDYN #VT-450 VIBRATION ISOLATION PADS.

ASSISTIVE LISTENING SYSTEM:

PROVIDE A COMPLETE SYSTEM INCLUDING DESIGN, INSTALLATION, AND COMMISSIONING AS FOLLOWS:

1. Code: CBC 1104B.2 - The number of personal receivers required shall be 4% of the total number of seats but in no case less than 2.

2. Code: ADAAG 4.33.7 and CBC 1104B.2.2 - Types of Systems - Types of systems include, but are not limited to, audio-induction loops, radio frequency systems, (AM or FM) and Infrared transmission.

3. Code: ADAAG 4.33.6 and CBC 1104B.2.3 - Locations - If the system is limited to specific areas or seats, then such areas or seats served by a listening system shall be located within 50 feet viewing distance of the stage or playing area and shall have a complete view of the stage or playing area.

4. Code: CBC 1104B.2.6 - An adequate number of electrical outlets or other supplementary wiring necessary to support a portable assistive-listening system shall be provided when portable systems are used.



42600 Caroline Court, Suite 102
Palm Desert, California 92211

T: 760.773.0709 F: 760.773.0967
mail@mcauliffe.com



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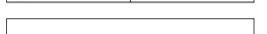


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Rancho Mirage Community Park Expansion & Amphitheater Project

CP 12-284
71-560 San Jacinto Dr
Rancho Mirage, CA
92270

for
**The City of
Rancho Mirage**

69-825 Highway III
Rancho Mirage, CA 92270

760.324.4511

SHEET TITLE:
SPECIFICATIONS
SHEET NUMBER:
E-1.1

OCCUPANCY SENSOR SCHEDULE

TAG	SYMBOL	DESCRIPTION	MFR AND MODEL	LIGHTING CONTROL DIAGRAM	MOUNTING	NOTES
	⊕ OS	DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR	SENSOR SWITCH WSD PDT NU W/PHOTOCELL OPTION		WALL. MH = 44"	① ②
	⊕ OS-a,b	DUAL TECHNOLOGY DUAL RELAY WALL SWITCH OCCUPANCY SENSOR	SENSOR SWITCH WSD PDT 2P NU W/PHOTOCELL OPTION		WALL. MH = 44"	① ②
	⊕ OS-3	DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR	SENSOR SWITCH CMR PDT 10 W/PHOTOCELL OPTION		CEILING MOUNT	① ②
	⊕ OS-4	INFRARED AND ULTRASONIC CEILING MOUNT DUAL RELAY OCCUPANCY SENSOR	COOPER OAC-P-0500-DMV		CEILING MOUNT	① ②
	⊕ OS-5	DUAL TECHNOLOGY DUAL RELAY WALL MOUNT OCCUPANCY SENSOR	SENSOR SWITCH WVR PDT 16 2P		WALL. MH = 9'	① ②

SENSOR NOTES:

- ① ALL OCCUPANCY SENSORS SHALL BE PROGRAMMED, CALIBRATED AND SETTINGS ADJUSTED BY THE E.C.
- ② WIRE ALL LIGHT SWITCHES AND DIMMING CONTROLS DOWNSTREAM FROM OCCUPANCY SENSOR ON THE LOAD SIDE OF THE OCCUPANCY SENSOR OR SWITCH/RELAY PACK.

LIGHTING FIXTURE SCHEDULE

TAG	SYMBOL	DESCRIPTION	FIXTURE MFR AND MODEL	LAMP COLOR	LUMENS CRI	VOLTS 120	LAMP WATTS INPUT POWER	MOUNTING	FIXTURE NOTES
A	○	6" RECESSED DOWNLIGHT IC RATED LED	JUNO IC922LEDG3. WHITE BAFFLE. APPROX. DIMS.: 15-3/4" L X 9-1/8" W X 5-1/8" H	LED	900		14.6	RECESSED	①
AE	○	SAME AS FIXTURE A EXCEPT W/ EMERGENCY BATTERY PACK						RECESSED	
D	≡≡≡	MIRROR LIGHTS AT DRESSING ROOMS (MAKE-UP LIGHTING) LINEAR FLUORESCENT	LIGHT CONCEPTS 11934 DIMENSIONS: 24"L X 4-7/8"H X 4-1/8" EXTENSION.	17W T8	80		34	SURFACE MOUNT WALL	①
F	▬	SURFACE MOUNT SQUARE BASKET WRAPAROUND LINEAR FLUORESCENT	LITHONIA SB 2-17-120-GEB10RS DIMENSIONS: 48"L X 9"W X 3".	2 17W			34	SURFACE MOUNT CEILING	①
G	▬	WALL BRACKET FLUORESCENT UTILITY ROOMS	LITHONIA WC 125MVOLTGEB10IS DIMENSIONS: 24"L X 5"H X 5"D.	1 F25T8			25	SURFACE MOUNT ON WALL 6" ABOVE DOOR	①
H	▬	WALL MOUNTED LINEAR FLUORESCENT. DIRECT-INDIRECT.	PEERLESS BRM9-1-SSH-GEB10 DIMENSIONS: 1-3/4"H X 8-1/4"W X 4 FT OR 8 FT LONG.	32W T8	80		32	SURFACE MOUNT WALL	①
JE	⊕	INTERIOR EMERGENCY LIGHT W/ 90 MINUTE BATTERY PACK AND CHARGER. UL 924. NFPA-101	LITHONIA ELM2 DIMENSIONS: 12"W X 5"H X 3-3/4"D.	5.4W 2 KRYPTON			1.2		
R	▬	EXTERIOR RECESSED WALL MOUNT - LOW LEVEL HEIGHT LED	COOPER INVUE SOS 12-1/2" H X 12-1/2" W X 5-3/4" DEEP.				18	RECESSED IN WALL	②
S	○	EXTERIOR 4" RECESSED DOWNLIGHT LED	JUNO IC1LEDG3. LENSED WET TRIM. APPROX. DIMS.: 12-1/2" L X 6-3/4" W X 6" H	LED	600		13	RECESSED IN CEILING	②
TE	▬	EXTERIOR EGRESS LUMINAIRE W/ 90 MINUTE BATTERY PACK AND CHARGER. UL 924. NFPA-101.	DUAL LITE PG LED DIMENSIONS: 11"W X 7"H X 3"D. INTEGRAL TEST SWITCH.	LED	405		3	SURFACE MOUNT WALL MH=9"	②
E	⊕	EXIT SIGN WITH EMERGENCY BATTERY PACK AND CHARGER UL 924	LITHONIA QUANTUM LQC-EL N MATTE BLACK WITH BRUSHED ALUMINUM FACE.	LED			1.2 W	CEILING MOUNT OR WALL MOUNT AS REQUIRED	②
A1	○	STAGE GENERAL ILLUMINATION DOWNLIGHT. 0-10 V DIMMING. 44 DEG. BEAM ANGLE. 13" APERTURE. DRIVER SPECIFICATIONS: CLASS 1. CLASS A SOUND RATING.	ESCO SXCLR4345 0-10 V DIMMING CONTROL (CONTROLS BY OTHERS). DIMENSIONS: 13" DIA. X 24" H WEIGHT: 30 LBS.	LED	14,580		111	AT STAGE CANOPY CEILING	②
A2	⊕	PAR LIGHT FOR STAGE. RGBW COLOR CHANGING. DMX PROTOCOL. 8" LENS DIAMETER. AIMABLE. INTERCHANGABLE LENSES (MF, WF, NS, VNS).	ALTMAN SPECTRA PAR 100-RGBW IP 65 RATED. WIDE FLOOD LENS (BOD). DATA PORTS: 1 MALE+ 1 FEMALE 5-PIN XLR CABLE. DIMENSIONS: 14"x14"x10" DEEP WEIGHT: 30 LBS.	LED			100 (MAX AT FULL RGBW)	AT STAGE CANOPY CEILING	②
A3	▬	FLOODLIGHT FOR SEATING AREA 0-10 V DIMMING. SHIELDING FOR LIGHT TREPASS AND UPLIGHT CONTROL DRIVER SPECIFICATIONS: CLASS 1. 100,000 HOUR LIFE. POWER FACTOR = 90% MINIMUM. THD = MAX. 20%.	AMERICAN ELECTRIC LIGHTING ACP2LED 910A-YG-LT. 1050 MA DRIVER. 120 VOLT. DIMENSIONS: 27"W X 21"H X 8"D. WEIGHT: 65 LBS. FINISH: BLACK. NEMA LABELED. 0-10 V DIMMING CONTROL (CONTROLS BY OTHERS).	LED	33,060		363	ATTACHED TO STAGE CANOPY STRUCTURE AND FACES AUDIENCE	② ③
S1	▬	RECESSED WALL LIGHT DIMMABLE WITH LINE VOLTAGE REVERSE PHASE CONTROL DIMMER.	TIVOLI VETRINELLA 7170550 CLEAR LENS. FINISH: BLACK POWDER COAT.	LED	143	120 V	6	RECESSED IN WALL	②
S2	▬	RECESSED MARKER LIGHT IN TOP OF WALL. INTEGRAL POWER SUPPLY. DIMMABLE DRIVER.	FC LIGHTING FCD161-120-LED-4K-SS WITH PVC HOUSING. FINISH: STAINLESS STEEL.	LED	120	120 V	6	RECESSED IN TOP OF WALL	②
S3	▬	STEP LIGHT IN STAIR RISER. INTEGRAL POWER SUPPLY. DIMMABLE DRIVER.	FC LIGHTING. FCSL105-120-LED-4K-180-BZ-PCL-SLH. FINISH: BLACK.	LED	180	120 V	6	RECESSED IN STAIR RISER	②
S4	⊕	RECESSED IN-GRADE LIGHT FLOOD DISTRIBUTION. INTEGRAL TRANSFORMER.	COOPER LUMIERE BOCA 696-10LED4041. DIMENSIONS: 6"DIA. LENS X 9" DEEP HOUSING. FINISH: STAINLESS STEEL.	LED	100	120 V	15	RECESSED IN-GRADE	②
S5	○	ROUND CONCRETE BOLLARD. 0-10 V DIMMING. DIRECTIONAL CONTROL. HORIZONTAL LOUVERS TO PROVIDE TOTAL LAMP SOURCE CUTOFF ABOVE 90 DEGREES. SHIELDS TO PROVIDE 270 DEGREE DISTRIBUTION.	KIM VRB SOURCE: IES TYPE 3 LED. DIMENSIONS: 8" DIAMETER X 30-42" OVERALL HEIGHT. CAP FINISH: STEALTH GRAY. SHAFT FINISH: CHARCOAL.	LED	703	120 V	19	ON GRADE	②
S6	▬	BOLLARD WITH ARM	ARES SANDRO 502004 FINISH: ANTHRACITE.	LED	200	120 V	7	ON GRADE	②

FIXTURE NOTES:

- ① LAMPS SHALL HAVE MINIMUM CRI = 80, UNLESS OTHERWISE NOTED.
- ② FIXTURE SHALL BE UL LISTED FOR WET LOCATION.
- ③ ALL FIXTURES SHALL HAVE ADJUSTABLE UPLIGHT AND DOWNLIGHT VISORS. FIXTURES AT END OF ROW SHALL HAVE SIDE VISORS.

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EquitySpec MEP Consulting Engineers	ESCE JOB NO.: 13028
42600 Caroline Court, Suite 102 Palm Desert, CA 92211	CAD FILE: WPA-MPE
V: 760 834-1537 F: 760 832-7333	DRN. BY: ESCE CHKD BY: DAC
E: dcelmer@equityspec-engineers.com	SCALE: AS SHOWN

42600 Caroline Court, Suite 102
Palm Desert, California 92211
T: 760.773.0709 F: 760.773.0967
mail@mcainc.com

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Rancho Mirage Community Park Expansion & Amphitheater Project

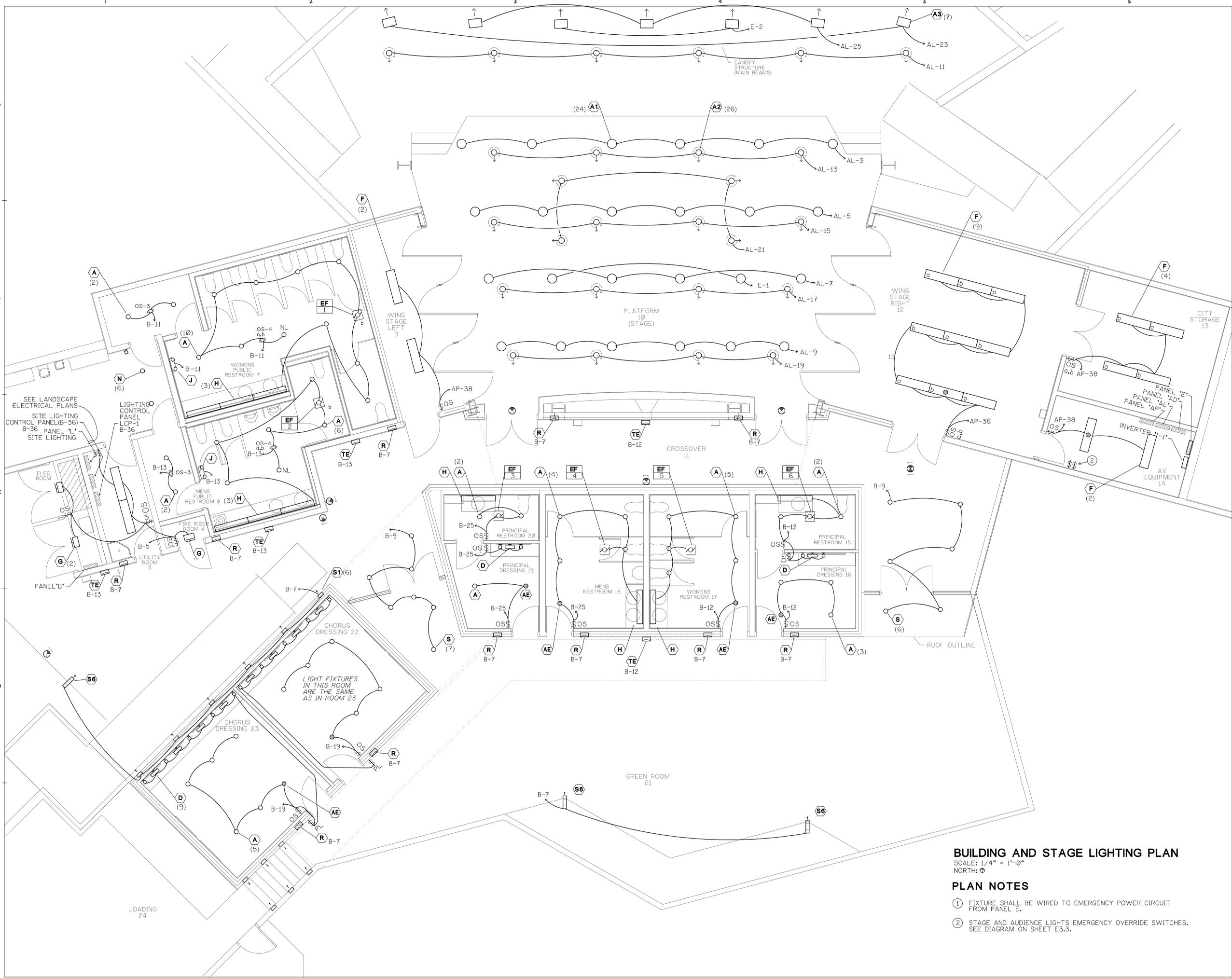
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Rancho Mirage, CA 92270
for
The City of Rancho Mirage

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SHEET TITLE:
FIXTURE AND DEVICE SCHEDULES

SHEET NUMBER:
E-1.2



42600 Caroline Court, Suite 102
 Palm Desert, California 92211
 T: 760.773.0709 F: 760.773.0967
 mail@mcaacoinc.com



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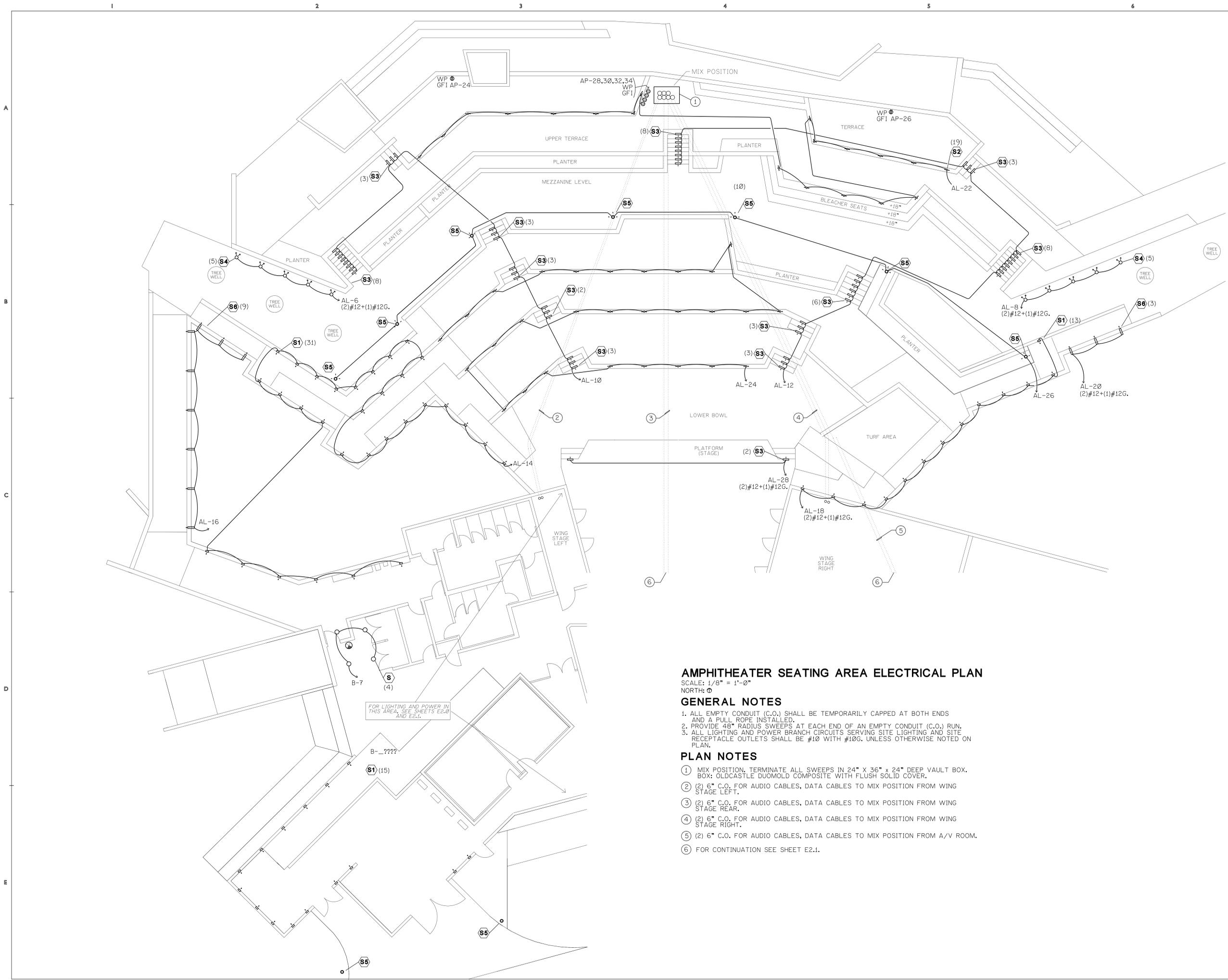
SHEET TITLE:
**BUILDING AND
 STAGE LIGHTING
 PLAN**

SHEET NUMBER:
E2.0

BUILDING AND STAGE LIGHTING PLAN
 SCALE: 1/4" = 1'-0"
 NORTH: ⬆

PLAN NOTES

- ① FIXTURE SHALL BE WIRED TO EMERGENCY POWER CIRCUIT FROM PANEL E.
- ② STAGE AND AUDIENCE LIGHTS EMERGENCY OVERRIDE SWITCHES. SEE DIAGRAM ON SHEET E3.3.



AMPHITHEATER SEATING AREA ELECTRICAL PLAN

SCALE: 1/8" = 1'-0"
NORTH: ⬆

GENERAL NOTES

1. ALL EMPTY CONDUIT (C.O.) SHALL BE TEMPORARILY CAPPED AT BOTH ENDS AND A PULL ROPE INSTALLED.
2. PROVIDE 48" RADIUS SWEEPS AT EACH END OF AN EMPTY CONDUIT (C.O.) RUN.
3. ALL LIGHTING AND POWER BRANCH CIRCUITS SERVING SITE LIGHTING AND SITE RECEPTACLE OUTLETS SHALL BE #10 WITH #10G. UNLESS OTHERWISE NOTED ON PLAN.

PLAN NOTES

- ① MIX POSITION. TERMINATE ALL SWEEPS IN 24" X 36" X 24" DEEP VAULT BOX. BOX: OLDCASTLE DUOMOLD COMPOSITE WITH FLUSH SOLID COVER.
- ② 6" C.O. FOR AUDIO CABLES, DATA CABLES TO MIX POSITION FROM WING STAGE LEFT.
- ③ (2) 6" C.O. FOR AUDIO CABLES, DATA CABLES TO MIX POSITION FROM WING STAGE REAR.
- ④ (2) 6" C.O. FOR AUDIO CABLES, DATA CABLES TO MIX POSITION FROM WING STAGE RIGHT.
- ⑤ (2) 6" C.O. FOR AUDIO CABLES, DATA CABLES TO MIX POSITION FROM A/V ROOM.
- ⑥ FOR CONTINUATION SEE SHEET E2.1.

42600 Caroline Court, Suite 102
Palm Desert, California 92211
T: 760.773.0709 F: 760.773.0967
mail@mcacoinc.com

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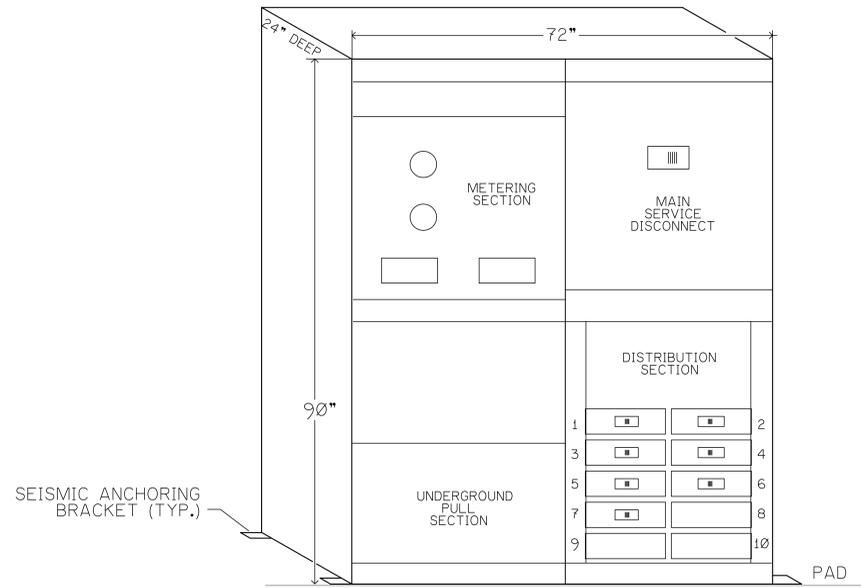
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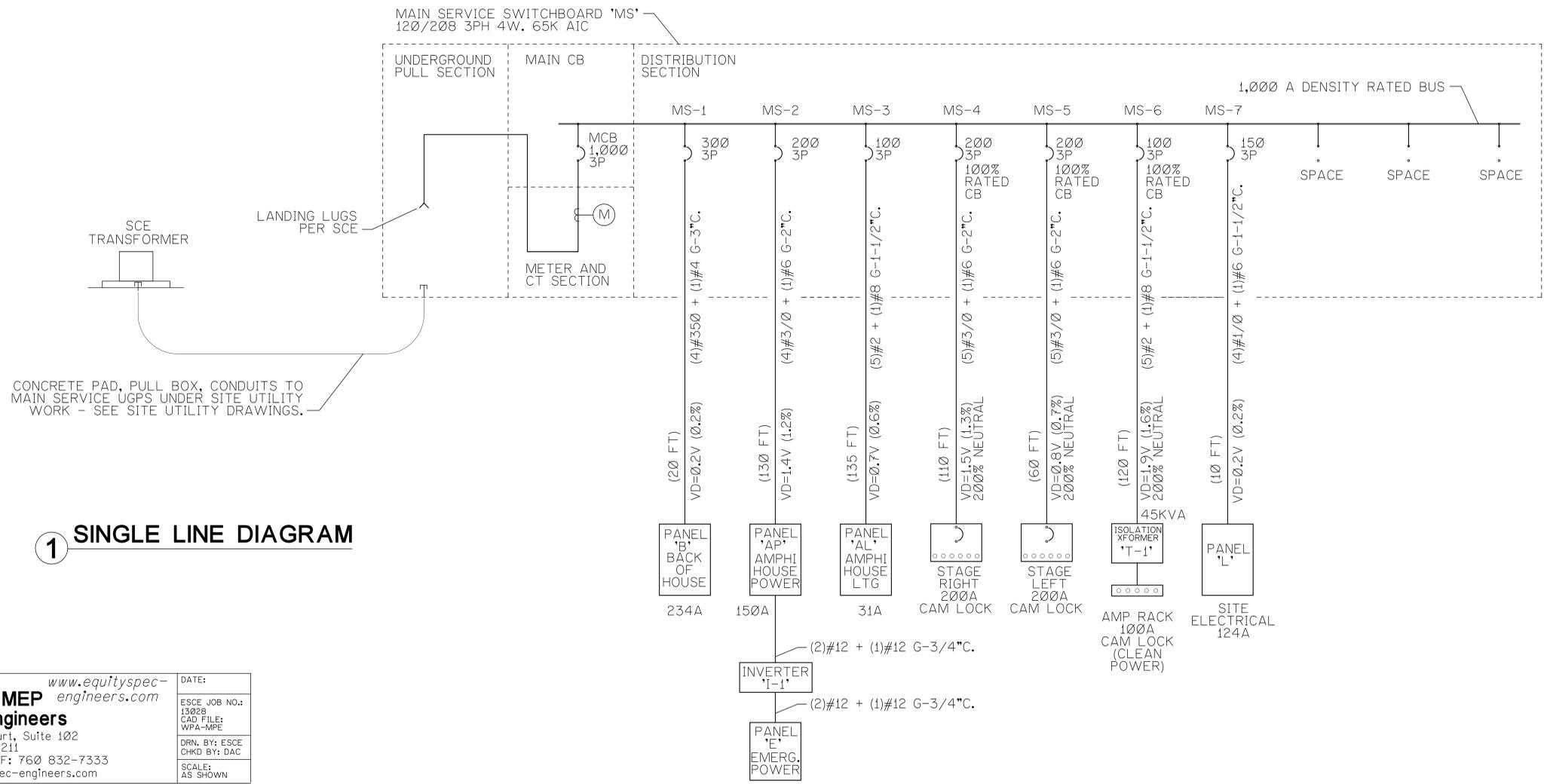
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**AMPHITHEATER
SEATING AREA
ELECTRICAL PLAN**

SHEET NUMBER:
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Pow-R-Line C, Front Access/ Front and Rear Align
 System Voltage: 208Y/120V 3-Phase 4-Wire
 Short Circuit Interrupter Rating: 65KA
 Main Bus: 1000A, Neutral Bus: 1000A
 Copper Bus
 Copper Ground Bus
 Density Rated Bus: 1000A per square inch
 Bottom Incoming Lug Drilling(s): (3) 300-800 kcmil
 (1) #6-350 kcmil Ground Lug Supplied As Standard
 Bus Bracing: 65kA
 Service Entrance: Suitable Only For Use As Service Equipment
 Switchboard Construction Meets UL-891
 Enclosure: Type 1
 Finish: ANSI-61
 Approx. Weight: Left Structure - 560 lbs.
 Right Structure - 855 lbs.
 Total - 1415 lbs.

2 SWITCHBOARD 'MS' ELEVATION



1 SINGLE LINE DIAGRAM

PLANS PREPARED BY: www.equityspec-engineers.com DATE:
EquitySpec MEP Consulting Engineers
 42600 Caroline Court, Suite 102
 Palm Desert, CA 92211
 V: 760 834-1537 F: 760 832-7333
 E: dcelmer@equityspec-engineers.com

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 DRN. BY: ESCE
 CHKD BY: DAC
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42600 Caroline Court, Suite 102
 Palm Desert, California 92211
 T: 760.773.0709 F: 760.773.0967
 mail@mcaconinc.com

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 760.324.4511

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SINGLE LINE DIAGRAM AND SERVICE
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E3.0

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 Palm Desert, CA 92211
 V: 760 834-1537 F: 760 832-7333
 E: dcelmer@equityspec-engineers.com

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PANEL SCHEDULE - PANEL 'E'

PANEL LOCATION:		120/208 V-1PH-3W		BUS RATING: 100 AMP		CIRCUIT/LOAD CODES:		N: NON-CONTINUOUS	
MAIN: 20A.		MOUNTING: SURFACE		AIC RATING: 22,000 A				C: LONG CONTINUOUS LOAD (LCL)	
LOAD DESCRIPTION	VOLT AMPS	OUTLETS	BREAKER	BREAKER	OUTLETS	VOLT AMPS			LOAD DESCRIPTION
ØA	ØB	ØC	POLE TRIP	POLE TRIP	LTG REC	ØA	ØB		
STAGE DOWNLIGHTS A-1	222		C	(2)	20 1	1	2		
AUDIENCE FLOODS A-3		726	C	(2)	20 1	3	4		
						5	6		
						7	8		
						9	10		
						11	12		
						13	14		
						15	16		
						17	18		
PHASE SUBTOTALS	222	726							PHASE SUBTOTALS
TOTAL PHASE A = 222 VA		TOTAL CONNECTED VA = 948							
TOTAL PHASE B = 726 VA		LCL: VA @ 25% = 237							
		TOTAL PANEL LOAD = 1,185							
		TOTAL FEEDER AMPS = 10							

PANEL SCHEDULE - PANEL 'B' Back of House Power and Lighting

PANEL LOCATION:		120/208 V-3PH-4W		BUS RATING: 400 AMP		CIRCUIT/LOAD CODES:		N: NON-CONTINUOUS	
MAIN: MLO.		MOUNTING: SURFACE		AIC RATING: 22,000 A				C: LONG CONTINUOUS LOAD (LCL)	
LOAD DESCRIPTION	VOLT AMPS	OUTLETS	BREAKER	BREAKER	OUTLETS	VOLT AMPS			LOAD DESCRIPTION
ØA	ØB	ØC	POLE TRIP	POLE TRIP	LTG REC	ØA	ØB	ØC	
① FIRE ALARM SYS PANEL	360		N	*	20 1	1	2		CABLE EQUIPMENT
TELEPHONE EQUIPMENT		360	N	*	20 1	3	4		SECURITY SYS. PANEL
IRRIGATION CONTROLLER		360	N	*	20 1	5	6		LTG-ELEC,UTIL,FIRE RMS
② LTG-EXTERIOR BLDG	321		C	*	20 1	7	8		EW-2-PRIN DRESS 19
② LTG-EXTERIOR BLDG		78	C	*	20 1	9	10		"
LTG-WOMENS PUBLIC RR		328	C	*	20 1	11	12		LTG-RR 15+PRIN DRESS 16
LTG-MENS PUBLIC RR	292		C	*	20 1	13	14		REC-RESTROOMS 17+18
EW-1-PUBLIC RRS		5,400	N	*	40	15	16		EW-3-RESTROOMS 17+18
"			N	*	2	17	18		"
LTG-CHORUS DRESS 22+23	560		C	*	20 1	19	20		REC-PRINCIPAL DRESS 16
REC-CHORUS DRESS 23		1,620	N	(9)	20 1	21	22		EW-4-PRIN DRESS 16
REC-CHORUS DRESS 22		1,440	N	(8)	20 1	23	24		"
LTG-PRIN DRESS 19+RR 20	578		C	*	20 1	25	26		CU-1 (INCLUDES FC-4)
REC-PRINCIPAL DRESS 19		900	N	(5)	20 1	27	28		"
HP-1 (INCLUDES FC-1)		3,600	N	*	30	29	30		LTG CONTROLS-UTILITY RM
"			N	*	2	31	32		LTG CONTROLS-UTILITY RM
HP-2 (INCLUDES FC-2)		3,600	N	*	30	33	34		SPACE
"			N	*	2	35	36		
HP-3 (INCLUDES FC-3)		3,600	N	*	30	37	38		
"			N	*	2	39	40		
RECEPTS-UTILITY RM		360	N	(2)	20 1	41	42		
PHASE SUBTOTALS	9,311	15,558	15,088						PHASE SUBTOTALS
TOTAL PHASE A = 20,851 VA		TOTAL CONNECTED VA = 83,461							
TOTAL PHASE B = 35,718 VA		LCL: 2,967 VA @ 25% = 741							
TOTAL PHASE C = 26,892 VA		TOTAL PANEL LOAD = 84,202 A							
		TOTAL PANEL AMPS = 234 A							

PANEL SCHEDULE - PANEL 'AL' Amphitheater Stage and Seating Lighting

PANEL LOCATION:		120/208 V-3PH-4W		BUS RATING: 100 AMP		CIRCUIT/LOAD CODES:		N: NON-CONTINUOUS	
MAIN: 200/3P.		MOUNTING: SURFACE		AIC RATING: 22,000 A				C: LONG CONTINUOUS LOAD (LCL)	
LOAD DESCRIPTION	VOLT AMPS	OUTLETS	BREAKER	BREAKER	OUTLETS	VOLT AMPS			LOAD DESCRIPTION
ØA	ØB	ØC	POLE TRIP	POLE TRIP	LTG REC	ØA	ØB	ØC	
DIMMER PANEL AD	400		N	*	20 1	1	2		TREE UPLIGHTS NORTH
① STAGE GENERAL D/L A1		666	C	(6)	20 1	3	4		TREE UPLIGHTS SOUTH
① STAGE GENERAL D/L A1			C	(6)	20 1	5	6		ENTRANCE WALL WEST (S-4)
① STAGE GENERAL D/L A1	666		C	(6)	20 1	7	8		ENTRANCE WALL EAST (S-4)
① STAGE GENERAL D/L A1		666	C	(6)	20 1	9	10		STAIRS WEST HALF (S-3)
② STAGE PAR TYPE A2 DMX		600	C	(6)	20 1	11	12		STAIRS EAST HALF (S-3)
② STAGE PAR TYPE A2 DMX	400		C	(4)	20 1	13	14		PATHWAYS WEST (S-1)
② STAGE PAR TYPE A2 DMX		400	C	(4)	20 1	15	16		PATHWAYS W BOLLARDS (S-6)
② STAGE PAR TYPE A2 DMX		400	C	(4)	20 1	17	18		PATHWAYS EAST (S-1)
② STAGE PAR TYPE A2 DMX	400		C	(4)	20 1	19	20		PATHWAYS E BOLLARDS (S-6)
② STAGE PAR TYPE A2 DMX		400	C	(4)	20 1	21	22		WALL MARKERS REAR
① SEATING AREA FLOODS A3		1,089	C	(3)	20 1	23	24		WALL MARKERS FRONT
① SEATING AREA FLOODS A3	726		C	(2)	20 1	25	26		MEZZANINE BOLLARDS (S-5)
SPACE						27	28		FRONT STAGE STEPS
						29	30		SPACE
						31	32		
						33	34		
						35	36		
						37	38		
						39	40		
						41	42		
PHASE SUBTOTALS	2,592	2,132	2,755						PHASE SUBTOTALS
TOTAL PHASE A = 3,202 VA		TOTAL CONNECTED VA = 8,983							
TOTAL PHASE B = 2,519 VA		LCL: 8,583 VA @ 25% = 2,146							
TOTAL PHASE C = 3,262 VA		TOTAL PANEL LOAD = 11,129 A							
		TOTAL PANEL AMPS = 31 A							

PANEL SCHEDULE - PANEL 'AP' Amphitheater Power

PANEL LOCATION:		120/208 V-3PH-4W		BUS RATING: 200 AMP		CIRCUIT/LOAD CODES:		N: NON-CONTINUOUS	
MAIN: 200/3P.		MOUNTING: SURFACE		AIC RATING: 22,000 A				C: LONG CONTINUOUS LOAD (LCL)	
LOAD DESCRIPTION	VOLT AMPS	OUTLETS	BREAKER	BREAKER	OUTLETS	VOLT AMPS			LOAD DESCRIPTION
ØA	ØB	ØC	POLE TRIP	POLE TRIP	LTG REC	ØA	ØB	ØC	
RECEPTS-STAGE	1,200		N	*	20 1	1	2		RECEPTS-STAGE
RECEPTS-STAGE		1,200	N	*	20 1	3	4		RECEPTS-STAGE
RECEPTS-STAGE		1,200	N	*	20 1	5	6		RECEPTS-STAGE
RECEPTS-STAGE	1,200		N	*	20 1	7	8		RECEPTS-STAGE
RECEPTS-STAGE		1,200	N	*	20 1	9	10		RECEPTS-STAGE (30A)
RECEPTS-STAGE		1,200	N	*	20 1	11	12		RECEPTS-STAGE
RECEPTS-STAGE (60A)	5,760		N	*	60 1	13	14		RECEPTS-STAGE
RECEPTS-STAGE		1,200	N	*	20 1	15	16		RECEPTS-STAGE
RECEPTS-STAGE		1,200	N	*	20 1	17	18		RECEPTS-STAGE
RECEPTS-STAGE	1,200		N	*	20 1	19	20		RECEPTS-STORAGE
RECEPTS-STAGE		1,200	N	*	20 1	21	22		RECEPTS-A/V RM
RECEPTS-STAGE		1,200	N	*	20 1	23	24		RECEPTS-SEATING AREA
RECEPTS-STAGE	1,200		N	*	20 1	25	26		RECEPTS-SEATING AREA
RECEPTS-STAGE		1,200	N	*	20 1	27	28		RECEPTS-MIX POSITION
RECEPTS-STAGE		1,200	N	*	20 1	29	30		RECEPTS-MIX POSITION
RECEPTS-STAGE	1,200		N	*	20 1	31	32		RECEPTS-MIX POSITION
RECEPTS-STAGE		1,200	N	*	20 1	33	34		RECEPTS-MIX POSITION
RECEPTS-STAGE REAR		1,200	N	*	20 1	35	36		STAGE WINGS DR LOCKS
RECEPTS-STAGE REAR	1,200		N	*	20 1	37	38		LTG-STAGE WINGS+STOR
RECEPTS-WING STAGE RIGHT		1,200	N	*	20 1	39	40		RECEPTS-WING STAGE LEFT
RECEPTS-WING STAGE RIGHT		1,200	N	*	20 1	41	42		RECEPTS-WING STAGE LEFT
INVERTER I-1	240					43	44		SPACE
SPACE						45	46		
						47	48		
						49	50		
						51	52		
PHASE SUBTOTALS	13,200	8,400	8,400						PHASE SUBTOTALS
TOTAL PHASE A = 20,138 VA		TOTAL CONNECTED VA = 53,838							
TOTAL PHASE B = 18,200 VA		LCL: 578 VA @ 25% = 145							
TOTAL PHASE C = 15,700 VA		TOTAL PANEL LOAD = 53,983 A							
		TOTAL PANEL AMPS = 150 A							

42600 Caroline Court, Suite 102
 Palm Desert, California 92211
 T: 760.773.0709 F: 760.773.0967
 mail@mcaacoinc.com



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Rancho Mirage Community Park Expansion & Amphitheater Project

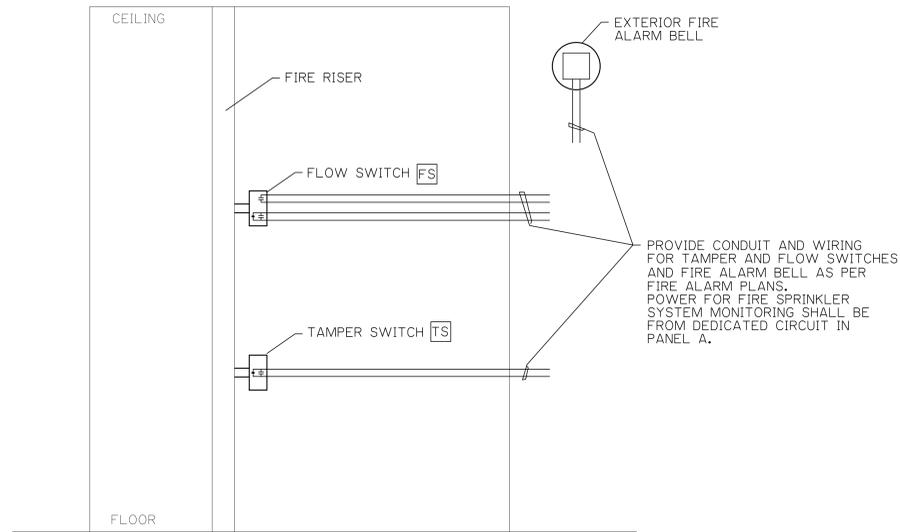
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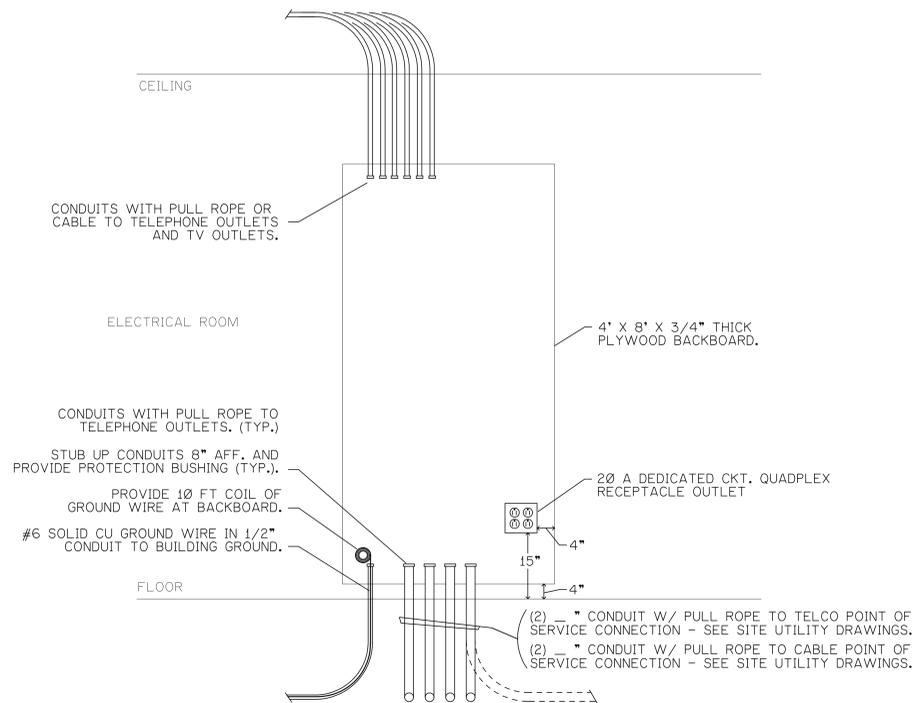
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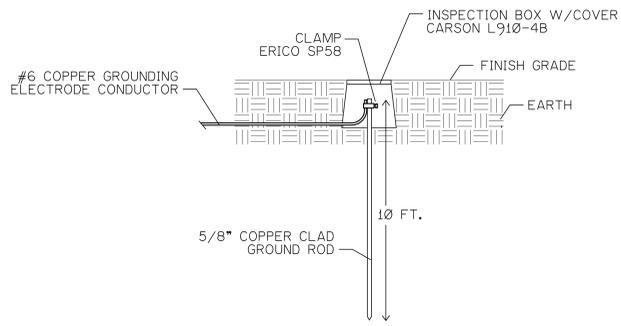
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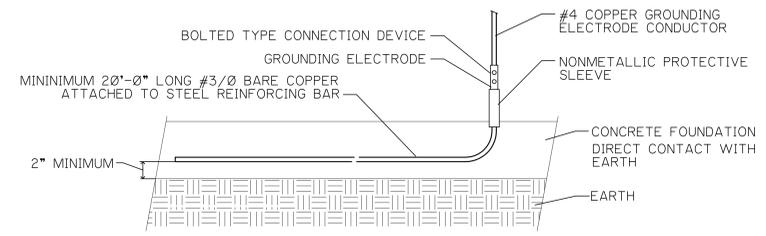
7 FIRE SPRINKLER RISER WIRING DIAGRAM
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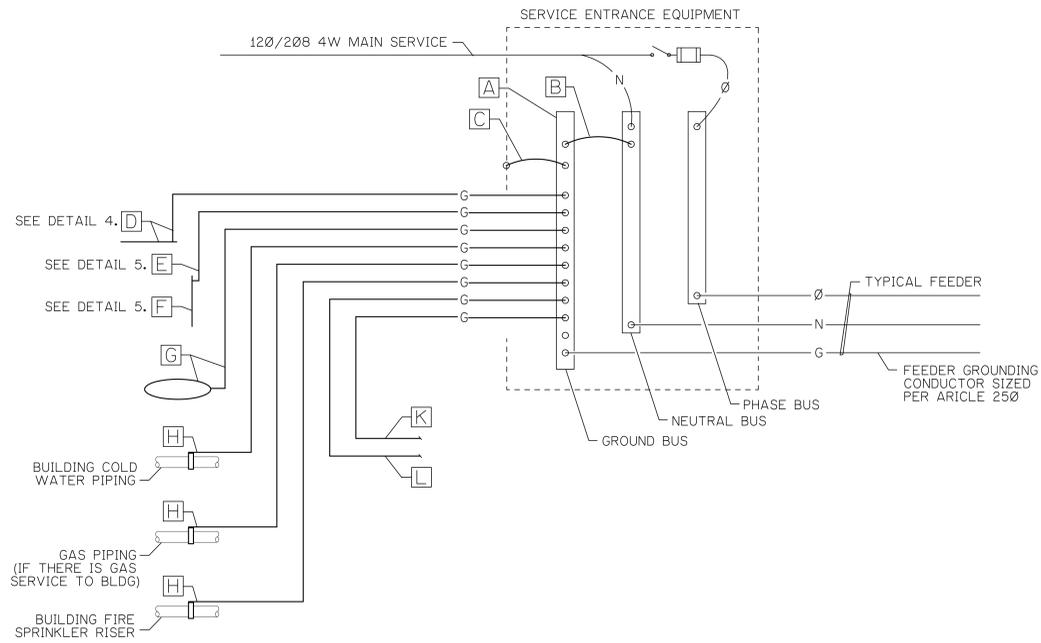
6 TELEPHONE AND CABLE BACKBOARD ELEVATION
NOT TO SCALE



5 GROUNDING ELECTRODE ROD DETAIL
NOT TO SCALE



4 CONCRETE ENCASED ELECTRODE (UFER GROUND) DETAIL
NOT TO SCALE



GROUNDING SYSTEM SCHEDULE

	A	B	C	D	E	F	G	H	I	J	K	L
AMPACITY	1,000											
DESCRIPTION	FACTORY INSTALLED GROUND BUS BAR	BUS BAR MAIN BONDING JUMPER	BUS BAR TO ENCLOSURE BONDING JUMPER	CONCRETE ENCASED ELECTRODE (UFER)	GROUNDING ELECTRODE CONDUCTOR TO ROD, PIPE, OR PLATE	GROUND ROD ELECTRODE	COPPER GROUND RING AND CONDUCTOR	METALLIC PIPING BONDING CONDUCTOR	BUILDING STEEL BONDING CONDUCTOR	MULTIPLE SERVICE BONDING CONDUCTOR	TELEPHONE SYSTEM GROUNDING CONDUCTOR	CABLE SYSTEM GROUNDING CONDUCTOR
CEC CODE REFERENCE		250.102	250.102	250.52(A)(3) 250.66(B)	250.52(A)(3) 250.66(B)	250.52(A)(5)	250.52(A)(4)	250.104 250.66	DOES NOT APPLY TO THIS PROJECT	DOES NOT APPLY TO THIS PROJECT		
SIZE	SEE NOTE * BELOW	#4/0	#4/0	#4	#6	5/8" X 8FT.	#2	#2/0	DOES NOT APPLY TO THIS PROJECT	DOES NOT APPLY TO THIS PROJECT	#6	#6

NOTES:
* SHALL BE SIZED TO ACCOMMODATE ALL GROUND WIRE LUGS AS INDICATED ON THE GROUNDING DIAGRAM AND/OR REFERENCED ELSEWHERE ON PLANS OR SPECIFICATIONS.

3 GROUNDING SYSTEM DIAGRAM
NOT TO SCALE

GROUNDING SYSTEM DIAGRAM GENERAL NOTES

- THIS DIAGRAM IS PROVIDED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE, ARTICLE 250.
- ALL SPLICING SHALL BE ACCOMPLISHED VIA EXOTHERMIC WELD (CAD-WELD) ONLY.
- ALL CONDUCTOR SIZING INDICATED IS FOR COPPER CONDUCTORS. ALUMINUM IS NOT PERMITTED.
- THE GROUNDING SYSTEM SHALL PROVIDE LESS THAN 25 OHMS RESISTANCE TO GROUND AT THE SERVICE CONNECTION. THE RESULTS SHALL BE VERIFIED BY AN INDEPENDANT TESTING AGENCY VIA A GROUND TEST AND SUBMITTED TO THE ELECTRICAL ENGINEER.
- INSTALL GROUNDING CONNECTIONS TO METALLIC WATER PIPES AT LOCATIONS THAT ARE VISIBLE AND ACCESSIBLE FOR INSPECTION, MAINTENANCE, AND TESTING.
- EC SHALL PROVIDE SIGNED LETTER TO ENGINEER STATING THAT TERMINATIONS HAVE BEEN PROPERLY TORQUED.

PLANS PREPARED BY: www.equityspec-engineers.com
EquitySpec MEP Consulting Engineers
 42600 Caroline Court, Suite 102
 Palm Desert, CA 92211
 V: 760 834-1537 F: 760 832-7333
 E: dcelmer@equityspec-engineers.com

DATE: _____
 ESCE JOB NO.: 13028
 CAD FILE: WFA-MPE
 DRN. BY: ESCE
 CHKD BY: DAC
 SCALE: AS SHOWN

42600 Caroline Court, Suite 102
 Palm Desert, California 92211
 T: 760.773.0709 F: 760.773.0967
 mail@mcaconinc.com

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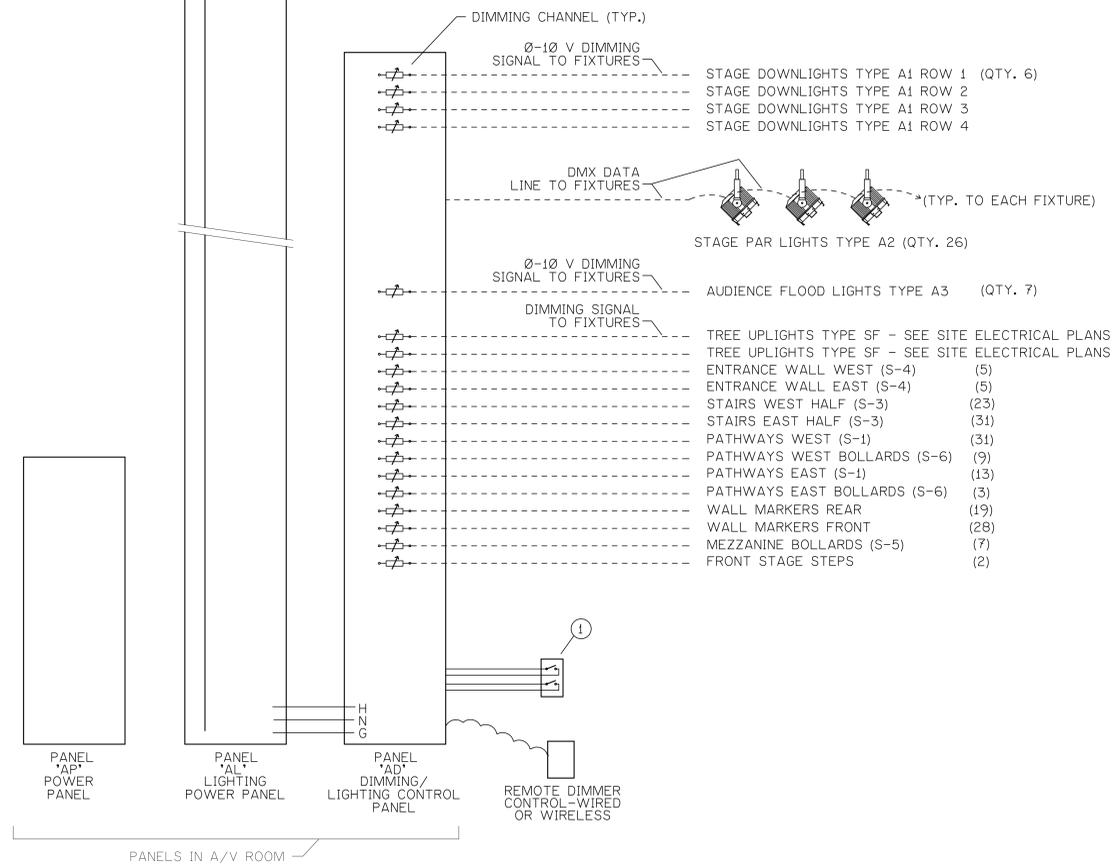
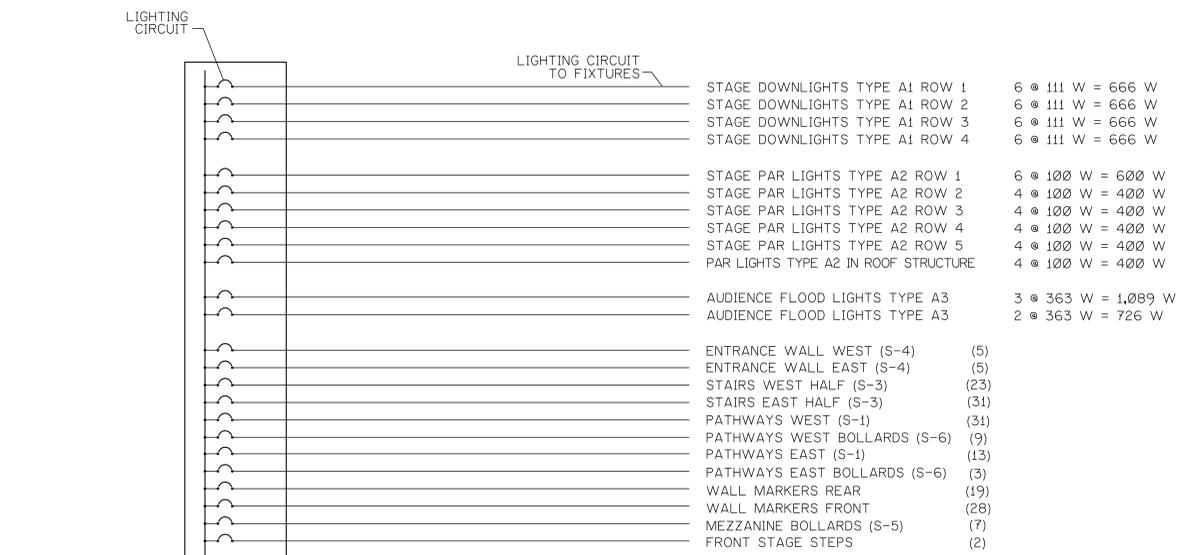
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DETAILS AND DIAGRAMS

SHEET NUMBER:
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PLANS PREPARED BY: *www.equityspec-engineers.com* DATE: _____
EquitySpec MEP Consulting Engineers
 42600 Caroline Court, Suite 102
 Palm Desert, CA 92211
 V: 760 834-1537 F: 760 832-7333
 E: dcelmer@equityspec-engineers.com

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 CAD FILE: WPA-MPE
 DRN. BY: ESCE
 CHKD BY: DAC
 SCALE: AS SHOWN



AMPHITHEATER STAGE AND SEATING AREA LIGHTING CONTROL DIAGRAM

GENERAL NOTES

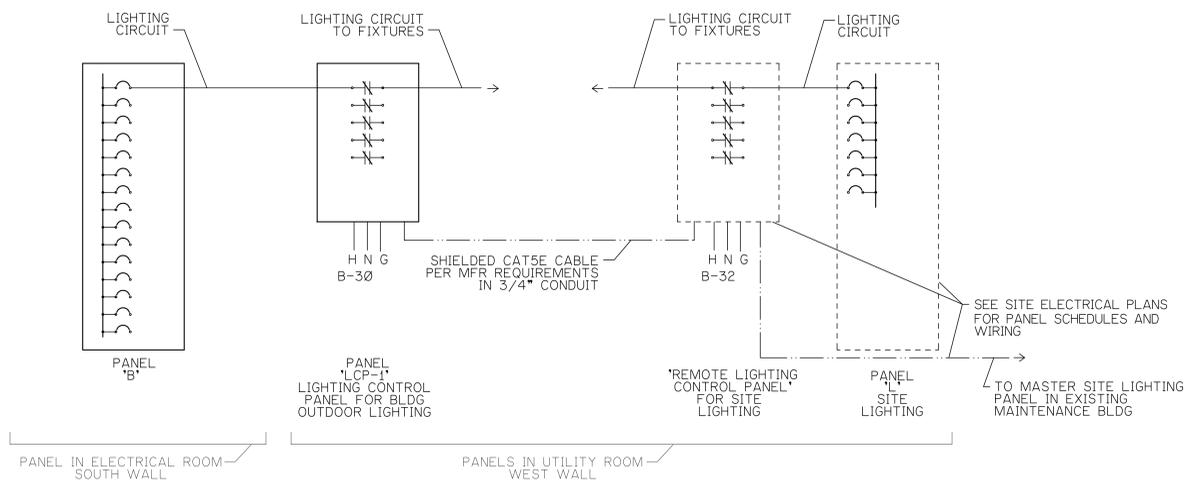
- REFER TO MANUFACTURERS WRITTEN INSTRUCTIONS FOR WIRING AND TERMINATION REQUIREMENTS.
- DO NOT RUN DATA OR CONTROL LINES IN SAME RACEWAY AS POWER CIRCUITS.

DIAGRAM NOTES

- STAGE AND AUDIENCE LIGHTS EMERGENCY OVERRIDE: PROVIDE TWO MANUAL TOGGLE SWITCHES AND INTERLOCK WIRING TO SET THE FOLLOWING LIGHT FIXTURES TO FULL INTENSITY WHEN THE RESPECTIVE SWITCH IS IN THE ON POSITION:
 - ALL STAGE DOWNLIGHTS TYPE A1.
 - ALL AUDIENCE FLOODLIGHTS TYPE A3.
 WHEN THE SWITCH IS IN THE OFF POSITION, THE LIGHTS ARE UNDER CONTROL OF THE DIMMING SYSTEM.

PROVIDE NAMEPLATES ABOVE EACH SWITCH AS FOLLOWS:
 - "OVERRIDE STAGE DOWNLIGHTS TO FULL ON"
 - "OVERRIDE AUDIENCE FLOODLIGHTS TO FULL ON"
 PROVIDE SWITCH SHIELD SWITCH GUARD COVER OVER EACH TOGGLE SWITCH TO PREVENT ACCIDENTAL SWITCHING.

8 LIGHTING CONTROL DIAGRAMS
 NOT TO SCALE



BUILDING OUTDOOR LIGHTING CONTROL DIAGRAM

42600 Caroline Court, Suite 102
 Palm Desert, California 92211
 T: 760.773.0709 F: 760.773.0967
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