

ELECTRICAL SPECIFICATIONS

GENERAL PROVISIONS

- A. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT FOR A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM. INCLUDE NECESSARY FEES AND PERMITS WITHIN BASE BID.
- ARCHITECTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS ARE CONSIDERED PART OF THESE CONSTRUCTION DOCUMENTS FOR COORDINATION, EQUIPMENT CONNECTION, HEIGHTS AND LOCATIONS.
- B. ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS, AND SHALL BEAR THE LABEL OF A NATIONALLY RECOGNIZED TESTING LABORATORY SUCH AS UNDERWRITERS LABORATORIES.
- C. CONTRACTOR SHALL THOROUGHLY INVESTIGATE SITE BEFORE BIDDING. NO CHANGES WILL BE ALLOWED IN CONTRACT PRICE FOR WORK REQUIRED TO COMPLY WITH EXISTING CONDITIONS.
- D. ALL ELECTRICAL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.
- E. PROVIDE PHENOLIC NAMEPLATES ON ALL PANELBOARDS, SWITCHBOARDS, DISCONNECTS, TRANSFORMERS, ETC., INDICATING DESIGNATION, VOLTAGE AND WHERE UNIT IS FED FROM. SECURE NAMEPLATES WITH AT LEAST TWO SCREWS OR RIVETS FOR INDOOR APPLICATIONS AND WITH CEMENTING OR ADHESIVE FOR OUTDOOR APPLICATIONS. PROVIDE WITH 3/8" TEXT MINIMUM.
- F. PROVIDE TEMPORARY POWER AND LIGHTING. INCLUDE PERMITS AND UTILITY COMPANY FEES FOR TEMPORARY SERVICES WITHIN BASE BID.
- G. CONTRACTOR SHALL SCHEDULE ALL DOWN-TIME WITH THE OWNER PRIOR TO BEGINNING THE WORK. PREMIUM/OVERTIME RATES MAY BE REQUIRED AND MUST BE INCLUDED IN BASE BID.
- H. CONTRACTOR SHALL THOROUGHLY REVIEW CONSTRUCTION DOCUMENTS AND WALK SITE. WHEN CONFLICTS ARISE WITHIN CONSTRUCTION DOCUMENTS, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO SUBMITTING A BID. SUBMISSION OF A BID SHALL INDICATE THAT CONTRACTOR THOROUGHLY REVIEWED CONSTRUCTION DOCUMENTS AND WALKED THE SITE PRIOR TO BID SUBMISSION.
- WHEN ENGINEER IS NOT AVAILABLE, OR TIME DOES NOT PERMIT, CONTRACTOR SHALL INCLUDE THE MOST STRINGENT (COSTLY) REQUIREMENTS WITHIN BASE BID.
- I. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY AND TELECOMMUNICATION COMPANY FOR LOCATIONS, REQUIREMENTS AND CONDUITS ROUTING PRIOR TO COMMENCEMENT OF WORK OR ROUGH-IN.
- J. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING MANUFACTURERS, SUB-CONTRACTORS, VENDORS AND SUPPLIERS, WITH A COPY OF THESE SPECIFICATIONS PRIOR TO SUBMITTING A BID.
- K. GUARANTEE ALL ELECTRICAL SYSTEM MATERIALS AND WORKMANSHIP TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE AND PROPERLY CORRECT LATENT DEFECTS ARISING WITHIN THIS PERIOD UPON NOTIFICATION BY THE OWNER'S REPRESENTATIVE WITHOUT ADDITIONAL COMPENSATION.
- L. DAILY REMOVE REFUSE AND DEBRIS ACCUMULATING FROM ELECTRICAL CONSTRUCTION AND PRIOR TO ACCEPTANCE OF THIS WORK, LEAVE THE PREMISES "BROOM CLEAN" INsofar AS AFFECTED BY ELECTRICAL WORK.
- M. ELECTRICAL CONTRACTOR SHALL EXAMINE ARCHITECTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ESTIMATING AND CONSTRUCTION OF THIS PROJECT. SUBMISSION OF A PROPOSAL SHALL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED FOR CONNECTING AND ENERGIZING EQUIPMENT SHOWN ON THOSE DRAWINGS WILL NOT BE RECOGNIZED. ELECTRICAL CONTRACTOR SHALL COMMUNICATE DISCREPANCIES TO ENGINEER PRIOR SUBMITTING A BID.
- N. EQUIPMENT AND DESIGN OF SYSTEMS INDICATED ON THE DESIGN DRAWINGS AND WITHIN THESE SPECIFICATIONS SHALL BE CONSIDERED AS SPECIFIED STANDARD OF QUALITY. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER AT LEAST 10 DAYS PRIOR TO BID DATE.
- ANY DEVIATION FROM SPECIFIED EQUIPMENT THAT AFFECT THE INSTALLATION, OPERATION, PERFORMANCE, QUALITY OR LONGEVITY OF THE ELECTRICAL SYSTEMS AS DEFINED HEREIN, SHALL BE REPLACED BY THE ELECTRICAL CONTRACTOR WITH NO ADDITIONAL COST TO THE CLIENT. IN ADDITION, ELECTRICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH PHOTOMETRIC FLOOR PLANS FOR ANY LIGHTING FIXTURE CHANGES FOR APPROVAL AT LEAST 10 DAYS PRIOR TO BID DATE.

BASIC MATERIALS AND METHODS

- A. RACEWAYS AND FITTINGS: ALL RACEWAYS AND FITTINGS SHALL BE GALVANIZED RIGID STEEL OR INTERMEDIATE METAL CONDUIT WITH LOCKWAS AND BUSHINGS, WITH THE EXCEPTION THAT WHERE SPECIFICALLY ALLOWED BY THE NATIONAL ELECTRICAL CODE AND APPLICABLE LOCAL CODES. ELECTRICAL METALLIC TUBING (E.M.T) MAY BE USED FOR ALL INTERIOR EXPOSED AND CONCEALED WORK WHERE IT IS NOT SUBJECT TO PHYSICAL DAMAGE OR CORROSION. FITTINGS SHALL BE STEEL SET SREW TYPE. PVC SCHEDULE 40 SHALL BE USED FOR BELOW GRADE INSTALLATIONS. MC CABLE SHALL BE ALLOWED WHEN APPROVED BY OWNER AND IT SHALL BE INSTALLED AS PER ARTICLE 330 OF THE NEC. AS PART OF LUMINAIRE WHIPS (MAX 6' IN LENGTH) OR FISHED DOWN EXISTING WALLS. NO BX CABLE (ROMEX) ALLOWED. INSTALL EXPANSION FITTINGS IN RACEWAYS EVERY 200' LINEAR RUN OR WHEREVER STRUCTURAL EXPANSION JOINTS ARE CROSSED.
- B. SERVICE LATERALS THAT ARE NOT ENCASED IN CONCRETE AND THAT ARE BURIED 18 IN. (457MM) OR MORE BELOW GRADE SHALL HAVE THEIR LOCATION IDENTIFIED BY A WARNING RIBBON THAT IS PLACED IN THE TRENCH AT LEAST 12 IN. (305 MM) ABOVE THE UNDERGROUND INSTALLATION.
- C. ALL UNDERGROUND CONDUITS SHALL BE PROVIDED WITH PULL STRING AND BOTH ENDS SHALL BE PROPERLY IDENTIFIED AND MARKED. PROVIDE CAPS TO AVOID MATERIAL INTRUSION. WHERE AN UNDERGROUND RACEWAY ENTERS A BUILDING OR STRUCTURE, IT SHALL BE SEALED AS PER NEC ARTICLES 230.8 AND 300.5(G). CONDUITS STUB-UPS WITHIN BUILDING SHALL BE MADE WITH GALVANIZED RIGID CONDUIT. NO NON-METALLIC RACEWAY ALLOWED WITHIN BUILDING (ASSEMBLY OCCUPANCY, NEC ARTICLE 518).
- D. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
- E. FINAL CONNECTIONS TO MOTORS OR EQUIPMENT SUBJECT TO VIBRATION SHALL BE MADE UP WITH GREENFIELD IN DRY LOCATIONS AND WITH JACKETED, LIQUID-TIGHT, FLEXIBLE GALVANIZED STEEL CONDUIT IN WET OR DAMP LOCATIONS (MAX 6' LENGTH).

- F. CONDUCTORS: FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE THINWALL COPPER (MINIMUM SIZE #12 UNLESS OTHERWISE NOTED). PER NEC 110.14 (C)(1)(a)(b) CONDUCTOR AMPACITY BASED ON 60°C COLUMN FOR CIRCUITS RATED 100 AMPS OR LESS, OR #1 AWG OR LESS CONDUCTORS AND 75°C COLUMN FOR CIRCUITS RATED OVER 100 AMPS, OR LARGER THAN #1 AWG CONDUCTORS PER TABLE NEC 310.16. NO ALUMINUM SHALL BE PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE. INSTALL ALL WIRING IN CONDUIT OR APPROVED RACEWAYS UNLESS OTHERWISE INDICATED. PROVIDE #10 AWG FOR BRANCH CIRCUITS OVER 100 FEET IN LENGTH TO ACCOUNT FOR VOLTAGE DROP. PROVIDE #10 GROUND TO CORRESPOND. ALL BRANCH CIRCUITS SHALL CARRY AN EQUIPMENT GROUNDING CONDUCTOR, AND BE WIRED WITH COLOR-CODED WIRE WITH SAME COLOR USED FOR A PHASE THROUGHOUT. COLOR-CODE SHALL BE AS FOLLOWS:
- 120/208 VOLT: PHASE A - BLACK; PHASE B - RED; PHASE C -BLUE; NEUTRAL - WHITE; GROUND - GREEN.
- 277/480 VOLT: PHASE A - BROWN; PHASE B - ORANGE; PHASE C - YELLOW; NEUTRAL - LIGHT GREY; GROUND - GREEN.
- G. LOCATE ALL DEVICES AND EQUIPMENT WHERE SHOWN ON DRAWINGS. ALL DIMENSIONS SHOWN ON THE DRAWINGS ARE FROM FINISHED FLOOR TO THE CENTER OF THE DEVICE UNLESS OTHERWISE INDICATED. STANDARD MOUNTING HEIGHTS ARE AS FOLLOWS:
- | DEVICES | HEIGHT AFF AT DEVICE |
|-------------------------------------|-------------------------------|
| CENTER | |
| A. ELECTRICAL OUTLETS | 18" (NOTE 1) |
| B. ELECTRICAL OUTLETS ABOVE COUNTER | 42" (NOTE 1) |
| C. TELEPHONE | 18"(NOTE 1) |
| D. WALL TELEPHONE | 54" |
| E. LIGHT SWITCHES | 42" (NOTE 1) |
| F. THERMOSTATS | SEE MECHANICAL SPECS. |
| G. FIRE ALARM NOTIFICATION DEVICES | 80" TO BOTTOM OF DEVICE/GLASS |
| H. DISCONNECT SWITCHES | 60" TO TOP |
| I. PANELBOARDS | 72" TO TOP |
| J. EXIT SIGNS | AS NECESSARY |
| K. SPECIAL DEVICES | AS NECESSARY (NOTE 1) |

- NOTE 1: IN SPACES WHERE VENDORS ARE SUPPLYING MILLWORK THE ABOVE REFERENCED HEIGHTS ARE NOT APPLICABLE. REFER TO THE MILLWORK ELEVATION PLANS TO DETERMINE AN APPROPRIATE MOUNTING HEIGHT.
- NOTE 2: ELECTRICAL CONTRACTOR SHALL FIELD VERIFY AND COORDINATE WITH PROJECT SUPERINTENDENT FOR OVER COUNTER OUTLETS MOUNTING HEIGHT AND DIRECTION (VERTICAL OR HORIZONTAL) PRIOR TO ROUGH-IN.
- NOTE 3: ELECTRICAL CONTRACTOR SHALL VERIFY WITH PROJECT SUPERINTENDENT FOR OUTLETS EXACT LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN.
- H. DISCONNECT SWITCHES: HEAVY-DUTY, FUSED OR NON-FUSED AS CALLED FOR ON PLAN DRAWINGS. PROVIDE SOLID NEUTRAL CONNECTION WHERE REQUIRED. USE NEMA-1 INDOORS, NEMA-3R OUTDOORS AND NEMA-4X IN KITCHENS. ALL DISCONNECT SWITCHES SHALL BE PROVIDED WITH GROUND KIT.
- I. PROVIDE PANELBOARDS OF THE DEAD FRONT TYPE, NO LESS THAN 20 INCHES WIDE AND 5 3/4 INCHES DEEP WITH QUANTITY OF BRANCH CIRCUIT/CIRCUIT BREAKERS AS INDICATED ON THE PANELBOARD SCHEDULE WITH THE VOLTAGE, PHASE, AMPERE AND INTERRUPTING RATING AS REQUIRED. ALL PANELBOARDS SHALL HAVE PHASE SEQUENCE CIRCUITS, BOLT-ON CIRCUIT BREAKERS, COPPER PHASE, NEUTRAL, AND GROUND BUSES, AND HINGED / DOOR-IN-DOOR COVERS. MAIN BREAKERS SHALL BE MOLDED CASE. CIRCUIT BREAKERS FEEDING HVAC LOADS SHALL BE HACR TYPE. TYPEWRITTEN PANEL DIRECTORIES SHALL BE PROVIDED AT COMPLETION OF THE PROJECT. CIRCUIT BREAKERS THAT SERVE AS DISCONNECTING MEANS FOR EQUIPMENT SHALL BE PROVIDED WITH PERMANENTLY INSTALLED LOCK-OFF KIT. THERMAL MAGNETIC CIRCUIT BREAKERS WITHIN PANELBOARDS OR UNIT MOUNTED THAT ARE LOCATED OUTDOORS SHALL BE HIGH AMBIENT TYPE.
- J. CIRCUIT BREAKERS PROVIDE WITH GROUND-FAULT PROTECTION AS REQUIRED BY NEC ARTICLE 230.95(24) 13 SHALL BE TESTED AS PER NEC ARTICLE 230.95 (C) METHOD OF TESTING SHALL BE BY PRIMARY CURRENT INJECTION PERFORMED BY A THIRD PARTY.
- K. PROVIDE STICKER LABEL ON ALL NEW ELECTRICAL EQUIPMENT AND PANELS WITH LEGEND: "WARNING, ARC FLASH AND SHOCK HAZARD, APPROPRIATE PERSONAL PROTECTION EQUIPMENT REQUIRED".
- L. CONTRACTOR SHALL INCLUDE SERVICES OF THE SWITCHGEAR MANUFACTURER SELECTED FOR THIS PROJECT TO PERFORM ANALYSIS AND PROVIDE DELIVERABLES FOR THE NEW ELECTRICAL DISTRIBUTION SYSTEM INCLUDING SHORT CIRCUIT STUDY, PROTECTIVE DEVICE COORDINATION STUDY, AND RC FLASH AND SHOCK RISK ASSESSMENT. CONTRACTOR SHALL SUBMIT STUDY RESULTS TO ENGINEER FOR REVIEW AND APPROVAL AND SET OVERCURRENT DEVICES IN THE FIELD ACCORDINGLY.
- M. ELECTRICAL CONTRACTOR SHALL REVIEW ONE LINE POWER RISER DIAGRAM IN CONJUNCTION WITH SWITCHGEAR MANUFACTURER REPRESENTATIVE TO CROSS REFERENCE POWER RISER WITH PANEL SCHEDULES AND VERIFY VOLTAGES, AMPS, LUGS SIZES/NUMBER AND CABINETS DIMENSIONS PRIOR TO SUBMITTING A BID.
- N. EXERCISE CARE IN CONNECTING THE VARIOUS ELECTRICAL LOADS TO THE PANELS IN ORDER TO ARRIVE AT A REASONABLE BALANCE BETWEEN LOADS IN EACH PHASE AT EACH PANEL. MAKE TESTS AND ADJUST LOADS AT EACH PANEL TO RESULT IN REASONABLY BALANCED LOAD CONDITION. SATISFACTORY TO THE UTILITY COMPANY, ENGINEER, OWNER AND INSPECTION AGENCIES. DOCUMENT ALL SAID LOAD ADJUSTMENTS.
- O. MANUFACTURERS' BASE OF DESIGN IS SQUARE D, EQUAL PRODUCTS BY GENERAL ELECTRIC, SIEMENS OR CUTLER HAMMER WILL BE CONSIDERED.
- S. SWITCHBOARDS, MOTOR CONTROL CENTERS AND TRANSFORMERS SHALL BE MOUNTED ON 4" THICK CONCRETE HOUSEKEEPING PADS. HOUSEKEEPING PADS SHALL EXTEND AT LEAST 2" BEYOND ALL SIDES, FRONT AND BACK OF THE EQUIPMENT EXCEPT WHERE EQUIPMENT EXTENDS TO WALLS. EXTENSIONS BEYOND SIDES OF THE EQUIPMENT SHALL BE BEVELED.
- T. MATERIALS SHALL BE NEW AND UNUSED AND THE CATALOGUED PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH MATERIALS. THE MATERIALS SHALL BE OF THE MANUFACTURER'S LATEST STANDARD DESIGN THAT COMPLIES WITH THE SPECIFICATION REQUIREMENTS.

- U. SURGE PROTECTION DEVICES (SPD) SHOULD BE PLACED IMMEDIATELY ADJACENT TO THE BREAKER IN THE PANEL THAT IS FEEDING THE SPD. CLOSE NIPILED. CUT AWAY ALL OF THE FLEX AND MOUNT THE SPD HORIZONTAL SO THERE IS NO FLEX OR LEAD LENGTH SHOWING ON THE EXTERIOR OF THE PANEL ITSELF. IF POSSIBLE, REMOUNT THE SPD BREAKER AS CLOSE TO THE NEUTRAL BAR AS POSSIBLE TO ALSO ENSURE SHORT AND STRAIGHT LEADS TO THE NEUTRAL BAR AS WELL. THE END RESULT SHOULD BE THE SPD MOUNTED AS CLOSE AS HUMANLY POSSIBLE TO THE BREAKER AND NEUTRAL BAR, ALL FLEX CUT AWAY. WHERE THE SPD IS REQUIRED TO ACCOUNT FOR VOLTAGE OF THE PANEL (CLOSE NIPILED), TO ENSURE MAXIMUM PERFORMANCE OF THE SPD IN THIS APPLICATION, SPD SHALL BE UL 1449 LISTED 4TH EDITION. SPD SHALL BE MARKED WITH ITS SHORT-CIRCUIT CURRENT RATING. PER NEC 700.8 A LISTED SURGE PROTECTION DEVICE (SPD) SHALL BE INSTALLED IN OR ON ALL EMERGENCY SYSTEM SWITCHBOARDS AND PANELBOARDS.
- V. LIGHTING
1. LIGHTING FIXTURES SHALL BE AS SHOWN ON THE DRAWING AND SHALL BE FURNISHED WITH LAMPS INSTALLED.
2. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CEILING TYPES PRIOR TO ORDERING LIGHT FIXTURES.
3. LIGHT FIXTURES SHALL BE SUPPORTED FROM BUILDING STRUCTURE AND NOT FROM CEILING GRID. SECURE TWO OPPOSITE CORNERS TO STRUCTURE.
4. LUMINAIRES MUST NOT BE INSTALLED LESS THAN 1 1/2 INCHES BELOW METAL ROOF DECKING.
- W. ALL GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NEC REQUIREMENTS. IN ADDITION THERETO AS IMPOSED BY THE DRAWINGS AND THE LOCAL CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION.
- WHEN THE WATER MAIN METAL PIPE IS USED AS A SUPPLEMENTAL ELECTRODE, CONNECTION SHALL BE MADE WITHIN 5 FT. OF POINT OF ENTRANCE OF PIPE INTO THE BUILDING. CONNECTIONS OF CONDUCTORS TO GROUND RODS SHALL BE MADE BY MEANS OF EXOTHERMIC WELD.
- X. SUBMITTALS: SUBMIT VIA E-MAIL FORMATTED AS PDF FILE.
- W. CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED USING AN UL APPROVED SYSTEM. REFER TO ARCHITECTURAL FLOOR PLAN FOR LOCATION OF FIRE RATED PARTITIONS. PROVIDE ACOUSTICAL FOAM SEALANT AT ALL DEVICES ON DEMISING PARTITIONS. IF PARTITION IS FIRE RATED, PROVIDE FIREPROOF COMPOUND ON BACK AND SIDES OF THE BOX. WHERE TELEPHONE AND ELECTRICAL OUTLETS APPEAR ON PLANS AS BACK TO BACK, OUTLETS SHALL BE STAGGERED TO REDUCE NOISE TRANSMISSION. WHERE WALLS AND PARTITIONS ARE REQUIRED TO HAVE A MINIMUM OF 1-HOUR FIRE-RESISTANCE RATING, BOXES SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES OR PROTECTED WITH UL LISTED PUTTY PADS.
- X. PROVIDE LIGHTNING PROTECTION TO ALL ROOF MOUNTED EQUIPMENT PROVIDED WITHIN THIS SCOPE OF WORK IN ACCORDANCE WITH NFPA 780. INTERCONNECT TO EXISTING LIGHTNING PROTECTION SYSTEM.
- Y. ELECTRICAL CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS FOR DEVICE EXACT LOCATIONS, MOUNTING HEIGHTS AND QUANTITIES PRIOR TO BID AND PRIOR TO ROUGH-IN. NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
- Z. REVIEW AND COORDINATE WITH MECHANICAL CONSULTANT DRAWINGS FOR EQUIPMENT, CONDUIT, DEVICES, ETC. REQUIRED FOR A COMPLETE AND OPERATING HVAC SYSTEM. LOW VOLTAGE CONTROL WIRING TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. CHECK ALL MOTORS AND ROTATING EQUIPMENT FOR PROPER ROTATION.
- AA. FINAL QUANTITY OF EXIT AND EMERGENCY LIGHTS TO BE DETERMINED BY FIRE MARSHALL INCLUDE CONTINGENCY FOR 6 ADDITIONAL EXIT LIGHTS AND 6 ADDITIONAL EMERGENCY LIGHTS IN BASE BID.
- BB. PROVIDE BACK BOXES AND RACEWAY FOR DOOR ACCESS CARD READERS AND ELECTRIC STRIKES AS PER SECURITY CONTRACTOR DIRECTIONS. PROVIDE 120VAC TO EACH ELECTRIC STRIKE DOOR LOCATION AND TO ACCESS CONTROL SYSTEM PANEL. ACCESS CONTROL SYSTEM MUST DEACTIVATE OR OPEN ANY DOOR LOCKING MECHANISM AND REMAIN IN FAIL SAFE POSITION WHENEVER FIRE ALARM SYSTEM IS ACTIVATED OR BUILDING POWER FAILS. PROVIDE "PUSH-TO-EXIT" PUSHBUTTON AND MOTION DETECTOR AT EACH ACCESS DOOR LOCATION. INTERLOCK WITH FIRE ALARM SYSTEM.
- CC. ELECTRICAL CONTRACTOR MAY COMBINE CIRCUITS IN A COMMON RACEWAY AS LONG AS CONDUCTORS ARE DERATED AS PER NEC TABLE 310-15. SHARED NEUTRAL SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED. CIRCUITS SHARING A COMMON NEUTRAL MUST HAVE COMMON TRIP CIRCUIT BREAKERS TO ALLOW ALL TO BE TURNED OFF SIMULTANEOUSLY, AS PER NEC 210.4(B).
- DD. ELECTRICAL CONTRACTOR SHALL INCLUDE TRENCHING AND BACKFILLING, CORE DRILLING, CUTTING AND PATCHING FOR THE INSTALLATION OF HIS/HER WORK WITHIN BASE BID.
- EE. CLEAN ALL NEW AND EXISTING ELECTRICAL ENCLOSURE AND BOX INTERIORS PRIOR TO FINAL ACCEPTANCE.
- FF. PROVIDE RED-LINED ELECTRICAL DRAWINGS AT PROJECT COMPLETION.
- GG. CONTRACTOR REPRESENTS THAT HIS BID IS BASED UPON THE MANUFACTURER'S MATERIALS AND EQUIPMENT DESCRIBED IN THE CONTRACT DOCUMENTS.
- HH. ELECTRICAL CONTRACTOR SHALL FILE UTILITY SERVICE INFORMATION LOAD FORMS AND BUILDING DEPARTMENT ELECTRICAL PERMIT FORMS.
- II. THE CEILING SPACE OF THIS PROJECT IS A RETURN AIR PLENUM. ALL MATERIALS IN THIS AREA MUST BE PLENUM RATED AND MEET THE REQUIREMENTS OF SECTION 602 OF THE F.M.C.
- JJ. PRIOR TO TRENCHING IN ANY AREA, THE CONTRACTOR SHALL CONTACT ELECTRICAL, COMMUNICATION, DATA, CABLE TV, GAS, STORM, CHILL WATER, SANITARY AND WATER UTILITY PROVIDERS. HAVE ALL THE UTILITIES IN THE AREA IDENTIFIED. IN ADDITION, THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A SUBCONTRACTOR SPECIALIZING IN THE LOCATION OF UNDERGROUND STRUCTURES, MEMBRANES, ETC. TO IDENTIFIED ANY OBSTACLES IN THE PATH OF TRENCHING PRIOR TO COMMENCING WORK. DAMAGE TO ANY UNDERGROUND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
- KK. ELECTRICAL CONTRACTOR SHALL INSTRUCT OWNER REPRESENTATIVE REGARDING EQUIPMENT OPERATION AND MAINTENANCE AT COMPLETION OF WORK. PROVIDE OWNER WITH ALL MANUALS PERTAINING TO THE PROJECT.
- LL. LOW VOLTAGE CABLES FOR SECURITY SYSTEM, AV SYSTEM, TELEPHONE SYSTEM AND DATA SYSTEM ARE NOT PART OF THIS ENGINEER'S SCOPE OF WORK.
- MM. FOR THE AREAS OF THE BUILDING OR SITE THAT ARE A PART OF THIS PROJECT SCOPE OF WORK, MINIMUM EMERGENCY ILLUMINATION SHALL BE PROVIDED FOR A PERIOD OF 1 1/2 HOURS IN THE EVENT OF NORMAL LIGHTING, OR FIRE ALARM ACTIVATION. EMERGENCY LIGHTING SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOTCANDLE (10 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOTCANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL.

EXISTING CONDITIONS GENERAL NOTES

1. VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
- UTILITIES AND SERVICES INDICATED ARE TAKEN FROM FIELD OBSERVATION AND/OR EXISTING RECORD DOCUMENTS. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS PROBABLY EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND/OR BURIAL DEPTHS, AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE OWNER/ENGINEER, MAY BE NECESSARY. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSIONS OF ALL SITE UTILITIES, ETC., PRIOR TO BID.
2. ELECTRICAL CONTRACTOR SHALL TRACE LIGHTING AND POWER BRANCH CIRCUITS TO IDENTIFY CIRCUITS SERVING AREA WITHIN SCOPE OF WORK. PROVIDE UPDATED TYPEWRITTEN PANEL SCHEDULES AT COMPLETION OF WORK.
3. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS AND CEILINGS TO BE REMOVED. REMOVE EXISTING POWER, LIGHTING, SYSTEMS, MATERIAL AND EQUIPMENT WHICH ARE MADE OBSOLETE OR WHICH INTERFERE WITH THE CONSTRUCTION OF THE PROJECT.
- a) REINSTALL ANY SUCH POWER, LIGHTING, SYSTEMS, MATERIALS AND EQUIPMENT WHICH ARE REQUIRED TO REMAIN ACTIVE FOR THE FACILITY TO BE FULLY FUNCTIONAL.
4. EXISTING OUTLET BOXES AND CONDUIT WHICH ARE LOCATED PROPERLY AND IN GOOD WORKING CONDITION FOR NEW WORK MAY BE REUSED FOR NEW DEVICES AND WIRE.
5. ALL CONDUIT AND WIRE REMOVED SHALL BE TAKEN BACK TO THE SOURCE OF SUPPLY, UNLESS NOTED OTHERWISE.
6. INSTALL A BLANK COVER PLATE WHERE REQUIRED.
7. ALL FIXTURES, DEVICES, ETC., SHALL REMAIN UNLESS OTHERWISE NOTED.
8. EXISTING LIGHT FIXTURES BEING REUSED SHALL BE REPAIRED, CLEANED AND RELAMPED.
9. ALL UNUSED RACEWAYS WITHIN ACCESSIBLE SPACES SHALL BE COMPLETELY REMOVED. ALSO REMOVE ASSOCIATED CONDUCTORS, JUNCTION BOXES, FASTENERS AND SUPPORTS.
10. REMOVE CONDUCTORS FROM EXISTING FLOOR BOXES BEING DEMOLISHED TO SOURCE OF SUPPLY. PATCH SURFACES AS DIRECTED BY GENERAL CONTRACTOR.
11. WHERE EXISTING EQUIPMENT OR MATERIALS ARE REMOVED OR CHANGED, ALL BRANCH CONDUITS, WHICH NO LONGER ARE IN SERVICE, SHALL BE REMOVED AS DIRECTED BY THE OWNER/ENGINEER. IF, IN THE COURSE OF THE WORK, OUTLETS ARE COVERED UP OR OTHERWISE RENDERED INACCESSIBLE, ALL WIRING TO SAME SHALL BE REMOVED TO THE SOURCE. IF A CIRCUIT THAT MUST REMAIN IN SERVICE IS INTERRUPTED THEREBY, IT SHALL BE RECONNECTED BY THE MOST INCONSPICUOUS MEANS SO AS TO REMAIN OPERATIONAL, WITH SAME CAPACITY AS BEFORE. ALL BUILDING SURFACES DAMAGED, AND OPENINGS LEFT BY REMOVAL OF BOXES, PIPING OR OTHER EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR. ALL HOLES LEFT IN JUNCTION BOXES, SWITCHES, PANELS, ETC. SHALL BE CLOSED.
12. WHERE NEW OPENINGS ARE CUT AND CONCEALED CONDUITS, ETC., ARE ENCOUNTERED, THEY SHALL BE REMOVED OR RELOCATED AS REQUIRED. WHERE CONDUIT TO BE REMOVED STUBS THROUGH FLOORS, WALLS, AND CEILINGS, SUCH CONDUIT SHALL BE REMOVED TO THE POINT WHERE THE FINISH SURFACES CAN BE PATCHED ADEQUATELY SO THAT NO EVIDENCE OF THE FORMER INSTALLATION REMAINS.
13. ALL REUSABLE DEVICES, FIXTURES AND EQUIPMENT SHALL BECOME THE PROPERTY OF THE OWNER. ALL OTHER SALVAGE AND DEBRIS SHALL BE REMOVED FROM THE PREMISES DAILY.
14. ABANDONED LOW VOLTAGE CABLES WITHIN CEILING SPACES SHALL BE REMOVED AS PER ARTICLE 800.25 OF THE NFPA-70.
15. THIS CONTRACTOR SHALL FURNISH AND PROVIDE ALL DEMOLITION REQUIRED TO ACCOMMODATE THIS PROJECT WHETHER INDICATED ON DRAWINGS, OR DIRECTED IN THE FIELD.

ELECTRICAL OUTLETS BOXES NOTES

1. AN OUTLET BOX OF THE APPROPRIATE SIZE AND TYPE SHALL BE PROVIDED FOR ALL LIGHTING FIXTURES, SWITCHES, RECEPTACLES, ETC.
2. ALL SWITCHES AND RECEPTACLES SHALL BE SPECIFICATION GRADE 20A MINIMUM UNLESS OTHERWISE NOTED. COORDINATE COLOR WITH ARCHITECT/TOWNER PRIOR TO ORDERING.
3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING OF RECEPTACLES SERVING ELECTRIC WATER COOLERS TO INSURE THAT THE POWER CORD IS FULLY CONCEALED.
4. ALL RECEPTACLES LOCATED OUTDOORS SHALL BE GROUND FAULT AND WEATHER RESISTANT TYPE AND BE PROTECTED BY A HEAVY DUTY RATED METALLIC WEATHERPROOF WHILE-IN-USE COVER.
5. PROVIDE 4" SQUARE BOX AND 1" CONDUIT STUB-UP TO ACCESSIBLE CEILING FOR TELEPHONE AND DATA OUTLETS. TERMINATE CONDUITS 6" ABOVE CEILING IN ACCESSIBLE SPACE WITH 90° BEND INSULATED BUSHINGS AND PULL STRING. COORDINATE WITH OWNER'S DATA/TELEPHONE CONTRACTOR FOR FURTHER ELECTRICAL AND RACEWAY REQUIREMENTS. CABLING BY OTHERS.
6. ALL JUNCTION BOX AND OUTLET COVERS SHALL BE MARKED WITH PANEL, CIRCUIT NUMBER AND VOLTAGE ON THE FRONT FOR BACK OF REMOVE LOCATIONS AND ON THE BACK FOR FRONT OF HOUSE LOCATIONS.
7. PROVIDE LABELS ON POWER POLES INDICATING PANEL AND CIRCUIT NUMBER.
8. JUNCTION BOXES SHALL NOT BE MOUNTED TO THE PARTITION TOP PLATE.
9. PROVIDE ACOUSTICAL FOAM AND SEALANT AT ALL DEVICES ON DEMISING PARTITIONS. IF PARTITION IS FIRE RATED, PROVIDE FIREPROOF COMPOUND ON BACK AND SIDES OF THE BOX.
10. WHERE TELEPHONE AND ELECTRICAL OUTLETS APPEAR ON PLANS AS BACK TO BACK, OUTLETS SHALL BE STAGGERED TO REDUCE NOISE TRANSMISSION. WHERE WALLS AND PARTITIONS ARE REQUIRED TO HAVE A MINIMUM OF 1-HOUR FIRE-RESISTANCE RATING, BOXES SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24" INCHES OR PROTECTED WITH FIREPROOF COMPOUND.
11. WHEN PRICING FLOOR BOXES OF POKE-THRU DEVICES, ELECTRICAL CONTRACTOR SHALL INCLUDE X-RAY OF SLAB, CORE DRILLING, FIREPROOFING, AND PROTECTION OF FLOOR BELOW.

CIRCUIT BREAKERS, DISCONNECT SWITCHES, FUSES OR MOTOR STARTERS FOR MECHANICAL EQUIPMENT ARE SHOWN FOR PRICING AND PERMITTING. CONTRACTOR SHALL REFER TO EQUIPMENT CUTSHEETS AND SUBMITTALS BY OTHER VENDORS AND COORDINATE EXACT REQUIREMENTS PRIOR TO PURCHASING. ADJUST CONDUCTORS SIZES ACCORDINGLY.

KEY PERSONS AND APPROVALS

DESIGNATED FOR	PROFESSIONAL SEAL	PROFESSIONAL NAME	DESIGNATION	INITIALS
PROJECT MANAGER		KELSEY ROBERTS	PROJECT MANAGER	
PROJECT ENGINEER		A. VELAZQUEZ	PROJECT ENGINEER	
PROJECT ARCHITECT		KATHERINE SALINAS	PROJECT ARCHITECT	
PROJECT ELECTRICAL		DEAN KENNEDY	PROJECT ELECTRICAL	
PROJECT MECHANICAL		B. SPANGLER	PROJECT MECHANICAL	
PROJECT PLUMBING		B. SPANGLER	PROJECT PLUMBING	
PROJECT FIRE PROTECTION		B. SPANGLER	PROJECT FIRE PROTECTION	
PROJECT SPECIALTIES		B. SPANGLER	PROJECT SPECIALTIES	
PROJECT DATE		3/15/2024 6:26:52 PM	PROJECT DATE	

Facility Asset Management Design
3401 Vista Blvd.
Lakeland, FL 33803
(888) 734-4334



PROJECT DESIGNED FOR
FRONTIERLAND
TRADING POST
PROJECT J
4850 CARIBBEAN WAY, BAY LAKE, FL 32830
ELECTRICAL SPECIFICATIONS
AND LEGEND

ARCHITECT OR ENGINEER SEAL REVIEW NOT FOR CONSTRUCTION PROJECT IS NOT ACCEPTABLE FOR PERMITTING IF PRINTED OR DIGITIZED WITHOUT REGISTERED P.E. SEAL AND SIGNATURE Bryan G. Spangler, PE. FL Reg. No. 64601	MEP CONSULTING ENGINEERS SINCE 1977 FL REG. NO. 3089 2016 ALDEN RD. ORLANDO, FL 32803 (407) 246-1688 WWW.PERFLA.COM PE PROJECT # 23387	PERMIT NO.: PROJECT NO./PKG. CODE: 042301900 PKG. NO.: DRAWING NO.: REV NO.: E-101
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F

E

D

C

B

A

ELECTRICAL SCHEDULE										
ITEM NO	VOLTS	PHASE	KW	AMPS	HP	CONN TYP	CONN PLUG	ELECTRICAL A.F.F. (IN)	EQUIPMENT CATEGORY	ELECTRICAL REMARKS
1	115V	1	0 VA	18.0 A		SR	5-20P	18"	FREESTYLE BEVERAGE DISPENSER	
3	115V	1	748 VA	6.5 A	1/4	SR	5-15P	84"	BAG N BOX WATER BOOSTER	
5	208V-230V	1	3234 VA	14.0 A		SR	6-20P	32"	ICE MACHINE, WATER-COOLED, SATELLITE	
5.1	208V-230V	1	3234 VA	14.0 A		SR	6-20P	68"	ICE MACHINE, WATER-COOLED, SATELLITE	
9	120V	1	1404 VA	11.7 A		DR	5-15P	48"	KEURIG PLUMBED COFFEE MACHINE	

WIRING DEVICES SCHEDULE	
⌀	20A, 125V, TR, WR, NEMA 5-20R, HEAVY DUTY, SPECIFICATION GRADE, DUPLEX RECEPTACLE
L14-30R	30A, 250V, 1Ø, NEMA L14-30R, HEAVY DUTY, SPECIFICATION GRADE, SINGLE RECEPTACLE, "WP" INDICATES WEATHERPROOF BOX AND WHILE-IN-USE COVER
⌀	TWO (2) 20A, 125V, TR, WR, NEMA 5-20R, HEAVY DUTY, SPECIFICATION GRADE, DUPLEX RECEPTACLES
⌀ GWP	20A, 125V, TR, WR, GFCI, NEMA 5-20R, HEAVY DUTY METALLIC, SPECIFICATION GRADE, DUPLEX RECEPTACLE, "WP" INDICATES WEATHERPROOF BOX AND WHILE-IN-USE COVER
⌀ G	20A, 125V, TR, WR, GFCI, NEMA 5-20R, HEAVY DUTY, SPECIFICATION GRADE, DUPLEX RECEPTACLE
L5-30R	30A, 250V, 3Ø, NEMA L5-30R, HEAVY DUTY METALLIC, SPECIFICATION GRADE, SINGLE RECEPTACLE, "WP" INDICATES WEATHERPROOF BOX AND WHILE-IN-USE COVER
L6-30R	30A, 250V, 1Ø, NEMA L6-30R, HEAVY DUTY METALLIC, SPECIFICATION GRADE, SINGLE RECEPTACLE, "WP" INDICATES WEATHERPROOF BOX AND WHILE-IN-USE COVER
L6-20R	20A, 250V, 1Ø, NEMA L6-20R, HEAVY DUTY METALLIC, SPECIFICATION GRADE, SINGLE RECEPTACLE, "WP" INDICATES WEATHERPROOF BOX AND WHILE-IN-USE COVER
L15-30R	30A, 250V, 3Ø, NEMA L15-30R, HEAVY DUTY METALLIC, SPECIFICATION GRADE, SINGLE RECEPTACLE, "WP" INDICATES WEATHERPROOF BOX AND WHILE-IN-USE COVER
ST-X	SHUNT TRIP, NEMA 3R, BREAK GLASS.
⌀ U	20A, 125V, TR, NEMA 5-20R, SPECIFICATION GRADE DUPLEX RECEPTACLE WITH (2) USB CHARGING PORTS.

GENERAL NOTES:

1. EQUIPMENT MANUFACTURERS SHOWN IN SCHEDULES SHALL BE CONSIDERED BASIS OF DESIGN, HOWEVER OTHER MANUFACTURERS THAT CAN MEET AN EQUIVALENT SPECIFICATION PER THE PROJECT MANUAL WILL BE CONSIDERED.

FACILITY LIGHTING FIXTURE SCHEDULE										
LIGHTING FIXTURE						LAMPS				
FIXT. TYP.	DESCRIPTION	MANUFACTURER (BASIS OF DESIGN)	CATALOG NUMBER	MOUNTING	VOLTS	QTY	TYPES	WATTS	COLOR TEMP *K	NOTE
T1	2' X 2' TROFFER	METALUX	22GR-LD5-50-F1-UNV-L840-CD1-U	RECESSED	120	1	LED	40.4	4000	-
T1E	2' X 2' TROFFER	METALUX	22GR-LD5-60-F1-UNV-L840-CD1-U	RECESSED	120	1	LED	49.6	4000	-
S1	4' LED STRIP	MERCURY	LSA-4-5700-40K-HTA-1%-UNI	RECESSED	120	1	LED	40.4	4000	-
S1E	4' LED STRIP	MERCURY	LSA-4-5700-40K-HTA-1%-UNI	RECESSED	120	1	LED	49.6	4000	-
S2	4' LED STRIP	MERCURY	LSA-4-5700-TW-HTA-1%-UNI	RECESSED	120	1	LED	40.4	2700	-
S2E	4' LED STRIP	MERCURY	LSA-4-5700-TW-HTA-1%-UNI	RECESSED	120	1	LED	49.6	2700	-
X1	EXIT SIGN	EVENLITE	TLX-AC-RU-B	SURFACE/ SUSPENDED	120	1	LED	1.5	-	
NOTES: 1. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS AND FACES. 2. VERIFY CEILING TYPES AND GRID DIMENSIONS PRIOR TO ORDERING LIGHT FIXTURES. 3. VERIFY THAT DIMMERS MATCHES LAMPS PRIOR TO ORDERING.										

FACILITY NORMAL/EMERGENCY LIGHTING CONTROL EQUIPMENT SCHEDULE		
TAG/SYMBOL	DESCRIPTION	MANUFACTURER (BASIS OF DESIGN)
LRP01	FACILITY LIGHTING RELAY PANEL	ETC - ECHO FEED-THRU
FLNP	FACILITY LIGHTING NODE PROCESSOR	ETC CUSTOM
MPLD	MASTER PHASE LOSS DETECTION PANEL	ETC MPLD2
ELTS1	EMERGENCY LIGHTING TRANSFER SYSTEM	ETC ELTS2 MAIN FEED
S _X	OCCUPANCY SENSOR / SWITCH - MANUAL	ETC PARADIGM
DPLD 1,2	DIMMER PHASE LOSS DETECTOR	ETC CUSTOM

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FL Reg. No. 64601



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SINCE 1977
FL REG NO. 3089
2016 ALDEN RD.
ORLANDO, FL
32803
(407) 246-1688
WWW.PERFLA.COM
PE PROJECT #: 23387

PROJECT AREA:
**FRONTIERLAND
TRADING POST
PROJECT J**
4850 CARIBBEAN WAY, BAY LAKE, FL 32830
SHEET TITLE:
SCHEDULES

PERMIT NO.:
PROJECT NO./PKG. CODE:
042301900
PKG NO.:
DRAWING NO.:
REV NO.:
E-102



KEY PERSONS AND APPROVALS

PROJECT MANAGER KELSEY ROBERTS	DESIGNER A. VELAZQUEZ	INITIALS
PROFESSIONAL SEAL KATHERINE SALINAS	B. SPANGLER	
DEAN KENNEDY	B. SPANGLER	
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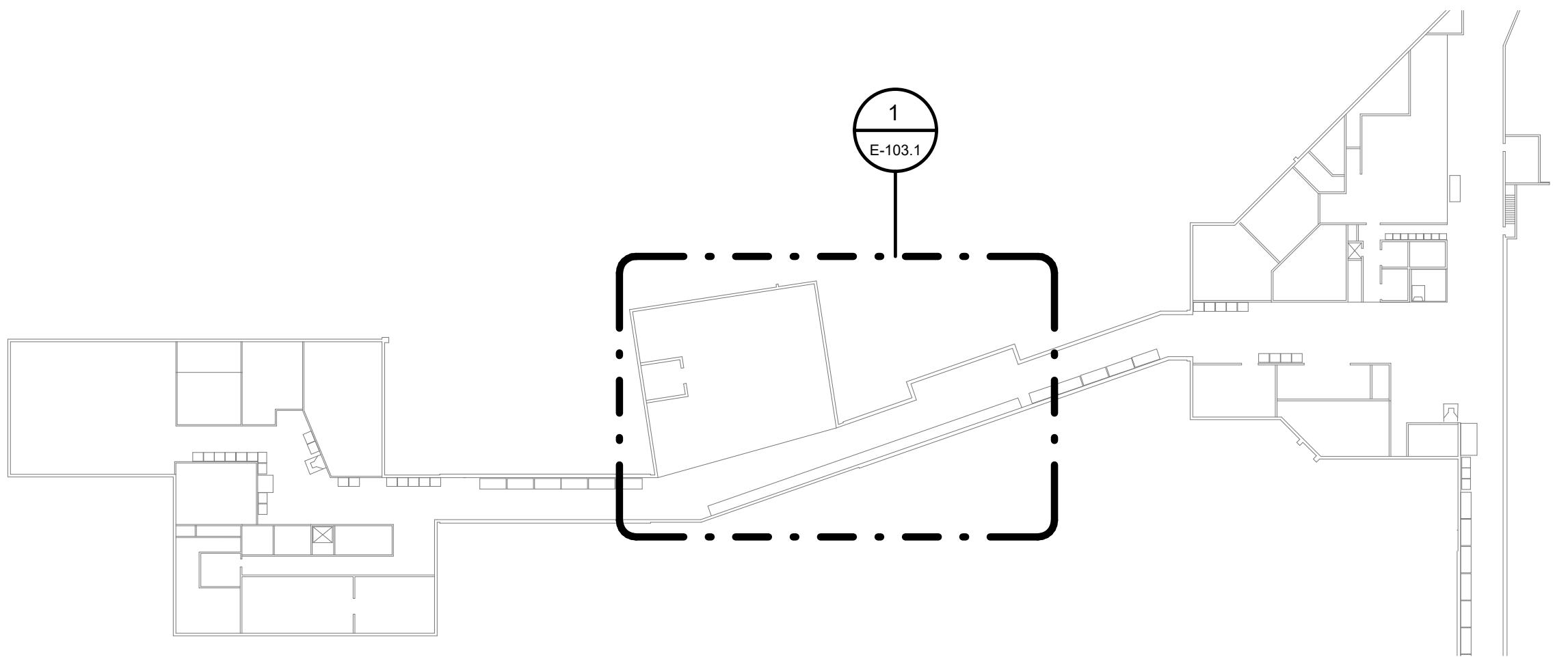
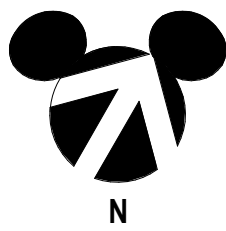
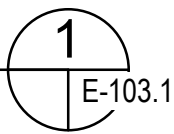
CONTRACTORS SHALL VERIFY ALL CONDITIONS ON SITE AND NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION.

Walt Disney Parks and Resorts U.S., Inc.
QUALIFYING ARCHITECT NO. AR0015037
EBC0084

NO.	DATE	DESCRIPTION OF REVISIONS
1	03/20/24	PERMIT SUBMISSION
2		
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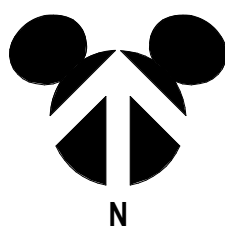
EQUIPMENT LOCATION PLAN - TUNNEL LEVEL

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



TUNNEL LEVEL - AREA KEY PLAN

SCALE: 1" = 50'-0"



ARCHITECT OR ENGINEER SEAL REVIEW NOT FOR CONSTRUCTION PROJECT IS NOT ACCEPTABLE FOR PERMITTING IF PRINTED OR DICKEYED WITHOUT REGISTERED P.E. SEAL AND SIGNATURE Bryan G. Spangler, P.E. NAME: _____ P.E. Reg. No. 64501	 PENINSULA ENGINEERING INC. WWW.PENFLA.COM	MEP CONSULTING ENGINEERS SINCE 1977 FL REG. NO. 3089	PROJECT AREA TRADING PROJECT 4635 CARIBBEAN AVE MIAMI, FL 33155 EQUIPMENT TRUCKS	PERMIT NO.: PROJECT NO./PKG. CODE: 0423001900	PKG. NO.: DRAWING NO.: REV. NO.:
		2016 ALDEN RD. OLANDALE FL 32063 (907) 266-5084	E-103.1		

GENERAL NOTES:

1. REFER TO SPECIFICATIONS AND GENERAL NOTES ON SHEET E-101.
2. ALL DASHED DEVICES, FIXTURES, EQUIPMENT, PANELS, CONDUIT, CONDUCTORS, AND CABLES ETC. SHOWN ON THIS PLAN SHALL BE REMOVED, UNLESS OTHERWISE NOTED.
3. ALL SCREENED DEVICES, FIXTURES, EQUIPMENT, PANELS, CONDUIT, CONDUCTORS, AND CABLES ETC. ARE EXISTING AND SHALL REMAIN UNLESS NOTED OTHERWISE.
4. THERE MAY BE SOME AREAS SHOWN IN BACKGROUND THAT MAY NOT REFLECT CURRENT FIELD CONDITIONS.
5. EXISTING FEEDER AND BRANCH CIRCUIT SOURCES HAVE BEEN TAKEN FROM FIELD INVESTIGATION AND/OR RECORD DOCUMENTS AND SHOWN FOR THE CONVENIENCE OF THE ELECTRICAL CONTRACTOR AND SHALL NOT BE CONSIDERED "AS-BUILT" CONDITION. BEFORE CONSTRUCTION BEGINS, ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CIRCUITS WITHIN SCOPE OF WORK.
6. UNLESS OTHERWISE NOTED, ALL DEVICES, CONDUIT AND CONDUCTORS/CABLES SHOWN ON THE DEMOLITION PLAN SHALL BE REMOVED BACK TO SOURCE.
7. DEVICE LOCATIONS SHOWN ARE APPROXIMATE. REMOVE ALL DEVICES IN WALLS AND CEILINGS BEING REMOVED AND ALL DEVICES THAT INTERFERE WITH NEW CONSTRUCTION. FIELD VERIFY.
8. UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT, DEVICES, CONDUIT, AND CONDUCTORS/ CABLES SHOWN ON THE DEMOLITION PLAN OR OBSERVED IN FIELD OUTSIDE THE AREA OF WORK SHALL REMAIN AND BE PROTECTED IN PLACE THROUGHOUT THE DEMOLITION PROCESS.
9. LOCATIONS SHOWN ON PLAN DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY.
10. REFER TO SINGLE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
11. PROVIDE ALL NECESSARY CONDULETEE AND PULL BOXES ON CONDUIT RUNS SHOWN ON THIS PLAN.
12. REFER TO THE E-900 SERIES DRAWINGS FOR RECORD DOCUMENTS.
13. CONTRACTOR IS RESPONSIBLE TO TRACE AND TAG ALL CONDUCTORS/CONDUITS TO BE DEMOLISHED AND WALK WITH OWNER FOR FINAL APPROVAL PRIOR TO DEMOLITION.
14. RETAIN CIRCUITS FOR REUSE IN RENOVATION WHEREVER PRACTICABLE. LABEL CIRCUITS THAT ARE NOT REUSED AS "SPARE".

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CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION.

KEY PERSONS AND APPROVALS

KELSEY ROBERTS	A. VELAZQUEZ	INITIALS
PROFESSIONAL ID#	00000000	
KATHERINE SALINAS	B. SPANGLER	
PROJECT MANAGER	APPROVED BY:	
DEAN KENNEDY	B. SPANGLER	
DATE:	WBS NO.:	
3/15/2024 6:26:53 PM	1202494.A.F	



FRONTIERLAND
UNIT NAME:
TRADING POST
PROJECT J
4859 CARIBBEAN WAY, BAY LAKE, FL 32830
SHEET TITLE:
EQUIPMENT LOCATION PLAN
- TUNNEL LEVEL

PROJECT NO./PKG. CODE:
042301900

E-103.1

EQUIPMENT LOCATION PLAN - GROUND LEVEL

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

1
E-103.2

GENERAL NOTES:

- REFER TO SPECIFICATIONS AND GENERAL NOTES ON SHEET E-101.
- ALL DASHED DEVICES, FIXTURES, EQUIPMENT, PANELS, CONDUIT, CONDUCTORS, AND CABLES ETC. SHOWN ON THIS PLAN SHALL BE REMOVED, UNLESS OTHERWISE NOTED.
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- THERE MAY BE SOME AREAS SHOWN IN BACKGROUND THAT MAY NOT REFLECT CURRENT FIELD CONDITIONS.
- EXISTING FEEDER AND BRANCH CIRCUIT SOURCES HAVE BEEN TAKEN FROM FIELD INVESTIGATION AND/OR RECORD DOCUMENTS AND SHOWN FOR THE CONVENIENCE OF THE ELECTRICAL CONTRACTOR AND SHALL NOT BE CONSIDERED "AS-BUILT" CONDITION. BEFORE CONSTRUCTION BEGINS, ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CIRCUITS WITHIN SCOPE OF WORK.
- UNLESS OTHERWISE NOTED, ALL DEVICES, CONDUIT AND CONDUCTORS/CABLES SHOWN ON THE DEMOLITION PLAN SHALL BE REMOVED BACK TO SOURCE.
- DEVICE LOCATIONS SHOWN ARE APPROXIMATE. REMOVE ALL DEVICES IN WALLS AND CEILINGS BEING REMOVED AND ALL DEVICES THAT INTERFERE WITH NEW CONSTRUCTION. FIELD VERIFY.
- UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT, DEVICES, CONDUIT, AND CONDUCTORS / CABLES SHOWN ON THE DEMOLITION PLAN OR OBSERVED IN FIELD OUTSIDE THE AREA OF WORK SHALL REMAIN AND BE PROTECTED IN PLACE THROUGHOUT THE DEMOLITION PROCESS.
- LOCATIONS SHOWN ON PLAN DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY.
- REFER TO SINGLE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
- PROVIDE ALL NECESSARY CONDULETTE AND PULL BOXES ON CONDUIT RUNS SHOWN ON THIS PLAN.
- REFER TO THE E-900 SERIES DRAWINGS FOR RECORD DOCUMENTS.
- CONTRACTOR IS RESPONSIBLE TO TRACE AND TAG ALL CONDUCTORS/CONDUITS TO BE DEMOLISHED AND WALK WITH OWNER FOR FINAL APPROVAL PRIOR TO DEMOLITION.
- RETAIN CIRCUITS FOR REUSE IN RENOVATION WHEREVER PRACTICABLE. LABEL CIRCUITS THAT ARE NOT REUSED AS "SPARE".

KEY NOTES:

- THIS PANEL SERVES THE DVC SALES KIOSK AND NEARBY AREA DEVELOPMENT AND MUST REMAIN FULLY OPERATIONAL DURING BUSINESS HOURS. SEE E-501 FOR ADDITIONAL INFORMATION
- THIS PANEL SERVES ADJACENT ISLAND SUPPLY SHOP AND MUST REMAIN FULLY OPERATIONAL BUSINESS HOURS. SEE E-501 FOR ADDITIONAL INFORMATION

PROJECT DESIGNED FOR

PROJECT AREA

FRONTIERLAND

TRADING POST

PROJECT J

EQUIPMENT LOCATION PLAN

- GROUND LEVEL

PROJECT NO. 042301900

PKG. NO. 23387

DRAWING NO. 042301900

REV. NO. 1

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Bryan G. Spangler, P.E.

FL Reg. No. 64601

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FL REG. NO. 3089

2016 ALDEN RD. ORLANDO, FL 32803

(407) 246-1688

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Walt Disney Parks and Resorts U.S., Inc.

QUALIFYING ARCHITECT NO. A00015037

DATE 03/02/24

PERMIT SUBMISSION

ISSUED FOR

DATE

NO. 1

DATE

DESCRIPTION OF REVISIONS

KEY PERSONS AND APPROVALS

PROFESSIONAL SEAL

KELSEY ROBERTS

PROFESSIONAL SEAL

KATHERINE SALINAS

DEAN KENNEDY

3/15/2024 6:26:54 PM

12/20/2024 A.F

Facility Asset Management Design

3401 Vista Blvd. Lake Buena Vista, Florida 32830

(407) 894-6334

INTIALS

A. VELAZQUEZ

B. SPANGLER

B. SPANGLER



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QUALIFYING ARCHITECT NO. A00015037

DATE 03/02/24

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ISSUED FOR

DATE

NO. 1

DATE

DESCRIPTION OF REVISIONS

- 1** PRIOR TO START OF SHOW SET DEMOLITION AND BOH AREAS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY, DISCONNECT, AND "SAFE-OFF" ALL ELECTRICAL POWER SOURCES ORIGINATING WITHIN THIS BUILDING / TUNNEL AND ANY OTHER POWER SOURCE THAT HAVE NOT NECESSARILY BEEN SHOWN ON THESE DOCUMENTS.
- 2** SCOPE OF DEMOLITION OF ELECTRICAL SYSTEMS SHALL INCLUDE DISCONNECTION AND REMOVAL OF ALL FEEDER AND BRANCH CIRCUIT CONDUITS COMPLETELY BACK TO SOURCE. SOURCE CIRCUIT BREAKERS SHALL BE LABELED AS "SPARE". THIS INCLUDES ALL POWER CIRCUITS FEEDING MECHANICAL, PLUMBING, SHOW, AUDIO/VIDEO, LIGHTING, TELECOMMUNICATION, AND LOW VOLTAGE EQUIPMENT AND SYSTEMS.
- 3** COMPONENTS / EQUIPMENT / DEVICES OF THE ELECTRICAL SYSTEM THAT HAVE BEEN DESIGNATED AS SALVAGE BY OWNER WITHIN THE AREA OF WORK WILL BE IN THE SCOPE OF THE ELECTRICAL CONTRACTOR TO REMOVE BEFORE DEMOLITION BEGINS.
- 4** DISCONNECT AND REMOVE DEVICE. RETURN DEVICE TO OWNER. REMOVE CONDUCTORS AND CONDUIT BACK TO POWER SOURCE PANEL.
- 5** DISCONNECT AND REMOVE DEVICE. RETURN DEVICE TO OWNER. REMOVE CONDUCTORS BACK TO THE NEAREST EXISTING DEVICE AND MAINTAIN CIRCUIT CONTINUITY.
- 6** EXISTING LIGHTS TO REMAIN.
- 7** FIXTURE TO BE RELOCATED TO NORTH MEZZANINE AREA. REFER TO E-203 FOR FIXTURE NEW LOCATION.
- 8** REMOVE CONDUCTORS AND CONDUIT BACK TO POWER SOURCE PANEL.

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DISSEMINATORS SHALL VERIFY ALL CONDITIONS ON 03.05.2 AND NOTIFY THE
OWNER OF ANY VARIATIONS FROM ENGINEERING APPROVAL. THESE
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DESIGN MANAGER:	KELEY ROBERTS	DESIGN:	A. VELAZQUEZ
PROFESSIONAL LIAISON:	KATHERINE SALINAS	DRAWN:	B. SPANGLER
PROJECT MANAGER:	DEAN KENNEDY	DATE:	12/02/2024
		DATE:	6:27:16 PM
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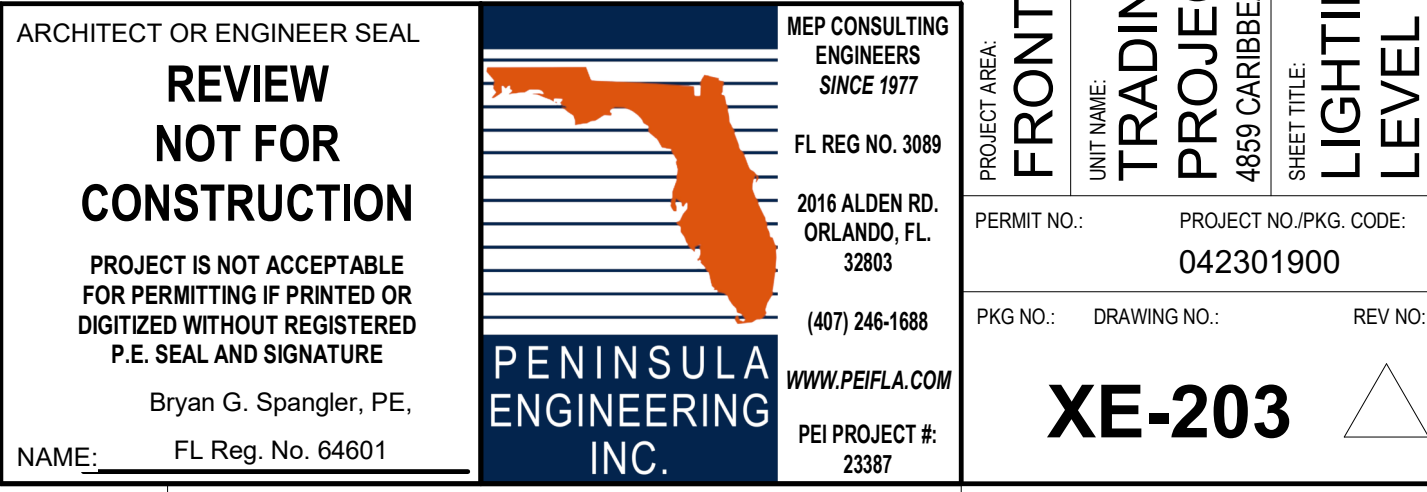
SHEET TITLE:
LIGHTING PLAN - GROUND
LEVEL - DEMO.

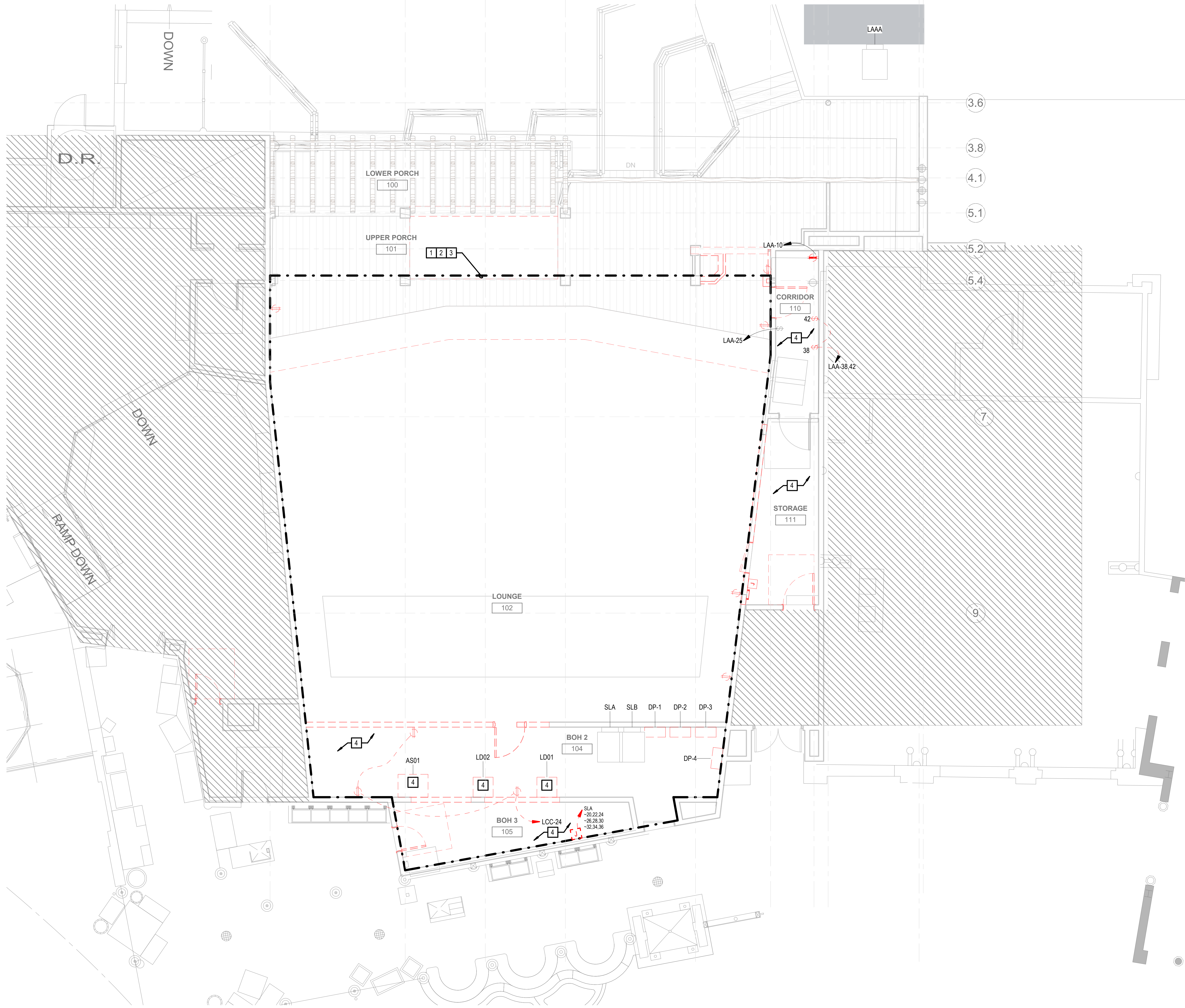
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SCALE: 1/4" = 1'-0"

1
XE-202

SCALE: As indicated





POWER PLAN - GROUND LEVEL - DEMO.

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



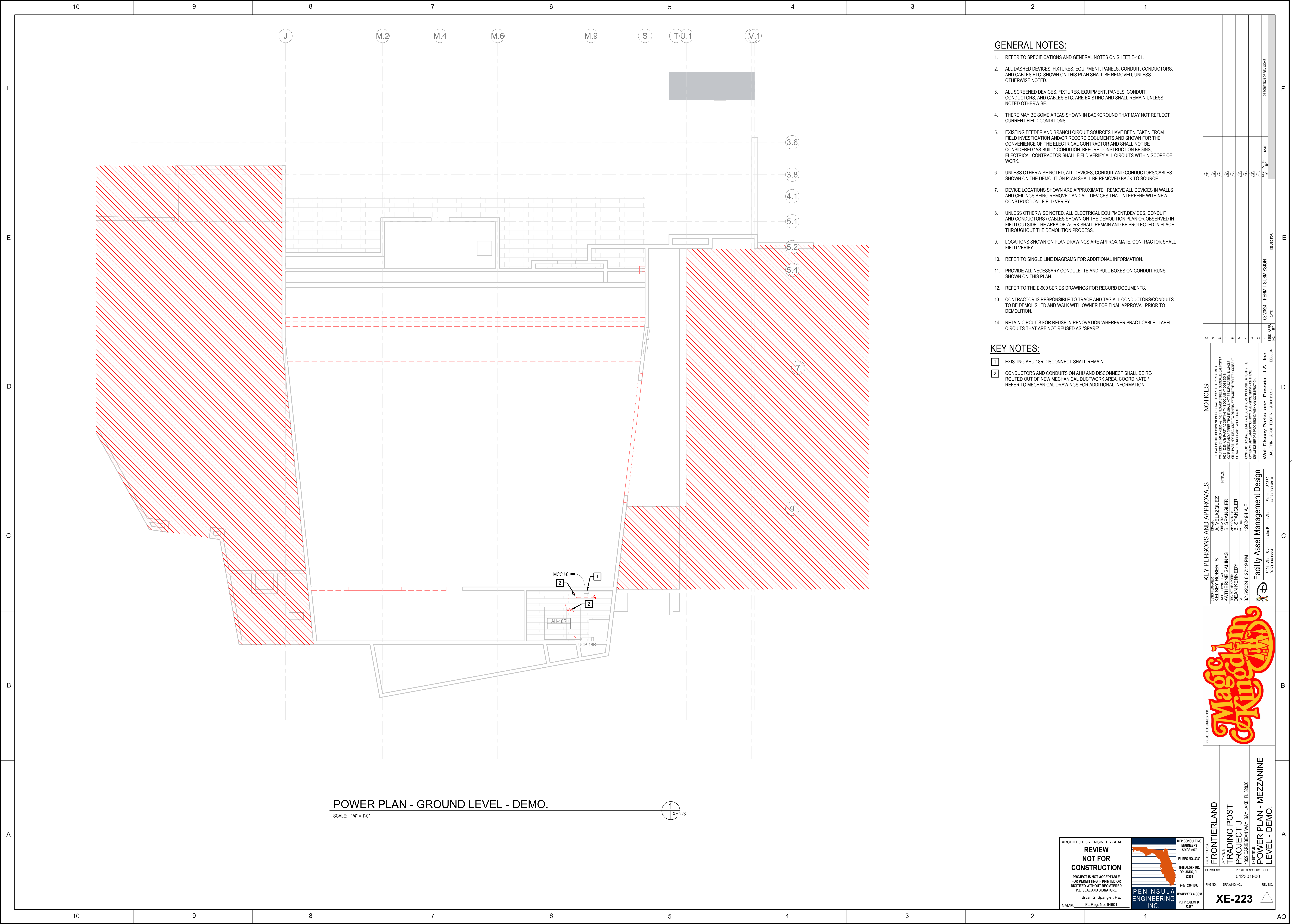
GENERAL NOTES:

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5. EXISTING FEEDER AND BRANCH CIRCUIT SOURCES HAVE BEEN TAKEN FROM FIELD INVESTIGATION AND/OR RECORD DOCUMENTS AND SHOWN FOR THE CONVENIENCE OF THE ELECTRICAL CONTRACTOR AND SHALL NOT BE CONSIDERED "AS-BUILT" CONDITION. BEFORE CONSTRUCTION BEGINS, ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CIRCUITS WITHIN SCOPE OF WORK.
6. UNLESS OTHERWISE NOTED, ALL DEVICES, CONDUIT AND CONDUCTORS/CABLES SHOWN ON THE DEMOLITION PLAN SHALL BE REMOVED BACK TO SOURCE.
7. DEVICE LOCATIONS SHOWN ARE APPROXIMATE. REMOVE ALL DEVICES IN WALLS AND CEILINGS BEING REMOVED AND ALL DEVICES THAT INTERFERE WITH NEW CONSTRUCTION. FIELD VERIFY.
8. UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT DEVICES, CONDUIT, AND CONDUCTORS / CABLES SHOWN ON THE DEMOLITION PLAN OR OBSERVED IN FIELD OUTSIDE THE AREA OF WORK SHALL REMAIN AND BE PROTECTED IN PLACE THROUGHOUT THE DEMOLITION PROCESS.
9. LOCATIONS SHOWN ON PLAN DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY.
10. REFER TO SINGLE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
11. PROVIDE ALL NECESSARY CONDULETTE AND PULL BOXES ON CONDUIT RUNS SHOWN ON THIS PLAN.
12. REFER TO THE E-900 SERIES DRAWINGS FOR RECORD DOCUMENTS.
13. CONTRACTOR IS RESPONSIBLE TO TRACE AND TAG ALL CONDUCTORS/CONDUITS TO BE DEMOLISHED AND WALK WITH OWNER FOR FINAL APPROVAL PRIOR TO DEMOLITION.
14. RETAIN CIRCUITS FOR REUSE IN RENOVATION WHEREVER PRACTICABLE. LABEL CIRCUITS THAT ARE NOT REUSED AS "SPARE".

KEY NOTES:

1. PRIOR TO START OF SHOW SET DEMOLITION, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY, DISCONNECT, AND "SAFE-OUT" ALL ELECTRICAL POWER SOURCES ORIGINATING WITHIN THIS BUILDING / TUNNEL AND ANY OTHER POWER SOURCES THAT HAVE NOT NECESSARILY BEEN SHOWN ON THESE DOCUMENTS.
2. SCOPE OF DEMOLITION OF ELECTRICAL SYSTEMS SHALL INCLUDE DISCONNECTION AND REMOVAL OF ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS COMPLETELY BACK TO SOURCE. SOURCE CIRCUIT BREAKERS SHALL BE LABELED AS "SPARE". THIS INCLUDES ALL POWER CIRCUITS FEEDING MECHANICAL, PLUMBING, SHOW, AUDIO/VIDEO, LIGHTING, TELECOMMUNICATION, AND LOW VOLTAGE EQUIPMENT AND SYSTEMS.
3. COMPONENTS/EQUIPMENT/DEVICES OF THE ELECTRICAL SYSTEM THAT HAVE BEEN DESIGNATED AS SALVAGE BY OWNER WITHIN THE AREA OF WORK WILL BE IN THE SCOPE OF THE ELECTRICAL CONTRACTOR TO REMOVE BEFORE DEMOLITION BEGINS.
4. REFER TO LOW VOLTAGE DRAWING PACKAGE FOR ADDITIONAL INFORMATION.

[illegible]



GENERAL NOTES:

- REFER TO SPECIFICATIONS AND GENERAL NOTES ON SHEET E-101.
- ALL DASHED DEVICES, FIXTURES, EQUIPMENT, PANELS, CONDUIT, CONDUCTORS, AND CABLES ETC. SHOWN ON THIS PLAN SHALL BE REMOVED, UNLESS OTHERWISE NOTED.
- ALL SCREENED DEVICES, FIXTURES, EQUIPMENT, PANELS, CONDUIT, CONDUCTORS, AND CABLES ETC. ARE EXISTING AND SHALL REMAIN UNLESS NOTED OTHERWISE.
- THERE MAY BE SOME AREAS SHOWN IN BACKGROUND THAT MAY NOT REFLECT CURRENT FIELD CONDITIONS.
- EXISTING FEEDER AND BRANCH CIRCUIT SOURCES HAVE BEEN TAKEN FROM FIELD INVESTIGATION AND/OR RECORD DOCUMENTS AND SHOWN FOR THE CONVENIENCE OF THE ELECTRICAL CONTRACTOR AND SHALL NOT BE CONSIDERED "AS-BUILT" CONDITION. BEFORE CONSTRUCTION BEGINS, ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CIRCUITS WITHIN SCOPE OF WORK.
- UNLESS OTHERWISE NOTED, ALL DEVICES, CONDUIT AND CONDUCTORS/CABLES SHOWN ON THE DEMOLITION PLAN SHALL BE REMOVED BACK TO SOURCE.
- DEVICE LOCATIONS SHOWN ARE APPROXIMATE. REMOVE ALL DEVICES IN WALLS AND CEILINGS BEING REMOVED AND ALL DEVICES THAT INTERFERE WITH NEW CONSTRUCTION. FIELD VERIFY.
- UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT, DEVICES, CONDUIT, AND CONDUCTORS / CABLES SHOWN ON THE DEMOLITION PLAN OR OBSERVED IN FIELD OUTSIDE THE AREA OF WORK SHALL REMAIN AND BE PROTECTED IN PLACE THROUGHOUT THE DEMOLITION PROCESS.
- LOCATIONS SHOWN ON PLAN DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY.
- REFER TO SINGLE LINE DIAGRAMS FOR ADDITIONAL INFORMATION.
- PROVIDE ALL NECESSARY CONDULETTE AND PULL BOXES ON CONDUIT RUNS SHOWN ON THIS PLAN.
- REFER TO THE E-900 SERIES DRAWINGS FOR RECORD DOCUMENTS.
- CONTRACTOR IS RESPONSIBLE TO TRACE AND TAG ALL CONDUCTORS/CONDUITS TO BE DEMOLISHED AND WALK WITH OWNER FOR FINAL APPROVAL PRIOR TO DEMOLITION.
- RETAIN CIRCUITS FOR REUSE IN RENOVATION WHEREVER PRACTICABLE. LABEL CIRCUITS THAT ARE NOT REUSED AS "SPARE".

KEY NOTES:

- EXISTING AHU-18R DISCONNECT SHALL REMAIN.
- CONDUCTORS AND CONDUITS ON AHU AND DISCONNECT SHALL BE RE-ROUTED OUT OF NEW MECHANICAL DUCTWORK AREA. COORDINATE / REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

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CONTRACTOR SHALL VERIFY ALL CONDITIONS ON-SITE AND NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION.

Walt Disney Parks and Resorts U.S., Inc.
QUALIFYING ARCHITECT NO. A00015037

KEY PERSONS AND APPROVALS

PROJECT MANAGER
KELSEY ROBERTS
PROFESSIONAL SEAL
KATHERINE SALINAS
PROJECT ENGINEER
DEAN KENNEDY
DATE
3/15/2024 6:27:19 PM
1212494.A.F

DESIGNED BY
A. VELAZQUEZ
CHECKED BY
B. SPANGLER
DATE
3/15/2024 6:27:19 PM
1212494.A.F

Facility Asset Management Design
3401 Vista Blvd.
Lake Buena Vista, Florida 32830
(407) 894-6334



PROJECT AREA
FRONTIERLAND
TRADING POST
PROJECT J
4850 CARIBBEAN WAY, BAY LAKE, FL 32830
SHEET TITLE
POWER PLAN - MEZZANINE
LEVEL - DEMO.

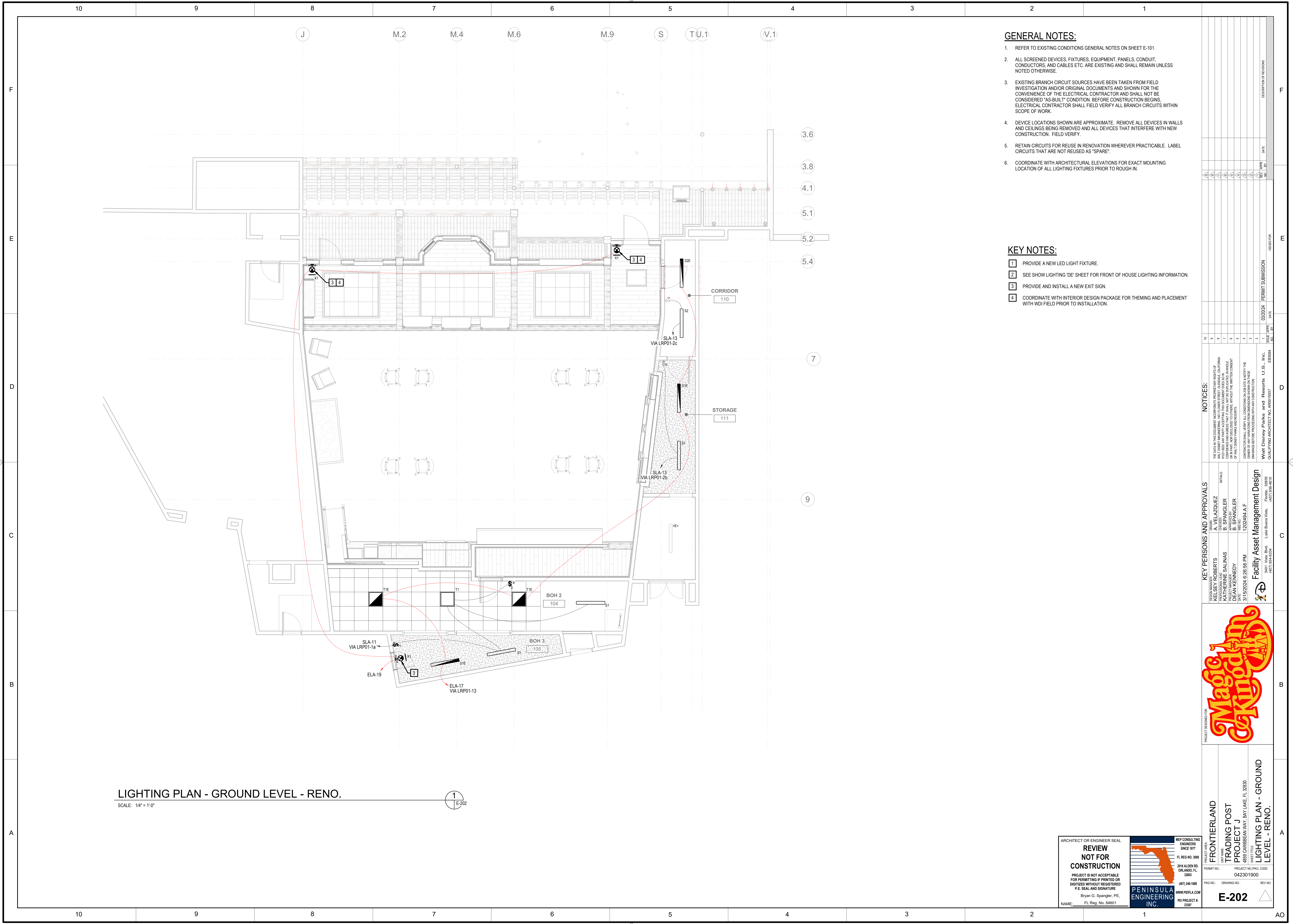
PROJECT NO. 042301900

PKG NO. DRAWING NO. REV NO.

NAME FL Reg. No. 64601

PEI PROJECT # 23387

AE



GENERAL NOTES:

1. REFER TO EXISTING CONDITIONS GENERAL NOTES ON SHEET E-101.
2. ALL SCREENED DEVICES, FIXTURES, EQUIPMENT, PANELS, CONDUITS, AND CABLES ETC. ARE EXISTING AND SHALL REMAIN UNLESS NOTED OTHERWISE.
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5. RETAIN CIRCUITS FOR REUSE IN RENOVATION WHEREVER PRACTICABLE. LABEL CIRCUIT THAT ARE NOT REUSED AS "SPARE".
6. COORDINATE WITH ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING LOCATION OF ALL LIGHTING FIXTURES PRIOR TO ROUGH IN.

KEY NOTES:

- 1 PROVIDE A NEW LED LIGHT FIXTURE.
- 2 SEE SHOW LIGHTING 'DE' SHEET FOR FRONT OF HOUSE LIGHTING INFORMATION.
- 3 PROVIDE AND INSTALL A NEW EXIT SIGN.
- 4 COORDINATE WITH INTERIOR DESIGN PACKAGE FOR THEMING AND PLACEMENT WITH WDI FIELD PRIOR TO INSTALLATION.

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CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY VARIATIONS FROM IMAGINATIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION.

Walt Disney Parks and Resorts U.S., Inc.

KEY PERSONS AND APPROVALS

DESIGN NUMBER	KELSEY ROBERTS	DRAWN	A. VELAZQUEZ
PROFESSIONAL LEAD	KATHERINE SALINAS	DESIGNED	B. SPANGLER
PROJECT MANAGER	DEAN KENNEDY	APPROVED BY:	B. SPANGLER
DATE	3/15/2024 6:26:56 PM	NSG NO.	1202494 A.F



FRONTIERLAND

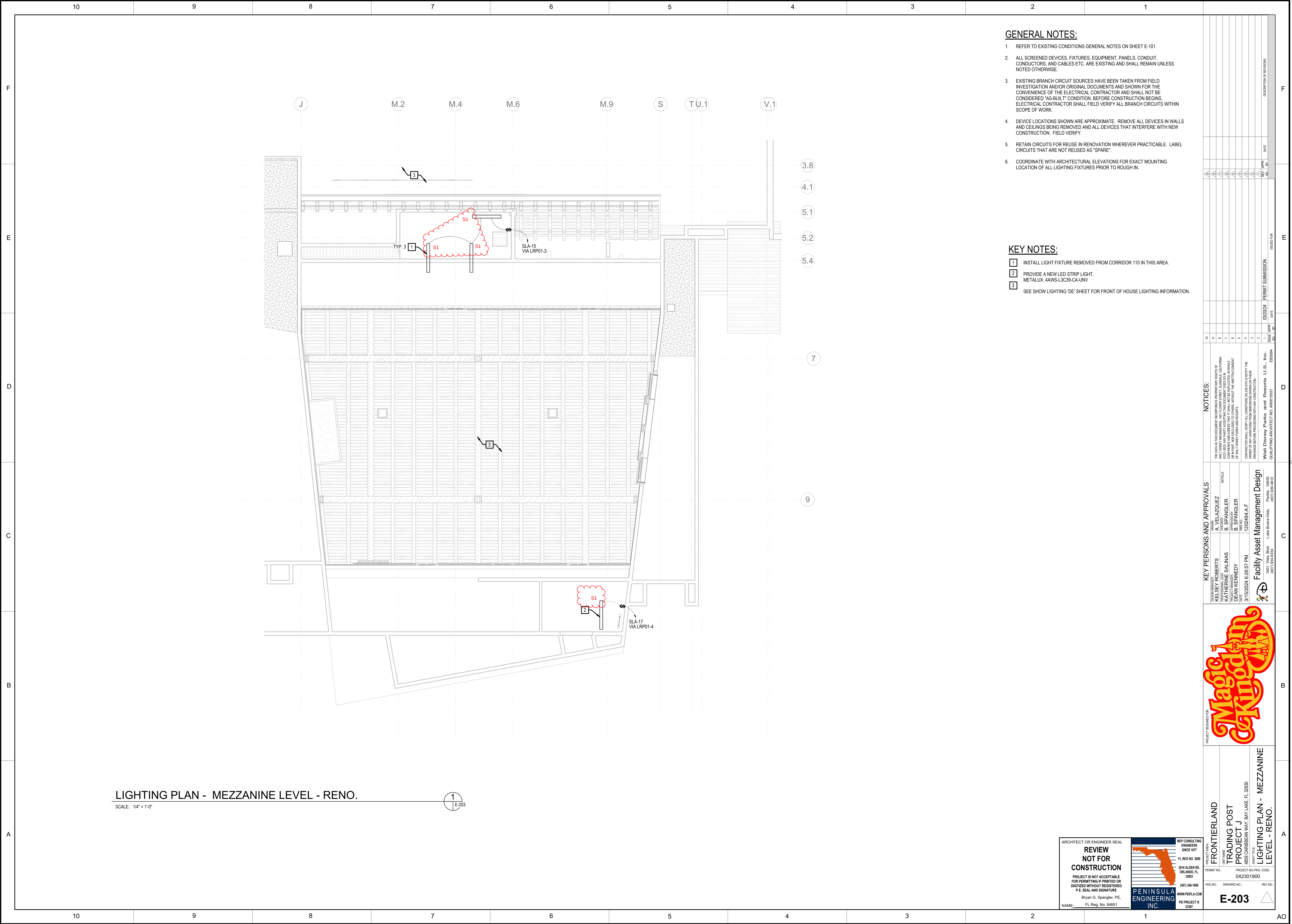
UNIT NAME:
TRADING POST
PROJECT J
4859 CARIBBEAN WAY, BAY LAKE, FL 32830

SHEET TITLE:
LIGHTING PLAN - GROUND
LEVEL/ PENO

MIT NO.: PROJECT NO./PKG. CODE
042301900

NO.:	DRAWING NO.:	REV. NO.:
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E-202



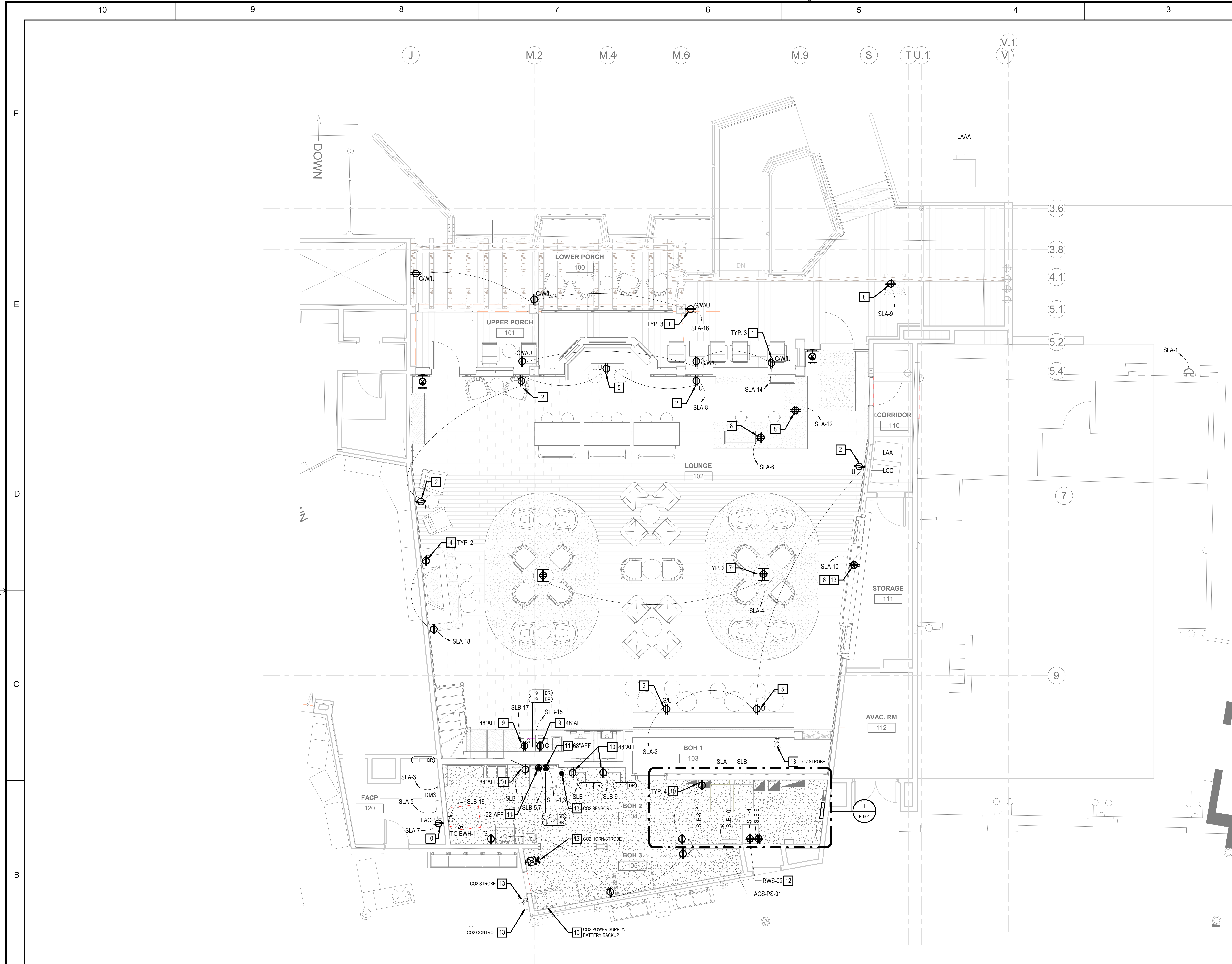
GENERAL NOTES:

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- DEVICE LOCATIONS SHOWN ARE APPROXIMATE. REMOVE ALL DEVICES IN WALLS AND CEILINGS BEING REMOVED AND ALL DEVICES THAT INTERFERE WITH NEW CONSTRUCTION. FIELD VERIFY.
- RETAIN CIRCUITS FOR REUSE IN RENOVATION WHEREVER PRACTICABLE. LABEL CIRCUITS THAT ARE NOT REUSED AS "SPARE".
- COORDINATE WITH ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING LOCATION OF ALL LIGHTING FIXTURES PRIOR TO ROUGH IN.

KEY NOTES:

- INSTALL LIGHT FIXTURE REMOVED FROM CORRIDOR 110 IN THIS AREA.
- PROVIDE A NEW LED STRIP LIGHT.
METALUX: 4AWS-43C39-CA-UNV
- SEE SHOW LIGHTING 'DE' SHEET FOR FRONT OF HOUSE LIGHTING INFORMATION.

PROJECT DESIGNED FOR		PROJECT AREA		KEY PERSONS AND APPROVALS		NOTICES:		ISSUED FOR		DESCRIPTION OF REVISIONS	
FRONTIERLAND		MAGIC KINGDOM		DESIGNER A. VELAZQUEZ		THE DATA IN THIS DOCUMENT INCORPORATE PROPRIETARY RIGHTS OF WALT DISNEY MANAGEMENT COMPANY AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN CONSENT OF WALT DISNEY PARKS AND RESORTS.		PERMIT SUBMISSION		DATE	
TRADING POST		PROJECT J		CHECKER KATHERINE SALINAS		CONTRACTOR SHALL VERIFY ALL CONDITIONS ON SITE AND NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION.		DATE		DATE	
4657 CARIBBEAN WAY, BAY LAKE, FL 32830		042301900		APPROVER DEAN KENNEDY		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
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PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6:26:57 PM		Walt Disney Parks and Resorts U.S., Inc.		03/20/24		03/20/24	
PROJECT NO. 042301900		PROJECT NO. 042301900		DATE 3/15/2024 6							



POWER PLAN - GROUND LEVEL - RENO.

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



GENERAL NOTES

1. REFER TO EXISTING CONDITIONS GENERAL NOTES ON SHEET E-101.
2. ALL SCREENED DEVICES, FIXTURES, EQUIPMENT, PANELS, CONDUIT, CONDUCTORS, AND CABLES ETC. ARE EXISTING AND SHALL REMAIN UNLESS NOTED OTHERWISE.
3. EXISTING BRANCH CIRCUIT SOURCES HAVE BEEN TAKEN FROM FIELD INVESTIGATION AND/OR ORIGINAL DOCUMENTS AND SHOWN FOR THE CONVENIENCE OF THE ELECTRICAL CONTRACTOR AND SHALL NOT BE CONSIDERED "AS-BUILT" CONDITION BEFORE CONSTRUCTION BEGINS. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL BRANCH CIRCUITS WITHIN SCOPE OF WORK.
4. UNLESS OTHERWISE NOTED, ALL DEVICES, CONDUIT AND CONDUCTORS/CABLES SHOWN ON THE DEMOLITION PLAN SHALL BE REMOVED BACK TO SOURCE.
5. DEVICE LOCATIONS SHOWN ARE APPROXIMATE. REMOVE ALL DEVICES IN WALLS AND CEILINGS BEING REMOVED AND ALL DEVICES THAT INTERFERE WITH NEW CONSTRUCTION. FIELD VERIFY.
6. RETAIN CIRCUITS FOR REUSE IN RENOVATION WHEREVER PRACTICABLE. LABEL CIRCUITS THAT ARE NOT REUSED AS "SPARE".
7. PROVIDE TYPED, UPDATED PANEL SCHEDULES UPON COMPLETION OF WORK.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF EQUIPMENT DISCONNECTING MEANS WITH MECHANICAL CONTRACTOR AND/OR VENDOR PRIOR TO ROUGH-IN. VERIFY THAT PROPER CLEARANCES ARE KEPT.
9. ALL DEVICES IN FRONT OF HOUSE GUEST AREA SHALL BE COORDINATE ARCHITECTURAL AND INTERIOR DRAWING PACKAGES AND WDI FIELD REP. FOR EXACT MOUNTING HEIGHTS.
10. ALL RECEPTACLES SHALL BE CENTERED WITHIN WOODEN WALL PLANKS.

KEY NOTES

- 1 PROVIDE A 20A, 125V, NEMA 5-20R, TR, WR, SPECIFICATION GRADE DUPLEX RECEPTACLE WITH SELF-TEST GFCI WITH USB TYPE A/C OUTLET, MOUNTED AT 20" AFF. PROVIDE A EXTRA HEAVY DUTY WHILE-IN-USE COVER.
- 2 PROVIDE A 20A, 125V, NEMA 5-20R, TR, SPECIFICATION GRADE DUPLEX RECEPTACLE WITH USB TYPE A/C OUTLET, MOUNTED AT 20" AFF.
- 3 PROVIDE A 20A, 125V, NEMA 5-20R, TR, SPECIFICATION GRADE DUPLEX RECEPTACLE, MOUNTED AT 20" AFF, UNLESS OTHERWISE NOTED.
- 4 PROVIDE A 20A, 125V, NEMA 5-20R, TR, SPECIFICATION GRADE DUPLEX RECEPTACLE, MOUNTED HORIZONTAL AT 3' TO CETER BELOW FIREPLACE MANTEL. COORDINATE EXACT MOUNTING PLACEMENT WITH INTERIOR AND MILLWORK PACKAGE.
- 5 PROVIDE A 20A, 125V, NEMA 5-20R, TR, SPECIFICATION GRADE DUPLEX RECEPTACLE WITH SELF-TEST GFCI WITH USB TYPE A/C OUTLET, MOUNTED AT 12" AFF. ON FRONT FACE OF BANQUETTE SEATING.
- 6 PROVIDE (2) 20A, 125V, NEMA 5-20R, TR, SPECIFICATION GRADE DUPLEX RECEPTACLE IN A 2-GANG BOX FOR TV MOUNTED WITH MILLWORK. COORDINATE EXACT MOUNTING PLACEMENT WITH INTERIOR, LOW VOLTAGE AND MILLWORK PACKAGE.
- 7 PROVIDE (2) 20A, 125V, NEMA 5-20R, TR, SPECIFICATION GRADE DUPLEX RECEPTACLE IN A FLUSH MOUNTED FLOOR BOX. COORDINATE UNDER SLAB 1" CONDUIT RUNS WITH LOW VOLTAGE AND STRUCTURAL PACKAGES. HUBBELL# H2433(BOX) OR EQUAL. COORDINATE FLANGE AND COVER COLOR SELECTION AND EXACT PLACEMENT WITH WDI FIELD PRIOR TO PURCHASE ORDER.
- 8 PROVIDE (2) 20A, 125V, NEMA 5-20R, TR, SPECIFICATION GRADE DUPLEX RECEPTACLE IN A 2-GANG BOX AT CHECK-IN DESK WITH MILLWORK. COORDINATE EXACT MOUNTING PLACEMENT WITH MILLWORK PACKAGE.
- 9 PROVIDE A 20A, 125V, NEMA 5-20R, TR, SPECIFICATION GRADE DUPLEX RECEPTACLE WITH SELF-TEST GFCI.
- 10 PROVIDE A 20A, 125V, NEMA 5-20R, TR, SPECIFICATION GRADE SINGLE-PLEX RECEPTACLE.
- 11 PROVIDE A 20A, 250V, NEMA 6-20R, TR, SPECIFICATION GRADE SINGLE-PLEX RECEPTACLE.
- 12 COORDINATE RECEPTACLE LOCATIONS FOR RWS-02 WITH LOW VOLTAGE PACKAGE.
- 13 CO2 SYSTEM MONITORING EQUIPMENT. SEE SHEET E-602 FOR SPECIFICATIONS.
- 14 TV CIRCUIT SHALL BE FED BY A FEED THOUGH RELAY CONTROLLED BY FIRE ALARM SYSTEM. REFER TO FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION.

[illegible]

NEW PANEL

PANELBOARD SCHEDULE:

1766-LRP01

FED FROM:

MIXED

PANEL MANUFACTURER:

ETC-ECHO Feedthrough ERP24

LOCATION:

BOH 104

120

VOLTAGE

1

NEMA

☒

NEW

☒

BOLT-ON

☒

NORMAL

SINGLE PANEL

☒

1

PHASE

NA

BUS (AMPS)

☐

EXISTING

☐

PLUG-IN

☐

STAND-BY

DOUBLE PANEL

☐

2

WIRE

NA

MCB (AMPS)

☒

INDOOR

☐

M.C.B.

☒

EMERGENCY

SURFACE MOUNTED

☒

18

KAIC

NA

FEEDER (AMPS)

☐

OUTDOOR

☒

M.L.O.

☐

U.P.S.

RECESSED MOUNTED

☐

NOTES	IDENTIFICATION	INPUT CKT.	RELAY NO.	RELAY NO.	INPUT CKT.	IDENTIFICATION	NOTES	
	BOH2 RM.104 & BOH3 RM.105 - LGTS	SLA-11	1	2	SLA-13	CORRIDOR RM.110 & STORAGE RM.111 - LGTS		
	FRONT ATTIC AREA LGTS	SLA-15	3	4	SLA-17	BOH MEZZANINE LGT		
	SPARE		5	6		SPARE		
	SPARE		7	8		SPARE		
	SPARE		9	10		SPARE		
	SPARE		11	12		SPARE		
	VOLTAGE BARRIER							
	DVC LOUNGE BOH LIGHTS RM.104, 105	ELA-17	13	14		SPARE		
	SPARE		15	16		SPARE		
SPARE		17	18		SPARE			
SPARE		19	20		SPARE			
SPARE		21	22		SPARE			
SPARE		23	24		SPARE			

NOTES:

1. PROVIDE 120V / SINGLE PHASE FEEDTHROUGH 24-WAY RELAY PANEL WITH 24 RELAYS, UL924 LISTED EMERGENCY CONTROL BYPASS CONTACT INPUT AND VOLTAGE BARRIER FOR NORMAL / EMERGENCY MIXED USED.

EXISTING CONDITION

[illegible]

EXISTING CONDITION

FED FROM: DLD

PANEL BOARD SCHEDULE: <E>SLA

208/120 VOLTS 3 PHASE 4 WIRE 10 kAIC 225 AMPS 225 MCB
 TYPE: SQ-D; NQGB LOCATION: MK SHOOTING GALLER BOH NEMA: 1

NEW/	BOLT-ON X	NORMAL X	SINGLE PANEL X
EXISTING X	PLUG-IN X	STAND-BY X	DOUBLE PANEL X
INDOOR X	M.C.B. X	EMERGENCY X	SURFACE X
OUTDOOR X	M.L.O. X	U.P.S X	RECESSED X

NOTE	CK T#	Circuit Description	Trip	Pole s	A	B	C	A	B	C	Pole s	Trip	Circuit Description	CK T#	NOTE
1	3	PADD 01, 02	20 A	2	0 VA			0 VA			2	20 A	PADD 03, 04	2	
3			20 A	1		0 VA			0 VA			20 A	PADD 07	4	
5		PADD 05	20 A	1			0 VA			0 VA	1	20 A	PADD 08	6	
7		PADD 06	20 A	1	0 VA			0 VA			1	20 A	PADD 08	8	
9			20 A	1		0 VA			0 VA		1	20 A	LD01	10	
11		AS 01	20 A	2			0 VA			0 VA	1	20 A	LD02	12	
13		CONTROL RELAY	20 A	1	0 VA			0 VA			1	20 A	SPARE	14	
15		SHOW LTL PNL	20 A	1		0 VA			--		1	--	SPACE	16	
17		CONTROL HUB RECP 301	20 A	1			0 VA			--	1	--	SPACE	18	
19		JAGURAR GAG	20 A	1	0 VA			0 VA			3	20 A	SOMK GAG	20	
21		CONTROL HUB 301	20 A	1		0 VA			0 VA					22	
23		CONTROL HUB 301	20 A	1			0 VA			0 VA				24	
25		CONTROL HUB RECP 301	20 A	1	0 VA			0 VA						26	
27		COBRA GAG	20 A	1		0 VA			0 VA		3	20 A	SOMK GAG	28	
29		SPARE	20 A	1			0 VA			0 VA				30	
31		SPACE	--	1	--			0 VA						32	
33		SPACE	--	1		--			0 VA		3	20 A	SOMK GAG	34	
35		SPACE	--	1			--			0 VA				36	
37		SPARE	20 A	1	0 VA			--		0 VA	1	--	SPACE	38	
39			50 A	2		0 VA			0 VA		2	50 A	SPARE	40	
41		SPARE					0 VA			0 VA				42	
Total Load:				0 VA			0 VA			0 VA					
Total Amps:				0 A			0 A			0 A					

Panel Totals

TOTAL AMPS "A" PHASE: 0 A
 TOTAL AMPS "B" PHASE: 0 A
 TOTAL AMPS "C" PHASE: 0 A

MAXIMUM CONNECTED PHASE AMPS:
 MAXIMUM CONNECTED KVA:
 TOTAL DEMAND AMPS:
 TOTAL DEMAND KVA:

Notes:

REVISED CONDITIONREVISED CONDITION

FED FROM: DLD

PANEL SCHEDULE: SLA

208/120 VOLTS3 PHASE5 WIRE10 K&C225 AMPS225 MCB

TYPE: SQ-D, NQGBLOCATION: FRONTIERLAND LOUNGENEMA: 1

NEW/		BOLT-ON X		NORMAL X		SINGLE P. PANEL X														
EXISTING X		PLUG-IN		STAND-BY		DOUBLE PANEL X														
INDOOR X		M.C.B. X		EMERGENCY		SURFACE X														
OUTDOOR		M.L.O.		U.P.S.		RECESSED														
NOTE	CK T#	Circuit Description				Pole s	A	B	C	A	B	C	Pole s	Trip	Circuit Description				CK T#	NOTE
	1	FIRE BELL				20 A	1	60 VA		540 VA			1	20 A	SOUTH & EAST LOUNGE RECPTS				2	
	3	DMS PANEL IN FACP ROOM				20 A	1	500 VA		720 VA			1	20 A	LOUNGE FLOOR BOX RECPTS				4	
1	5	FACP				20 A	1		1200 VA				1	20 A	CHECK-IN COUNTER RECPT - SOUTH				6	
	7	FACP ROOM RECPT				20 A	1	180 VA		720 VA			1	20 A	NORTH & WEST LOUNGE RECPTS				8	
	9	CHECK-IN PODIUM RECPT				20 A	1	360 VA		500 VA			1	20 A	EAST LOUNGE TV RECPT				10	
	11	BOH2 RM.104 & BOH3 RM.105 - LGTS				20 A	1		130 VA				1	20 A	CHECK-IN COUNTER RECPT - EAST				12	
	13	CORRIDOR RM.110 & STORAGE RM.11...				20 A	1	80 VA		540 VA			1	20 A	EXTERIOR UPPER PORCH RECPTS				14	
	15	FRONT ATTIC AREA LGTS				20 A	1	120 VA		540 VA			1	20 A	EXTERIOR LOWER PORCH RECPTS				16	
	17	BOH MEZZANINE LGT				20 A	1	40 VA					1	20 A	WEST LOUNGE FIRE PLACE RECPTS				18	
	19																		20	
	21																		22	
	23																		24	
	25																		26	
	27																		28	
	29																		30	
	31																		32	
	33	SPACE				--	1	--		--			1	--	SPACE				34	
	35	SPACE				--	1	--		--			--	1	SPACE				36	
	37	SPACE				--	1	--		--			1	--	SPACE				38	
	39	SPACE				--	1	--		--			1	--	SPACE				40	
	41	SPACE				--	1	--		--			1	--	SPACE				42	
Total Load:						2120 VA		2740 VA		2450 VA										
Total Amps:						18 A		23 A		21 A										

[illegible]

EXISTING CONDITION

FED FROM: EHA-16,18,20														
PANELBOARD SCHEDULE: (E)ELA														
208/120 VOLTS		3 PHASE	4 WIRE	10 kAIC	225 AMPS	125 MCB	NEW EXISTING			BOLT-ON PLUG-IN	NORMAL STAND-BY	SINGLE PANEL DOUBLE PANEL		
TYPE: SQ-D NQ		LOCATION: FRONTIERLAND - TUNNEL				NEMA: 1	INDOOR			M.C.B. X	EMERGENCY X	SURFACE X		
							OUTDOOR			M.L.O.	U.P.S	RECESSED		
NOTE	CK T #	Circuit Description										CK T #	NOTE	
	1	SPARE	20 A	1	0 VA		0 VA			1	20 A	EXISTING LOAD	2	
	3	STAIR / HALL LIGHTS	20 A	1		0 VA		0 VA		1	20 A	EXISTING LOAD	4	
	5	EXISTING LOAD	20 A	1			0 VA		0 VA	1	20 A	STAIR / STORAGE / ELEV LIGHTS	6	
	7	EXISTING LOAD	20 A	1	0 VA			0 VA		1	20 A	SPARE	8	
	9	EER / 3RD FLOOR LIGHT	20 A	1		0 VA		0 VA		1	20 A	EXISTING LOAD	10	
	11	EXISTING LOAD	20 A	1					0 VA	1	20 A	EXISTING LOAD	12	
	13	EXISTING LOAD	20 A	1	0 VA			0 VA		1	20 A	EXISTING LOAD	14	
	15	MERCANTILE / T.P. LIGHT	20 A	1		0 VA		0 VA		1	20 A	EXISTING LOAD	16	
	17	SPARE	20 A	1			0 VA		0 VA	1	20 A	SPARE	18	
	19	SPARE	20 A	1	0 VA			0 VA		1	20 A	BOOT ROOM RECEPT	20	
	21	SHOOTING GALLERY EXTERIOR LIGHT	20 A	1		0 VA		0 VA		1	20 A	EXISTING LOAD	22	
	23	AVAC RECEPT / LIGHT	20 A	1			0 VA		0 VA	1	20 A	EXISTING LOAD	24	
	25	EXISTING LOAD	20 A	1	0 VA			0 VA		1	20 A	ELTS	26	
	27	ADV/LAND POLE LIGHT UP LIGHT	20 A	1		0 VA		0 VA		3	100 A	ELTS	28	
	29	EXISTING LOAD	20 A	1			0 VA		0 VA				30	
	31	EXISTING LOAD	20 A	1	0 VA			0 VA		1	20 A	SPARE	32	
	33	ELEV CAB LIGHT	20 A	1		0 VA			0 VA				34	
	35	ELEV LANDING LIGHT	20 A	1			0 VA			0 VA	3	60 A	PANEL 'ELL'	36
	37	SPARE	20 A	1	0 VA			0 VA		1	20 A	FRONTIERLAND POST LIGHT	38	
	39	SPARE	20 A	1		0 VA		0 VA		1	20 A	FRONTIERLAND TOWER LIGHT	40	
	41	SPARE	20 A	1			0 VA		0 VA	1	20 A	FRONTIERLAND POST LIGHT	42	
	43	SPARE	20 A	1	0 VA			0 VA		1	20 A	SPARE	44	
	45	SPARE	20 A	1		0 VA		0 VA		1	20 A	SPARE	46	
	47	SPARE	20 A	1			0 VA		0 VA	1	20 A	SPARE	48	
	49				0 VA			0 VA		1	20 A	SPARE	50	
	51	VERIS METER	15 A	3		0 VA		0 VA		1	20 A	SPARE	52	
	53					0 VA			0 VA	1	20 A	SPARE	54	
Total Load:					0 VA		0 VA		0 VA					
Total Amps:					0 A		0 A		0 A					
Panel Totals														
TOTAL AMPS "A" PHASE: 0 A				MAXIMUM CONNECTED PHASE AMPS: 0 A				TOTAL DEMAND AMPS: 0 A						
TOTAL AMPS "B" PHASE: 0 A				MAXIMUM CONNECTED KVA: 0 VA				TOTAL DEMAND KVA: 0 VA						
TOTAL AMPS "C" PHASE: 0 A				TOTAL DEMAND KVA: 0 VA										
Notes:														

REVISED CONDITION

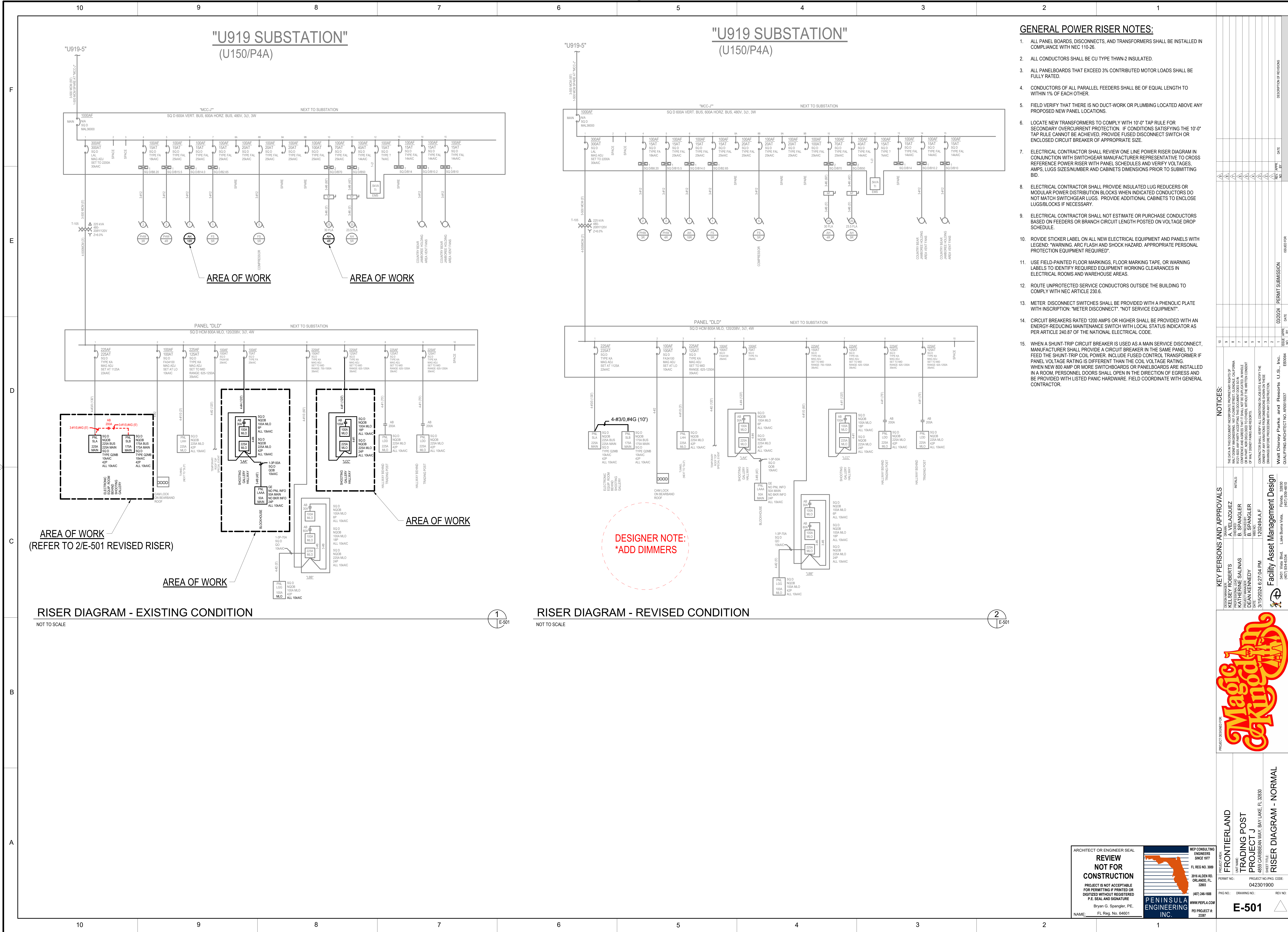
FED FROM: EHA-16,18,20															
PANELBOARD SCHEDULE: ELA															
208/120 VOLTS		3 PHASE	4 WIRE	10 kAIC	225 AMPS	125 MCB	NEW EXISTING			BOLT-ON PLUG-IN	NORMAL STAND-BY	SINGLE PANEL DOUBLE PANEL			
TYPE: SQ-D NQ		LOCATION: FRONTIERLAND - TUNNEL				NEMA: 1	INDOOR			M.C.B. X	EMERGENCY X	SURFACE X			
							OUTDOOR			M.L.O. U.P.S. RECESSED					
NOTE	CK T#	Circuit Description	Trip	Pole s	A	B	C	A	B	C	Pole s	Trip	Circuit Description	CK T#	NOTE
	1	SPARE	20 A	1				0 VA			1	20 A	EXISTING LOAD	2	
	3	STAIR / HALL LIGHTS	20 A	1		0 VA			0 VA		1	20 A	EXISTING LOAD	4	
	5	EXISTING LOAD	20 A	1			0 VA			0 VA	1	20 A	STAIR / STORAGE / ELEV LIGHTS	6	
	7	EXISTING LOAD	20 A	1	0 VA			0 VA			1	20 A	SPARE	8	
	9	EER / 3RD FLOOR LIGHT	20 A	1		0 VA			0 VA		1	20 A	EXISTING LOAD	10	
	11	EXISTING LOAD	20 A	1			0 VA			0 VA	1	20 A	EXISTING LOAD	12	
	13	EXISTING LOAD	20 A	1	0 VA			0 VA			1	20 A	EXISTING LOAD	14	
	15	MERCANTILE / T.P. LIGHT	20 A	1		0 VA			0 VA		1	20 A	EXISTING LOAD	16	
	17	DVC LOUNGE BOH LIGHTS RM 104, 105	20 A	1			219 VA			0 VA	1	20 A	SPARE	18	
	19	DVC LOUNGE EXIT SIGNS	20 A	1	13 VA			0 VA			1	20 A	BOOT ROOM RECEPT	20	
	21	SPARE	20 A	1		0 VA			0 VA		1	20 A	EXISTING LOAD	22	
	23	AVAC RECEPT / LIGHT	20 A	1			0 VA			0 VA	1	20 A	EXISTING LOAD	24	
	25	EXISTING LOAD	20 A	1	0 VA			0 VA			3	100 A	ELTS	26	
	27	ADV/LAND POLE LIGHT UP LIGHT	20 A	1		0 VA			0 VA		3	100 A	ELTS	28	
	29	EXISTING LOAD	20 A	1			0 VA			0 VA	1	20 A	SPARE	30	
	31	EXISTING LOAD	20 A	1	0 VA			0 VA			1	20 A	SPARE	32	
	33	ELEV CAB LIGHT	20 A	1		0 VA			0 VA		3	60 A	PANEL 'ELL'	34	
	35	ELEV LANDING LIGHT	20 A	1			0 VA			0 VA	3	60 A	PANEL 'ELL'	36	
	37	SPARE	20 A	1	0 VA			0 VA			1	20 A	FRONTIERLAND POST LIGHT	38	
	39	SPARE	20 A	1		0 VA		0 VA		0 VA	1	20 A	FRONTIERLAND TOWER LIGHT	40	
	41	SPARE	20 A	1			0 VA		0 VA		1	20 A	FRONTIERLAND POST LIGHT	42	
	43	SPARE	20 A	1	0 VA			0 VA			1	20 A	FRONTIERLAND POST LIGHT	44	
	45	SPARE	20 A	1		0 VA			0 VA		1	20 A	SPARE	46	
	47	SPARE	20 A	1			0 VA			0 VA	1	20 A	SPARE	48	
	49													50	
	51	VERIS METER	15 A	3		0 VA			0 VA		3	50 A	DVC LOUNGE ELTS	52	
	53							0 VA						54	
Total Load:					13 VA		0 VA		219 VA						
Total Amps:					0 A		0 A		2 A						
Panel Totals															
TOTAL AMPS "A" PHASE: 0 A						MAXIMUM CONNECTED PHASE AMPS: 2 A						TOTAL DEMAND AMPS: 1 A			
TOTAL AMPS "B" PHASE: 0 A						MAXIMUM CONNECTED KVA: 219 VA						TOTAL DEMAND KVA: 232 VA			
TOTAL AMPS "C" PHASE: 2 A															
Notes:															

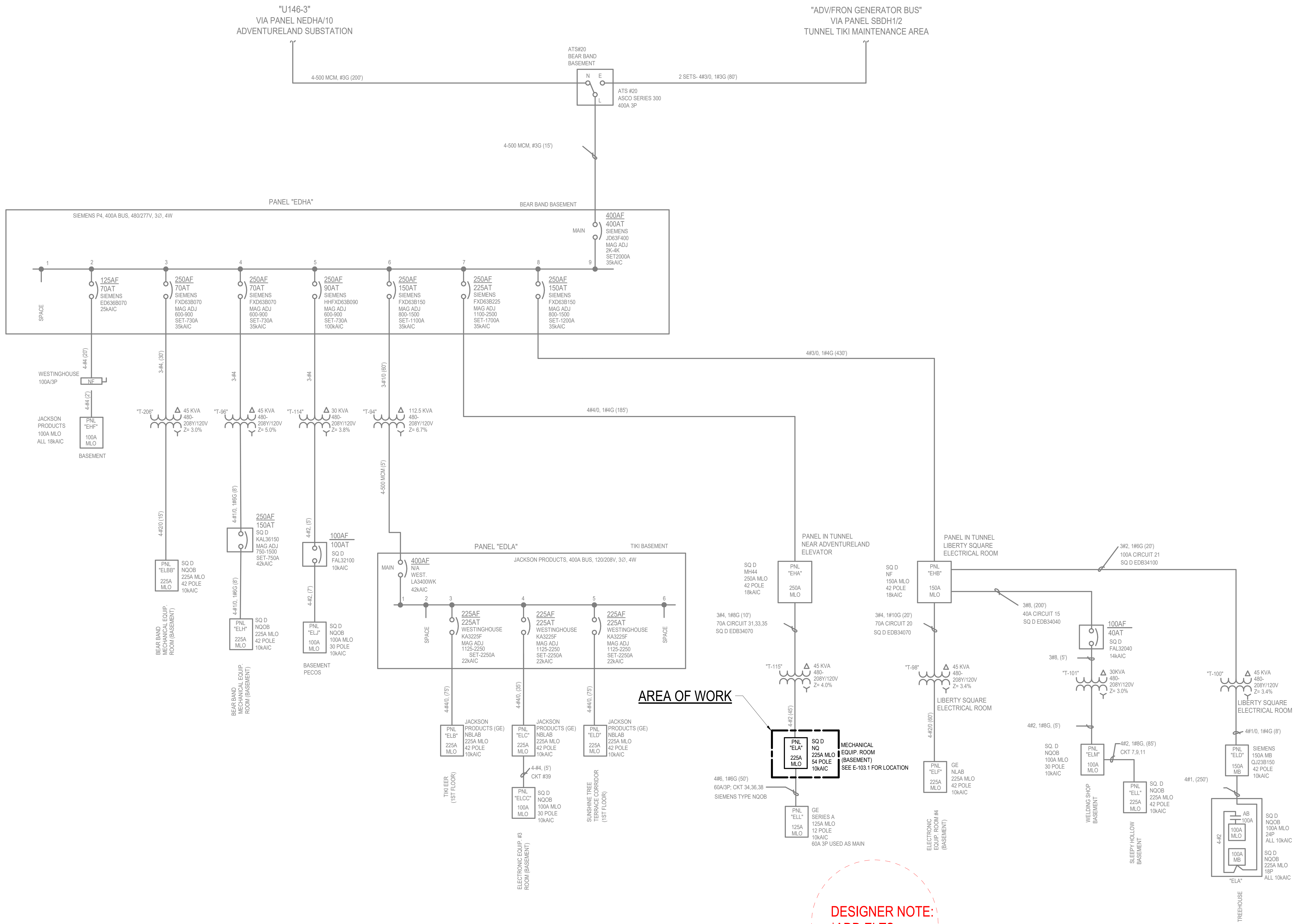
EXISTING CONDITION

FED FROM: DLD-7											
PANELBOARD SCHEDULE: <E>LCC											
208/120 VOLTS		3 PHASE		4 WIRE		10 kAIC		225 AMPS		NA MCB	
TYPE: SQ-D NOOB		LOCATION: MK SHOOTING GALLERY...						NEMA: 1			

REVISED CONDITION

FED FROM: DLD-7															
PANELBOARD SCHEDULE: LCC						NEW/		BOLT-ON X		NORMAL X					
						EXISTING X		PLUG-IN X		STAND-BY X					
						INDOOR X		M.C.B.		EMERGENCY X					
TYPE: SQ-D NOOB						OUTDOOR X		M.L.O. X		U.P.S.					
LOCATION: MK SHOOTING GALLERY...						NEMA: 1				SURFACE RECESSED X					
NOTE	CK T#	Circuit Description	Trip	Pole #	A	B	C	A	B	C	Pole #	Trip	Circuit Description	CK T#	NOTE
	1	J.B. STORE RM ISLAND SUPPLY	20 A	1	0 VA			0 VA			1	20 A	ISLAND SUPPLY DISPLAY CASES	2	
	3	J.B. STORE RM ISLAND SUPPLY	20 A	1		0 VA			0 VA		1	20 A	J.B. STORE RM ISLAND SUPPLY	4	
	5	J.B. STORE RM ISLAND SUPPLY	20 A	1			0 VA			0 VA	1	20 A	ISLAND SUPPLY DISPLAY CASES	6	
	7	SPACE	--	1	--			0 VA			1	20 A	LTS - HALLWAY LEAD AREA	8	
	9	ISLAND SUPPLY POS	20 A	1		0 VA			0 VA		1	20 A	R.D. ISLAND SUPPLY	10	
	11	ISLAND SUPPLY POS	20 A	1			0 VA			0 VA	1	20 A	EXISTING LOAD	12	
	13	SPACE	--	1	--			0 VA			1	20 A	SPARE	14	
	15	R.D. FLOOR CABLE	20 A	1		0 VA			0 VA		1	20 A	ISLAND SUPPLY CASE RIGHT SIDE OF...	16	
	17	R.D. FLOOR CABLE	20 A	1			0 VA			0 VA	1	20 A	R.D. ISLAND SUPPLY SPLIT	18	
	19	SPARE	20 A	1		0 VA			0 VA		1	20 A	SPARE	20	
	21	SPARE	20 A	1			0 VA			0 VA	1	20 A	EXISTING LOAD	22	
	23	EXISTING LOAD	20 A	1			0 VA			0 VA	1	20 A	SPARE	24	
	25	EXISTING LOAD	20 A	1		0 VA			0 VA		1	20 A	EXHAUST FAN LEAD OFFICE	26	
	27	R.D. LEAD AREA	20 A	1			0 VA		0 VA		1	20 A	POWER FOR CONTRACTOR	28	
	29	R.D. LEAD OFFICE HALLWAY	20 A	1			0 VA			0 VA	1	20 A	R.D. FLOOR CASES OUTSIDE R.S.	30	
	31	R.D. LEAD OFFICE HALLWAY	20 A	1		0 VA				0 VA	1	20 A	SPARE	32	
	33	EXISTING LOAD	20 A	1		0 VA			0 VA		1	20 A	EXISTING LOAD	34	
	35	SPACE	--	1	--		--			--	1	--	SPACE	36	
	37	SPACE	--	1	--			0 VA			1	20 A	R.D. ISLAND SUPPLY STOCK ROOM	38	
	39	SPACE	--	1	--				0 VA		1	20 A	COOLER	40	
	41	EXISTING LOAD	20 A	1			0 VA			0 VA	1	20 A	SPARE	42	
		Total Load:			0 VA		0 VA		0 VA						
		Total Amps:					0 A			0 A					

[illegible]



RISER DIAGRAM -EMERGENCY

NOT TO SCALE

1
E-502

DESIGNER NOTE:
*ADD ELTS

GENERAL POWER RISER NOTES:

1. ALL PANEL BOARDS, DISCONNECTS, AND TRANSFORMERS SHALL BE INSTALLED IN COMPLIANCE WITH NEC 110.26.
2. ALL CONDUCTORS SHALL BE CU TYPE THWN-2 INSULATED.
3. ALL PANELBOARDS THAT EXCEED 3% CONTRIBUTED MOTOR LOADS SHALL BE FULLY RATED.
4. CONDUCTORS OF ALL PARALLEL FEEDERS SHALL BE OF EQUAL LENGTH TO WITHIN 1% OF EACH OTHER.
5. FIELD VERIFY THAT THERE IS NO DUCT-WORK OR PLUMBING LOCATED ABOVE ANY PROPOSED NEW PANEL LOCATIONS.
6. LOCATE NEW TRANSFORMERS TO COMPLY WITH 10'-0" TAP RULE FOR SECONDARY OVERCURRENT PROTECTION. IF CONDITIONS SATISFYING THE 10'-0" TAP RULE CANNOT BE ACHIEVED, PROVIDE FUSED DISCONNECT SWITCH OR ENCLOSED CIRCUIT BREAKER OF APPROPRIATE SIZE.
7. ELECTRICAL CONTRACTOR SHALL REVIEW ONE LINE POWER RISER DIAGRAM IN CONJUNCTION WITH SWITCHGEAR MANUFACTURER REPRESENTATIVE TO CROSS REFERENCE POWER RISER WITH PANEL SCHEDULES AND VERIFY VOLTAGES, AMPS, LUGS SIZE/NUMBER AND CABINETS DIMENSIONS PRIOR TO SUBMITTING BID.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE INSULATED LUG REDUCERS OR MODULAR POWER DISTRIBUTION BLOCKS WHEN INDICATED CONDUCTORS DO NOT MATCH SWITCHGEAR LUGS. PROVIDE ADDITIONAL CABINETS TO ENCLOSE LUGS/BLOCKS IF NECESSARY.
9. ELECTRICAL CONTRACTOR SHALL NOT ESTIMATE OR PURCHASE CONDUCTORS BASED ON FEEDERS OR BRANCH CIRCUIT LENGTH POSITION ON VOLTAGE DROP SCHEDULE.
10. REMOVE STICKER LABEL ON ALL NEW ELECTRICAL EQUIPMENT AND PANELS WITH LEGEND: "WARNING: ARC FLASH AND SHOCK HAZARD. APPROPRIATE PERSONAL PROTECTION EQUIPMENT REQUIRED".
11. USE FIELD-PAINTED FLOOR MARKINGS, FLOOR MARKING TAPE, OR WARNING LABELS TO IDENTIFY REQUIRED EQUIPMENT WORKING CLEARANCES IN ELECTRICAL ROOMS AND WAREHOUSE AREAS.
12. ROUTE UNPROTECTED SERVICE CONDUCTORS OUTSIDE THE BUILDING TO COMPLY WITH NEC ARTICLE 230.6.
13. METER DISCONNECT SWITCHES SHALL BE PROVIDED WITH A PHENOLIC PLATE WITH INSCRIPTION: "METER DISCONNECT." "NOT SERVICE EQUIPMENT".
14. CIRCUIT BREAKERS RATED 1200 AMPS OR HIGHER SHALL BE PROVIDED WITH AN ENERGY-REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR AS PER ARTICLE 240.87 OF THE NATIONAL ELECTRICAL CODE.
15. WHEN A SHUNT-TRIP CIRCUIT BREAKER IS USED AS A MAIN SERVICE DISCONNECT, MANUFACTURER SHALL PROVIDE A CIRCUIT BREAKER IN THE SAME PANEL TO FEED THE SHUNT-TRIP COIL. POWER INCLUDE FUSED CONTROL TRANSFORMER IF PANEL VOLTAGE RATING IS DIFFERENT THAN THE COIL VOLTAGE RATING. WHEN NEW 800 AMP OR MORE SWITCHBOARDS OR PANELBOARDS ARE INSTALLED IN PERSONNEL DOORS SHALL OPEN IN THE DIRECTION OF EGRESS AND BE PROVIDED WITH LISTED PANIC HARDWARE. FIELD COORDINATE WITH GENERAL CONTRACTOR.

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Walt Disney Parks and Resorts U.S., Inc.

KEY PERSONS AND APPROVALS

DESIGN MANAGER	KELSEY ROBERTS	A. VELAZQUEZ	DESIGN
PROFESSIONAL SEAL	KATHERINE SALINAS	CHECKED	INITIALS
DATE	DEAN KENNEDY	DESIGNED BY	
		DRAWN BY	
		DATE	
		1202494.A.F	
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URGENCY		
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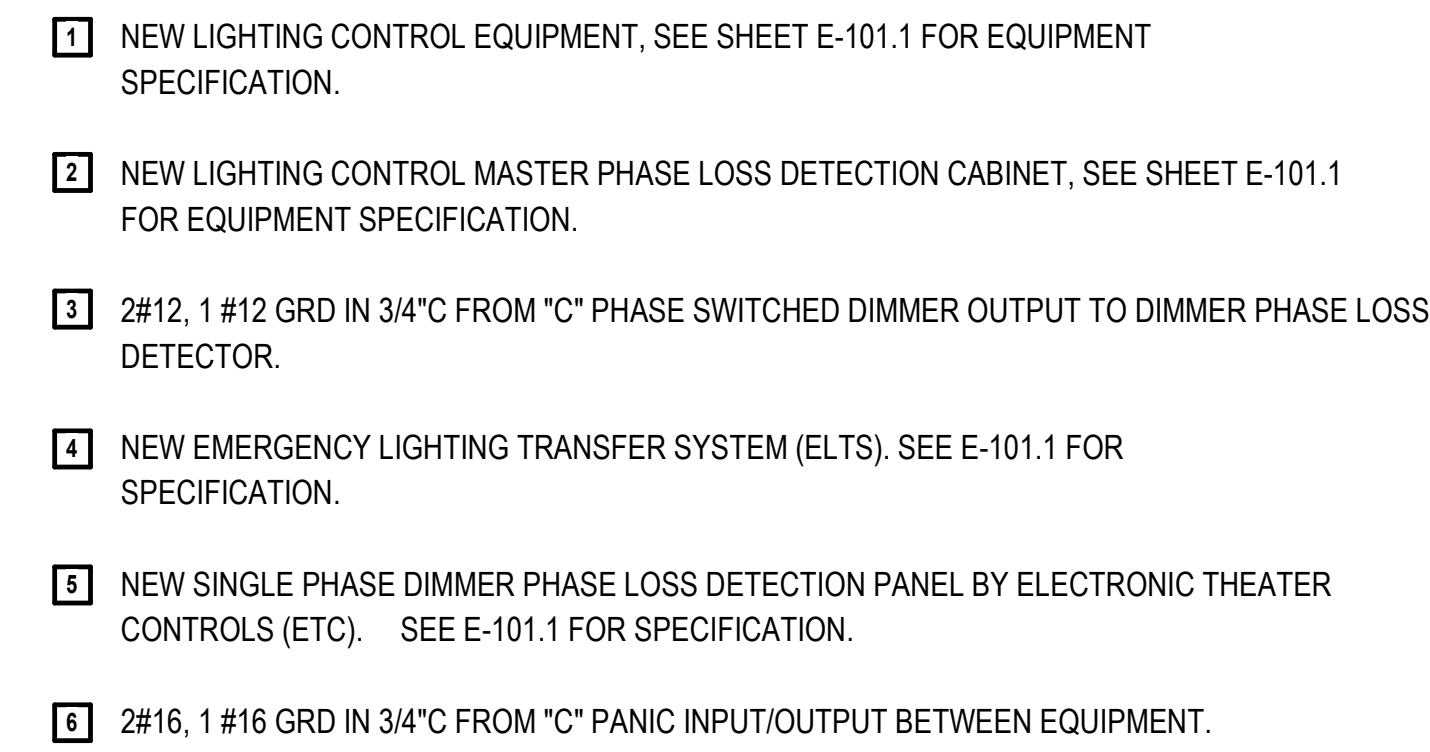
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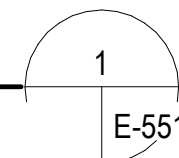
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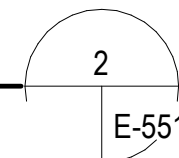
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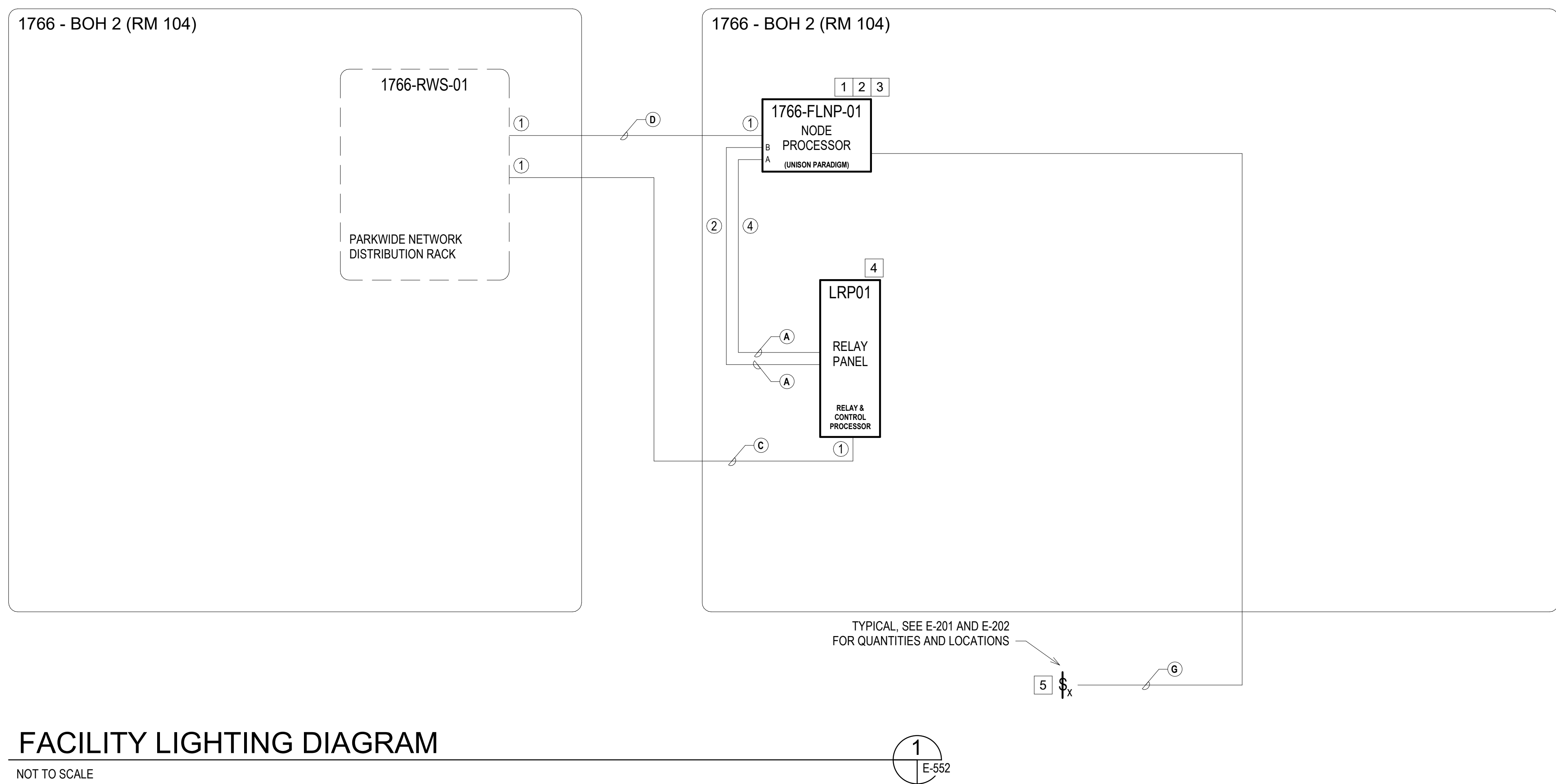


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		PERMIT NO.: PROJECT NO./PKG. CODE: 042301900 PKG. NO.: DRAWING NO.: REV. NO.:	E-551 



FACILITY LIGHTING DIAGRAM

NOT TO SCALE

GENERAL NOTES

1. PROVIDE FULL COMMISSIONING OF DIMMING AND CONTROL SYSTEM BY E.T.C. FACTORY CERTIFIED TECHNICIAN. ALL NODE PROCESSOR, UNION ACCESSORY, AND DIMMER RACK CONTROL TERMINATIONS TO BE COMPLETED AS PART OF DIMMING SYSTEM COMMISSIONING.
2. ALL OTHER DMX AND LIGHTING CONTROL TERMINATIONS TO BE COORDINATED BY ELECTRICAL CONTRACTOR. ALL CABLES SHALL BE LABELED AT BOTH ENDS PER OWNER'S REQUIREMENTS.
3. ALL DMX CABLE CONNECTIONS TO BE SCREW TERMINAL, RJ-45 OR NEUTRIX 5-PIN XLR CONNECTORS (NCSFX-BNCSM-XB). PROVIDE ADAPTERS AS NEEDED.
4. ALL DMX AND ETHERNET CABLES IN UNDERGROUND OR EXTERIOR CONDUIT TO BE RATED FOR EXTERIOR USE.
5. SUBSTITUTION OF LED AND/OR CONTROL PRODUCTS WILL REQUIRE ADDITIONAL CONTROL SYSTEM DESIGN EFFORTS.
6. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.
7. NOTIFY OWNER'S SHOW LIGHTING REPRESENTATIVE OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH ASSOCIATED EFFORT

LEGEND

(NOT ALL CABLES MAY BE USED ON THIS SHEET)

- (A) DMX CABLE - IS/2TPW#24 PURPLE - PROPLEX #PC24AT-DIS
- (B) DMX CABLE - IS/2TPW#2 FLEX - PROPLEX #PC22AT
- (C) ETHERNET CONNECTION - CAT6 CABLE PURPLE
- (D) ETHERNET CONNECTIONS - (2) CAT6 CABLES PURPLE
- (E) COMBINED POWER & DATA FIXTURE CONNECTION -30VDC/15VAC
- (F) COMBINED POWER & DATA FIXTURE CONNECTION -30VDC/15VAC
- (G) ETC ULP (UNISON LINK PROTOCOL).
SEE SPECS AND NOTES FOR CABLE TYPE
- (H) (2) #18AWG FOR DRY CONTACT INPUT - BELDEN #5300UE
- (I) 0-10V FIXTURE CONTROL CABLE - BELDEN #9341
- (J) 18AWG / 8 CONDUCTOR - BELDEN #5306UE;
CABLE SHALL NOT EXCEED 200FT
- (K) BY OTHERS (MANUFACTURER)
- (1) DGN NETWORK - SL PARKWIDE VLAN
- (2) PARKWIDE LIGHTING CONTROL
- (3) ATTRACTION LIGHTING NETWORK
- (4) ATTRACTION LIGHTING CONTROL
- (5) ENTERTAINMENT LIGHTING CONTROL
- (6) SHOW CONTROL
- (7) SHOW NETWORK - SL VLAN(S)
- (8) ADEV LIGHTING NETWORK

SPECIFIC NOTES

(NOT ALL NOTES MAY BE USED ON THIS SHEET)

- 1 FLPN – E.T.C. UNION NODE PROCESSOR, INCLUDING ERMA ENCLOSURE WITH PARADIGM PROCESSOR, RIDE THROUGH POWER INTERFACE, CONTROL STATION POWER MODULE, AND MAINTENANCE INTERFACE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 2 120VAC POWER CONNECTION REQUIRED
- 3 INSTALL DMX TERMINATING RESISTOR AT END OF LINE.
- 4 E.T.C. UNION ECHO RELAY PANEL FEED-THRU (DISCRETE), WITH RIDE-THROUGH OR BATTERY BACKUP POWER OPTION. PROVIDE 1" CONDUIT OR NIPPLE BETWEEN ADJACENT PANELS FOR RACK-TO-RACK CONTROL WIRING.
- 5 LOCAL OCCUPANCY SENSOR/ MANUAL SWITCH

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		2016 ALDEN RD. OLANDO, FL 32603 (407) 264-5084	PERMIT NO.: _____ PROJECT NO./PKG. CODE: 0423010190	PKG. NO.: _____ DRAWING NO.: _____ REV. NO.: _____	

PROJECT DESIGNED FOR:



DESIGN MANAGER		DRAWN
KELSEY ROBERTS	A. VELAZQUEZ	
PROFESSIONAL SEAL	DATE	INITIALS
KATHERINE SALINAS	B. SPANGLER	
DEAN KENNEDY	B. SPANGLER	
DATE:	WBS NO.	
3/15/2024	1202494.A.F	
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NOTICES:

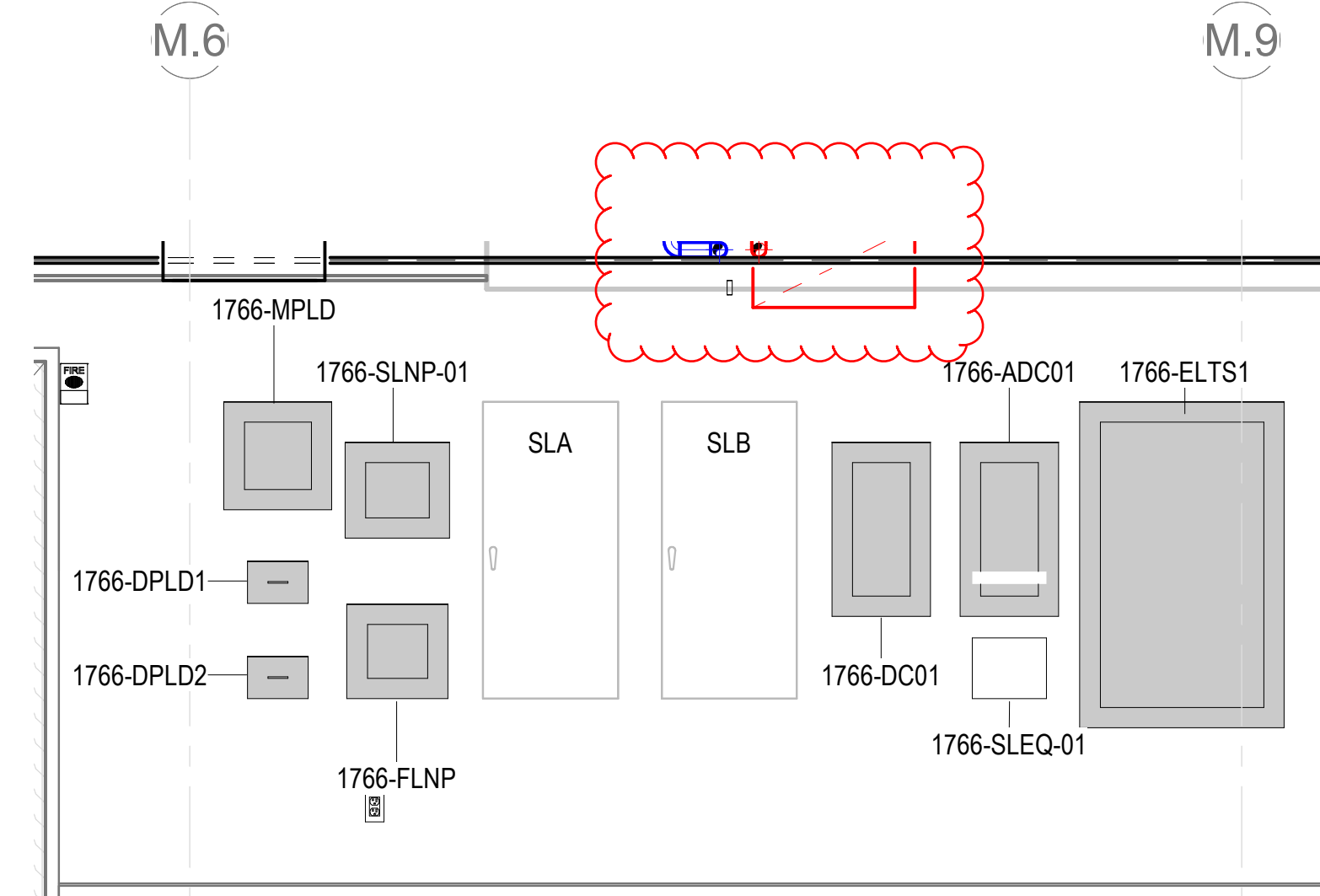
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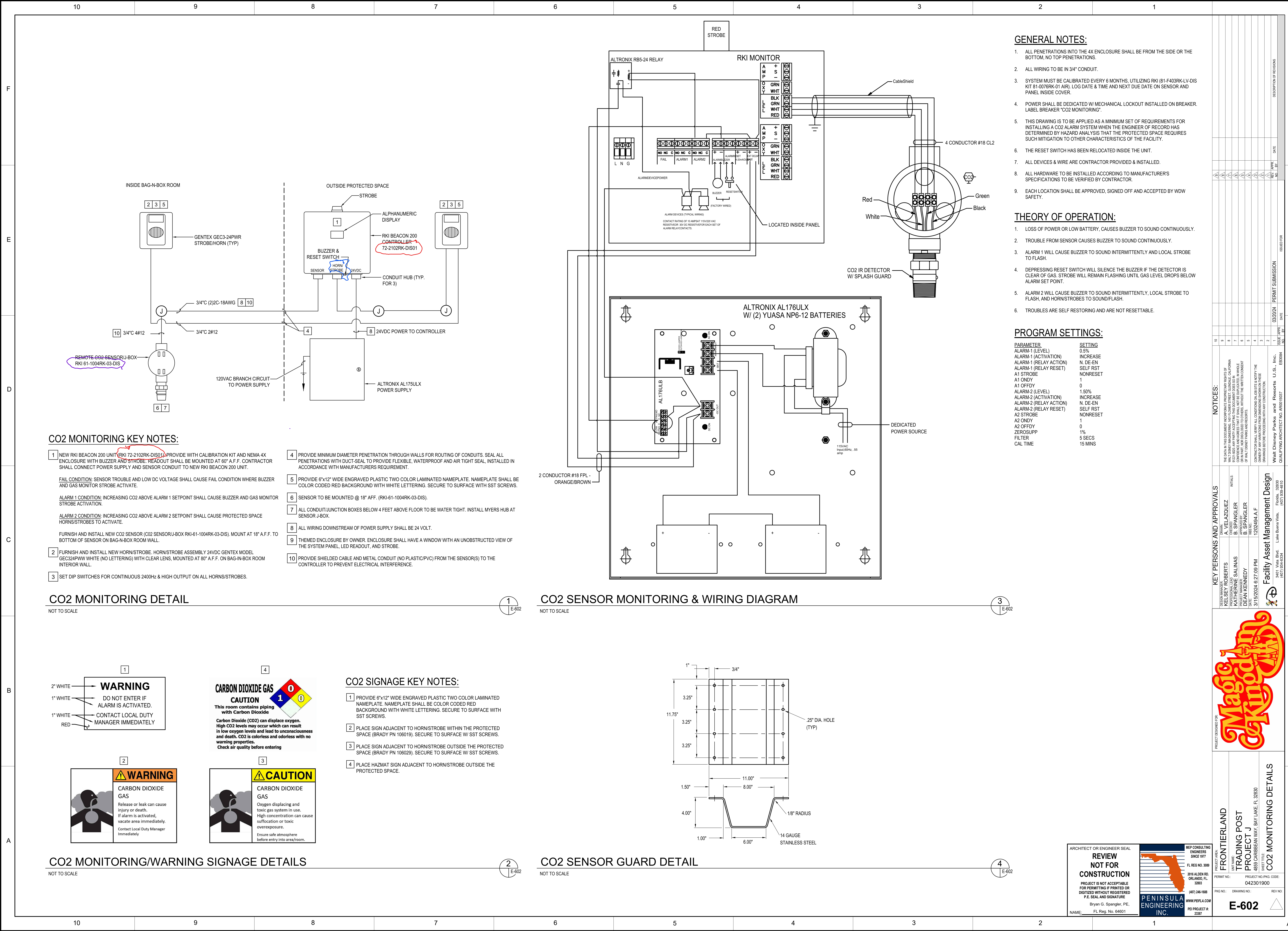
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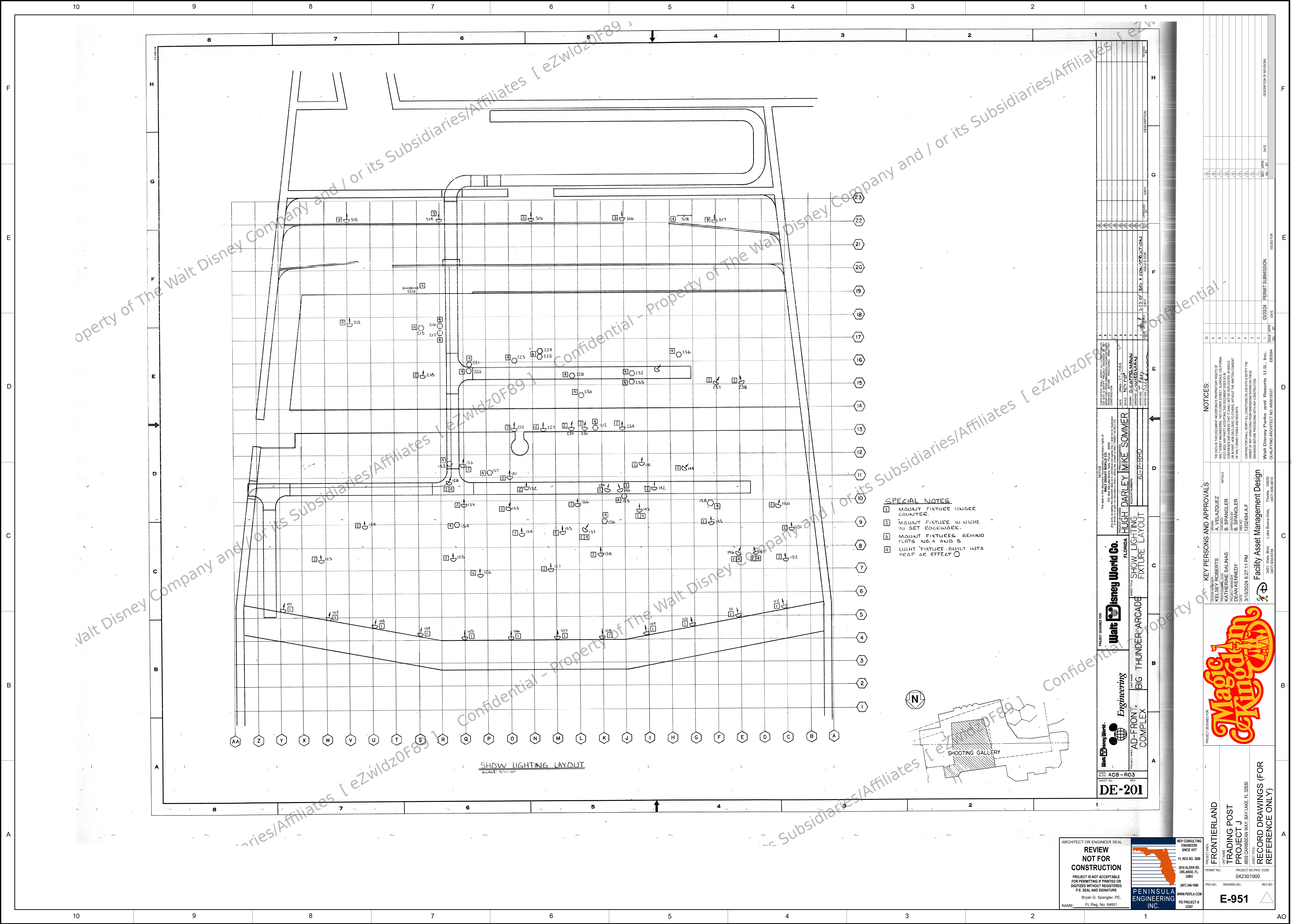


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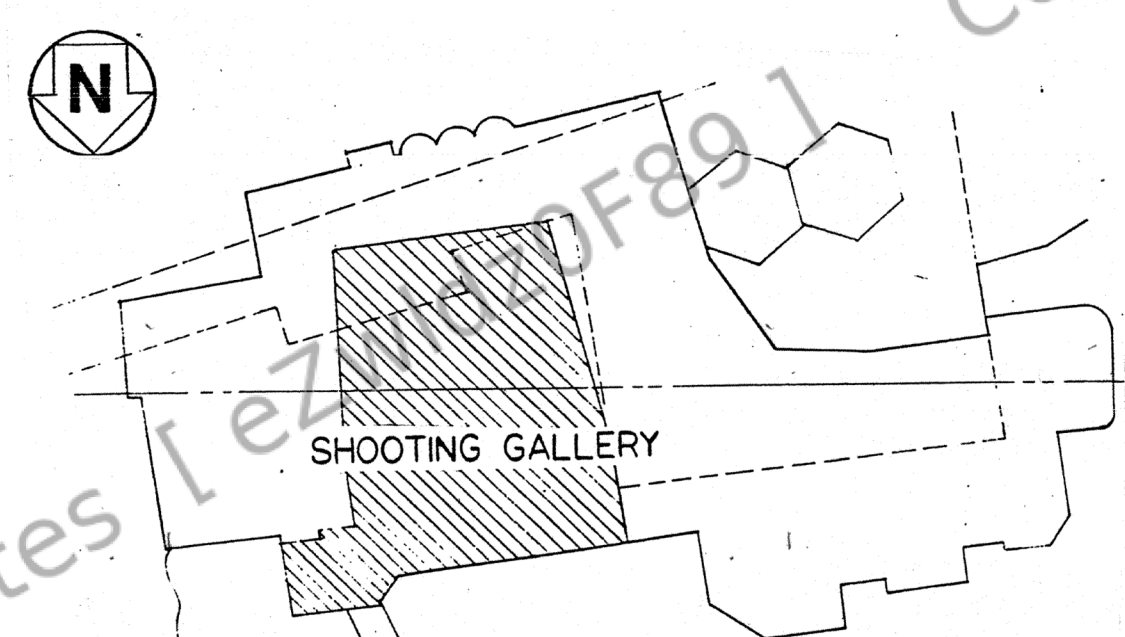
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- SPECIAL NOTES**
- 1 MOUNT FIXTURE UNDER COUNTER.
 - 2 MOUNT FIXTURE IN NICHE IN SET EDGEWALK.
 - 3 MOUNT FIXTURES BEHIND FLATS NO. 4 AND 5.
 - 4 LIGHT FIXTURE BUILT INTO PROP OR EFFECT.



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NAME: FL Reg. No. 64601

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(407) 246-1688
WWW.PENINC.COM
PEI PROJECT #: 23387

MEP CONSULTING
ENGINEERS
SINCE 1977
FL REG. NO. 3889
2016 ALDEN RD.
ORLANDO, FL 32803
PKG. NO.: (407) 246-1688
DRAWING NO.: 042301900
REV. NO.:
E-951

FRONTIERLAND
TRADING POST
PROJECT J
SHEET TITLE
RECORD DRAWINGS (FOR
REFERENCE ONLY)

Walt Disney World Co.
FLORIDA
PROJECT: AD-FRONT BIG THUNDER ARCADE COMPLEX
SHEET: DE-201
PROJECT NO.: A08-R03
SHEET NO.: 201

Engineering
PROJECT: AD-FRONT BIG THUNDER ARCADE COMPLEX
SHEET: DE-201
PROJECT NO.: A08-R03
SHEET NO.: 201

Magic Kingdom
PROJECT: AD-FRONT BIG THUNDER ARCADE COMPLEX
SHEET: DE-201
PROJECT NO.: A08-R03
SHEET NO.: 201

Disney
PROJECT: AD-FRONT BIG THUNDER ARCADE COMPLEX
SHEET: DE-201
PROJECT NO.: A08-R03
SHEET NO.: 201

KEY PERSONS AND APPROVALS

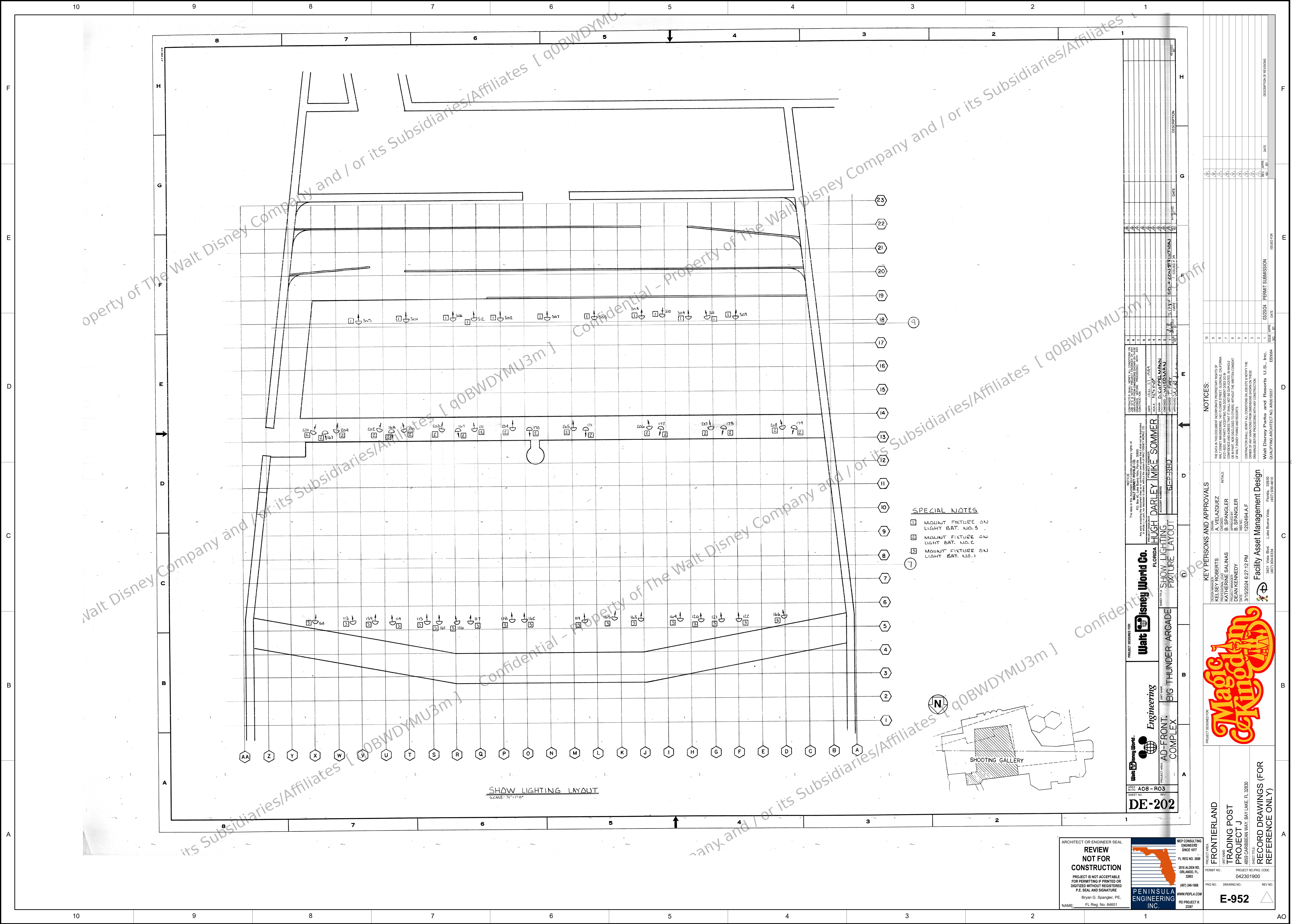
NAME	ROLE	DATE
KELSEY ROBERTS	PROJECT MANAGER	3/15/2024
A. VELAZQUEZ	DESIGNER	3/15/2024
KATHERINE SALINAS	DESIGNER	3/15/2024
DEAN KENNEDY	DESIGNER	3/15/2024
B. SPANGLER	DESIGNER	3/15/2024
B. SPANGLER	DESIGNER	3/15/2024
1212494.A.F	DESIGNER	3/15/2024

NOTICES

NO.	DATE	DESCRIPTION
1	03/15/2024	ISSUED FOR PERMIT SUBMISSION

REVISIONS

NO.	DATE	DESCRIPTION
1	03/15/2024	ISSUED FOR PERMIT SUBMISSION



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SINCE 1977
FL REG. NO. 3889
2016 ALDEN RD.
ORLANDO, FL 32833
(407) 246-1688

PROJECT AREA:
**FRONTIERLAND
TRADING POST
PROJECT J**
SHEET TITLE:
RECORD DRAWINGS (FOR
REFERENCE ONLY)
E-952

- SPECIAL NOTES**
- 1 MOUNT FIXTURE ON LIGHT BAT. NO. 5
 - 2 MOUNT FIXTURE ON LIGHT BAT. NO. 2
 - 3 MOUNT FIXTURE ON LIGHT BAT. NO. 1

Walt Disney World Co.
FLORIDA
PROJECT DESIGNED FOR:
PROJECT NAME:
PROJECT NUMBER:
PROJECT DATE:
PROJECT AREA:
PROJECT NO.: A08-R03
SHEET NO.: DE-202

Engineering
PROJECT NAME:
PROJECT NUMBER:
PROJECT DATE:
PROJECT AREA:
PROJECT NO.: A08-R03
SHEET NO.: DE-202

Disney
PROJECT NAME:
PROJECT NUMBER:
PROJECT DATE:
PROJECT AREA:
PROJECT NO.: A08-R03
SHEET NO.: DE-202

KEY PERSONS AND APPROVALS

NAME	DESIGNATION	DATE
KELSEY ROBERTS	PROJECT MANAGER	3/15/2024
KATHERINE SALINAS	PROJECT MANAGER	3/15/2024
DEAN KENNEDY	PROJECT MANAGER	3/15/2024
3/15/2024 6:27:12 PM	PROJECT MANAGER	3/15/2024

Facility Asset Management Design
3401 Vista Blvd.
Lake Buena Vista, Florida 32830
(407) 894-8334

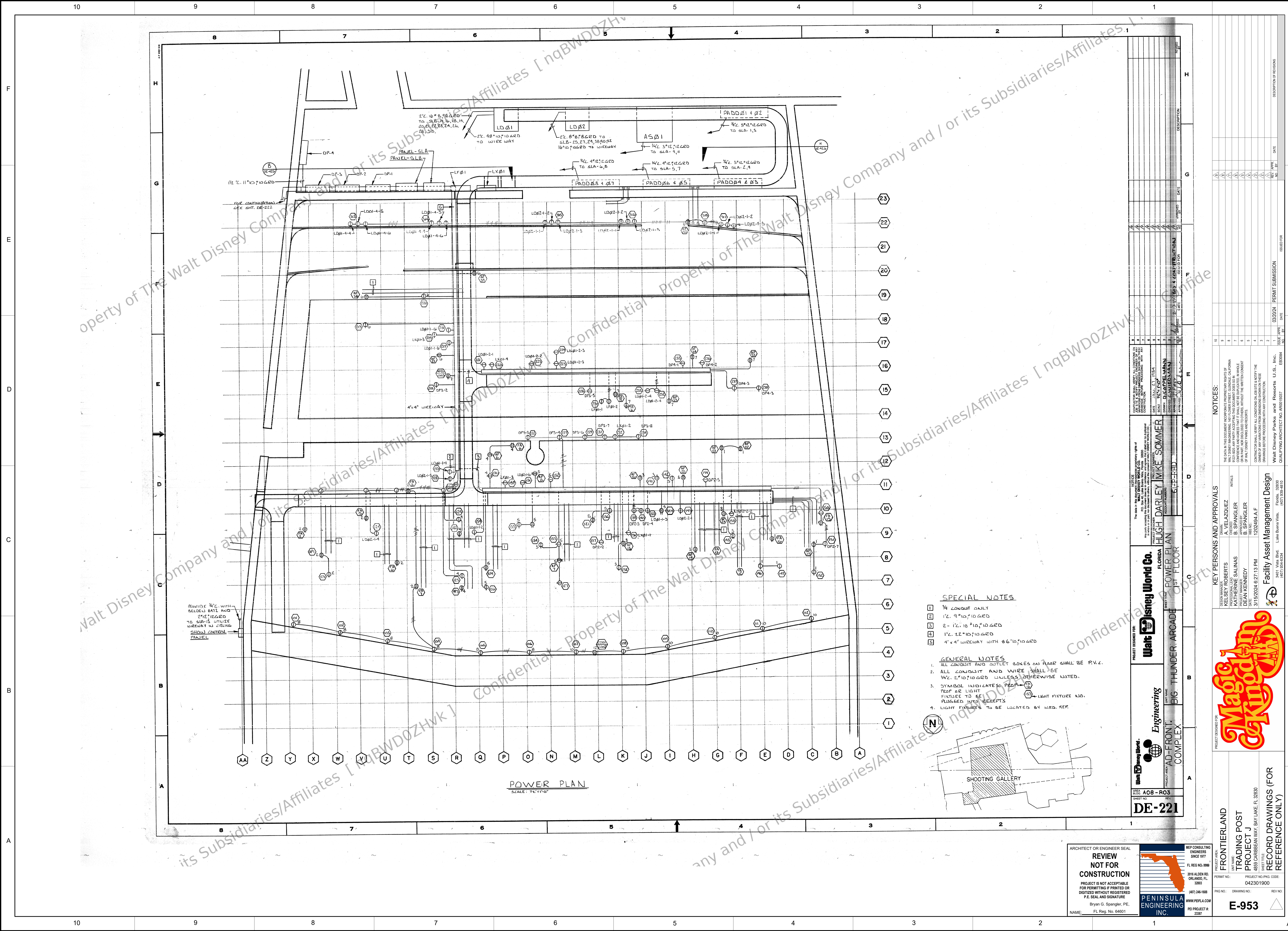
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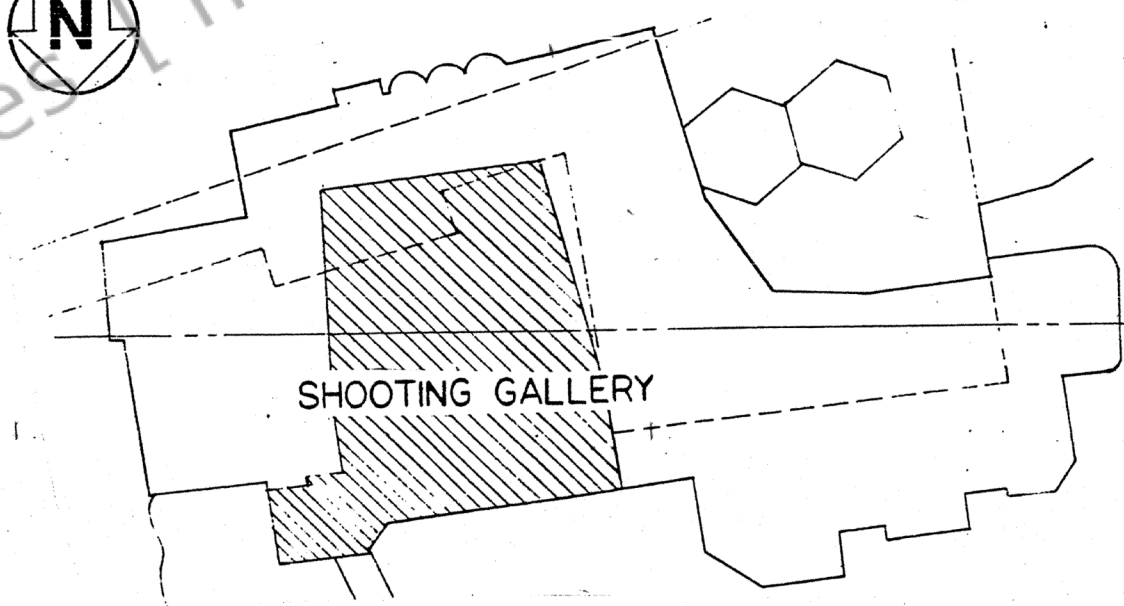
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E03084

NO.	DATE	DESCRIPTION OF REVISIONS
1	03/02/24	PERMIT SUBMISSION



- SPECIAL NOTES**
- 1 3/4\"/>

- GENERAL NOTES**
- 1. ALL CONDUIT AND OUTLET BOXES ON FLOOR SHALL BE P.V.C.
 - 2. ALL CONDUIT AND WIRE SHALL BE 3/4\"/>
 - 3. SYMBOL INDICATES: P.F. = PLUGGED INTO RECEPT, L.F. = LIGHT FIXTURE, L.D. = LIGHT FIXTURE AND PLUGGED INTO RECEPT.
 - 4. LIGHT FIXTURES TO BE LOCATED BY WED. REF.



ARCHITECT OR ENGINEER SEAL

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Bryan G. Spangler, P.E.

FL Reg. No. 64601

MEP CONSULTING ENGINEERS SINCE 1977

FL REG. NO. 3089

2016 ALDEN RD. ORLANDO, FL 32803

(407) 246-1088

WWW.PERFLA.COM

PERFLA ENGINEERING INC.

PROJECT AREA: FRONTIERLAND

TRADING POST

PROJECT J

SHEET TITLE: RECORD DRAWINGS (FOR REFERENCE ONLY)

E-953

PROJECT DESIGNED FOR: Walt Disney World Co. FLORIDA

PROJECT NAME: AD-FRONT: BIG THUNDER ARCADE COMPLEX

PROJECT AREA: AD-FRONT: BIG THUNDER ARCADE COMPLEX

PROJECT NO.: A08-203

SHEET NO.: DE-221

DATE: 3/15/2024

SCALE: 1/4\"/>

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QUALIFYING ARCHITECT NO. A00015037

Walt Disney Parks and Resorts U.S., Inc.

ES0304

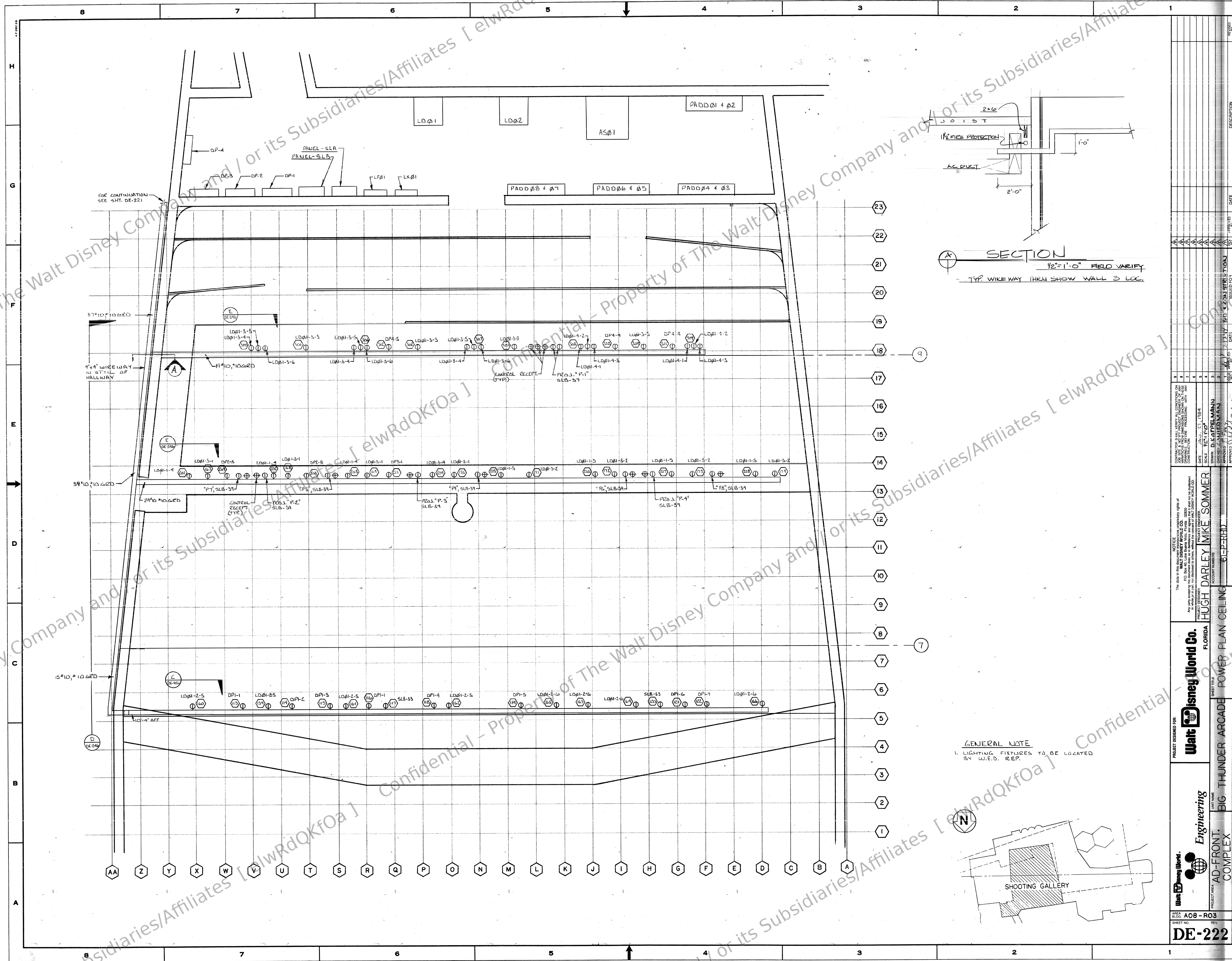
KEY PERSONS AND APPROVALS

NAME	DATE	INITIALS
KELSEY ROBERTS	3/15/2024	KR
KATHERINE SALINAS	3/15/2024	KS
DEAN KENNEDY	3/15/2024	DK

Facility Asset Management Design

3401 Vista Blvd. Lake Buena Vista, Florida 32830

(407) 894-8100



GENERAL NOTE

1. LIGHTING FIXTURES TO BE LOCATED BY W.E.D. REP.



SHOOTING

Walt Disney World.  Engineering 	PROJECT DESIGNED FOR: Walt Disney World Co. FLORIDA	NOTICE The data herein is the property of the undersigned and is to be used only for the purpose specified. No part of this information is to be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the prior written permission of the undersigned. WALT DISNEY WORLD CO. 1000 W. WINDYBROOK DRIVE BOCA RATON, FLORIDA 33432	DATE: JAN. 2, 1974 SCALE: 1/4" = 1'-0" DRAWN BY: J. BELMANN CHECKED BY: J. BELMANN APPROVED BY: J. BELMANN	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 76
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KEY PERSONS AND APPROVALS

DESIGN MANAGER:	KELSEY ROBERTS	DRAWN:	A. VELAZQUEZ
PROFESSIONAL LEAD	KATHERINE SALINAS	CHECKED	B. SPANGLER
DESIGNER	DEAN KENNEDY	DATE:	3/15/2024 6:27:15 PM
WBS NO:	1202494.A.F		



PROJECT AREA:
FRONTIERLAND

UNIT NAME:
**TRADING POST
PROJECT J**

4859 CARIBBEAN WAY, BAY LAKE, FL 32828

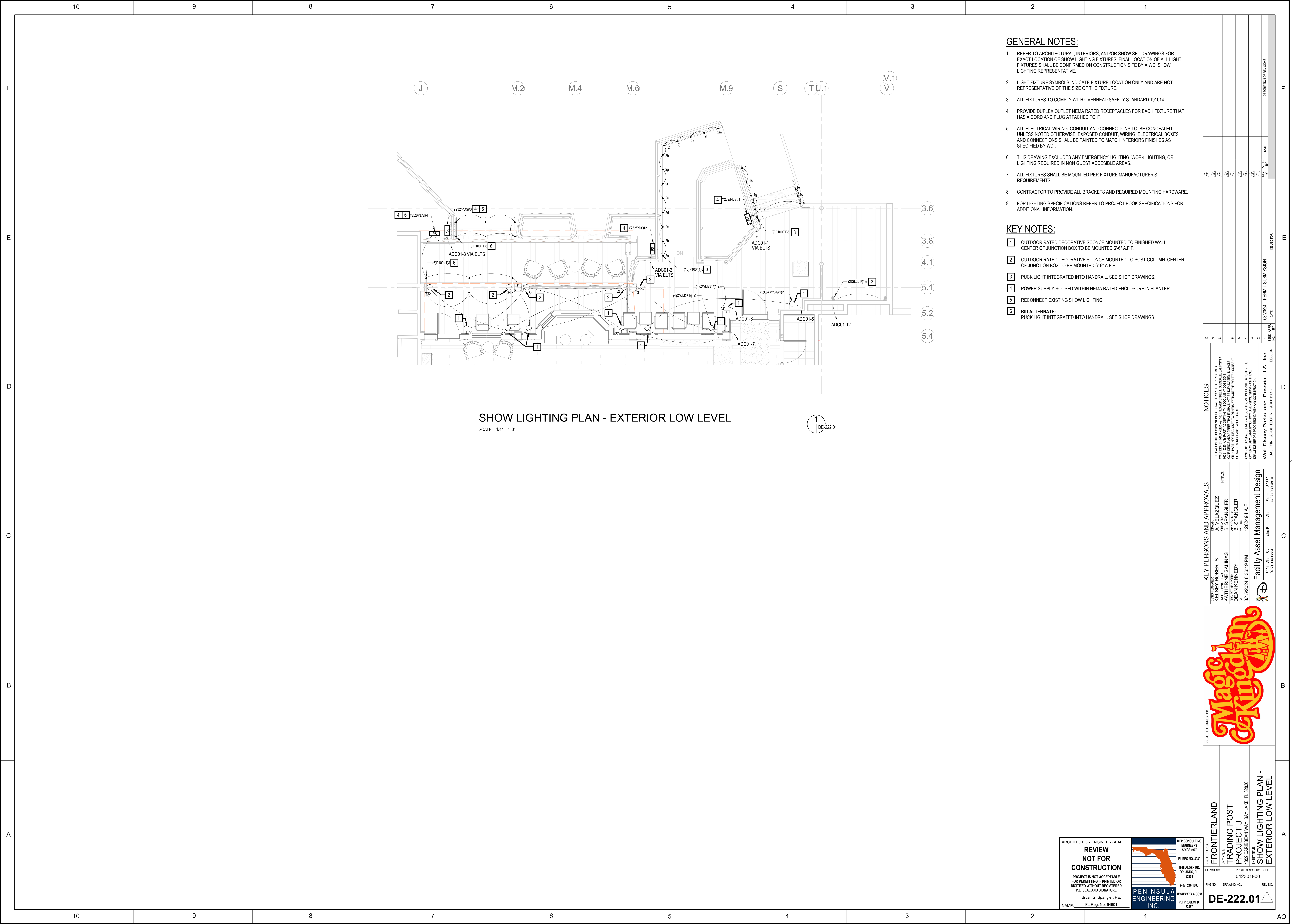
SHEET TITLE:
RECORD DRAWINGS (FOR

FRONTIERLAND
UNIT NAME:
TRADING POST
PROJECT J
4855 CARIBBEAN WAY, BAY LAKE, FL 32830
SHEET TITLE:
RECORD DRAWINGS (FOR

E-954

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P.E. SEAL AND SIGNATURE
Bryan G. Spangler, PE,
NAME: _____ FL Reg. No. 64601

PKG NO.: DRAWING NO.: REV NO.:
E-954 



GENERAL NOTES:

1. REFER TO ARCHITECTURAL, INTERIORS, AND/OR SHOW SET DRAWINGS FOR EXACT LOCATION OF SHOW LIGHTING FIXTURES. FINAL LOCATION OF ALL LIGHT FIXTURES SHALL BE CONFIRMED ON CONSTRUCTION SITE BY A WDI SHOW LIGHTING REPRESENTATIVE.
2. LIGHT FIXTURE SYMBOLS INDICATE FIXTURE LOCATION ONLY AND ARE NOT REPRESENTATIVE OF THE SIZE OF THE FIXTURE.
3. ALL FIXTURES TO COMPLY WITH OVERHEAD SAFETY STANDARD 191014.
4. PROVIDE DUPLEX OUTLET NEMA RATED RECEPTACLES FOR EACH FIXTURE THAT HAS A CORD AND PLUG ATTACHED TO IT.
5. ALL ELECTRICAL WIRING, CONDUIT AND CONNECTIONS TO BE CONCEALED UNLESS NOTED OTHERWISE. EXPOSED CONDUIT, WIRING, ELECTRICAL BOXES AND CONNECTIONS SHALL BE PAINTED TO MATCH INTERIORS FINISHES AS SPECIFIED BY WDI.
6. THIS DRAWING EXCLUDES ANY EMERGENCY LIGHTING, WORK LIGHTING, OR LIGHTING REQUIRED IN NON GUEST ACCESSIBLE AREAS.
7. ALL FIXTURES SHALL BE MOUNTED PER FIXTURE MANUFACTURER'S REQUIREMENTS.
8. CONTRACTOR TO PROVIDE ALL BRACKETS AND REQUIRED MOUNTING HARDWARE.
9. FOR LIGHTING SPECIFICATIONS REFER TO PROJECT BOOK SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES:

- 1 OUTDOOR RATED DECORATIVE SCONCE MOUNTED TO FINISHED WALL. CENTER OF JUNCTION BOX TO BE MOUNTED 6'-6" A.F.F.
- 2 OUTDOOR RATED DECORATIVE SCONCE MOUNTED TO POST COLUMN. CENTER OF JUNCTION BOX TO BE MOUNTED 6'-6" A.F.F.
- 3 PUCK LIGHT INTEGRATED INTO HANDRAIL. SEE SHOP DRAWINGS.
- 4 POWER SUPPLY HOUSED WITHIN NEMA RATED ENCLOSURE IN PLANTER.
- 5 RECONNECT EXISTING SHOW LIGHTING
- 6 **BID ALTERNATE:** PUCK LIGHT INTEGRATED INTO HANDRAIL. SEE SHOP DRAWINGS.

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Walt Disney Parks and Resorts U.S., Inc.
QUALIFYING ARCHITECT NO. A00015037
E03094

KEY PERSONS AND APPROVALS

PROJECT MANAGER	KELSEY ROBERTS	DATE	3/15/2024 6:36:19 PM
PROFESSIONAL SEAL	A. VELAZQUEZ	INITIALS	
PROJECT MANAGER	KATHERINE SALINAS	DATE	3/15/2024 6:36:19 PM
PROJECT MANAGER	DEAN KENNEDY	DATE	3/15/2024 6:36:19 PM
PROJECT MANAGER	B. SPANGLER	DATE	3/15/2024 6:36:19 PM
PROJECT MANAGER	B. SPANGLER	DATE	3/15/2024 6:36:19 PM

Facility Asset Management Design
3401 Vista Blvd.
Lake Buena Vista, Florida 32830
(407) 894-6334



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FL Reg. No. 64601

MEP CONSULTING ENGINEERS SINCE 1977

INT. NAME: FL REG. NO. 3089 2016 ALDEN RD. ORLANDO, FL 32833 (407) 246-1688 WWW.PENFLA.COM

PROJECT NO. 042301900

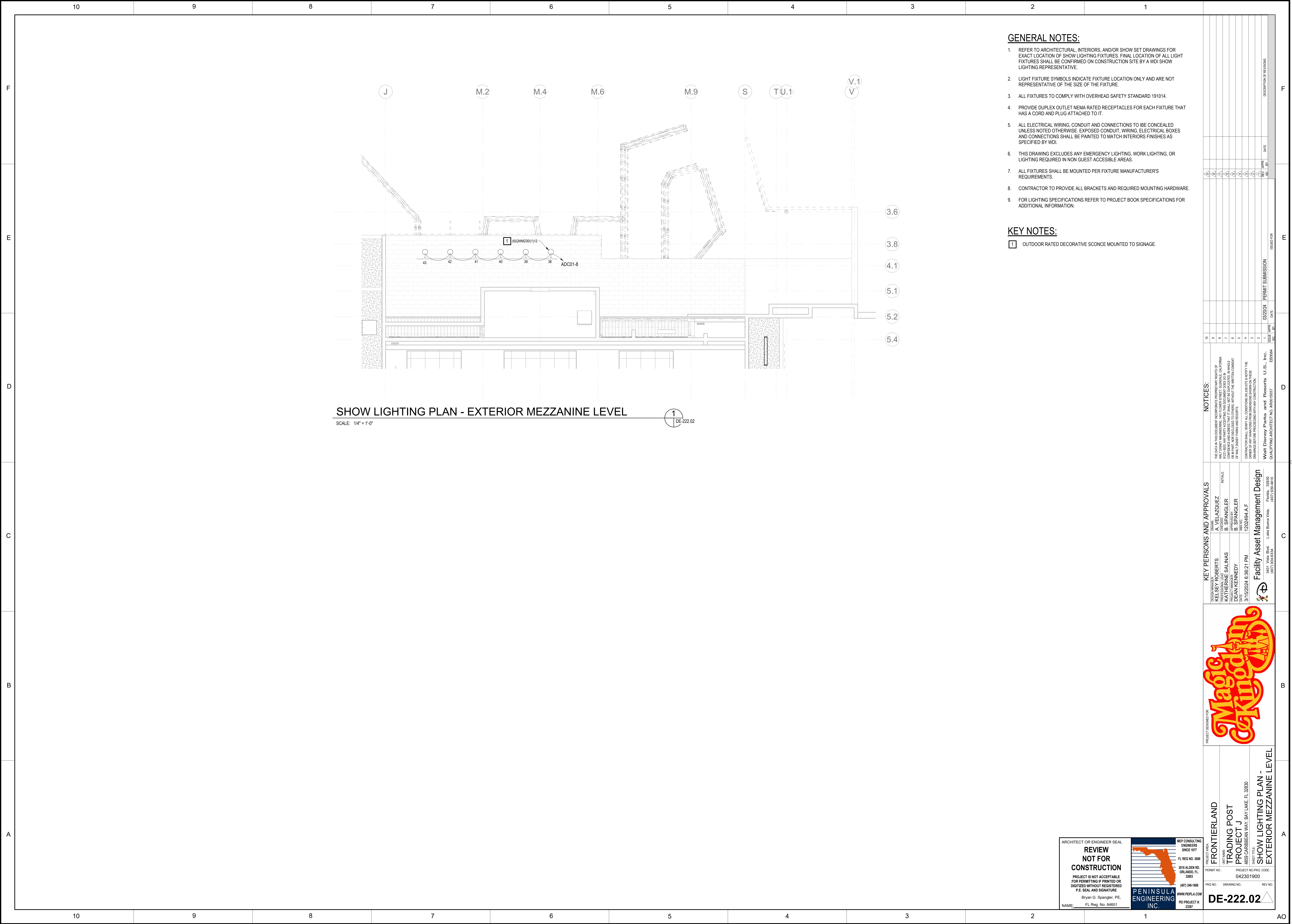
PROJECT NO. PKG. CODE: 042301900

PKG. NO.: DRAWING NO.: REV. NO.:

PROJECT AREA: FRONTIERLAND TRADING POST PROJECT J

SHEET TITLE: SHOW LIGHTING PLAN - EXTERIOR LOW LEVEL

NAME: DE-222.01



SHOW LIGHTING PLAN - EXTERIOR MEZZANINE LEVEL
SCALE: 1/4" = 1'-0"
1 DE-222.02

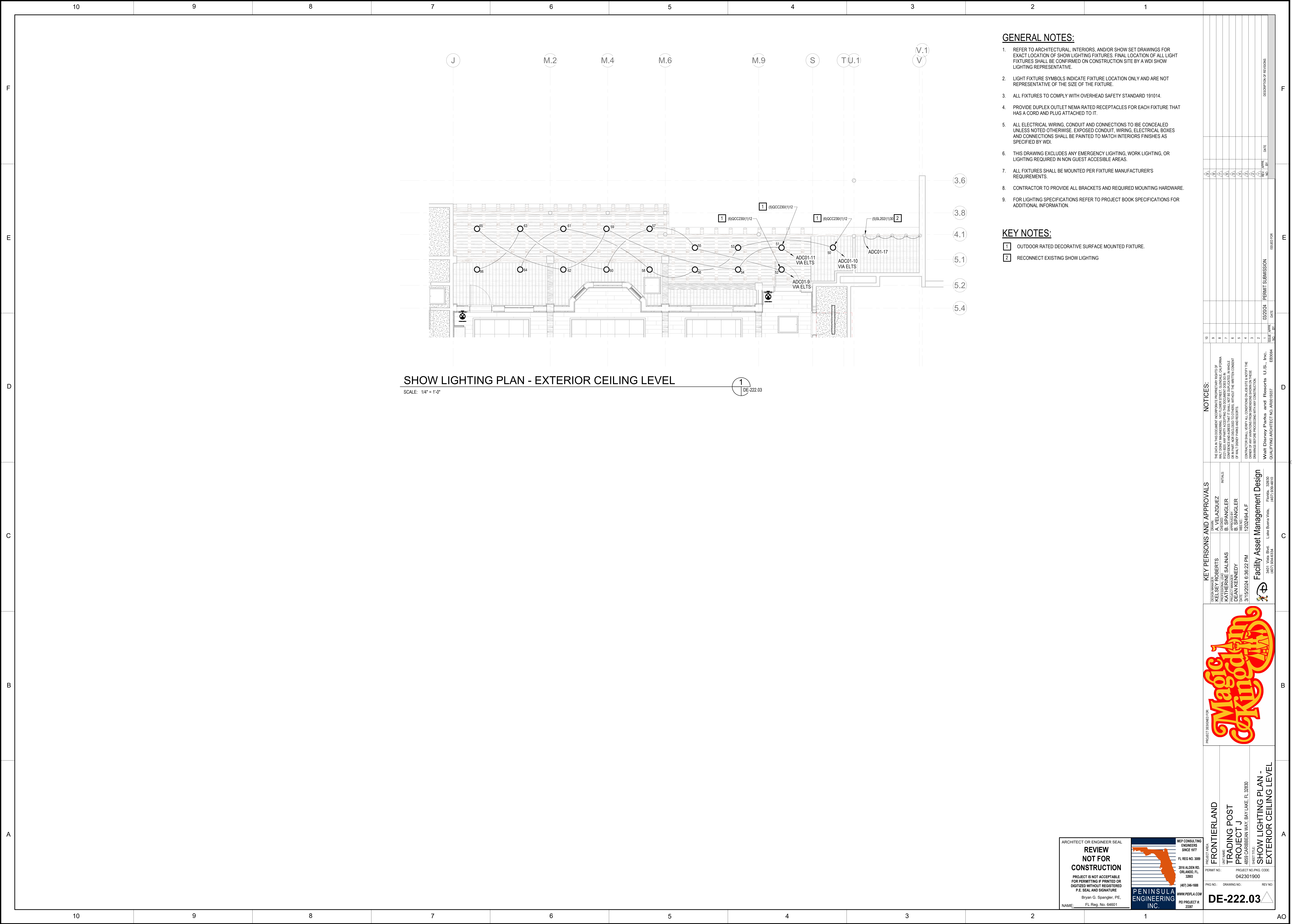
GENERAL NOTES:

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9. FOR LIGHTING SPECIFICATIONS REFER TO PROJECT BOOK SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES:

- 1] OUTDOOR RATED DECORATIVE SCONCE MOUNTED TO SIGNAGE.

PROJECT DESIGNED FOR		PROJECT AREA		PROJECT NO./PKG. CODE		REV NO.	
FRONTIERLAND		TRADING POST		042301900		DE-222.02	
4850 CARIBBEAN WAY, BAY LAKE, FL 32830		4850 CARIBBEAN WAY, BAY LAKE, FL 32830		4850 CARIBBEAN WAY, BAY LAKE, FL 32830		4850 CARIBBEAN WAY, BAY LAKE, FL 32830	
NAME		NAME		NAME		NAME	
FL Reg. No. 64601		FL Reg. No. 64601		FL Reg. No. 64601		FL Reg. No. 64601	
WWW.PENFLA.COM		WWW.PENFLA.COM		WWW.PENFLA.COM		WWW.PENFLA.COM	
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ORLANDO, FL 32803		ORLANDO, FL 32803		ORLANDO, FL 32803		ORLANDO, FL 32803	
(407) 246-1888		(407) 246-1888		(407) 246-1888		(407) 246-1888	
PENINSULA ENGINEERING INC.		PENINSULA ENGINEERING INC.		PENINSULA ENGINEERING INC.		PENINSULA ENGINEERING INC.	
PROJECT NO. 042301900		PROJECT NO. 042301900		PROJECT NO. 042301900		PROJECT NO. 042301900	
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Walt Disney Parks and Resorts U.S., Inc.		Walt Disney Parks and Resorts U.S., Inc.		Walt Disney Parks and Resorts U.S., Inc.		Walt Disney Parks and Resorts U.S., Inc.	
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QUALIFYING ARCHITECT NO. A00015037		QUALIFYING ARCHITECT NO. A00015037		QUALIFYING ARCHITECT NO. A00015037		QUALIFYING ARCHITECT NO. A00015037	
NOTICES:		NOTICES:		NOTICES:		NOTICES:	
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GENERAL NOTES:

- REFER TO ARCHITECTURAL, INTERIORS, AND/OR SHOW SET DRAWINGS FOR EXACT LOCATION OF SHOW LIGHTING FIXTURES. FINAL LOCATION OF ALL LIGHT FIXTURES SHALL BE CONFIRMED ON CONSTRUCTION SITE BY A WDI SHOW LIGHTING REPRESENTATIVE.
- LIGHT FIXTURE SYMBOLS INDICATE FIXTURE LOCATION ONLY AND ARE NOT REPRESENTATIVE OF THE SIZE OF THE FIXTURE.
- ALL FIXTURES TO COMPLY WITH OVERHEAD SAFETY STANDARD 191014.
- PROVIDE DUPLEX OUTLET NEMA RATED RECEPTACLES FOR EACH FIXTURE THAT HAS A CORD AND PLUG ATTACHED TO IT.
- ALL ELECTRICAL WIRING, CONDUIT AND CONNECTIONS TO BE CONCEALED UNLESS NOTED OTHERWISE. EXPOSED CONDUIT, WIRING, ELECTRICAL BOXES AND CONNECTIONS SHALL BE PAINTED TO MATCH INTERIORS FINISHES AS SPECIFIED BY WDI.
- THIS DRAWING EXCLUDES ANY EMERGENCY LIGHTING, WORK LIGHTING, OR LIGHTING REQUIRED IN NON GUEST ACCESSIBLE AREAS.
- ALL FIXTURES SHALL BE MOUNTED PER FIXTURE MANUFACTURER'S REQUIREMENTS.
- CONTRACTOR TO PROVIDE ALL BRACKETS AND REQUIRED MOUNTING HARDWARE.
- FOR LIGHTING SPECIFICATIONS REFER TO PROJECT BOOK SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES:

- OUTDOOR RATED DECORATIVE SURFACE MOUNTED FIXTURE.
- RECONNECT EXISTING SHOW LIGHTING

PROJECT DESIGNED FOR:		PROJECT AREA:		PROJECT NO./PKG. CODE:		DRAWING NO.:		REV. NO.:	
FRONTIERLAND		TRADING POST		PROJECT J		042301900		DE-222.03	
PROJECT TITLE:		SHOW LIGHTING PLAN - EXTERIOR CEILING LEVEL		SHEET TITLE:		SHEET NO.:		SHEET TOTAL:	
NAME:		Bryan G. Spangler, P.E.		FL Reg. No. 64601		DATE:		03/20/24	
ISSUED FOR:		PERMIT SUBMISSION		DATE:		03/20/24		DATE:	
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1. JBOX MOUNTED WITHIN FIREPLACE PEDESTAL FOR SPECIAL EFFECTS. TO BE FIELD LOCATED BY WDI SHOW LIGHTING REPRESENTATIVE.
2. JBOX MOUNTED WITHIN GREETER DESK FOR PROP DESK LAMP. TO BE FIELD LOCATED BY WDI SHOW LIGHTING REPRESENTATIVE.
3. PDS ARRAY HOUSED WITHIN WALL MOUNTED ENCLOSURE.
4. DECORATIVE SCIENCE MOUNTED TO FINISHED WALL. CENTER OF JUNCTION BOX TO BE MOUNTED 6'-0" A.F.F.
5. DECORATIVE SCIENCE MOUNTED TO FINISHED FIREPLACE WALL. CENTER OF JUNCTION BOX TO BE MOUNTED 7'-0" A.F.F.
6. DECORATIVE SCIENCE MOUNTED TO KITCHENETTE WALL. CENTER OF JUNCTION BOX TO BE MOUNTED 6'-0" A.F.F.
7. DECORATIVE SCIENCE MOUNTED TO SEAT WALL. CENTER OF JUNCTION BOX TO BE MOUNTED 6'-3" A.F.F.
8. DECORATIVE SCIENCE MOUNTED TO MILLWORK. CENTER OF JUNCTION BOX TO BE MOUNTED 6'-6" A.F.F.
9. DECORATIVE SCIENCE MOUNTED TO FINISHED WALL ABOVE STAIR LANDING. CENTER OF JUNCTION BOX TO BE MOUNTED 8'-0" A.F.F.
10. LINEAR STRIPLIGHT MOUNTED WITHIN MILLWORK NICHE.
11. PDS MOUNTED BEHIND ACCESS PANEL IN MILLWORK.
12. EXIT SIGN. REFER TO E-202 FOR ADDITIONAL INFORMATION.

NOTICES:

THE DATA IN THIS DOCUMENT INCORPORATE PROPRIETARY RIGHTS OF WALT DISNEY IMAGERY, 401 FLOWER STREET, GLENDALE, CALIFORNIA 91201-9020. ANY PARTY ACCEPTING THIS DOCUMENT DOES SO IN CONFIDENCE AND AGREES THAT IT SHALL NOT BE DUPLICATED, IN WHOLE OR IN PART, NOR DISCLOSED TO OTHERS, WITHOUT THE WRITTEN CONSENT OF WALT DISNEY PARKS AND RESORTS.

Walt Disney Parks and Resorts U.S., Inc.

KEY PERSONS AND APPROVALS

DESIGN MANAGER	KELSEY ROBERTS	A. VELAZQUEZ	INITIALS:
PROFESSIONAL LEAD	KATHERINE SALINAS	B. SPANGLER	CHECKED:
PROJECT MANAGER	DEAN KENNEDY	B. SPANGLER	APPROVED BY:
DATE:	3/15/2024 6:36:23 PM	WBS NO.	1202494.A.F

Facility Asset Management Design

PROJECT DESIGNED FOR:



FRONTIERLAND
UNIT NAME: TRADING POST
PROJECT J
4859 CARIBBEAN WAY, BAY LAKE, FL 32830
SHEET TITLE:

SHEET TITLE: _____

PKC

NO: DRAWING NO.:
DE-222.21

21

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

1
DE-222.21

ARCHITECT OR ENGINEER SEAL

**REVIEW
NOT FOR
CONSTRUCTION**

PROJECT IS NOT ACCEPTABLE
FOR PERMITTING IF PRINTED OR
DIGITIZED WITHOUT REGISTERED
P.E. SEAL AND SIGNATURE

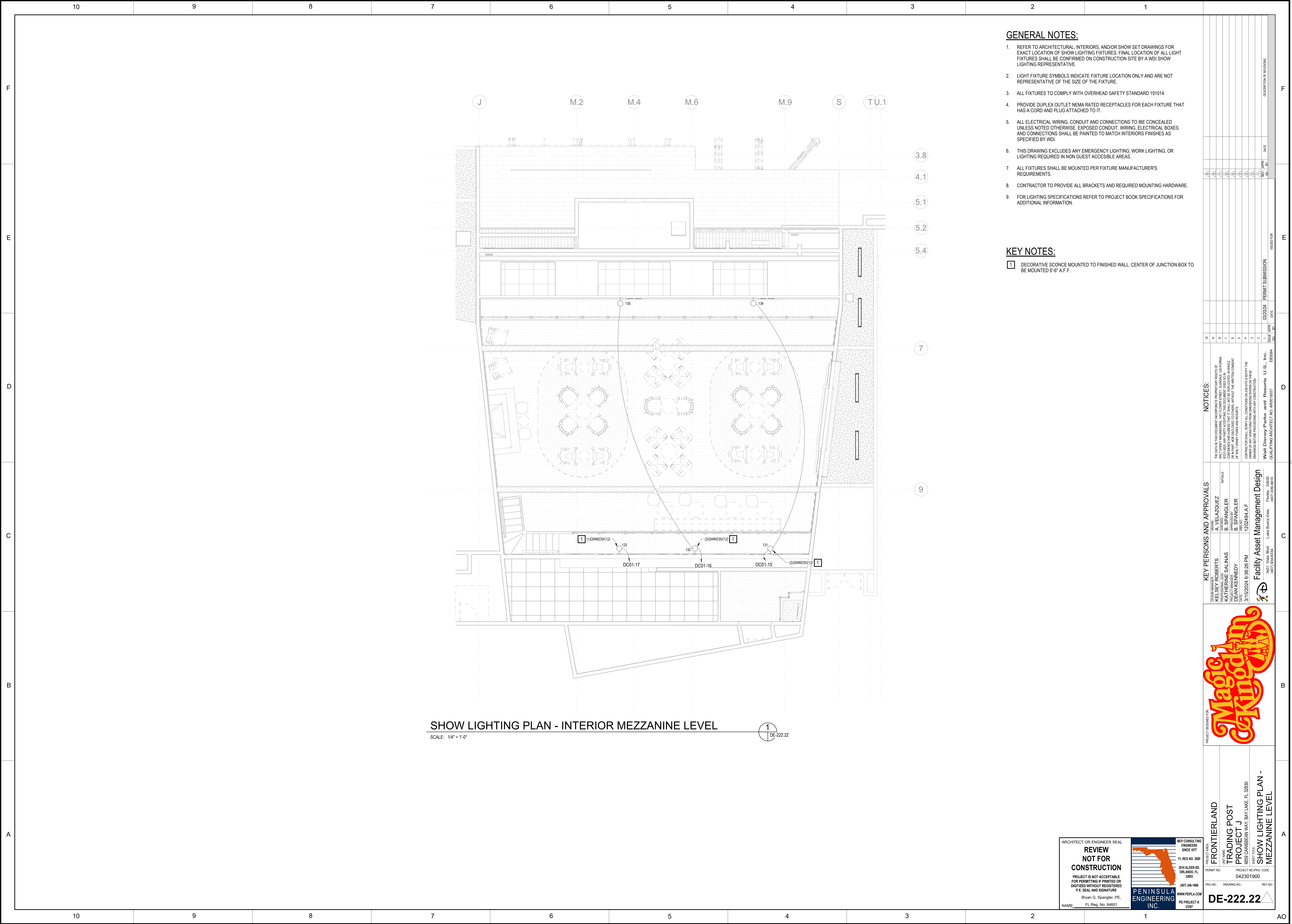
Bryan G. Spangler, PE,

NAME- FL Reg. No. 64601



MEP CONSULTING
ENGINEERS
SINCE 1977
FL REG NO. 3089
2016 ALDEN RD.
ORLANDO, FL.
32033
(407) 245-1683
WWW.PEFLA.COM
PEI PROJECT #:

PROJECT AREA: FRONT	UNIT NAME: TRADING PROJECT	4859 CARIBBEAN SHEET TITLE:
PERMIT NO.:	PROJECT NO./PKG 042301900	
PKG NO.:	DRAWING NO.:	
DE-222.21		



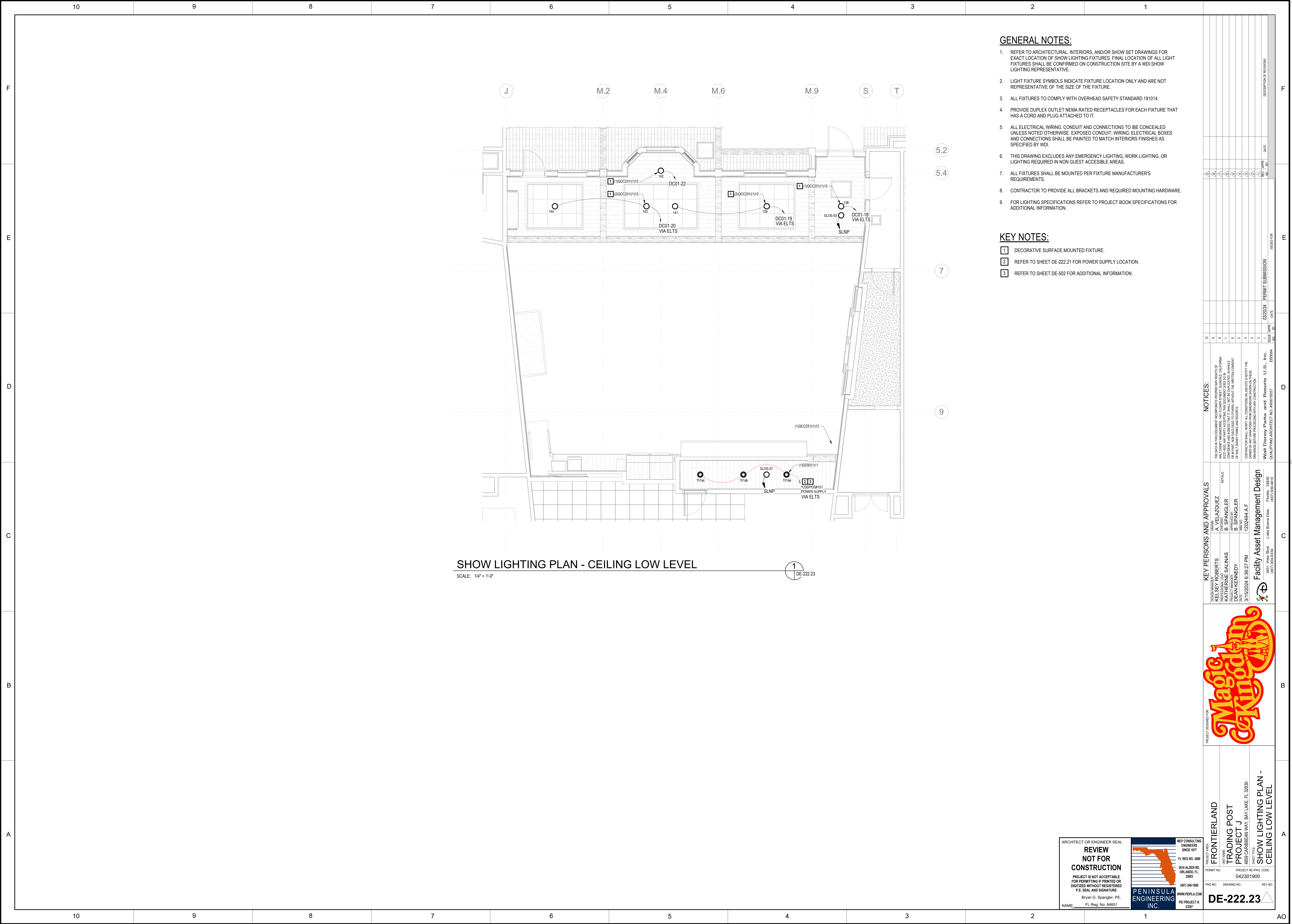
GENERAL NOTES:

- REFER TO ARCHITECTURAL, INTERIORS, AND/OR SHOW SET DRAWINGS FOR EXACT LOCATION OF SHOW LIGHTING FIXTURES. FINAL LOCATION OF ALL LIGHT FIXTURES SHALL BE CONFIRMED ON CONSTRUCTION SITE BY A WDI SHOW LIGHTING REPRESENTATIVE.
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- FOR LIGHTING SPECIFICATIONS REFER TO PROJECT BOOK SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES:

- 1 DECORATIVE SCONCE MOUNTED TO FINISHED WALL. CENTER OF JUNCTION BOX TO BE MOUNTED 6'-6" A.F.F.

PROJECT DESIGNED FOR		PROJECT AREA		PROJECT NO. / PKG. CODE		REV. NO.	
FRONTIERLAND		TRADING POST		042301900		DE-222.22	
PROJECT J		PROJECT J		042301900		DE-222.22	
4850 CARIBBEAN WAY, BAY LAKE, FL 32830		4850 CARIBBEAN WAY, BAY LAKE, FL 32830		4850 CARIBBEAN WAY, BAY LAKE, FL 32830		4850 CARIBBEAN WAY, BAY LAKE, FL 32830	
MEZZANINE LEVEL		MEZZANINE LEVEL		MEZZANINE LEVEL		MEZZANINE LEVEL	
PROJECT NO. / PKG. CODE		PROJECT NO. / PKG. CODE		PROJECT NO. / PKG. CODE		PROJECT NO. / PKG. CODE	
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GENERAL NOTES:

- REFER TO ARCHITECTURAL, INTERIORS, AND/OR SHOW SET DRAWINGS FOR EXACT LOCATION OF SHOW LIGHTING FIXTURES. FINAL LOCATION OF ALL LIGHT FIXTURES SHALL BE CONFIRMED ON CONSTRUCTION SITE BY A WDI SHOW LIGHTING REPRESENTATIVE.
- LIGHT FIXTURE SYMBOLS INDICATE FIXTURE LOCATION ONLY AND ARE NOT REPRESENTATIVE OF THE SIZE OF THE FIXTURE.
- ALL FIXTURES TO COMPLY WITH OVERHEAD SAFETY STANDARD 191014.
- PROVIDE DUPLEX OUTLET NEMA RATED RECEPTACLES FOR EACH FIXTURE THAT HAS A CORD AND PLUG ATTACHED TO IT.
- ALL ELECTRICAL WIRING, CONDUIT AND CONNECTIONS TO BE CONCEALED UNLESS NOTED OTHERWISE. EXPOSED CONDUIT, WIRING, ELECTRICAL BOXES AND CONNECTIONS SHALL BE PAINTED TO MATCH INTERIORS FINISHES AS SPECIFIED BY WDI.
- THIS DRAWING EXCLUDES ANY EMERGENCY LIGHTING, WORK LIGHTING, OR LIGHTING REQUIRED IN NON GUEST ACCESSIBLE AREAS.
- ALL FIXTURES SHALL BE MOUNTED PER FIXTURE MANUFACTURER'S REQUIREMENTS.
- CONTRACTOR TO PROVIDE ALL BRACKETS AND REQUIRED MOUNTING HARDWARE.
- FOR LIGHTING SPECIFICATIONS REFER TO PROJECT BOOK SPECIFICATIONS FOR ADDITIONAL INFORMATION.

KEY NOTES:

- DECORATIVE SURFACE MOUNTED FIXTURE.
- REFER TO SHEET DE-222.21 FOR POWER SUPPLY LOCATION.
- REFER TO SHEET DE-502 FOR ADDITIONAL INFORMATION.

PROJECT DESIGNED FOR		PROJECT AREA		PROJECT NO./PKG. CODE		REV NO.	
FRONTIERLAND		TRADING POST		PROJECT J		042301900	
PROJECT TITLE		SHOW LIGHTING PLAN -		CEILING LOW LEVEL		DE-222.23	
PROJECT NO.		PROJECT NO.		PROJECT NO.		PROJECT NO.	
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1	CHARACTER CHANDELIER SUSPENDED FROM FINISHED CEILING. SEE THEM LIGHTING DRAWINGS
2	REFER TO SHEET DE-222.21 FOR POWER SUPPLY LOCATION
3	REFER TO SHEET DE-502 FOR ADDITIONAL INFORMATION.

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CONTRACTOR SHALL VERIFY ALL CONDITIONS ON JOB SITE & NOTIFY THE OWNER OF ANY VARIATIONS FROM DIMENSIONS SHOWN ON THESE DRAWINGS BEFORE PROCEEDING WITH ANY CONSTRUCTION.

Walt Disney Parks and Resorts U.S., Inc.

	KELSEY ROBERTS PROGRAM MGR	A. VELAZQUEZ CHECKED	INITIALS
KATHERINE SALINAS PROJECT MGR	B. SPANGLER APPROVED BY		
DEAN KENNEDY DATE: 4/30/2024	B. SPANGLER WBS NO:		
	1202494.A.F		

Magic Kingdom

FRONTIERLAND
LAST NAME: TRADING POST
PROJECT J
4859 CARIBBEAN WAY, BAY LAKE, FL 32830
PROJECT NO./PKG. CODE: 042301900
SHEET TITLE: SHOW LIGHTING PLAN -
STATIONING: 0+00 TO 0+100

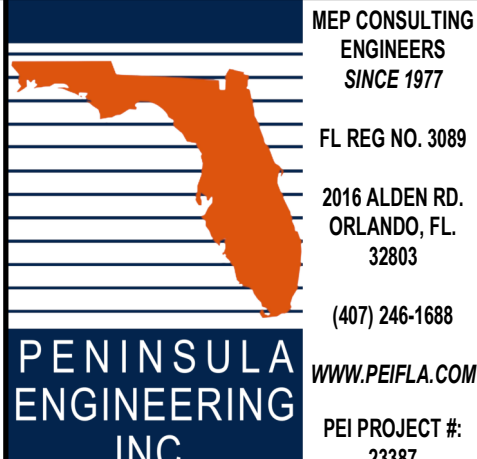
ARCHITECT OR ENGINEER SEAL

**REVIEW
NOT FOR
CONSTRUCTION**

PROJECT IS NOT ACCEPTABLE
FOR PERMITTING IF PRINTED OR
DIGITIZED WITHOUT REGISTERED
P.E. SEAL AND SIGNATURE

Bryan G. Spangler, P.E.

NAME: FL Reg. No. 64601



PKG NO.: DRAWING NO.: REV: **DE-222.24**

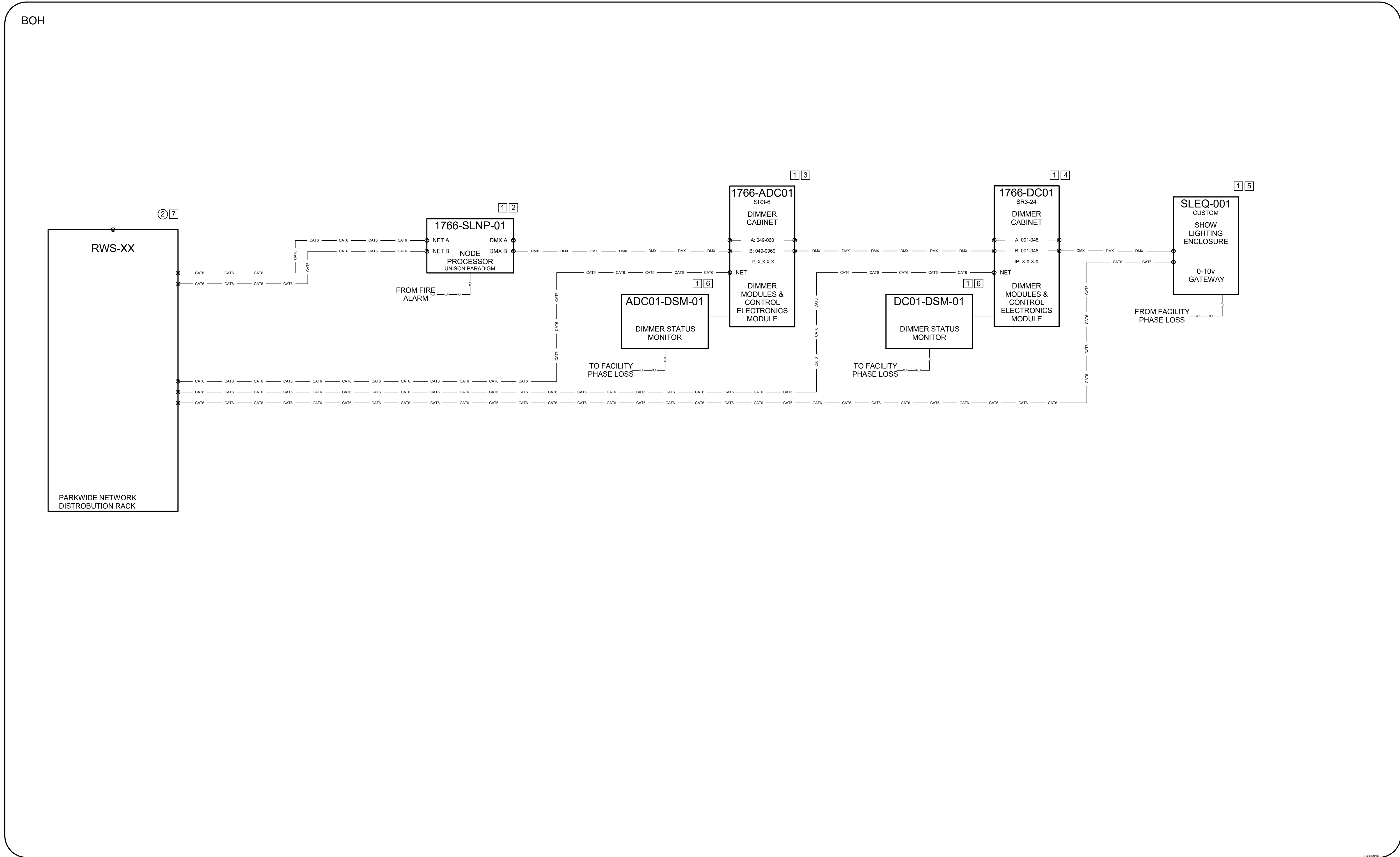
SCALE: 1/4" = 1'-0"

1
DE-222.24

PANEL ELTS1			
BYPASS CIRCUITS			
EMERGENCY		NORMAL	
CIRCUIT	(PHASE)	CIRCUIT	(PHASE)
ELTS-1 (A)		DCOI-1 (B)	
ELTS-2 (A)		DCOI-2 (A)	
ELTS-3 (B)		DCOI-3 (B)	
ELTS-4 (B)		DCOI-9 (B)	
ELTS-5 (C)		DCOI-11 (C)	
ELTS-6 (C)		DCOI-18 (A)	
ELTS-7 (A)		DCOI-19 (A)	
ELTS-8 (A)		DCOI-20 (A)	
ELTS-9 (B)		DCOI-10 (B)	
ELTS-10 (B)		DCOI-21 (B)	
ELTS-11 (C)		SPARE (C)	
ELTS-12 (C)		SPARE (C)	
ELTS-13 (A)		SPARE (A)	
ELTS-14 (A)		SPARE (A)	
ELTS-15 (B)		SPARE (B)	
ELTS-16 (B)		SPARE (B)	
ELTS-17 (C)		SPARE (C)	
ELTS-18 (C)		SPARE (C)	
ELTS-19 (A)		SPARE (A)	
ELTS-20 (A)		SPARE (A)	
ELTS-21 (B)		SPARE (B)	
ELTS-22 (B)		SPARE (B)	
ELTS-23 (C)		SPARE (C)	
ELTS-24 (C)		SPARE (C)	

DIMMER PANEL: DC01																		(EP)	
DATE:		3/15/2024														FEED: 120/208V 3PH-4W-G			
LUG #	MODULE TYPE	OUT #	DESCRIPTION	DIMMER SIZE	OUTPUT BREAKER	EMG CKT	0-10V	DIN	ONN	(FX TYPE)	LOAD PER FEED(WATT)	LOAD TYPE	LOAD	LOAD PHASE A	LOAD PHASE B	LOAD PHASE C	NOTES		
1	ELV04F	1	101, 105						2	QWVW231a	2		4						
2		2	104, 107						2	QWVW231b	2		4						
3	ELV04F	7	113, 118						2	QWVW234a/QWVW234	4	B	8						
4		8	120						1	QWVW234	2		2						
5	ELV04F	13	148						3	RE20	12	B	36						
6		14											0						
7		19	139, 141			Y			2	OCCE231	12		24	24					
8		20	143, 144						2	OCCE231	12		24	24					
9	ELV04F	25	161						4	CCH230	2	B	8						
10		26	161						4	CCH230	2	B	8						
11	R204F	31	162						4	CCH230	2	B	8						
12		32	162						4	CCH230	2	B	8						
13	R204F	37	164						4	CCH230	2	B	8						
14		38	164						4	CCH230	2	B	8						
15	ELV04F	43											0						
16		44											0						
17	ELV04F	3	103, 106						2	QWVW231a	2		4						
18		4	108						1	QWVW231a	2		2						
19	ELV04F	9	121						1	QWVW234	2		2						
20		10	122						1	QWVW234	2		2						
21		15	131, 134						2	QWVW235	2	4	4						
22	R204F	16	132						2	QWVW235	2	4	4						
23	R204F	21	151			Y			23	0230	11	B	253			253			
24		22	142						1	OCCE231	12		12						
25	ELV04F	27	161						4	CCH230	2	B	8						
26		28	163						4	CCH230	2	B	8						
27		33	163						4	CCH230	2	B	8						
28	ELV04F	34	163						4	CCH230	2	B	8						
29	ELV04F	39	164						4	CCH230	2	B	8						
30		40	164						4	CCH230	2	B	8						
31	ELV04F	45											0						
32		46											0						
33	ELV04F	5	109						1	QWVW232	2		2						
34		6	114, 117						2	QWVW234a/QWVW234	4	B	8						
35	ELV04F	11	126						1	F40X	100		100						
36		12	127						1	F40X	100		100						
37	ELV04F	17	133						1	QWVW235	2		2						
38		18	138			Y			1	OCCE231	12		12						
39	ELV04F	33											0						
40		24											0						
41		29	162						4	CCH230	2	B	8						
42	ELV04F	30	162						4	CCH230	2	B	8						
43		35	163						4	CCH230	2	B	8						
44		36	163						4	CCH230	2	B	8						
45	R204F	41											0						
46		42											0						
47	R204F	47											0						
48		48											0						
TOTAL CONNECTED WATTS												150	331	256					
TOTAL CONNECTED AMPS												1.25	2.76	2.13					
TOTAL DEMAND WATTS												1.56	3.45	2.67					
<u>LOAD LEGEND (INCLUDES TRANSFORMER AND BALLAST LOSSES WHERE APPLICABLE)</u>																			
LINE VOLTAGE INCANDESCENT (D20)																			
2-WIRE FLUORESCENT DIMMING (D201)																			
3-WIRE FLUORESCENT DIMMING (D201)																			
FLUORESCENT W/EMS FEED (D220F)																			
NON DM CIRCUIT (D220F)																			
MAGNETIC LOW VOLTAGE (ELV04)																			
ELECTRONIC LOW VOLTAGE (ELV10)																			
FLUORESCENT NON-DM																			
SWITCHED NON-DIMMING (D204F)																			
NOTES:																			
1)																			
2)																			

[illegible]



GENERAL NOTES

PROVIDE FULL COMMISSIONING OF DIMMING AND CONTROL SYSTEM BY E.T.C. FACTORY CERTIFIED TECHNICIAN. ALL NODE PROCESSOR, UNISON ACCESSORY, AND DIMMER RACK CONTROL TERMINATIONS TO BE COMPLETED AS PART OF DIMMING SYSTEM COMMISSIONING.

ALL OTHER DMX AND LIGHTING CONTROL TERMINATIONS TO BE COORDINATED BY ELECTRICAL CONTRACTOR.

ALL CABLES SHALL BE LABELED AT BOTH ENDS PER OWNER'S REQUIREMENTS.

ALL DMX CABLE CONNECTIONS TO BE SCREW TERMINAL, RJ-45 OR NEUTRIK 5-PIN XLR CONNECTORS (NC5FX-B/NC5MX-B). PROVIDE ADAPTERS AS NEEDED.

ALL DMX AND ETHERNET CABLES IN UNDERGROUND OR EXTERIOR CONDUIT TO BE RATED FOR EXTERIOR USE.

SUBSTITUTION OF LED AND/OR CONTROL PRODUCTS WILL REQUIRE ADDITIONAL CONTROL SYSTEM DESIGN EFFORTS.

CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS.
NOTIFY OWNER'S SHOW LIGHTING REPRESENTATIVE OF ANY DISCREPANCIES

PRIOR TO PROCEEDING WITH ASSOCIATED EFFORT
SEE SHEETS SL-500 THRU SL-5xx FOR ADDITIONAL LIGHTING CONTROL
CONNECTIONS

LEGEND

— CAT6 — ETHERNET CONNECTION - CAT6 CABLE PURPLE

—CAT6 x2— ETHERNET CONNECTION - (2) CAT6 CABLES PURPLE

— CAT6 x50 — ETHERNET CONNECTION - (16) CAT6 CABLES PURPLE

— DMX — DMX CABLE - IS/2TP#24 PURPLE - (TMB PC244TDIS)

DMX CABLE - S/2TP#22 FLEX - 5PIN XLR

———— MISC LOW VOLTAGE - CONSULT SPECS & SIZE APPROPRIATELY

—●— (2) #18AWG FOR DRY CONTACT INPUT

ETC ULP (UNISON LINK PROTOCOL). SEE SPECS
AND NOTES FOR CABLE TYPE

- ① DGN NETWORK - SL VLAN
- ② PARKWIDE LIGHTING CONTROL
- ③ ATTRACTOIN LIGHTING NETWORK
- ④ ATTRACTION LIGHTING CONTROL
- ⑤ ENTERTAINMENT LIGHTING CONTROL
- ⑥ SHOW CONTROL

SPECIFIC NOTES

- 1 CONTRACTOR PROVIDED CONTRACTOR INSTALLED
- 2 NEW SHOW LIGHTING NEW POWER PROCESSOR. REQUIRES (1) 120V 15A 1PH. (2) NETWORK CONNECTIONS TO NEAREST RWS SWITCH. SEE EQUIPMENT LIST FOR SPECIFICATIONS & PART #.
- 3 NEW (12) CIRCUIT AREA DEVELOPMENT DIMMER CABINET. REQUIRES 120V 50A 3PH. SEE EQUIPMENT LIST FOR SPECIFICATIONS & PART #.
- 4 NEW (48) CIRCUIT AREA DEVELOPMENT DIMMER CABINET. REQUIRES 120V 100A 3PH. SEE EQUIPMENT LIST FOR SPECIFICATIONS & PART #.
- 5 NEW 0-10V CONTROL GATEWAY IN ENCLOSURE TO BE UL924 RATED. REQUIRES (1) 120V 15A 1PH. SEE EQUIPMENT LIST FOR SPECIFICATIONS & PART #.
- 6 NEW DIMMER STATUS MONITOR TO BE TIED TO LAST CONFIGURED DIMMER. SEE EQUIPMENT LIST FOR EMERGENCY MONITORING. SEE EQUIPMENT LIST FOR SPECIFICATIONS & PART #.
- 7 RWS RACK BY OTHERS. TO BE COORDINATED WITH NETWORK TEAM TO DETERMINE BEST LOCATION TO CONNECT TO.

[illegible][illegible]



Facility Asset Management Design

3401 Vista Blvd
Lake Buena Vista,
Florida, 32830
(407) 950-4814

DESIGN MANAGER:	A. VELAZQUEZ
KELSEY ROBERTS	INITIALS
KATHERINE SALINAS	B. SPANGLER
PROJECT MANAGER	APPROVER:
DENN KENNEDY	B. SPANGLER
DATE:	VER NO:
3/15/2024 6:36:30 PM	1020494 A.F

PROJECT AREA:	FRONTIERLAND		
LANT NAME:	TRADING POST PROJECT J		
	4859 CARIBBEAN WAY, BAY LAKE, FL 32830		
	SHEET TITLE: SHOW LIGHTING CONTROLS INTERCONNECT		
PERMIT NO.:	PROJECT NO./PKG. CODE: 0423010.PKG. CODE:		
PKG NO.:	DRAWING NO.:	REV NO.:	
DE-501			

