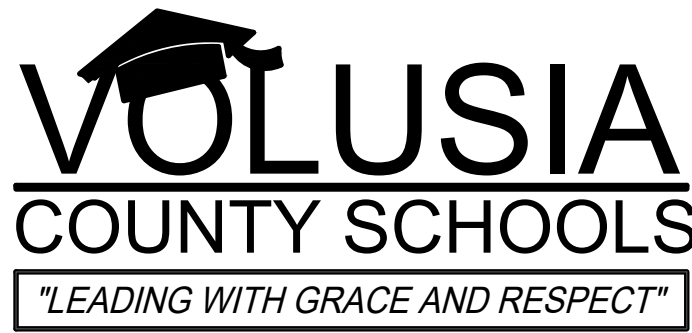




THE SCHOOL BOARD OF VOLUSIA
COUNTY FLORIDA
200 North Clara Avenue
Deland, Florida 32720

SILVER SANDS MIDDLE REPLACE STAGE LIGHTING AND SOUND SYSTEM

VCS Project NO. 2548133

1300 Herbert St.
Port Orange, FL 32129

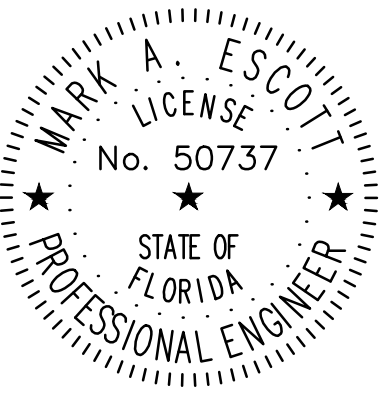
SCHOOL BOARD MEMBERS

JAMIE M. HAYNES	BOARD CHAIR
RUBEN COLON	BOARD VICE CHAIR
DONNA BROSEMER	MEMBER
KRISTA GOODRICH	MEMBER
JESSIE THOMPSON	MEMBER

CARMEN J. BALGOBIN	SUPERINTENDENT
--------------------	----------------

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SGM #: 2024-379



MARK A. ESCOTT FL-50737

DESCRIPTION OF WORK

REMOVE EXISTING STAGE LIGHTING AND SOUND SYSTEM. PROVIDE NEW STAGE LIGHTING FIXTURES, CONTROLS, SUPPOORTS, OUTELTS, CONDUIT AND WIRING. NEW SOUND SYSTEM INCLUDING EQUIPMENT, SPEAKERS, SUPPORTS, MICS, WIRELESS MICS, AMPLIFIERS, MIXERS, CONDUIT AND WIRE.

Engineer's Statement of Compliance
To the best of my knowledge, these drawings and the project manual are complete and comply with the 2023 Florida Building Code 8th edition.

BUILDING DATA

A. SURVEY PARCEL ID	XXX
B. LEGAL DESCRIPTION	XXX
C. OCCUPANCY TYPE	EDUCATIONAL
D. CONSTRUCTION TYPE	TYPE II: EDUCATIONAL
E. RISK CATEGORY	3
F. AUTOMATIC SPRINKLER	STAGE ONLY
G. BUILDING AREA	157,043
H. BUILDING HEIGHT	XXX
I. OCCUPANT LOAD	XXX

LOCATION MAP



NOT TO SCALE

ENGINEERS & CONSULTANTS

ELECTRICAL
SGM ENGINEERING
935 LAKE BALDWIN LANE
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SGM
ENGINEERING

DRAWING INDEX

G001 COVER SHEET

ELECTRICAL

E001	ELECTRICAL NOTES, SYMBOLS AND SPECIFICATIONS
ED201	ELECTRICAL DEMO LIGHTING & POWER FLOOR PLAN
E201	ELECTRICAL LIGHTING & POWER FLOOR PLAN
E501	ELECTRICAL ONE LINE DIAGRAMS
E701	ELECTRICAL PANEL SCHEDULES
E801	ELECTRICAL DETAILS
E802	ELECTRICAL DETAILS

SYSTEMS

ES001	SYSTEMS LEGEND
ESD201	SYSTEMS DEMO FLOOR PLAN
ES201	SYSTEMS FLOOR PLAN
ES601	SYSTEMS BLOCK DIAGRAMS

APPLICABLE CODES

ALL WORK COMPLETED UNDER THE SCOPE OF THIS PROJECT SHALL, AS A MINIMUM, COMPLY WITH THE LAWS, RULES, STANDARDS AND DECISIONS WITH THE LATEST AMENDMENTS OF THE GOVERNMENTAL UNITS HAVING STATUTORY JURISDICTION OVER THIS PROJECT:

- a. FLORIDA BUILDING CODES 8TH EDITION (2023)
- b. NATIONAL ELECTRIC CODE, NFPA 70 (2020)
- c. NATIONAL FIRE-ALARM CODE, NFPA 72 (2019)
- d. FLORIDA FIRE PREVENTION CODE 8TH EDITION (2023)
- e. STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (SREF) - 2014 ED.
- f. FEDERAL OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)

SILVER SANDS MIDDLE
REPLACE STAGE LIGHTING
AND SOUND SYSTEM
VCS Project NO. 2548133
100 WOLF PACK RUN,
DELTONA, FL 32725

ENGINEER MARK A. ESCOTT	
DESIGNED BY	DRAWN BY
ISSUE DATE 10/13/2025	AE PROJECT NUMBER 2024-379
SHEET TITLE COVER SHEET	
DRAWING NO. G001	

CONSTRUCTION DOCUMENTS 10/13/25

FILE: Q:\PROJECT FILES\2024\2024-379 VCS SILVER SANDS MS STAGE DRAWINGS\1600--E001--2024379.DWG
PRINTED: 10/19/2025
LAST SAVED BY: MARK

LIGHTING FIXTURES

	1'x4' FIXTURE
	2'x2' FIXTURE
	2'x4' FIXTURE
	4' WALL MOUNT FIXTURE
	4' WALL MOUNT FIXTURE, EMERGENCY
	1'x4' FIXTURE, BATTERY/EMERGENCY
	2'x2' FIXTURE, BATTERY/EMERGENCY
	2'x4' FIXTURE, BATTERY/EMERGENCY
	4' STRIP FIXTURE
	4' STRIP FIXTURE, BATTERY/EMERGENCY
	4' STRIP FIXTURE, WALL MOUNTED
	4' STRIP FIXTURE, WALL MOUNTED, BATTERY/EMERGENCY
	TRACK FIXTURE
	CEILING MOUNTED RECESSED, DOWN LIGHT
	CEILING MOUNTED RECESSED, EMERGENCY DOWN LIGHT
	SURFACE MOUNTED LIGHTING FIXTURE
	WALL MOUNTED SCONCE FIXTURE, BATTERY/EMERGENCY
	EMERGENCY LIGHT FIXTURE
	SINGLE FACE EXIT LIGHT FIXTURE ARROW INDICATES DIRECTION OF EGRESS
	DOUBLE FACE EXIT LIGHT FIXTURE ARROW INDICATES DIRECTION OF EGRESS

SWITCHES

	SWITCH
	SWITCH, 2 POLE
	SWITCH, 3-WAY
	SWITCH, 4-WAY
	SWITCH, 1 POLE, LETTER INDICATES SWITCH/LEG CONTROLLED.
	SWITCH, LOW VOLTAGE MOMENTARY, HUBBELL I-5571 OR EQUAL
	SWITCH, 0-10 VOLT DIMMING, LUTRON DIVA DV/STV OR EQUAL
	SWITCH, THREE-WAY, 0-10 VOLT DIMMING, LUTRON DIVA DV/STV OR EQUAL
	SWITCH, 120/277 VAC, LINE VOLTAGE ROTARY TIMER WITH HOLD-ON, TORK A508HH OR EQUAL

LIGHTING CONTROL DEVICES

	TIMECLOCK
	LIGHTING CONTACTOR
	*DUAL ULTRASONIC/PIR-CEILING MOUNT SENSOR, 24 VDC/VAC, 35mA, WATTSTOPPER DT-305 OR EQUAL.
	*DUAL ULTRASONIC/PIR-WALL MOUNT SENSOR, 24 VAC/VDC, 35mA, WATTSTOPPER DT-205 OR EQUAL.
	*PIR-CEILING MOUNT HIGH-BAY SENSOR, 24 VDC/VAC, 500mA, 360° LENS, HUBBELL WASP 2 OR EQUAL.
	DUAL ULTRASONIC/PIR-WALL SWITCH DECORATOR MOTION SENSOR, 120/277VAC, 800/1200W, VANDAL RESISTANT LENS, WATTSTOPPER DW-100 OR EQUAL.
	UL 924 LISTED FAILSAFE EMERGENCY SWITCHING RELAY, LVS EPC-D OR EQUAL. LOWER CASE LETTER NEXT TO DEVICE INDICATES SWITCH/LEG CONTROLLED, PROVIDE LABEL ON GRID OR ACCESS PANEL TO IDENTIFY RELAY LOCATION.
	POWER PACK 120/277 VAC; 20 AMPS, 225mA SECONDARY, WATTSTOPPER BZ-250 OR EQUAL.
	*FOR LOW VOLTAGE OCCUPANCY SENSORS, PROVIDE POWER PACK(S) 120/277 VAC, 20 AMPS, 225mA SECONDARY AS NEEDED FOR ZONE/AREA CONTROL. WATTSTOPPER BZ-250 OR EQUAL.

POWER DISTRIBUTION

	120/208V PANELBOARD, RECESSED
	120/208V PANELBOARD, SURFACE MOUNT
	277/480V PANELBOARD, SURFACE MOUNT
	277/480V PANELBOARD, RECESSED
	FEEDER OR BRANCH CIRCUIT CONCEALED IN WALL, CEILING OR FLOOR
	HOMERUN CONSISTING OF ONE SINGLE-PHASE, 1-POLE CIRCUIT, SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.
	HOMERUN CONSISTING OF ONE SINGLE-PHASE, 2-POLE CIRCUIT: SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.
	HOMERUN CONSISTING OF TWO SINGLE-PHASE CIRCUITS: SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.
	HOMERUN CONSISTING OF THREE SINGLE-PHASE CIRCUITS: SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.
	HOMERUN CONSISTING OF ONE THREE-PHASE CIRCUITS: SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.

POWER DEVICES

	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE
	ABOVE COUNTER DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE, HALF SWITCHED
	SPECIAL PURPOSE RECEPTACLE
	SINGLE 250V NON-LOCKING TYPE RECEPTACLE
	DUPLEX RECEPTACLE FOR COMPUTER WORKSTATION
	QUAD RECEPTACLE FOR COMPUTER WORKSTATION
	DUPLEX RECEPTACLE FOR TV LOCATED AT 84" AFF UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE FOR TV LOCATED AT 18" AFF. LOCATE IN COMMON BOX WITH CCTV
	DUPLEX RECEPTACLE FOR INTERACTIVE BOARD. SEE DETAIL 1 ON SHEET ES801.
	CEILING MOUNTED RECEPTACLE
	RECESSED FLOOR RECEPTACLE
	DUPLEX RECEPTACLE, GROUND FAULT
	DUPLEX RECEPTACLE, GROUND FAULT, ABOVE COUNTER
	QUAD RECEPTACLE, GROUND FAULT
	DISCONNECT SWITCH
	MOTOR STARTER
	STARTER/DISCONNECT SWITCH
	VARIABLE FREQUENCY DRIVE
	JUNCTION BOX
	FLOOR MOUNTED JUNCTION BOX
	EQUIPMENT CONNECTION
	DOOR BELL PUSH BUTTON
	TRANSFORMER
	SHUNT TRIP, MTD. AT 6'-5" AFF/AFG TO TOP OF ENCLOSURE
	MOTOR
	GROUND BUS BAR
	GROUND ROD WITH TEST INSPECTION WELL. SEE SPECIFICATIONS.
	SURGE PROTECTION DEVICE. SEE SPECIFICATIONS.

THEATRICAL DEVICES

	THEATRICAL LIGHTING NETWORK WALL SWITCH, 2 BUTTON PRESET
	THEATRICAL LIGHTING NETWORK KEYED WALL SWITCH, 4 BUTTON PRESET
	THEATRICAL LIGHTING 2 PORT DMX GATEWAY
	THEATRICAL LIGHTING CONTROL CONSOLE
	THEATRICAL LIGHTING STAGE WIREWAY CONNECTION POINT
	THEATRICAL LIGHTING PLUGBOX

MISCELLANEOUS SYMBOL LEGEND

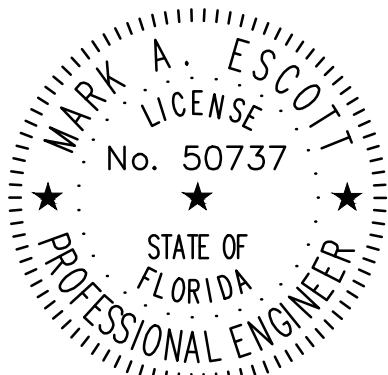
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	TITLE
	SCALE:
	SHEET NUMBER WHERE DETAIL IS REFERENCED
	ADDITIONAL SHEET REFERENCES
	DETAIL NUMBER
	SHEET NUMBER TO WHERE DETAIL IS REFERENCED

ABBREVIATIONS

A	AMPERES
AE	AUDIO ENHANCEMENT
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERES INTERRUPTING CAPACITY
AL	ALUMINUM
AWG	AMERICAN WIRE GAUGE
BFC	BELOW FINISHED CEILING
BFG	BELOW FINISHED GRADE
C	CONDUIT
CAB	CABINET
CKT	CIRCUIT
CLG	CEILING
CL	CENTERLINE
CT's	CURRENT TRANSFORMERS
CU	COPPER
DISC	DISCONNECT(ING)
DWG	DRAWING(S)
EA	EACH
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
EQUIP	EQUIPMENT
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWI	ELECTRIC WATER HEATER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPLOSION PROOF
FA	FIRE ALARM
FLA	FULL LOAD AMPERES
FLUOR	FLUORESCENT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND
HGT	HEIGHT
HID	HIGH INTENSITY DISCHARGE
HPS	HIGH PRESSURE SODIUM
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HVAC	HEATING/VENTILATING/ AIR CONDITIONING
HV	HIGH VOLTAGE
INC	INCANDESCENT
JB	JUNCTION BOX
KV	KILO-VOLTS
kVA	KILO-VOLTS-AMPERES
kVAR	KILO-VOLTS-AMPERES REACTIVE
kW	KILO-WATTS
KWH	KILO-WATT-HOURS
LTG	LIGHTING
m	METER
mm	MILLIMETER
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MFR	MANUFACTURER
MH	METAL HALIDE
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUG ONLY
MMS	MANUAL MOTOR STARTER SWITCH
MTR	MOTOR
MTD	MOUNTED
MTG	MOUNTING
NAC	NOTIFICATION APPLIANCE CIRCUIT
NEC	NATIONAL ELECTRICAL CODE
NL	NIGHT LIGHT, UNSWITCHED
PNL	PANEL
PSI	PULL STATION INSIDE
PVC	POLYVINYL CHLORIDE
REC	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
SPD	SURGE PROTECTION DEVICE
TEL	TELEPHONE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VA	VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WP	WEATHER PROOF
XFMR	TRANSFORMER

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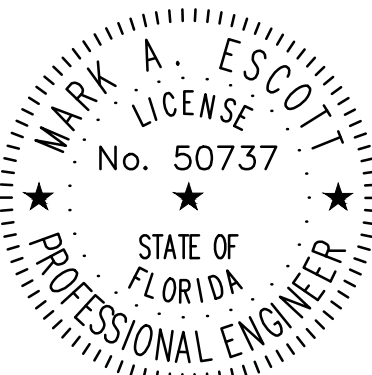
MARK ESCOTT FL- 50737

REVISIONS

NO.	DATE	DESCRIPTION
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SILVER SANDS MIDDLE
REPLACE STAGE LIGHTING
AND SOUND SYSTEM
VCS Project NO. 2548133
100 WOLF PACK RUN.
DELTONA, FL 32725

ENGINEER MARK A. ESCOTT	
DESIGNED BY	DRAWN BY
ISSUE DATE 10/13/2025	AE PROJECT NUMBER 2024-379
SHEET TITLE ELECTRICAL NOTES, SYMBOLS AND SPECIFICATIONS	
DRAWING NO. E001	



MARK ESCOTT FL- 50737

REVISIONS

DOCUMENT HISTORY

DESCRIPTION

NO. DATE

SILVER SANDS MIDDLE
REPLACE STAGE LIGHTING
AND SOUND SYSTEM
VCS Project NO. 2548133
100 WOLF PACK RUN.
DELTONA, FL 32725

ENGINEER
MARK A. ESCOTT

DESIGNED BY

DRAWN BY

ISSUE DATE

10/13/2025

AE PROJECT NUMBER

2024-379

SHEET TITLE

ELECTRICAL DEMO
LIGHTING & POWER
FLOOR PLAN

DRAWING NO.

ED201

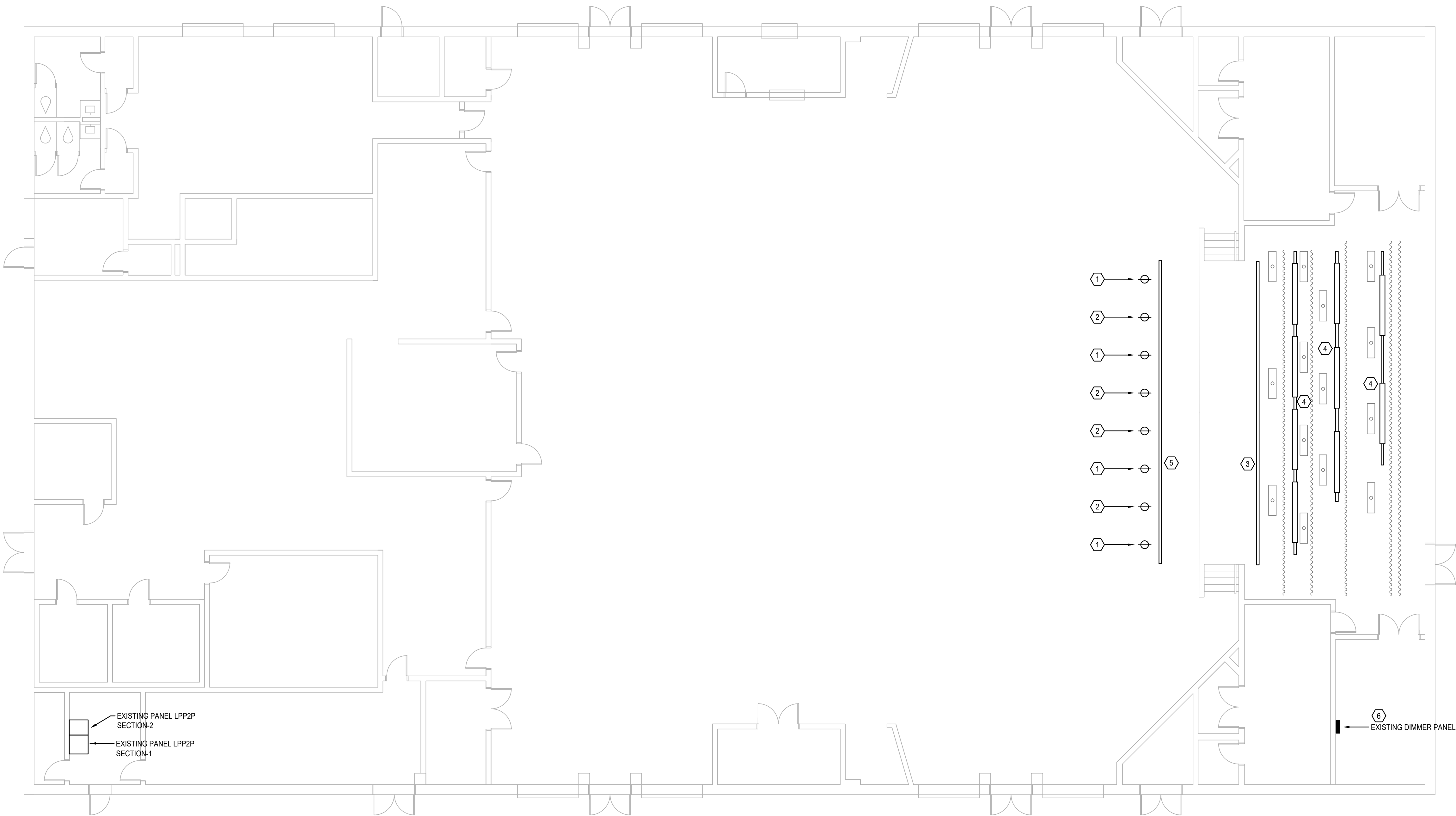
GENERAL NOTES:

- REFER TO SYMBOL LEGEND NOTES ON SHEET E-001.
- REFER TO BOOK SPECIFICATIONS.
- UNLESS OTHERWISE NOTED, WHERE EXISTING CONDUITS AND CONDUCTORS ARE NOTED TO BE REMOVED, THEY ARE TO BE REMOVED IN THEIR ENTIRETY BACK TO THE POINT OF ORIGIN.
- ALL DEMOLISHED EQUIPMENT AND FIXTURES NOTED TO BE SALVAGED, SHALL BE DELIVERED TO THE OWNER. TRANSPORT ITEMS TO OWNERS DESIGNATED STORAGE AREA WITHIN 25 MILES OF THE SITE. SHOULD THE OWNER DECIDE NOT TO RECEIVE THESE ITEMS, THE CONTRACTOR WILL REMOVE FROM THE SITE AND DISPOSE IN A LEGAL MANNER TO AN EPA APPROVED LANDFILL. COMPLY WITH ALL NATIONAL, STATE AND LOCAL REQUIREMENTS WITH REGARD TO HAZARDOUS MATERIALS REMOVAL, HANDLING AND DISPOSAL.
- REMOVE ALL CONDUIT AND WIRE, FROM REMOVED ITEMS, BACK TO THE SOURCE UNLESS IT IS TO BE RE-USED FOR NEW WORK.
- MAINTAIN CIRCUITS TO EXISTING ITEMS THAT ARE NOT BEING REMOVED SO THAT THEY WILL REMAIN COMPLETELY FUNCTIONAL DURING CONSTRUCTION AND AT THE COMPLETION OF CONSTRUCTION.
- VISIT THE EXISTING FACILITY AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
- COORDINATE WITH THE OWNER AND OWNERS REPRESENTATIVE ANY POWER OUTAGES THAT MAY AFFECT THE OWNER IN ANY MANNER. 72 HOUR PRIOR NOTICE SHOULD BE GIVEN TO THE OWNER FOR ALL COORDINATED OUTAGES.
- ALL EXISTING ITEMS ARE SHOWN FOR REFERENCE ONLY UNLESS OTHERWISE NOTED.
- THE EMERGENCY LIGHTING IN ALL OCCUPIED PORTIONS OF THE BUILDING INCLUDING THE EGRESS PATH FOR THOSE OCCUPANTS SHALL BE MAINTAINED ION OPERATING CONDITION AT ALL TIMES THROUGHOUT THE CONSTRUCTION.
- NOTIFY THE CONSTRUCTION MANAGER SEVEN (7) DAYS PRIOR TO THE START OF ANY DEMOLITION WORK. NOTIFICATION SHALL INCLUDE A GENERAL LIST OF SERVICES AFFECTED AND A SCHEDULE OF WORK TO BE PERFORMED.

PLAN KEY NOTES:

7

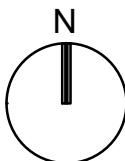
- EXISTING CEILING SIMPLEX RECEPTACLE IS TO BE REMOVED ALONG WITH BRANCH CIRCUIT WIRE BACK TO THE SOURCE. FOR REPLACEMENT WITH NEW TWIST-LOCK RECEPTACLE. REFER TO RENOVATION PLAN.
- EXISTING CEILING SIMPLEX RECEPTACLE IS TO BE REMOVED ALONG WITH WIRE BACK TO THE SOURCE. PROVIDE BLANK COVER ON EXISTING BOX.
- REMOVE EXISTING THEATRICAL LIGHTING BATTEN/ WIREWAY AND BRANCH CIRCUIT CONDUCTORS BACK TO THE SOURCE. THIS LOCATION WILL BE USED FOR THE NEW BATTENS AND CONNECTOR BOXES. REWORK CONDUIT FOR CONNECTION TO THE NEW BOXES. REMOVE ALL LIGHTING OFF BATTENS AND DISPOSE OF UNLESS THE OWNER ELECTS TO KEEP THE FIXTURES FOR FUTURE USE.
- REMOVE EXISTING BORDER LIGHTS, SUPPORTS, BRANCH CIRCUIT WIRE, ETC. THESE LOCATIONS WILL NOT BE NEEDED FOR FUTURE WORK. REMOVE ALL LIGHTING AND DISPOSE OF UNLESS THE OWNER ELECTS TO KEEP THE FIXTURES FOR FUTURE USE. CONDUIT MAY BE REUSED FOR NEW LIGHTING CIRCUITS.
- EXISTING SUPPORT CHANNEL IS TO REMAIN FOR ADDITIONAL SUPPORT OF NEW BATTEN.
- REMOVE EXISTING THEATRICAL DIMMING PANEL. BRANCH CIRCUITS ARE BEING REMOVED. THE FEEDER WIRE AND CONDUIT MAY REMAIN FOR REUSE.

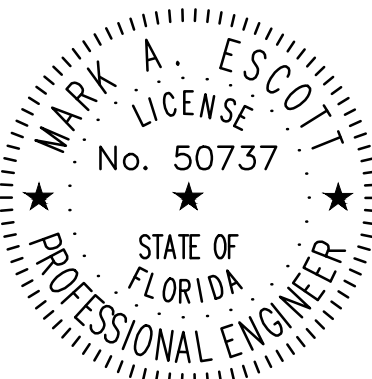


ELECTRICAL DEMO LIGHTING FLOOR PLAN

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

0 4' 8' 16'





MARK ESCOTT FL- 50737

REVISIONS

DOCUMENT HISTORY

NO. DATE DESCRIPTION

SILVER SANDS MIDDLE
REPLACE STAGE LIGHTING
AND SOUND SYSTEM
VCS Project NO. 2548133
100 WOLF PACK RUN.
DELTONA, FL 32725

ENDOR OF RECORD

ENGINEER
MARK A. ESCOTT

DESIGNED BY

DRAWN BY

ISSUE DATE

AE PROJECT NUMBER

10/13/2025

2024-379

SHEET TITLE

ELECTRICAL LIGHTING &
POWER FLOOR PLAN

DRAWING NO.

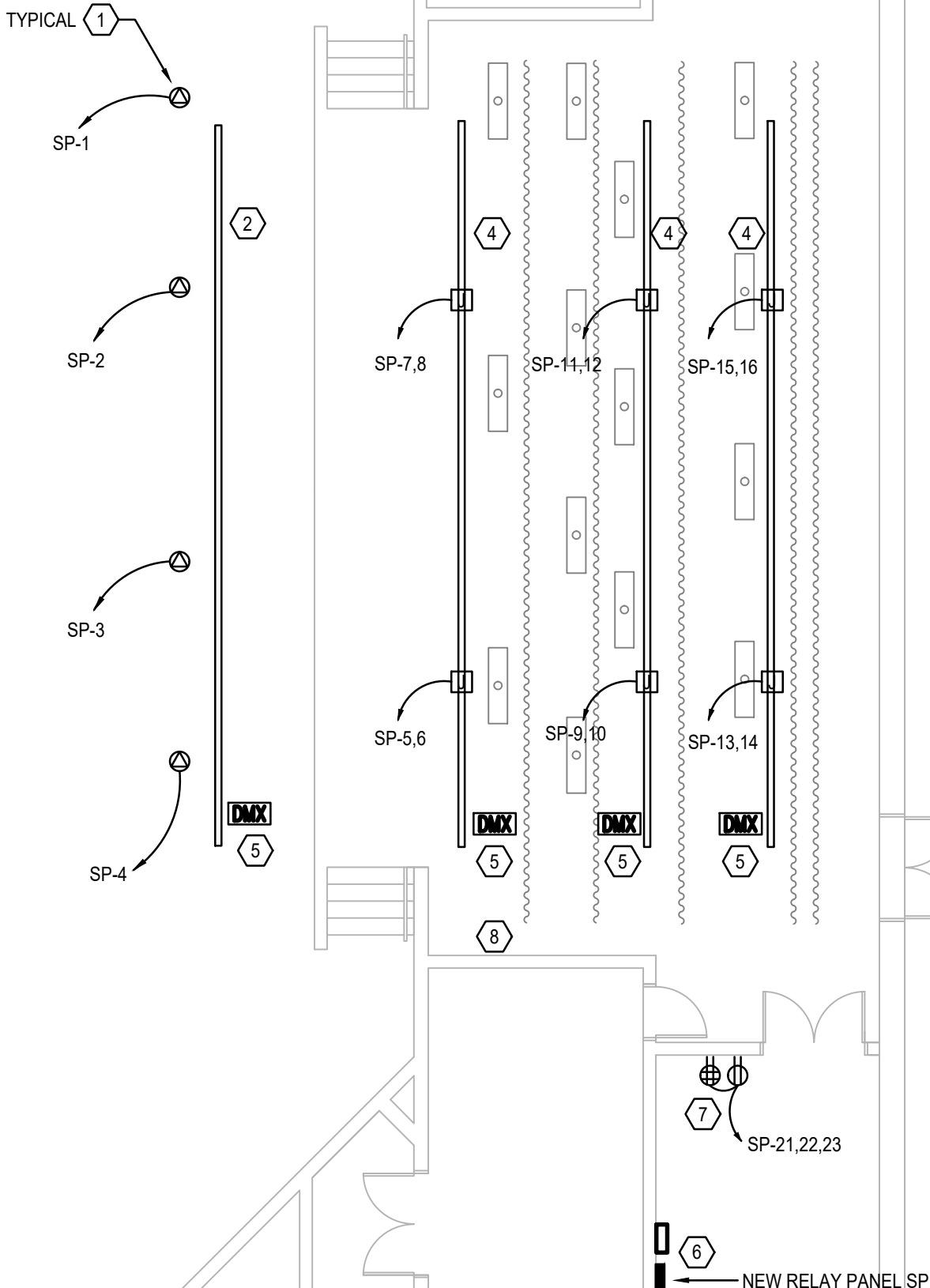
E201

GENERAL NOTES:

- REFER TO SYMBOL LEGEND NOTES ON SHEET E-001.
- REFER TO BOOK SPECIFICATIONS.
- MAINTAIN CIRCUITS TO EXISTING ITEMS THAT ARE NOT BEING REMOVED SO THAT THEY WILL REMAIN COMPLETELY FUNCTIONAL DURING CONSTRUCTION AND AT THE COMPLETION OF CONSTRUCTION.
- VISIT THE EXISTING FACILITY AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS. SO AS TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
- COORDINATE WITH THE OWNER AND OWNERS REPRESENTATIVE ANY POWER OUTAGES THAT MAY AFFECT THE OWNER IN ANY MANNER. 72 HOUR PRIOR NOTICE SHOULD BE GIVEN TO THE OWNER FOR ALL COORDINATED OUTAGES.
- PROVIDE DEDICATED NEUTRAL FOR ALL CIRCUITS GOING BACK TO THE STAGE PANEL.
- THE EMERGENCY LIGHTING IN ALL OCCUPIED PORTIONS OF THE BUILDING INCLUDING THE EGRESS PATH FOR THOSE OCCUPANTS SHALL BE MAINTAINED IN OPERATING CONDITION AT ALL TIMES THROUGHOUT THE CONSTRUCTION.

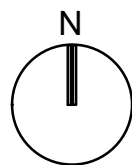
PLAN KEY NOTES:

- PROVIDE NEW TWISTLOCK RECEPTACLE TO REPLACE SIMPLEX RECEPTACLE REMOVED IN DEMOLITION PHASE. PROVIDE NEW WIRE BACK TO THE RELAY PANEL IN EXISTING/MODIFIED CONDUIT.
- PROVIDE NEW PIPE BATTEN AS SHOWN IN DETAIL 3 OF E802. BATTEN SHALL ATTACH TO EXISTING CHANNEL IN CEILING FOR 2 SUPPORTS OF THE FLANGE. THE OTHER 2 SUPPORTS ON THE FLANGE SHALL BE SUPPORTED BY THREADED ROD UP TO STRUCTURE ABOVE WITH 1 1/2" UNISTRUT TO SPAN BETWEEN STRUCTURAL MEMBERS IF REQUIRED BASED ON SUPPORT LOCATIONS DIRECTLY ABOVE. CUT, REPAIR AND PAINT CEILING IF REQUIRED TO GET THE ADDITIONAL SUPPORTS INSTALLED.
- PROVIDE NEW DMX CONNECTION BOX ON WALL FOR CONNECTION TO THE LIGHTING CONTROLLER. SEE LIGHTING CONTROL DRAWING FOR DETAILS OF CONNECTION AND WIRING. PROVIDE WIRING IN 1" CONDUIT.
- PROVIDE NEW 40' SCH 40 BLACK STEEL PIPE BATTENS AND (2) 2 CKT CONNECTION BOXES WITH (3) PIGTAIL L5-20R TL FEMALE OUTLETS (ETC # 9302C-U) AT 10' IN FROM EACH END OF THE BATTENS FOR NEW THEATRICAL LIGHTING. RELOCATE EXISTING UNISTRUT SUPPORTS AT CEILING JOIST TO THE NEW LOCATIONS AS SHOWN ON THE DRAWINGS. EXISTING BRANCH CIRCUIT CONDUITS MAY BE MODIFIED/EXTENDED AND USED BACK TO THE LOCATION OF THE NEW RELAY PANEL. PULL NEW BRANCH CIRCUIT WIRE WITH DEDICATED NEUTRALS BACK TO NEW PANEL RELAY PANEL SP. SEE DETAILS ON E801 FOR ADDITIONAL INFO.
- PROVIDE NEW DMX CONNECTION BOX AT BATTEN. FLUSH MOUNT IN CEILING AT FOH LOCATION AND SURFACE MOUNT TO STRUT ABOVE BATTEN AT ELECTRICS 1-3.
- PROVIDE NEW RELAY PANEL SP. SEE ONE LINE DRAWING FOR FEEDER INFORMATION. LOCATE NEW DIM MOUNT CONTROL ENCLOSURES (EDMXC AND RSN-OPTO) ON WALL NEXT TO THE NEW RELAY PANEL. PROVIDE MIN 3/4" CONDUIT FOR ALL DMX CABLING BETWEEN PANELS AND CONNECTION BOXES. PROVIDE NEW 120V CIRCUIT TO RSN-OPTO AND EDMXC FROM NEW PANEL SP-24.
- PROVIDE NEW RECEPTACLE CIRCUITS FOR NEW AUDIO SYSTEM.
- PROVIDE PRESET SCENE CONTROLLER. SEE ONE LINE ON E801 FOR DETAILS.



ELECTRICAL LIGHTING FLOOR PLAN

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



Theatrical, Dim Bar and Work Light Schedule

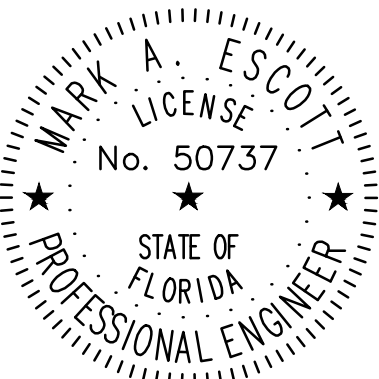
Quantity	Fixture Description	Model	Voltage (V)	Power (W)	DMX Ch	LED	Accessories Included	Accessories Separate
FRONT OF HOUSE								
8	Colorsourse Spot 25 Deg & 36 Deg	CSSPOT VMVS With 426EDLT & 436EDLT fixed Lens Tubes	120	197	8	RGBI-L	Hang Yoke, Power cable (T1PA-C), 400PH-A pattern holder	1,2,5,6
7	Colorsourse Par	CSPAR	120	90	6	RGB-L	Hang Yoke, Power cable (DPA-C)	1,2,3,5,6
Total					70			
1ST ELECTRIC								
8	Colorsourse Par	CSPAR	120	90	6	RGB-L	Hang Yoke, Power cable (DPA-C)	1,2,3,5,6
Total					48			
2ND ELECTRIC								
5	Colorsourse Par	CSPAR	120	90	6	RGB-L	Hang Yoke, Power cable (DPA-C)	1,2,3,5,6
Total					30			
3RD ELECTRIC								
5	Colorsourse CYC	CSCYC	120	133	7	RGBI-L	Hang Yoke, Power cable (DPA-C)	1,2,5
Total					35			
Notes								
1	Provide with C-Clamp #400CC							
2	Provide With Safety Cable #400SC							
3	Provide with narrow, medium and wide lens SELRN-7.5, SELRM-7.5, and SELRW-7.5							
4	Provide with DPJ-5 powercon fixture jumper							
5	Provide with DMX Cable to nearest fixture							
6	Provide a total quantity of (8) ET C DPJ-5 and (8) ET C DPJ-10 Power Con to Power Con Jumpers							

GENERAL NOTES:

- a. REFER TO SYMBOL LEGEND AND GENERAL NOTES ON SHEET E001.
- b. REFER TO BOOK SPECIFICATIONS.
- c. REFER TO PANEL FEEDER SCHEDULES FOR ALL NEW PANEL FEEDER CONDUIT AND WIRE SIZES.
- d. REFER TO EQUIPMENT SCHEDULES ON E600 SERIES SHEETS FOR DISCONNECT, CONDUIT AND WIRE SIZES FOR EQUIPMENT.
- e. ALL FEEDERS ARE TO HAVE LESS THAN 2% TOTAL VOLTAGE DROP AND ALL BRANCH CIRCUITS SHALL HAVE LESS THAN 3% VOLTAGE DROP.
- f. EQUIPMENT SHOWN SCREENED IS EXISTING TO REMAIN. EQUIPMENT SHOWN DARK IS NEW TO BE REMOVED OR PROVIDED.

PLAN KEY NOTES:

1. EXISTING STAGE DIMMING PANEL IS TO BE REMOVED FOR REPLACEMENT WITH NEW. CONDUIT AND CONDUCTORS MAY BE SALVAGED FOR REUSE.
2. PROVIDE NEW MAIN BREAKER RELAY PANEL. MODIFY FEEDER AND BRANCH CONDUIT AND CONDUCTORS TO ACCOMMODATE THE NEW RELAY PANEL INSTALLATION.



MARK ESCOTT FL- 50737

REVISIONS

DOCUMENT HISTORY

DESCRIPTION

NO. DATE

SILVER SANDS MIDDLE
REPLACE STAGE LIGHTING
AND SOUND SYSTEM
VCS Project NO. 2548133
100 WOLF PACK RUN.
DELTONA, FL 32725

ENGINEER

MARK A. ESCOTT

ENDOR OF RECORD

DESIGNED BY

DRAWN BY

ISSUE DATE

10/13/2025

AE PROJECT NUMBER

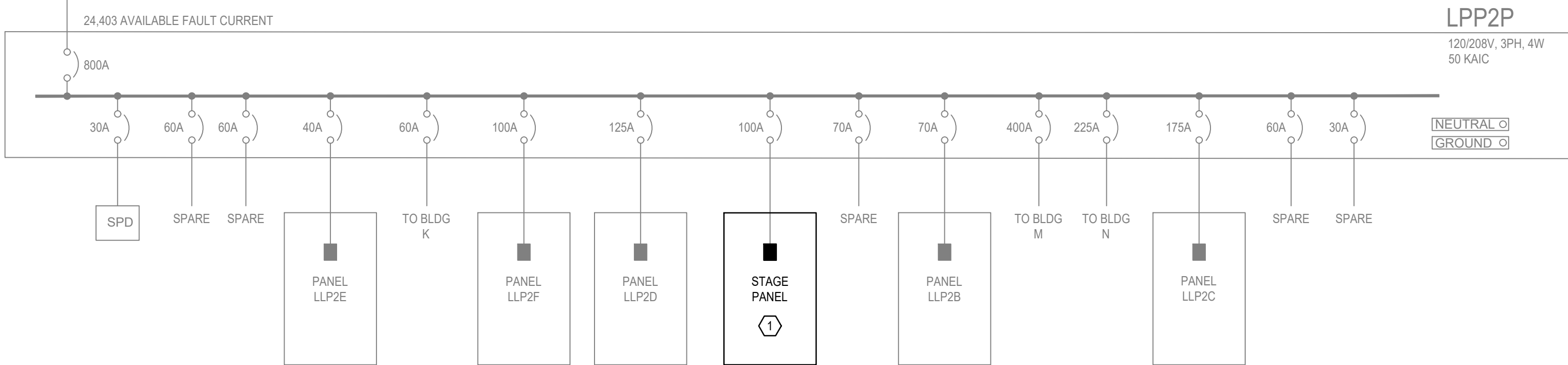
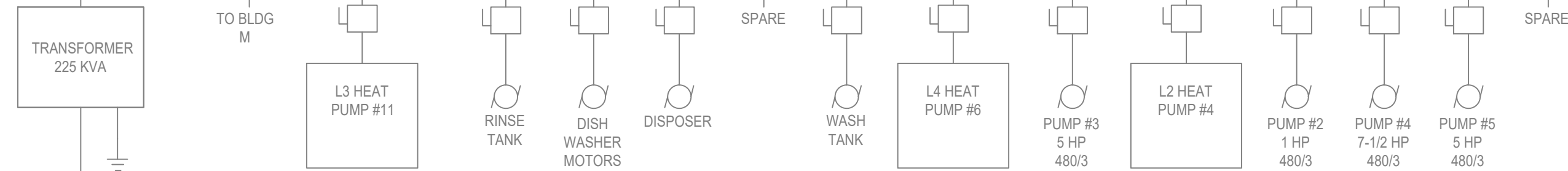
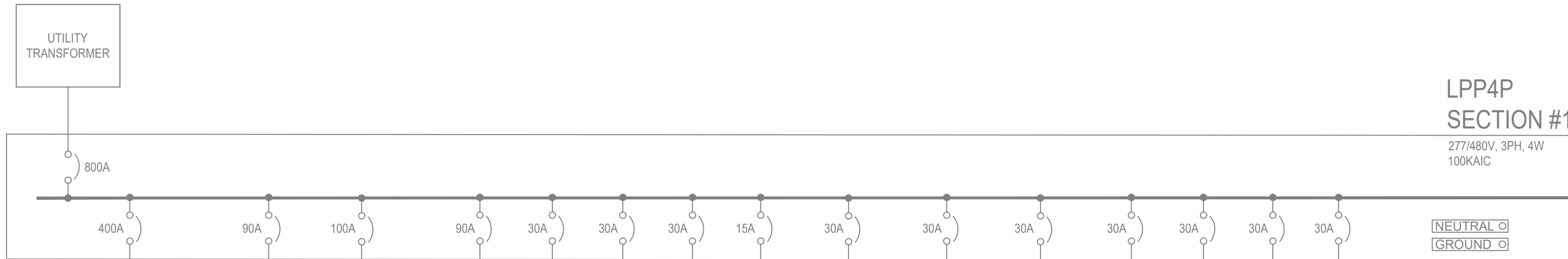
2024-379

SHEET TITLE

ELECTRICAL ONE LINE
DIAGRAMS

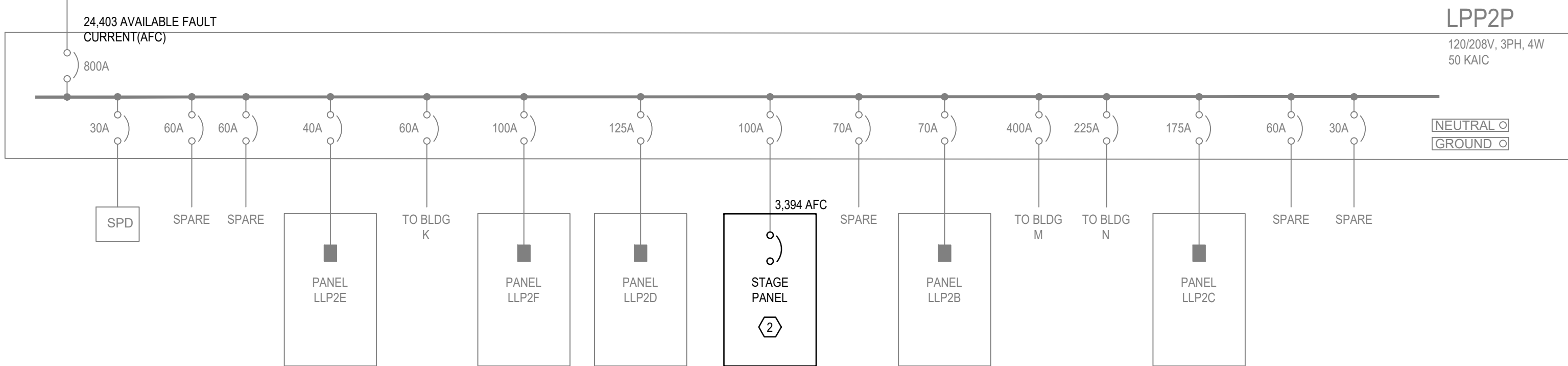
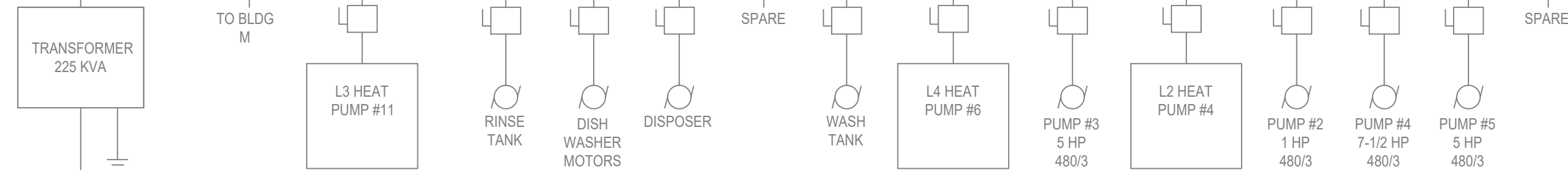
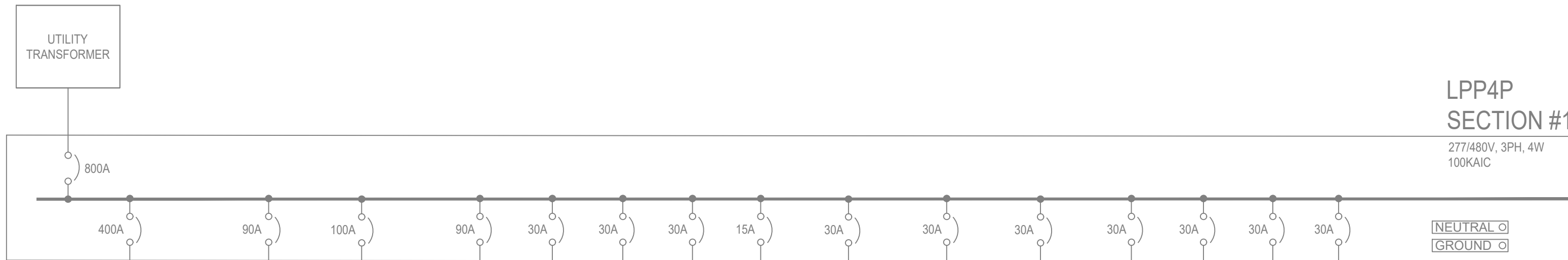
DRAWING NO.

E501



DEMOLITION ONE-LINE POWER DIAGRAM

NO SCALE

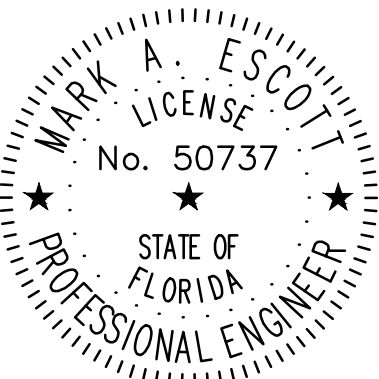


RENOVATION ONE-LINE POWER DIAGRAM

NO SCALE

SGM
ENGINEERING

CA-00006208
935 Lake Baldwin Lane
Orlando, FL 32814
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Fax: 407-767-5772
www.sgmengineering.com
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SGM #: 2024-379



MARK ESCOTT FL- 50737

REVISIONS

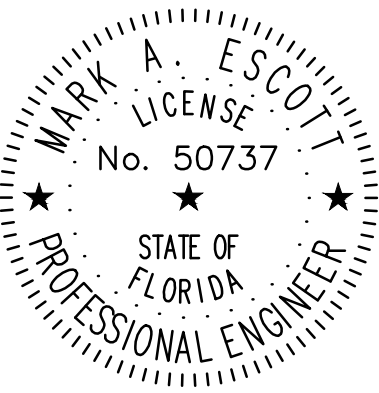
DOCUMENT HISTORY	
NO.	DESCRIPTION

SILVER SANDS MIDDLE
REPLACE STAGE LIGHTING
AND SOUND SYSTEM
VCS Project NO. 2548133
100 WOLF PACK RUN.
DELTONA, FL 32725

ENGINEER MARK A. ESCOTT		ENDOR OF RECORD
DESIGNED BY	DRAWN BY	
ISSUE DATE 10/13/2025	AE PROJECT NUMBER 2024-379	
SHEET TITLE ELECTRICAL PANEL SCHEDULES		
DRAWING NO. E701		

THEATRICAL ECHO RELAY STAGE PANEL(SP)

VOLT: 120 / 208 VAC		Project: Silver Sands	
PHASE: 3	WIRE: 4	A.I.C RATING: 10k	MOUNTING: SURFACE
MAIN BUS: 100A	MCB	100A	
LOAD IN VA			
No.	Amp	Area Served	Comments
1	20	FOH	
2	20	FOH	
3	20	FOH	
4	20	FOH	
5	20	1ST ELECTRIC	
6	20	1ST ELECTRIC	
7	20	1st ELECTRIC	
8	20	1st ELECTRIC	
9	20	2ND ELECTRIC	
10	20	2ND ELECTRIC	
11	20	2nd ELECTRIC	
12	20	2nd ELECTRIC	
13	20	3RD ELECTRIC	
14	20	3RD ELECTRIC	
15	20	3rd ELECTRIC	
16	20	3rd ELECTRIC	
17	20	SPARE	
18	20	SPARE	
19	20	SPARE	
20	20	SPARE	
21	20	SOUND SYSTEM POWER	
22	20	SOUND SYSTEM POWER	
23	20	SOUND SYSTEM POWER	
24	20	THEATRICAL LIGHTING CONTROLLER	
		2,400	4,400
		1,800	TOTAL LOAD VA
		8,600	AMPS/PH
		24	
		10,750	DEMAND AMPS/PHASE
		30	



MARK ESCOTT FL- 50737

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ENGINEER OF RECORD

ENGINEER
MARK A. ESCOTT

DESIGNED BY

DRAWN BY

ISSUE DATE

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AE PROJECT NUMBER

2024-379

SHEET TITLE

ELECTRICAL DETAILS

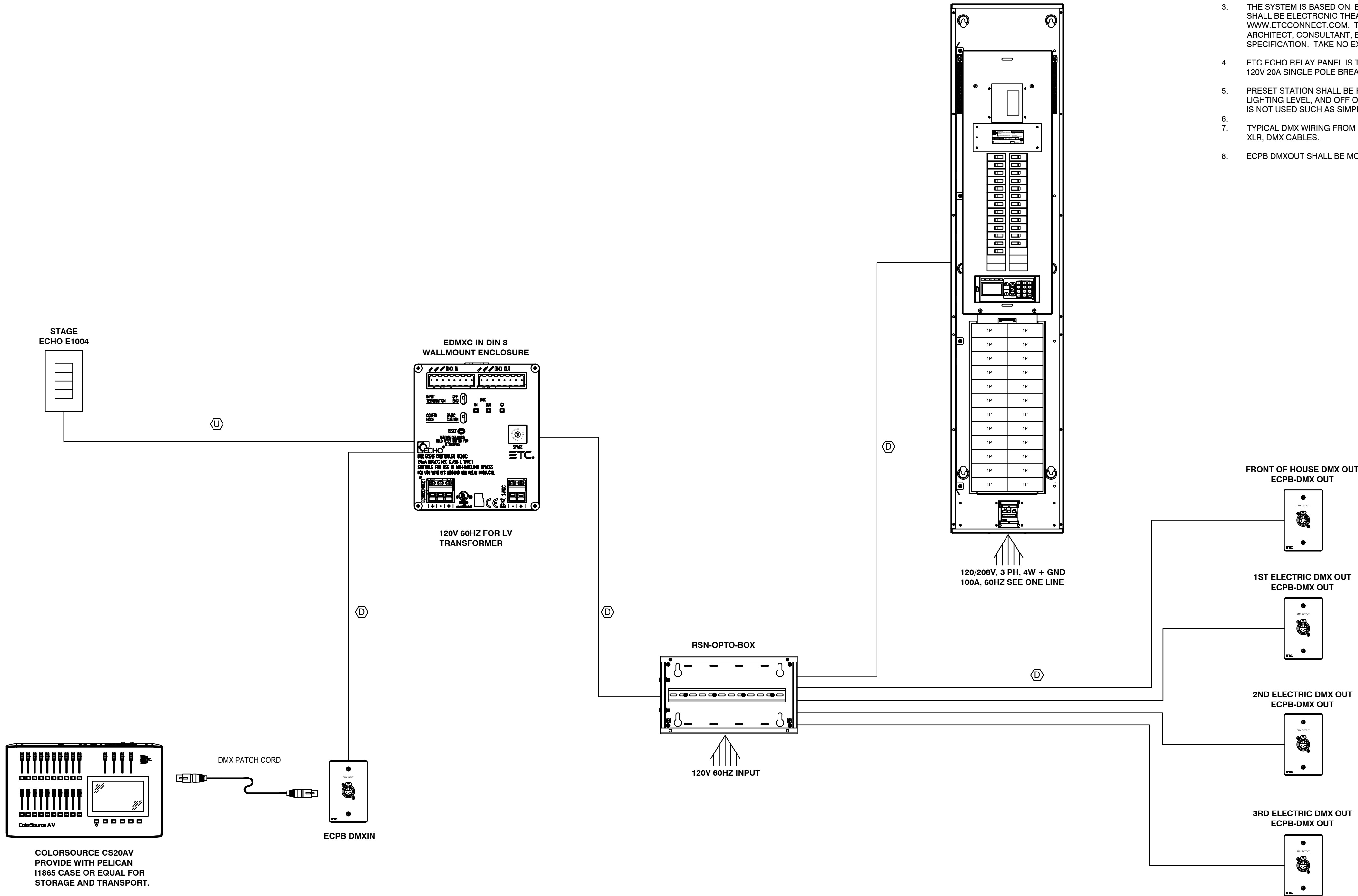
DRAWING NO.

E801

- U Belden #8471, 1 - #14 AWG, 2 - #16 AWG Stranded - ARCHITECTURAL
- N CAT6 ETHERNET CABLE - MAXIMUM RUN 100 METERS FOLLOW TCP/IP PROTOCOL
- D DMX CABLE - BELDEN 9729

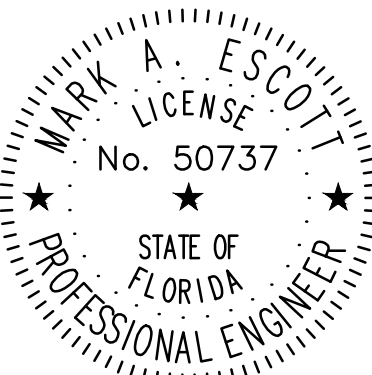
THEATRICAL LIGHTING CONTROL SYSTEM NOTES:

- ALL ELECTRICAL TERMINATIONS, WIRE AND CONDUIT TO BE PROVIDED AND INSTALLED BY CONTRACTOR. ALL CONTROL, DIMMING AND DISTRIBUTION IS TO BE RECEIVED BY THE CONTRACTOR AND STORED IN A SECURE, DRY LOCATION.
- COORDINATE WITH SYSTEM INTEGRATOR FOR LOW VOLTAGE TERMINATIONS AND PURCHASE OF LIGHTING CONTROL, DIMMING FIXTURES/LAMPS AND SPECIALIZED CONTROL. SYSTEM INTEGRATOR SHALL TERMINATE ALL LOW VOLTAGE CONNECTIONS IN SYSTEM SHOWN. SYSTEM INTEGRATOR SHALL PROGRAM A BASE OF OPERATION. SYSTEM INTEGRATOR SHALL HAVE ON SITE PRESENCE DURING CONSTRUCTION TO COORDINATE ENTIRE THEATRICAL AND ARCHITECTURAL DIMMING. ANY INCIDENTAL ITEMS NOT SHOWN ON THE PLANS ARE TO BE INCLUDED TO PROVIDE FOR A COMPLETE AND FUNCTIONAL SYSTEM AT THE COMPLETION OF CONSTRUCTION. SYSTEM INTEGRATOR IS RESPONSIBLE FOR ALL COORDINATION OF COMPATIBILITY.
- THE SYSTEM IS BASED ON ELECTRONIC THEATRE CONTROLS, INC. THE BASE BID FOR ALL SYSTEMS SHALL BE ELECTRONIC THEATRE CONTROLS, INC. INFORMATION IS AVAILABLE AT WWW.ETCCONNECT.COM. THIS SYSTEM IS DESIGNED IN ACCORDANCE WITH INFORMATION FROM THE ARCHITECT, CONSULTANT, ENGINEER AND OWNER. ALL SYSTEMS MUST MEET THE PERFORMANCE AND SPECIFICATION. TAKE NO EXCEPTIONS TO THE RISER, DESIGN OR SPECIFICATIONS.
- ETC ECHO RELAY PANEL IS TO BE SURFACE MOUNT PROVIDED WITH 100A MAIN CIRCUIT BREAKER AND 24 120V 20A SINGLE POLE BREAKERS WITH RELAYS AS INDICATED
- PRESET STATION SHALL BE PROGRAMMED TO PROVIDE: ALL ON 100%, ALL ON 50%, MIN WALK THRU LIGHTING LEVEL, AND OFF OR AS DETERMINED BY OWNER FOR USE WHEN THE THEATRICAL CONTROLLER IS NOT USED SUCH AS SIMPLE MEETINGS.
- TYPICAL DMX WIRING FROM FIXTURE TO ECPB DMXOUT SHALL BE PREFABRICATED 5 PIN XLR, DMX CABLES.
- ECPB DMXOUT SHALL BE MOUNTED TO UNISTRUT SUPPORT.



THEATRICAL LIGHTING CONTROL SYSTEM

SCALE: NOT TO SCALE



MARK ESCOTT FL- 50737

REVISIONS
DOCUMENT HISTORY
DESCRIPTION

NO. DATE

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REPLACE STAGE LIGHTING
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VCS Project NO. 2548133
100 WOLF PACK RUN.
DELTONA, FL 32725

ENDOR OF RECORD

ENGINEER
MARK A. ESCOTT

DESIGNED BY

DRAWN BY

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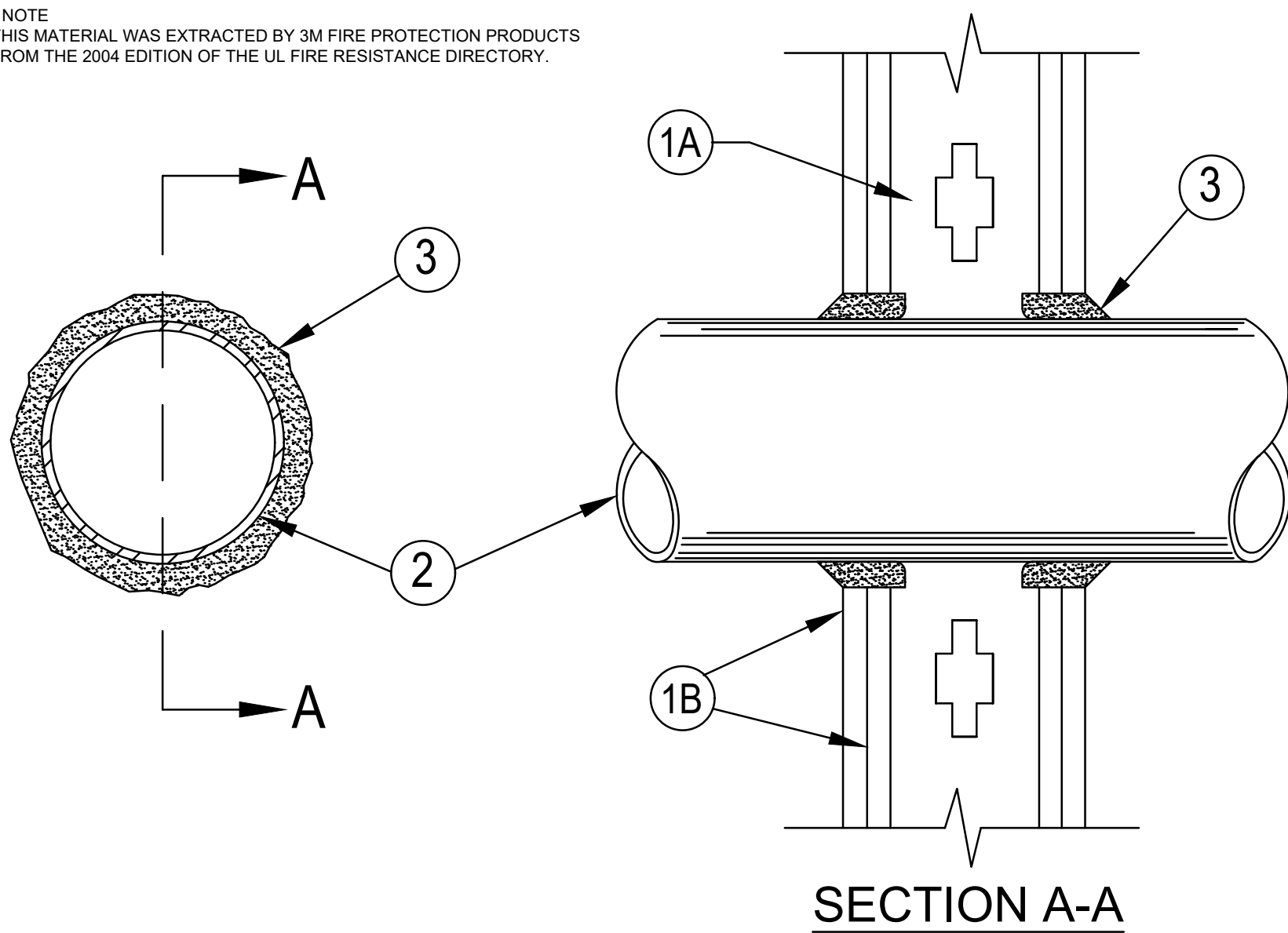
SHEET TITLE

ELECTRICAL DETAILS

DRAWING NO.

E802

* NOTE
THIS MATERIAL WAS EXTRACTED BY 3M FIRE PROTECTION PRODUCTS
FROM THE 2004 EDITION OF THE UL FIRE RESISTANCE DIRECTORY.



1. Wall Assembly - The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the Individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs - Wall framing may consist of either wood studs (max 2 hr fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
B. Gypsum Board - Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

2. Through Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in. (0 mm) (point contact) to max 2 in. (51 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe - Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe - Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
C. Conduit - Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing
D. Copper Tubing - Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing
E. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
F. Through Penetrating Product* - Flexible Metal Piping - The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

TITEX FLEX CORP

A BUNDY CO

3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG INC

3. Fill/Void or Cavity Material* - Caulk or Sealant - Min 5/8, 1-1/4, 1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall.
The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table.
The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam in. (mm)	F Rating Hr	T Rating Hr
1 (25)	1 or 2	0 or 1 or 2
2 (51)	3 or 4	3 or 4
4 (102)	1 or 2	0
6 (152)	3 or 4	0
12 (305)	1 or 2	0

*When copper pipe is used, T Rating is 0 hr.

3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant.

*Bearing the UL Classification Marking

EMT THRU GYP BOARD PENETRATION DETAIL

No Scale

1

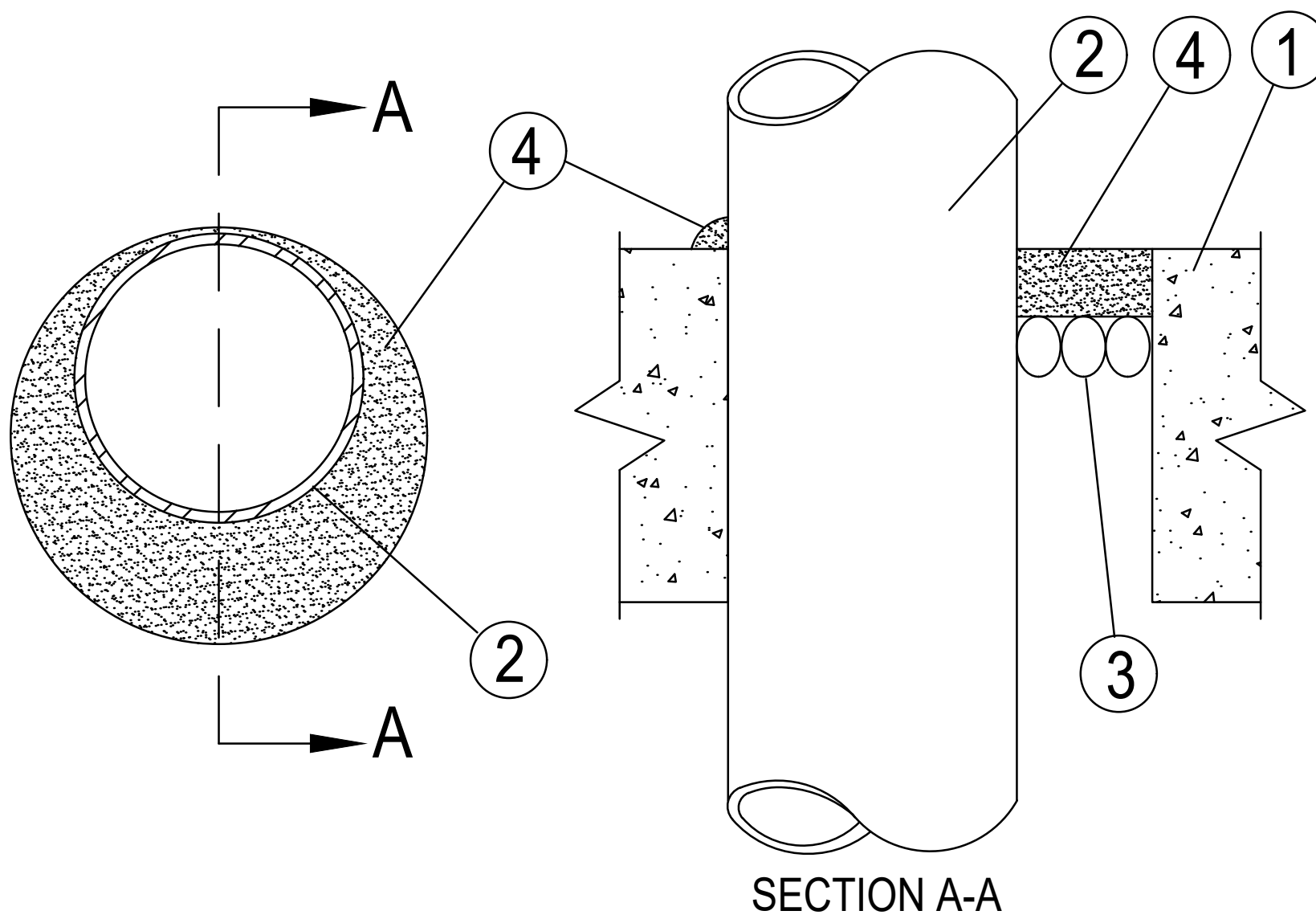
THEATRICAL CONNECTION BOXES

No Scale

3

System No. C-AJ-1044

June 15, 2005
F Ratings - 2, 3, and 4 Hr (See Items 2A and 4)
T Rating - 0 Hr
L Rating At Ambient - 2 CFM/sq ft
L Rating At 400 F - less than 1 CFM/sq ft
W Rating - Class I (See Item 4)



1. Floor or Wall Assembly - Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Except as noted in table under Item 4, min thickness of solid concrete floor or wall assembly is 4-1/2 in. (114 mm). Floor may also be constructed of any min 6 in. (152 mm) thick UL Classified hollow core Precast Concrete Units*. When floor is constructed of hollow core precast concrete units, packing material (Item 3) and caulk fill material (Item 4) to be installed symmetrically on both sides of floor, flush with floor surface. Wall assembly may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is in solid lightweight or normal weight concrete. Floor is 32 in. (813 mm). Max diam of opening in floor constructed of hollow-core precast concrete units is 7 in. (178 mm).

See Concrete Blocks (CAZT) and Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

1A. Steel Sleeve (Optional, not shown) - Max 15 in. (381 mm) ID (or smaller) Schedule 10 (or heavier) steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 2 in. (51 mm) above top of floor or beyond either surface of wall. Max 16 in. (406 mm) ID (or smaller) min 0.028 (0.71 mm) wall thickness (or heavier) galvanized steel sleeve cast or grouted into floor or wall assembly. Sleeve may extend a max of 1/2 in. (13 mm) beyond either surface of floor or wall.

2. Through Penetrants - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Max annular space between pipe, conduit or tubing and edge of through opening or sleeve is dependent on the parameters shown in Item 4. Min annular space between pipe or conduit and edge of through opening is 0 in. (0 mm) (point contact). Pipe conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe - Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe - Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
C. Conduit - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.
D. Conduit - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
E. Copper - Tubing Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tube.
F. Copper Pipe - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. Packing Material - Polyethylene backer rod or nom 1 in. (25 mm) thickness of tightly-packed mineral wool batt or glass fiber insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of caulk fill material (Item 4).

4. Fill/Void or Cavity Material* - Caulk or Sealant - Applied to fill the annular space flush with top surface of floor. In wall assemblies, required caulk thickness to be installed symmetrically on both sides of wall, flush with wall surface. At point contact location between penetrant and sleeve or between penetrant and concrete, a min 1/4 in. (6 mm) diam bead of caulk shall be applied at top surface of floor and at both surfaces of wall. The hourly F Ratings and the min required caulk thicknesses are dependent upon a number of parameters, as shown in the following table:

Min Floor or Wall Thkns in. (mm)	Nom Pipe Tube or Conduit Diam in. (mm)	Max Annular Space in. (mm)	Min Caulk Thkns in. (mm)	F Rating Hr
2-1/2 (64)	1/2-12 (13-305)	1-3/8 (35)	1/2 (13)	2
2-1/2 (64)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	2
4-1/2 (114)	1/2-6 (13-152)	1-3/8 (35)	1/4 (6) (a)	2
4-1/2 (114)	1/2-12 (13-305)	1-1/4 (32)	1/2 (13)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-20 (13-508)	2 (51)	1 (25)	3
4-1/2 (114)	1/2-12 (13-305)	3-1/4 (83)	1 (25)	3
4-1/2 (114)	22-30 (558-762)	2 (51)	2 (51)	3
5-1/2 (140)	1/2-6 (13-152)	1-3/8 (35)	1 (25) (b)	4

(a) Min 2 in. (51 mm) thickness of mineral wool batt insulation required in annular space.

(b) Min 1 in. (25 mm) thickness of mineral wool batt insulation required in annular space on both sides of floor or wall assembly. Min 1 in. (25 mm) thickness of caulk to be installed flush with each surface of floor or wall assembly.

3M COMPANY - CP 25WB+ caulk or FB-3000 WT sealant. (Note: W Rating applies only when FB-3000 WT sealant is used.)

*Bearing the UL Classification Marking

EMT THRU CONCRETE PENETRATION DETAIL

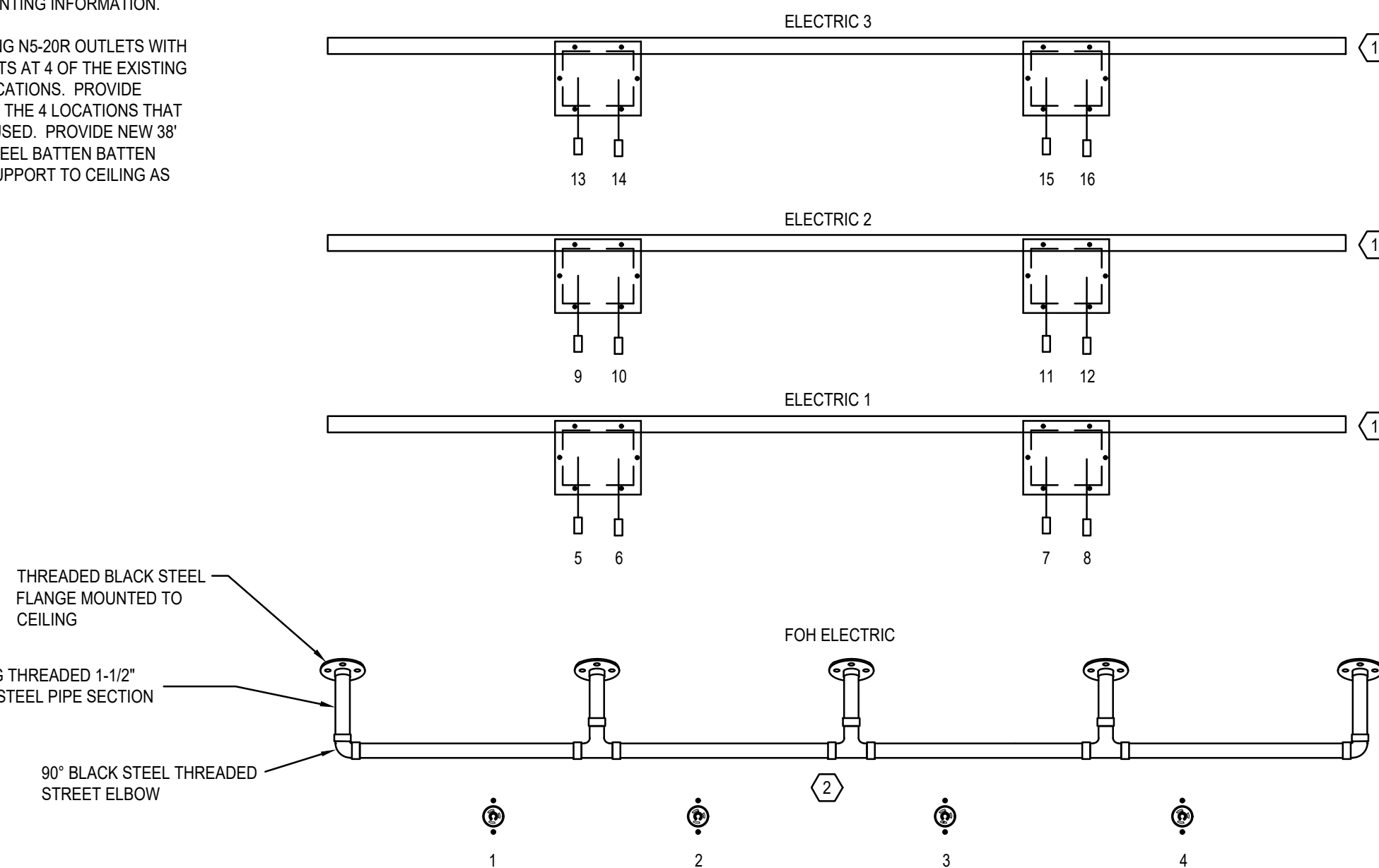
No Scale

2

THEATRICAL BATTEN SUPPORT DETAILS

No Scale

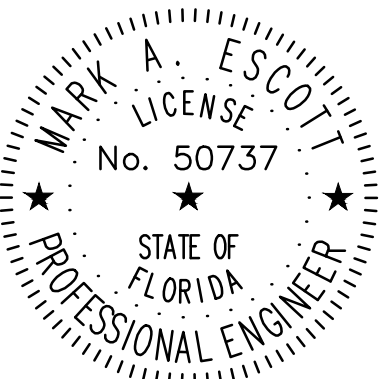
4



TOP BATTEN SUPPORT DETAILS

GENERAL NOTES:

- PIPE BATTENS TO BE 1 1/2" SCH 40 STEEL PIPE WITH THREADED END CAPS.
- SUPPORT CHAIN IS TO BE 1/4" LINK 0.5" X 1", GRADE 28 PROOF COIL, ELECTROGALVANIZED TO MATCH EXISTING. PROVIDE WITH TURNBUCKLE FOR FINAL HEIGHT ADJUSTMENT.
- PROVIDE SUPPORT FROM STRUCTURE AT EACH BAR JOIST



MARK ESCOTT FL- 50737

REVISIONS

DOCUMENT HISTORY

DESCRIPTION

NO. DATE

SILVER SANDS MIDDLE
REPLACE STAGE LIGHTING
AND SOUND SYSTEM
VCS Project NO. 2548133
100 WOLF PACK RUN.
DELTONA, FL 32725

ENGINEER
MARK A. ESCOTT

DESIGNED BY

DRAWN BY

ISSUE DATE

10/13/2025

AE PROJECT NUMBER

2024-379

SHEET TITLE

SYSTEMS LEGEND

DRAWING NO.

ES001

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

FIRE ALARM SYSTEM

REFER TO FIRE ALARM DEVICE MOUNTING DETAIL FOR
ADDITIONAL INFORMATION



ADDRESSABLE MONITOR MODULE



ADDRESSABLE CONTROL MODULE RELAY

AUDIO / VIDEO SYSTEM



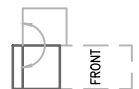
AUDIO VIDEO SOUND SYSTEM BOX SPEAKER
P = PRIMARY SPEAKER
D = DELAY SPEAKER



MONITOR SPEAKER



AUDITORIUM SOUND SYSTEM RACK

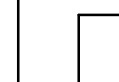


CAFETERIA SOUND SYSTEM WALL MOUNTED CABINET.

PREMISE DISTRIBUTION SYSTEM



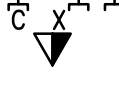
LOCATION
C = INSTALLED 3" ABOVE COUNTER OR BACK SPLASH
W = INSTALLED 48" AFF TO TOP OF BACK BOX



MOUNTING
F = FLUSH MOUNTED
S = SURFACE MOUNTED
M = MODULAR FURNITURE ADAPTER



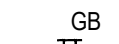
= NUMBER OF DATA JACKS



COMMUNICATIONS "INFORMATION OUTLET" MOUNTED 18" AFF
TO CENTER LINE OF BACK BOX (RECEPTACLE HEIGHT UNLESS
OTHERWISE NOTED). INSTALL CAT6 CABLE FOR EACH JACK
AND ROUTED TO SERVING "IT" ROOM.



FLOOR BOX DATA OUTLET. INSTALL CAT6 CABLE FOR EACH
JACK AND ROUTED TO SERVING "IT" ROOM.
= NUMBER OF DATA JACKS



TELECOMMUNICATION GROUND BUS

GENERAL SYMBOLS



JUNCTION BOX (4" x 4" x 2-1/8")



ABOVE GRADE CONDUIT



CONDUIT CONCEALED IN SLAB,
UNDERGROUND OR UNDER FLOOR



CONDUIT STUB



CONDUIT CONTINUED



GROUND OR GROUND ROD AS NOTED



SLEEVE UP



SLEEVE DOWN



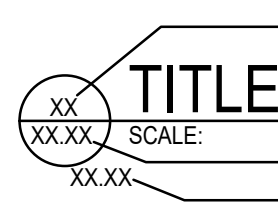
WALL PENETRATION CONDUIT SLEEVE



PLAN OR RISER KEY NOTE IDENTIFIER



REVISION DELTA



DETAIL NUMBER

TITLE

DETAIL TITLE REFERENCE

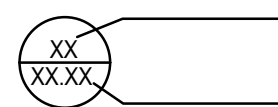
SCALE:

REFERENCED DETAIL SHEET

XX.XX

ADDITIONAL SHEET REFERENCES

XX.XX



DETAIL NUMBER

REFERENCED DETAIL SHEET

ABBREVIATIONS

ACS

ACCESS CONTROL SYSTEM

ACST

ACCESS CONTROL SYSTEM TERMINAL CABINET

AE

AUDIO ENHANCEMENT

AFC

ABOVE FINISHED CEILING

AFF

ABOVE FINISHED FLOOR

AFG

ABOVE FINISHED GRADE

AL

ALUMINUM

AWG

AMERICAN WIRE GAUGE

BFC

BELOW FINISHED CEILING

BFG

BELOW FINISHED GRADE

BMS

BALANCED MAGNETIC SWITCH

C

CONDUIT

CAB

CABINET

CFCI

CONTRACTOR FURNISHED CONTRACTOR SUPPLIED

CKT

CIRCUIT

CL

CENTERLINE

CLG

CEILING

CM

CONTROL MODULE

CU

COPPER

DISC

DISCONNECT(ING)

DWG

DRAWING(S)

EA

EACH

EF

EXHAUST FAN

EMT

ELECTRICAL METALLIC TUBING

EQUIP

EQUIPMENT

EXST

EXISTING

EXP

EXPLOSION PROOF

FA

FIRE ALARM

FACP

FIRE ALARM CONTROL PANEL

FACU

FIRE ALARM CONTROL UNIT

FATC

FIRE ALARM TERMINAL CABINET

FTP

FOILED TWISTED PAIR

F/UTP

FOILED UNSHIELDED TWISTED PAIR

G. OR GND

GROUND

HGT

HEIGHT

HH

HAND HOLE

HOA

HAND-OFF-AUTOMATIC

HVAC

HEATING/VENTILATING/AIR CONDITIONING

IDF

INTERMEDIATE DISTRIBUTION FRAME

IDS

INTRUSION DETECTION SYSTEM

IDST

INTRUSION DETECTION SYSTEM TERMINAL CABINET

IT

INFORMATION TECHNOLOGY

JB

JUNCTION BOX

LTG

LIGHTING

MAX

MAXIMUM

MDF

MAIN DISTRIBUTION FRAME

MFR

MANUFACTURER

MH

MAN HOLE

MIN

MINIMUM

MISC

MISCELLANEOUS

MM

MULTI MODE

MTD

MOUNTED

MTG

MOUNTING

MTR

MOTOR

NEC

NATIONAL ELECTRICAL CODE

NFPA

NATIONAL FIRE PROTECTION ASSOCIATION

OF

OPTICAL FIBER

OFOI

OWNER FURNISHED OWNER INSTALLED

PDU

POWER DISTRIBUTION UNIT

PNL

PANEL

PSI

PULL STATION INSIDE

PVC

POLYVINYL CHLORIDE

REC

RECEPTACLE

RGS

RIGID GALVANIZED STEEL

SFTP

SHIELDED AND FOILED TWISTED PAIR

SM

SINGLE MODE

SOW

SCOPE OF WORK

STP

SHIELDED TWISTED PAIR

S/UTP

SHIELDED / SCREENED - UNSHIELDED TWISTED PAIR

TEL

TELEPHONE

TGB

TELECOMMUNICATION GROUND BUS

TMGB

TELECOMMUNICATION MAIN GROUND BUS

UON

UNLESS OTHERWISE NOTED

UTP

UNSHIELDED TWISTED PAIR

W

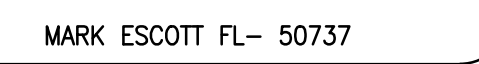
WATTS

WP

WEATHER PROOF

XFMR

TRANSFORMER

REVISIONS

SILVER SANDS MIDDLE
REPLACE STAGE LIGHTING
AND SOUND SYSTEM
VCS Project NO. 2548133
100 WOLF PACK RUN,
DELTONA, FL 32725

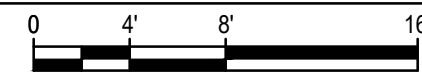
DESIGNED BY	DRAWN BY
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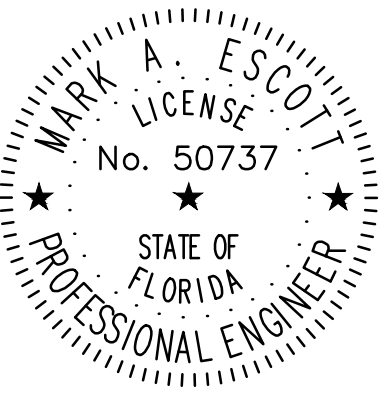
SHEET TITLE			
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ESD201

SYSTEMS DEMO FLOOR PLAN





MARK ESCOTT FL- 50737

REVISIONS

DOCUMENT HISTORY

DESCRIPTION

NO. DATE

SILVER SANDS MIDDLE
REPLACE STAGE LIGHTING
AND SOUND SYSTEM
VCS Project NO. 2548133
100 WOLF PACK RUN.
DELTONA, FL 32725

ENGINEER
MARK A. ESCOTT

ENDOR OF RECORD

DESIGNED BY

DRAWN BY

ISSUE DATE

10/13/2025

AE PROJECT NUMBER

2024-379

SHEET TITLE

SYSTEMS FLOOR PLAN

DRAWING NO.

ES201

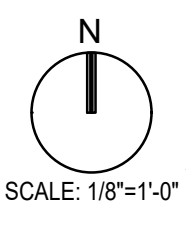
GENERAL NOTES:

- PROVIDE, INSTALL AND TERMINATE ALL SYSTEMS EQUIPMENT INCLUDING, BUT NOT LIMITED TO, RACEWAYS, WIRE CABLE, CIRCUIT BREAKERS, MODULES, RELAYS ETC. COORDINATE THE EXACT LOCATIONS OF DEVICES WITH OTHER DIVISIONS AS NECESSARY PRIOR TO ROUGH-IN. REFER TO SPECIFICATIONS.
- REFER TO: SYMBOL LEGEND, BOOK SPECIFICATIONS, AND BLOCK DIAGRAM FOR ALL REQUIREMENTS.
- DEVICES ARE SHOWN IN APPROXIMATE LOCATIONS. COORDINATE WITH ALL OTHER TRADES PRIOR TO ROUGH-IN.
- CEILING MOUNTED DEVICES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS, COORDINATE WITH ALL OTHER TRADES FOR EXACT LOCATION.

PLAN KEY NOTES:

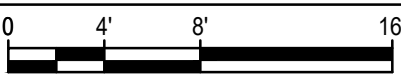
#

- PROVIDE FIRE ALARM CONTROL MODULE TO PROVIDE PRIMARY PRIORITY OVERRIDE OF THE LOCAL AREA SOUND SYSTEM.
- PROVIDE INTERCOM INPUT CONNECTION TO LOCAL AREA SOUND SYSTEM TO PROVIDE PRIORITY OVERRIDE.
- PROVIDE PURPLE KEYSTONE FOR DATA JACKS FOR SOUND SYSTEM.
- ROUTE CAT6 IN 3/4" C. FROM DATA DROP AT SOUND SYSTEM RACK TO DATA DROP.
- ROUTE CAT6 IN 3/4" C. TO IDF FOR DATA CONNECTION.
- EXISTING IDF LOCATION. ADD PATCH PANEL IF NEEDED FOR 2 DATA DROPS ADDED.



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

SYSTEMS FLOOR PLAN



REVISIONS

DOCUMENT HISTORY

NO. DATE DESCRIPTION

SILVER SANDS MIDDLE
REPLACE STAGE LIGHTING
AND SOUND SYSTEM
VCS Project NO. 2548133
100 WOLF PACK RUN.
DELTONA, FL 32725

ENGINEER
MARK A. ESCOTT

ENDOR OF RECORD

DESIGNED BY

DRAWN BY

ISSUE DATE

AE PROJECT NUMBER

10/13/2025

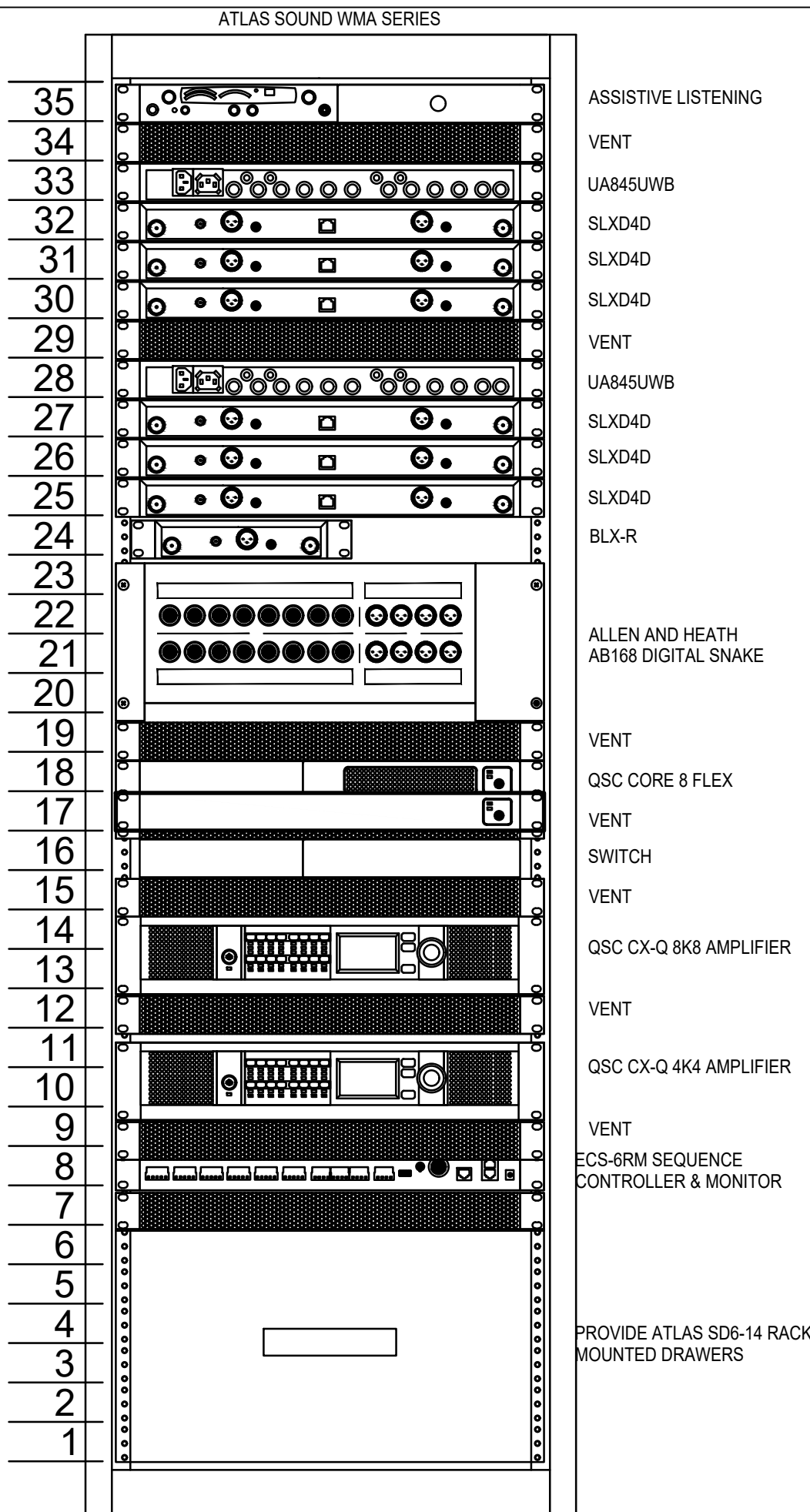
2024-379

SHEET TITLE

SYSTEMS BLOCK
DIAGRAMS

DRAWING NO.

ES601



INCLUDED IN MAIN EQUIPMENT CABINET:
REFER TO ALL SPECIFICATIONS FOR ALL
EQUIPMENT.

PROVIDE ATLAS SOUND ECS-6RM ELECTRICAL
CONTROL SEQUENCER WITH ASSOCIATED ECM-20
SH CONTROL MODULES.

PROVIDE MIDDLE ATLANTIC BL-1 BLANK PANELS
AND VT-1 VENT PANELS AS SHOWN.

PROVIDE ATLAS SOUND ACRL-191 MASTER POWER
PANEL IN PORTABLE CABINET.

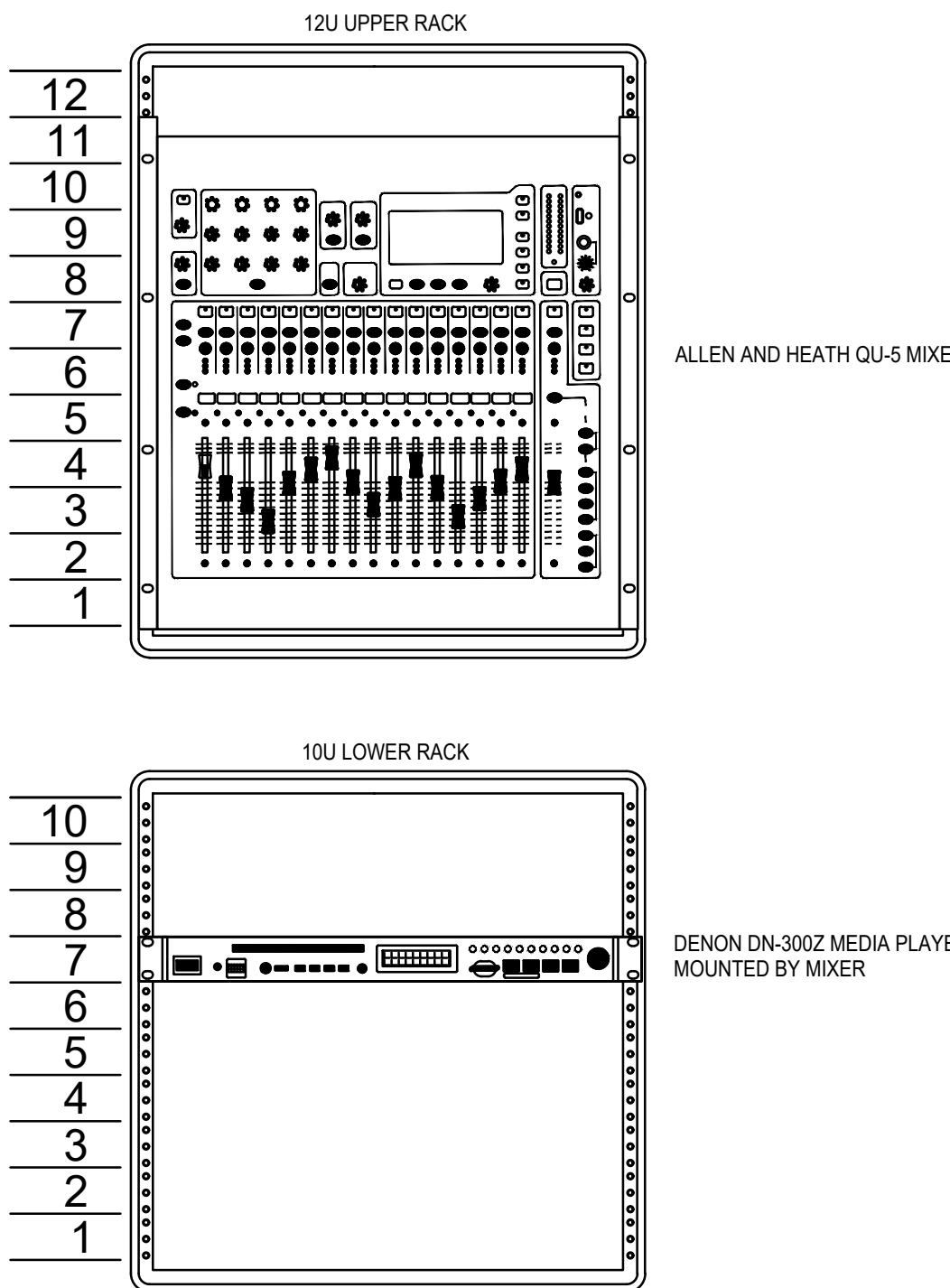
PROVIDE RACK MOUNTED POWER STRIPS AS
REQUIRED.

PROVIDE ATLAS SD36-14 RACK MOUNTED
DRAWERS AS SHOWN.

PROVIDE FANS AS SPECIFIED.

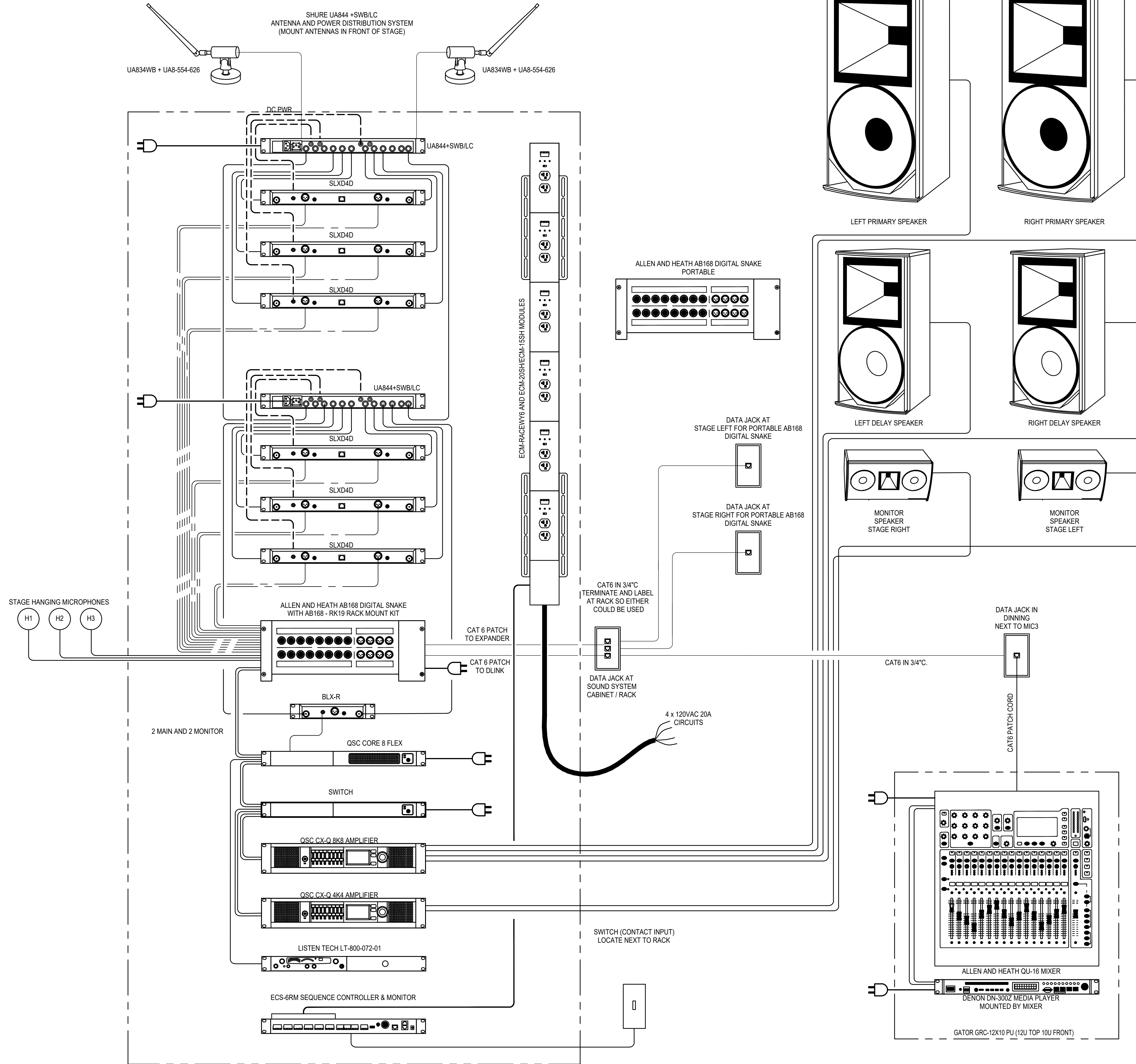
CAFETORIUM SOUND SYSTEM RACK ELEVATION
Not to Scale

2



GATOR GRC-12X10 PU (12U TOP 10U FRONT)

3



CAFETORIUM SOUND SYSTEM BLOCK DIAGRAM
Not to Scale

1