VOLUSIA COUNTY SCHOOLS
"LEADING WITH GRACE AND RESPECT"

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

TRANSPORTATION DAYTONA BEACH REPLACE EMERGENCY GENERATOR VCS Project NO. 2648204

1648 Hancock Blvd.
Daytona Beach, FL 32114

SCHOOL BOARD MEMBERS

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DESCRIPTION OF WORK

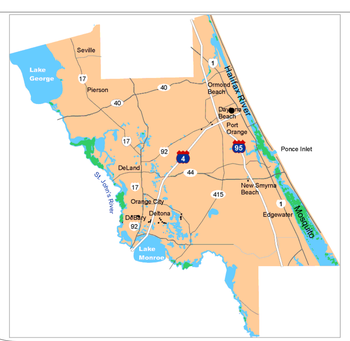
A. Scope of Services
1. Replace existing 60KW, 75KVA 208V, 3PH, 4W generator serving the complex. This includes replacement of the ATS's, generator annunciator, water jacket heater, battery charger and conductors.
2. Replace 3 existing ATS's. One at each of the following locations; fuel island building, maintenance and operations.
3. Replace feeder wire from generator to generator distribution panel GDP.
4. Provide overcurrent device coordination study and arc flash labeling for all new equipment, disconnects, transfer switches and panels.
5. This scope is not all inclusive and is complimented by the set of drawings and specifications.

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	XXX
E.	RISK CATEGORY	XXX
F.	AUTOMATIC SPRINKLER	XXX
G.	BUILDING AREA	XXX
H.	BUILDING HEIGHT	XXX
I.	OCCUPANT LOAD	XXX

LOCATION MAP



NOT TO SCALE

ENGINEERS & CONSULTANTS

ELECTRICAL
SGM ENGINEERING
935 LAKE BALDWIN LANE
ORLANDO, FL 32814
407-767-5188
MARK ESCOTT
MARK@SGMENGINEERING.COM
WWW.SGMENGINEERING.COM

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DRAWING INDEX

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ELECTRICAL	
E001	ELECTRICAL SYMBOLS
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ED301	DEMO ELECTRICAL FLOOR PLAN MAINTENANCE BLD
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E101	ELECTRICAL SITE PLAN
E301	ELECTRICAL FLOOR PLAN MAINTENANCE BLDG
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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)

CONSTRUCTION DOCUMENTS 02-06-2026

SGM ENGINEERING
CA-00006208
935 Lake Baldwin Lane
Orlando, Fl. 32814
Tel: 407-767-5188
Fax: 407-767-5772
www.sgmengineering.com

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SGM #: 2025-393

MARK A. ESCOTT FL-50737

REVISIONS

NO.	DATE	DOCUMENT HISTORY DESCRIPTION

TRANSPORTATION DAYTONA BEACH
REPLACE EMERGENCY GENERATOR
VCS Project NO. 2648204
1648 HANCOCK BLVD,
DAYTONA BEACH, FL 32114

ENGR OF RECORD
ENGINEER
MARK A. ESCOTT

DESIGNED BY	DRAWN BY
ISSUE DATE: 02/06/2026	AE PROJECT NUMBER: 2025-393

SHEET TITLE
COVER SHEET

DRAWING NO.
G001

FILE: Q:\PROJECT FILES\2025\2025-393 VCS — DAYTONA TRANSPORTATION FACILITY\DRAWINGS\1200-G001-2025393.DWG
PRINTED: 02/12/2026 LAST SAVED BY: MARK

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
- 1R1-1 — HOMERUN CONSISTING OF ONE SINGLE-PHASE, 1-POLE CIRCUIT, SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.
- 1M1-1:3 — HOMERUN CONSISTING OF ONE SINGLE-PHASE, 2-POLE CIRCUIT: SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.
- 1R1-1,3 — HOMERUN CONSISTING OF TWO SINGLE-PHASE CIRCUITS: SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.
- 1R1-1,3,5 — HOMERUN CONSISTING OF THREE SINGLE-PHASE CIRCUITS: SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.
- 1M1-1:3:5 — HOMERUN CONSISTING OF ONE THREE-PHASE CIRCUITS: SEE SPECIFICATIONS AND/OR FEEDER SCHEDULES FOR WIRE SIZES. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.

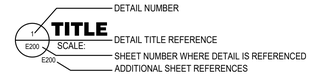
POWER DEVICES

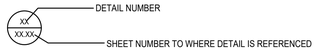
- SINGLE RECEPTACLE
- DUPLEX RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE
- SPECIAL PURPOSE RECEPTACLE
- SINGLE 250V NON-LOCKING TYPE RECEPTACLE
- G — DUPLEX RECEPTACLE, GROUND FAULT
- G — DUPLEX RECEPTACLE, GROUND FAULT, ABOVE COUNTER
- G — QUAD RECEPTACLE, GROUND FAULT
- WP — DUPLEX RECEPTACLE, GROUND FAULT WITH CAST ALUMINUM PADLOCKABLE (1/4" HASP) WEATHERPROOF "IN USE" COVER. TAYMAC MX3200 OR EQUAL
- WP — QUAD RECEPTACLE, GROUND FAULT WITH CAST ALUMINUM PADLOCKABLE (¼" HASP) WEATHERPROOF "IN USE" COVER. TAYMAC MX 6200 OR EQUAL.
- EWC — DUPLEX RECEPTACLE LOCATED WITHIN ELECTRIC WATER COOLER PER MANUFACTURER'S INSTRUCTIONS. CIRCUIT BREAKER IS TO BE GFCI.
- G C — DUPLEX RECEPTACLE, GROUND FAULT FOR COMPUTER WORKSTATION
- G C — QUAD RECEPTACLE, GROUND FAULT FOR COMPUTER WORKSTATION
- G TV — DUPLEX RECEPTACLE, GROUND FAULT FOR TV LOCATED AT 84" AFF UNLESS NOTED OTHERWISE.
- CLOCK
- PD — POWER/DATA POLE
- PP — POWER POLE
- DISCONNECT SWITCH
- MOTOR STARTER
- STARTER/DISCONNECT SWITCH
- VFD — VARIABLE FREQUENCY DRIVE
- J — JUNCTION BOX
- FLOOR MOUNTED JUNCTION BOX
- PB — PULL BOX
- E — EQUIPMENT CONNECTION
- PUSH BUTTON
- T — TRANSFORMER
- ST — SHUNT TRIP. MTD. AT 6'-5" AFF/AFG TO TOP OF ENCLOSURE
- $M — JUNCTION BOX WITH MOTOR RATED SWITCH
- MOTOR
- G — GENERATOR
- LB — LOCKBOX
- GROUND BUS BAR
- GROUND ROD WITH TEST INSPECTION WELL. SEE SPECIFICATIONS.
- SPD — SURGE PROTECTION DEVICE, SEE SPECIFICATIONS.

SWITCHES

- $ — SWITCH
- $M — MOTOR RATED SWITCH
- $EXP — SWITCH, EXPLOSION PROOF
- $L — SWITCH, LOW VOLTAGE MOMENTARY, HUBBELL I-557I OR EQUAL
- $WP — SWITCH, WEATHERPROOF

MISCELLANEOUS SYMBOL LEGEND





ABBREVIATIONS

A	AMPERES
AE	AUDIO ENHANCEMENT
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERES INTERUPTING 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
EWH	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

SGM
ENGINEERING
CA-00006208
935 Lake Baldwin Lane
Orlando, Fl. 32814
Tel: 407-767-5188
Fax: 407-767-5772
www.sgmengineering.com

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REVISIONS

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DOCUMENT HISTORY

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VCS Project NO. 2648204

1648 HANCOCK BLVD,
DAYTONA BEACH, FL 32114

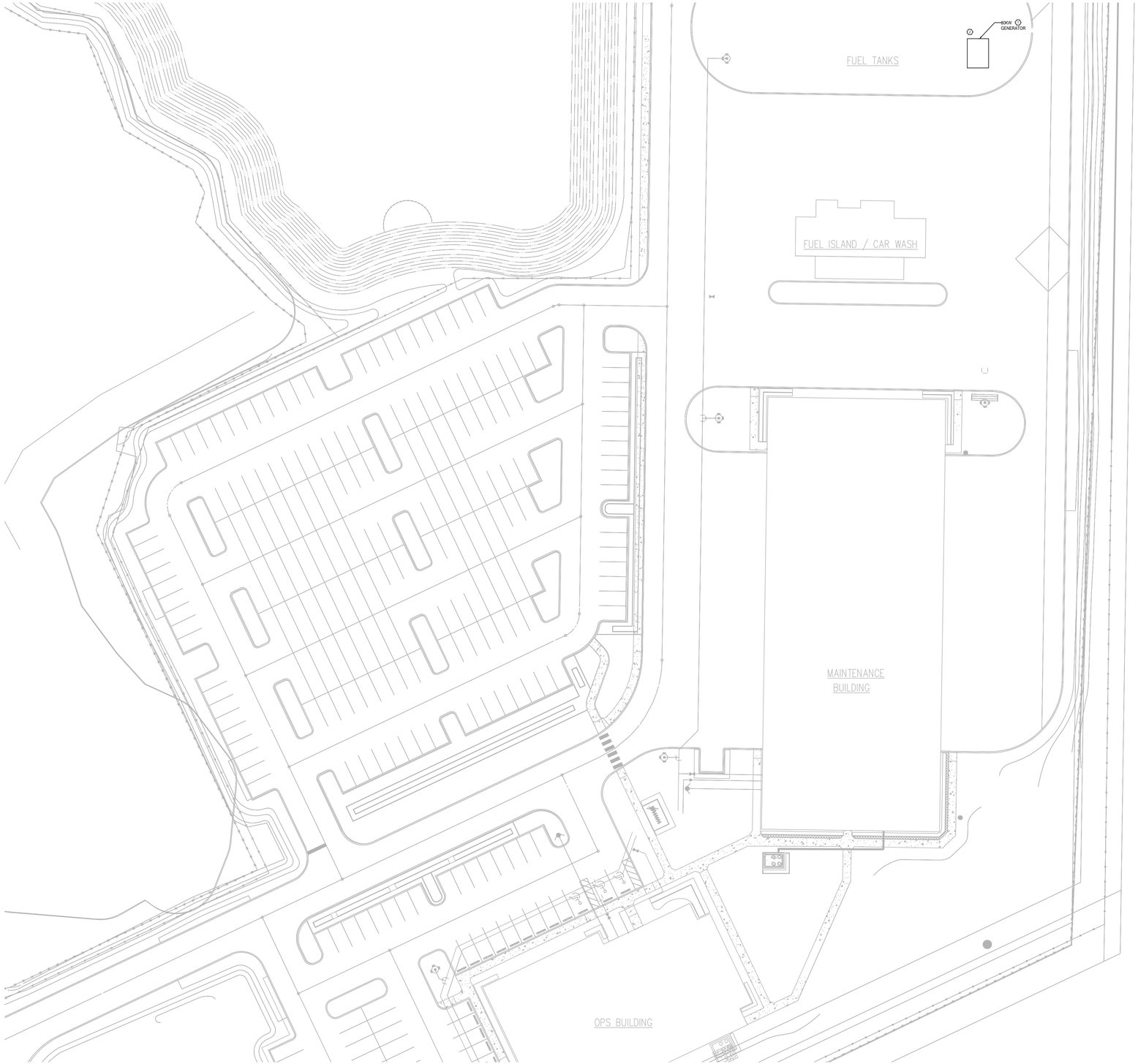
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MARK A. ESCOTT

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SHEET TITLE
ELECTRICAL SYMBOLS

DRAWING NO.
E001

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DEMO ELECTRICAL SITE PLAN

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

0 16' 32' 64'

GENERAL NOTES:

a. REFER TO SYMBOL LEGEND ON SHEET E001.

b. REFER TO BOOK SPECIFICATIONS.

c. REFER TO EQUIPMENT SCHEDULES ON DRAWINGS 601 FOR DISCONNECT, CONDUIT AND WIRE SIZES.

d. EXACT LOCATIONS OF UNDERGROUND UTILITIES ARE TO BE VERIFIED PRIOR TO BEGINNING WORK.

e. 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.

f. 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.

g. REMOVE ALL CONDUIT AND WIRE, FROM REMOVED ITEMS, BACK TO THE SOURCE UNLESS IT IS TO BE RE-USED FOR NEW WORK.

h. 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.

i. 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.

j. 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: (#)

1. EXISTING GENERATOR. REFER TO SHEET ED302 FOR ADDITIONAL INFORMATION.
2. REMOVE EXISTING CONCRETE PAD. EXTEND/MODIFY EXISTING CONDUIT TO FOR NEW GENERATOR INSTALLATION.

SGM
ENGINEERING
CA-00006208
935 Lake Baldwin Lane
Orlando, Fl. 32814
Tel: 407-767-5188
Fax: 407-767-5772
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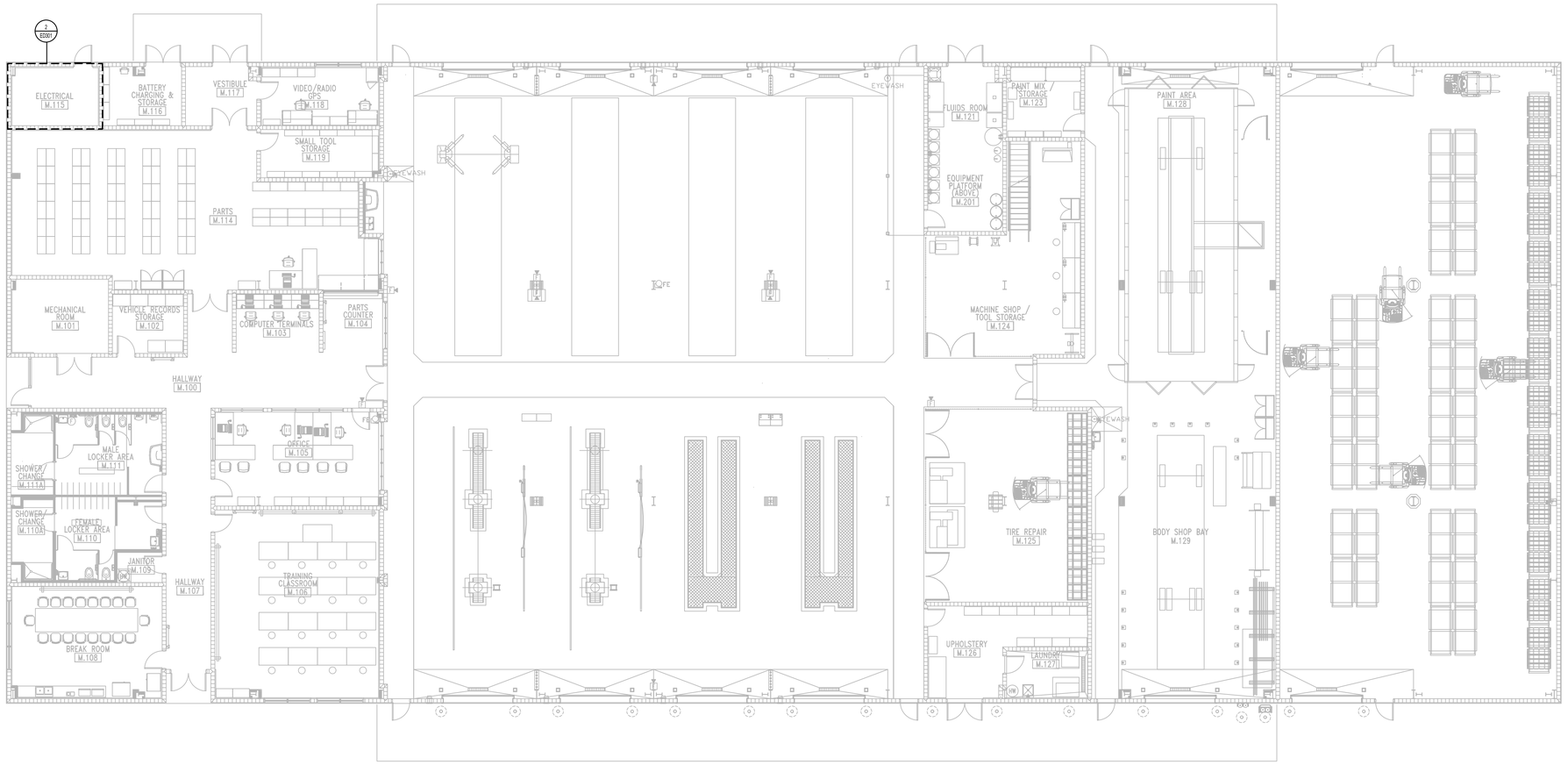
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MARK A. ESCOTT

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ISSUE DATE: 02/06/2026	AE PROJECT NUMBER: 2025-393

SHEET TITLE: DEMO ELECTRICAL SITE PLAN

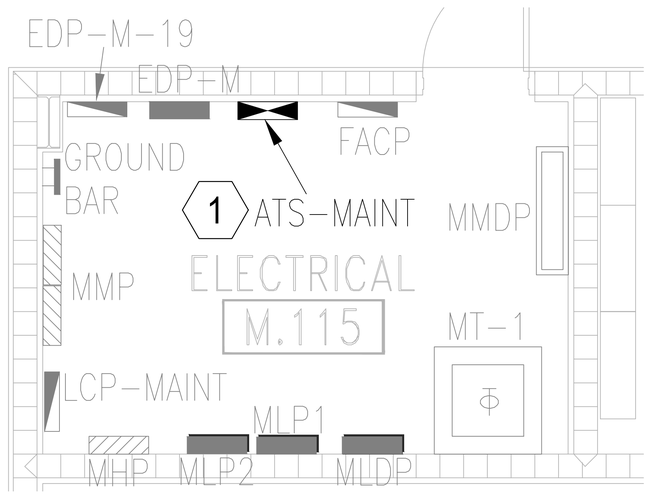
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DEMO ELECTRICAL FLOOR PLAN MAINTENANCE BLD

SCALE: 3/32"=1'-0" 0 4' 8' 16'



ENLARGED ELECTRICAL RM-M115

SCALE: 1/2"=1'-0" 0 1' 2' 4'

GENERAL NOTES:

a. REFER TO SYMBOL LEGEND ON SHEET E001.

b. REFER TO BOOK SPECIFICATIONS.

c. REFER TO EQUIPMENT SCHEDULES ON DRAWINGS E501 FOR DISCONNECT, CONDUIT AND WIRE SIZES.

d. ALL FEEDERS ARE TO HAVE LESS THAN 2% TOTAL VOLTAGE DROP AND ALL BRANCH CIRCUITS SHALL HAVE LESS THAN 3% VOLTAGE DROP.

e. IF CIRCUITS ARE COMBINED AND RUN AS MULTI-WIRE BRANCH CIRCUITS SHARING A COMMON NEUTRAL, THEN EACH UNGROUNDED CONDUCTOR MUST BE DISCONNECTED SIMULTANEOUSLY BY A COMMON TRIP CIRCUIT BREAKER. CONTRACTOR MAY, AT THEIR OPTION, PROVIDE EITHER COMMON TRIP MULTI-POLE CIRCUIT BREAKERS OR UTILIZE MANUFACTURERS LISTED HANDLE TIES IN ORDER TO PROVIDE THE SIMULTANEOUS TRIP. THESE DEVICES ARE NOT SHOWN IN THE PANEL SCHEDULES AND MUST BE PROVIDED BY THIS SCOPE OF WORK. NO MORE THAN 3 CIRCUITS MAY BE COMBINED IN A SINGLE RACEWAY WITHOUT PRIOR APPROVAL BY THE ENGINEER.

f. CONTRACTOR SHALL PROVIDE ARC FLASH WARNING LABELS FOR ALL PANELS BEING REPLACED.

g. CONTRACTOR TO CHECK PHASE ROTATION PRIOR TO DISCONNECTION AND AFTER RECONNECTION OF POWER.

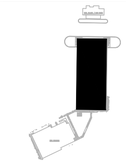
h. ENSURE ALL WIRES ARE TAGGED PER IDENTIFICATION SPECIFICATION.

i. EQUIPMENT SHOWN SCREENED IS EXISTING TO REMAIN. EQUIPMENT SHOWN DARK IS EXISTING TO BE REMOVED.

PLAN KEY NOTES:

1. REMOVE EXISTING ATS. EXISTING CONDUIT AND WIRE TO REMAIN TO NORMAL AND EMERGENCY. REMOVE WIRE TO LOAD AS SHOWN ON ONE LINE DRAWING. CONDUIT TO LOAD MAY BE REUSED.

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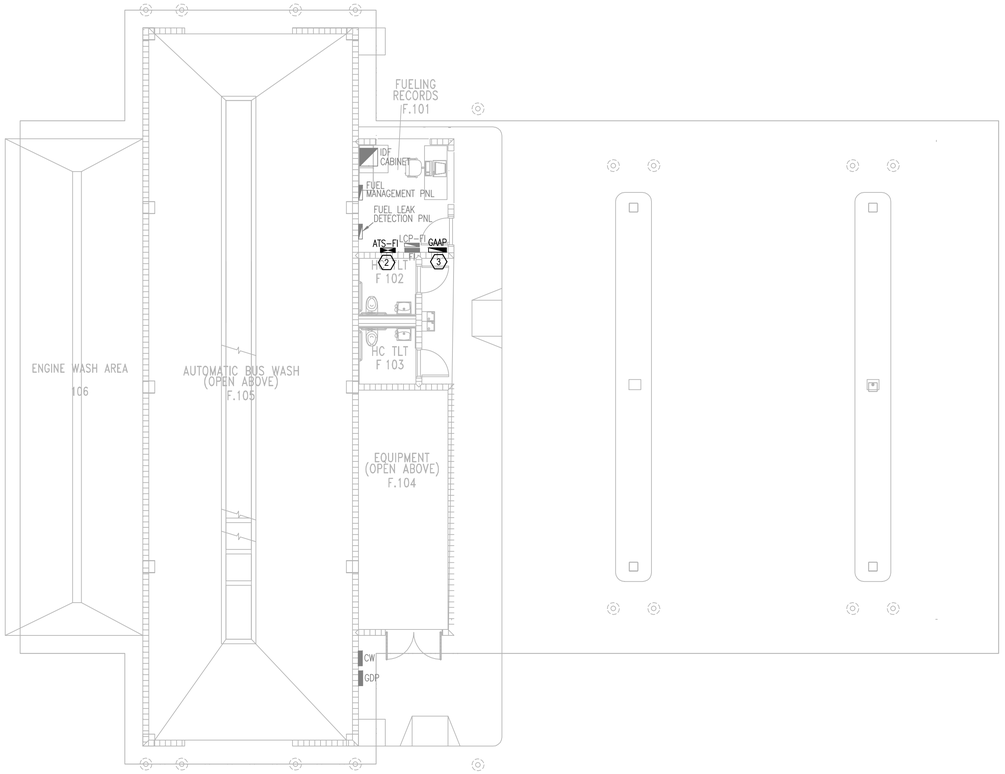
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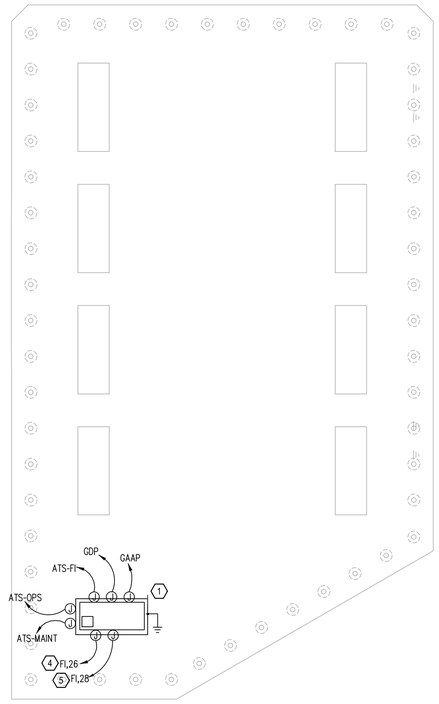
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SHEET TITLE
DEMO ELECTRICAL FLOOR PLAN MAINTENANCE BLD

DRAWING NO.
ED301

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DEMO ELECTRICAL FLOOR PLAN MAINTENANCE BLD

N

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

0 4' 8' 16'

GENERAL NOTES:

a. REFER TO SYMBOL LEGEND ON SHEET E001.

b. REFER TO BOOK SPECIFICATIONS.

c. REFER TO EQUIPMENT SCHEDULES ON DRAWINGS E501 FOR DISCONNECT, CONDUIT AND WIRE SIZES.

d. ALL FEEDERS ARE TO HAVE LESS THAN 2% TOTAL VOLTAGE DROP AND ALL BRANCH CIRCUITS SHALL HAVE LESS THAN 3% VOLTAGE DROP.

e. IF CIRCUITS ARE COMBINED AND RUN AS MULTI-WIRE BRANCH CIRCUITS SHARING A COMMON NEUTRAL, THEN EACH UNGROUNDED CONDUCTOR MUST BE DISCONNECTED SIMULTANEOUSLY BY A COMMON TRIP CIRCUIT BREAKER. CONTRACTOR MAY, AT THEIR OPTION, PROVIDE EITHER COMMON TRIP MULTI-POLE CIRCUIT BREAKERS OR UTILIZE MANUFACTURERS LISTED HANDLE TIES IN ORDER TO PROVIDE THE SIMULTANEOUS TRIP. THESE DEVICES ARE NOT SHOWN IN THE PANEL SCHEDULES AND MUST BE PROVIDED BY THIS SCOPE OF WORK. NO MORE THAN 3 CIRCUITS MAY BE COMBINED IN A SINGLE RACEWAY WITHOUT PRIOR APPROVAL BY THE ENGINEER.

f. CONTRACTOR SHALL PROVIDE ARC FLASH WARNING LABELS FOR ALL PANELS BEING REPLACED.

g. CONTRACTOR TO CHECK PHASE ROTATION PRIOR TO DISCONNECTION AND AFTER RECONNECTION OF POWER.

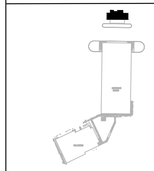
h. ENSURE ALL WIRES ARE TAGGED PER IDENTIFICATION SPECIFICATION.

i. EQUIPMENT SHOWN SCREENED IS EXISTING TO REMAIN. EQUIPMENT SHOWN DARK IS EXISTING TO BE REMOVED.

PLAN KEY NOTES: (#)

1. REMOVE EXISTING GENERATOR. EXISTING CONDUIT TO REMAIN. REMOVE ALL WIRING AND CONNECTIONS TO ASSOCIATED EQUIPMENT SCHEDULED TO BE REMOVED. SECURE AND PROTECT EXISTING WIRE SCHEDULED TO BE REUSED.
2. REMOVE EXISTING ATS. EXISTING CONDUIT TO REMAIN.
3. REMOVE GENERATOR ANNUNCIATOR PANEL. EXISTING CONDUIT TO REMAIN. REMOVE ALL WIRING AND CONNECTIONS TO ASSOCIATED EQUIPMENT. PREPARE FOR NEW GENERATOR ANNUNCIATOR PANEL TO BE INSTALLED IN EXISTING LOCATION.
4. BLOCK HEATER. SECURE AND PROTECT EXISTING WIRE SCHEDULED TO BE REUSED.
5. BATTERY CHARGER. SECURE AND PROTECT EXISTING WIRE SCHEDULED TO BE REUSED.

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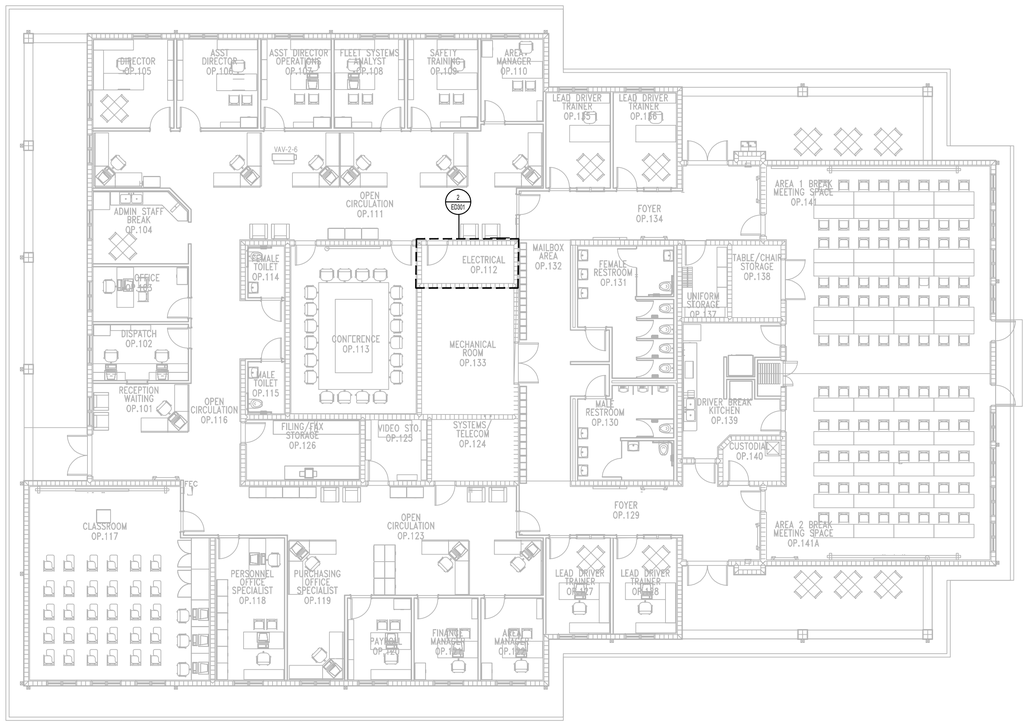
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SHEET TITLE
DEMO ELECTRICAL
FLOOR PLAN BUS WASH &
FUEL ISLAND

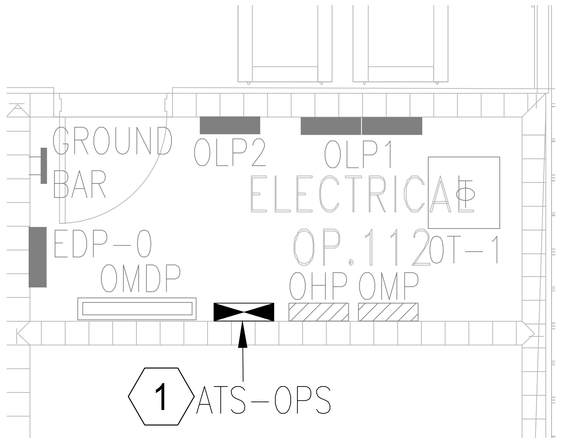
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ED302

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DEMO ELECTRICAL FLOOR PLAN OPS BUILDING

SCALE: 3/32"=1'-0" 0 4' 8' 16'



ENLARGED ELECTRICAL RM OP-112

SCALE: 1/2"=1'-0" 0 1' 2' 4'

GENERAL NOTES:

a. REFER TO SYMBOL LEGEND ON SHEET E001.

b. REFER TO BOOK SPECIFICATIONS.

c. REFER TO EQUIPMENT SCHEDULES ON DRAWINGS E501 FOR DISCONNECT, CONDUIT AND WIRE SIZES.

d. ALL FEEDERS ARE TO HAVE LESS THAN 2% TOTAL VOLTAGE DROP AND ALL BRANCH CIRCUITS SHALL HAVE LESS THAN 3% VOLTAGE DROP.

e. IF CIRCUITS ARE COMBINED AND RUN AS MULTI-WIRE BRANCH CIRCUITS SHARING A COMMON NEUTRAL, THEN EACH UNGROUNDED CONDUCTOR MUST BE DISCONNECTED SIMULTANEOUSLY BY A COMMON TRIP CIRCUIT BREAKER. CONTRACTOR MAY, AT THEIR OPTION, PROVIDE EITHER COMMON TRIP MULTI-POLE CIRCUIT BREAKERS OR UTILIZE MANUFACTURERS LISTED HANDLE TIES IN ORDER TO PROVIDE THE SIMULTANEOUS TRIP. THESE DEVICES ARE NOT SHOWN IN THE PANEL SCHEDULES AND MUST BE PROVIDED BY THIS SCOPE OF WORK. NO MORE THAN 3 CIRCUITS MAY BE COMBINED IN A SINGLE RACEWAY WITHOUT PRIOR APPROVAL BY THE ENGINEER.

f. CONTRACTOR SHALL PROVIDE ARC FLASH WARNING LABELS FOR ALL PANELS BEING REPLACED.

g. CONTRACTOR TO CHECK PHASE ROTATION PRIOR TO DISCONNECTION AND AFTER RECONNECTION OF POWER.

h. ENSURE ALL WIRES ARE TAGGED PER IDENTIFICATION SPECIFICATION.

i. EQUIPMENT SHOWN SCREENED IS EXISTING TO REMAIN. EQUIPMENT SHOWN DARK IS EXISTING TO BE REMOVED.

PLAN KEY NOTES:

1. REMOVE EXISTING ATS. EXISTING CONDUIT AND WIRE TO REMAIN TO NORMAL AND EMERGENCY. REMOVE WIRE TO LOAD AS SHOWN ON ONE LINE DRAWING. CONDUIT TO LOAD MAY BE REUSED.

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ENGINEERING
CA-00006208
935 Lake Baldwin Lane
Orlando, Fl. 32814
Tel: 407-767-5188
Fax: 407-767-5772
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REVISIONS

NO.	DATE	DESCRIPTION

DOCUMENT HISTORY

TRANSPORTATION DAYTONA BEACH

REPLACE EMERGENCY GENERATOR
VCS Project NO. 2648204

1648 HANCOCK BLVD,
DAYTONA BEACH, FL 32114

ENGR OF RECORD
ENGINEER
MARK A. ESCOTT

DESIGNED BY	DRAWN BY

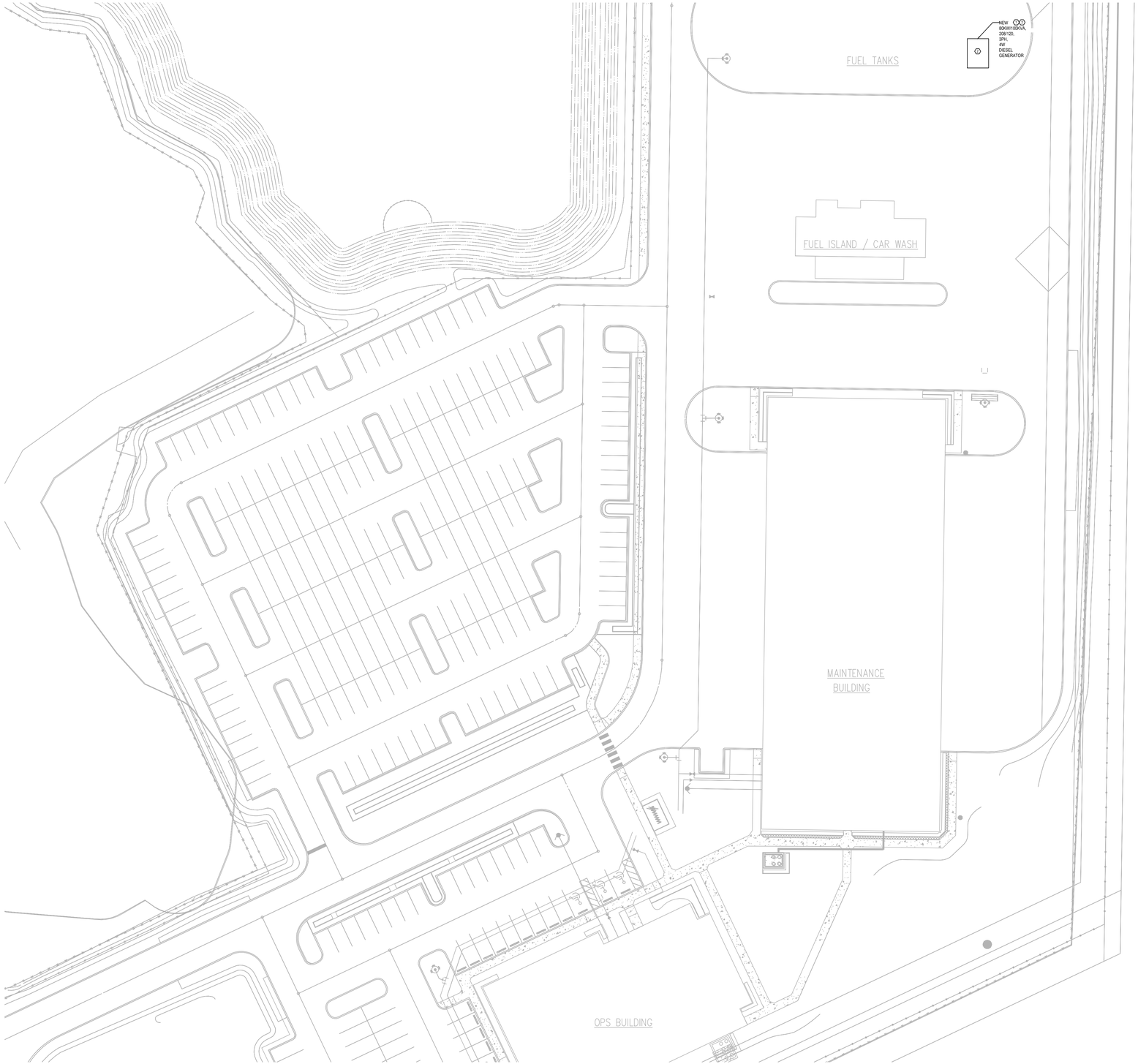
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02/06/2026	2025-393

SHEET TITLE
DEMO ELECTRICAL FLOOR PLAN OPS BUILDING

DRAWING NO.
ED303

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ELECTRICAL SITE PLAN

SCALE: 1/32"=1'-0" 0 16' 32' 64'

GENERAL NOTES:

a. REFER TO SYMBOL LEGEND ON SHEET E001.

b. REFER TO BOOK SPECIFICATIONS.

c. REFER TO EQUIPMENT SCHEDULES ON DRAWINGS 601 FOR DISCONNECT, CONDUIT AND WIRE SIZES.

d. ALL FEEDERS ARE TO HAVE LESS THAN 2% TOTAL VOLTAGE DROP AND ALL BRANCH CIRCUITS SHALL HAVE LESS THAN 3% VOLTAGE DROP.

e. IF CIRCUITS ARE COMBINED AND RUN AS MULTI-WIRE BRANCH CIRCUITS SHARING A COMMON NEUTRAL, THEN EACH UNGROUNDED CONDUCTOR MUST BE DISCONNECTED SIMULTANEOUSLY BY A COMMON TRIP CIRCUIT BREAKER. CONTRACTOR MAY, AT THEIR OPTION, PROVIDE EITHER COMMON TRIP MULTI-POLE CIRCUIT BREAKERS OR UTILIZE MANUFACTURERS LISTED HANDLE TIES IN ORDER TO PROVIDE THE SIMULTANEOUS TRIP. THESE DEVICES ARE NOT SHOWN IN THE PANEL SCHEDULES AND MUST BE PROVIDED BY THIS SCOPE OF WORK. NO MORE THAN 3 CIRCUITS MAY BE COMBINED IN A SINGLE RACEWAY WITHOUT PRIOR APPROVAL BY THE ENGINEER.

f. CONTRACTOR IS RESPONSIBLE FOR CUTTING AND PATCHING SIDEWALKS OR DIRECTIONAL BORING UNDER ALL SIDEWALKS AND ROADS. UTILIZE 3000 PSI CONCRETE FOR ANY PATCHING OF ROADWAY (BLACK CONCRETE) OR SIDEWALK. FINISH LOOK OF THE CONCRETE SHALL MATCH THE EXISTING LOOK OF THE SURROUNDING CONCRETE OR ASPHALT. CONTRACTOR SHALL COMPACT ALL TRENCHES NOT UNDER CONCRETE TO 95% AND UNDER CONCRETE TO 98% COMPACTION. MAINTAIN THE FLOW OF TRAFFIC DOWN THE STREET AT ALL TIMES. PROVIDE A WRITTEN MAINTENANCE OF TRAFFIC PLAN PRIOR TO BEGINNING ANY WORK THAT WILL DISRUPT THE NORMAL FLOW OF TRAFFIC. PROVIDE ALL SIGNAGE, FLAGMEN, ETC REQUIRED TO MAINTAIN THE TRAFFIC FLOW. PLANT NEW GRASS WHERE WORK WAS DISTURBED. ALL AREAS SHALL BE BROUGHT TO AN "AS FOUND" CONDITION.

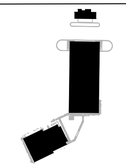
g. CONTRACTOR TO CHECK PHASE ROTATION PRIOR TO DISCONNECTION AND AFTER RECONNECTION OF POWER.

PLAN KEY NOTES: (#)

1. PROVIDE AND INSTALL NEW GENERATOR. CONTRACTOR TO EXTEND/MODIFY EXISTING CONDUITS TO NEW GENERATOR CONNECTION POINT AND INSTALL NEW FEEDER WIRING PER EQUIPMENT FEEDER SCHEDULE ON SHEET E501. EXTEND/MODIFY EXISTING CONDUIT AND WIRE FOR GENERATOR START CIRCUIT FROM THE ATS'S. SEE E302 FOR ADDITIONAL INFORMATION.

2. PROVIDE NEW CONCRETE HOUSE KEEPING PAD IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND DETAIL ON E801. COORDINATE THE LOCATIONS OF ALL CONDUIT STUB UPS THROUGH THE PAD PRIOR TO POURING.

SGM
ENGINEERING
CA-00006208
935 Lake Baldwin Lane
Orlando, Fl. 32814
Tel: 407-767-5188
Fax: 407-767-5772
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VCS Project NO. 2648204

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DAYTONA BEACH, FL 32114

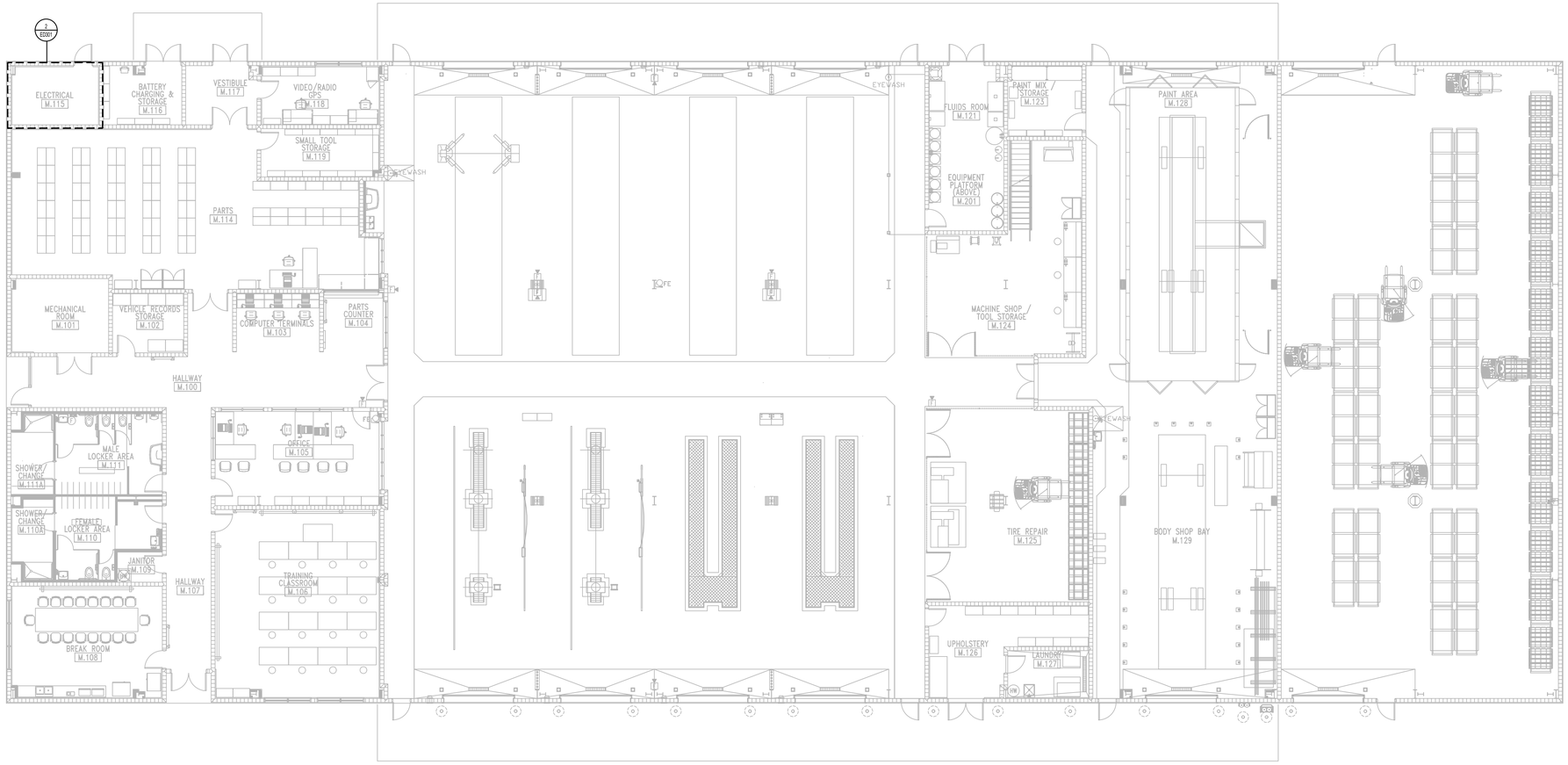
ENGR OF RECORD
ENGINEER
MARK A. ESCOTT

DESIGNED BY	DRAWN BY
ISSUE DATE	AE PROJECT NUMBER
02/06/2026	2025-393

SHEET TITLE
ELECTRICAL SITE PLAN

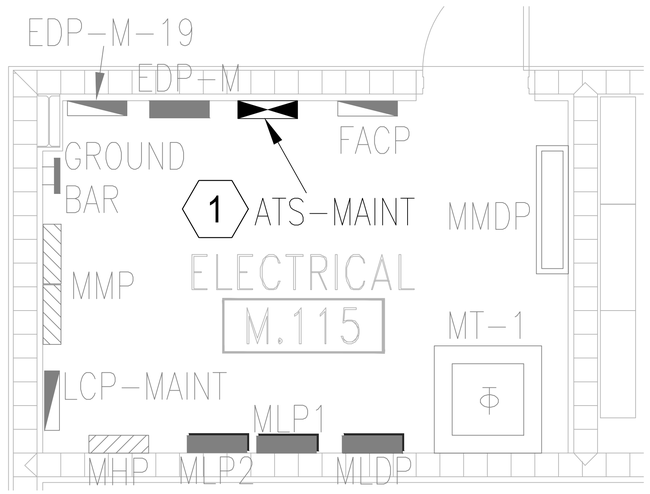
DRAWING NO.
E101

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ELECTRICAL FLOOR PLAN MAINTENANCE BLD

SCALE: 3/32"=1'-0" 0 4' 8' 16'



ENLARGED ELECTRICAL RM-M115

SCALE: 1/2"=1'-0" 0 1' 2' 4'

GENERAL NOTES:

a. REFER TO SYMBOL LEGEND ON SHEET E001.

b. REFER TO BOOK SPECIFICATIONS.

c. REFER TO EQUIPMENT SCHEDULES ON DRAWINGS E501 FOR DISCONNECT, CONDUIT AND WIRE SIZES.

d. ALL FEEDERS ARE TO HAVE LESS THAN 2% TOTAL VOLTAGE DROP AND ALL BRANCH CIRCUITS SHALL HAVE LESS THAN 3% VOLTAGE DROP.

e. IF CIRCUITS ARE COMBINED AND RUN AS MULTI-WIRE BRANCH CIRCUITS SHARING A COMMON NEUTRAL, THEN EACH UNGROUNDED CONDUCTOR MUST BE DISCONNECTED SIMULTANEOUSLY BY A COMMON TRIP CIRCUIT BREAKER. CONTRACTOR MAY, AT THEIR OPTION, PROVIDE EITHER COMMON TRIP MULTI-POLE CIRCUIT BREAKERS OR UTILIZE MANUFACTURERS LISTED HANDLE TIES IN ORDER TO PROVIDE THE SIMULTANEOUS TRIP. THESE DEVICES ARE NOT SHOWN IN THE PANEL SCHEDULES AND MUST BE PROVIDED BY THIS SCOPE OF WORK. NO MORE THAN 3 CIRCUITS MAY BE COMBINED IN A SINGLE RACEWAY WITHOUT PRIOR APPROVAL BY THE ENGINEER.

f. CONTRACTOR SHALL PROVIDE ARC FLASH WARNING LABELS FOR ALL PANELS BEING REPLACED.

g. CONTRACTOR TO CHECK PHASE ROTATION PRIOR TO DISCONNECTION AND AFTER RECONNECTION OF POWER.

h. ENSURE ALL WIRES ARE TAGGED PER IDENTIFICATION SPECIFICATION.

i. EQUIPMENT SHOWN SCREENED IS EXISTING TO REMAIN. EQUIPMENT SHOWN DARK IS NEW TO BE PROVIDED.

PLAN KEY NOTES:

1. PROVIDE NEW ATS. CONTRACTOR TO EXTEND/MODIFY EXISTING LINE SIDE CONDUITS AND WIRE AS NEEDED TO TERMINATE TO NEW ATS. IF WIRE NEEDS EXTENDED, UTILIZE COMPRESSION BUTT SPLICES WITH HEAT SHRINK. PROVIDE NEW LOAD SIDE CONDUCTORS TO EMERGENCY PANEL AS INDICATED ON ONE LINE DIAGRAM.

SGM
ENGINEERING
CA-00006208
935 Lake Baldwin Lane
Orlando, Fl. 32814
Tel: 407-767-5188
Fax: 407-767-5772
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REPLACE EMERGENCY GENERATOR
VCS Project NO. 2648204
1648 HANCOCK BLVD,
DAYTONA BEACH, FL 32114

ENGR OF RECORD
ENGINEER
MARK A. ESCOTT

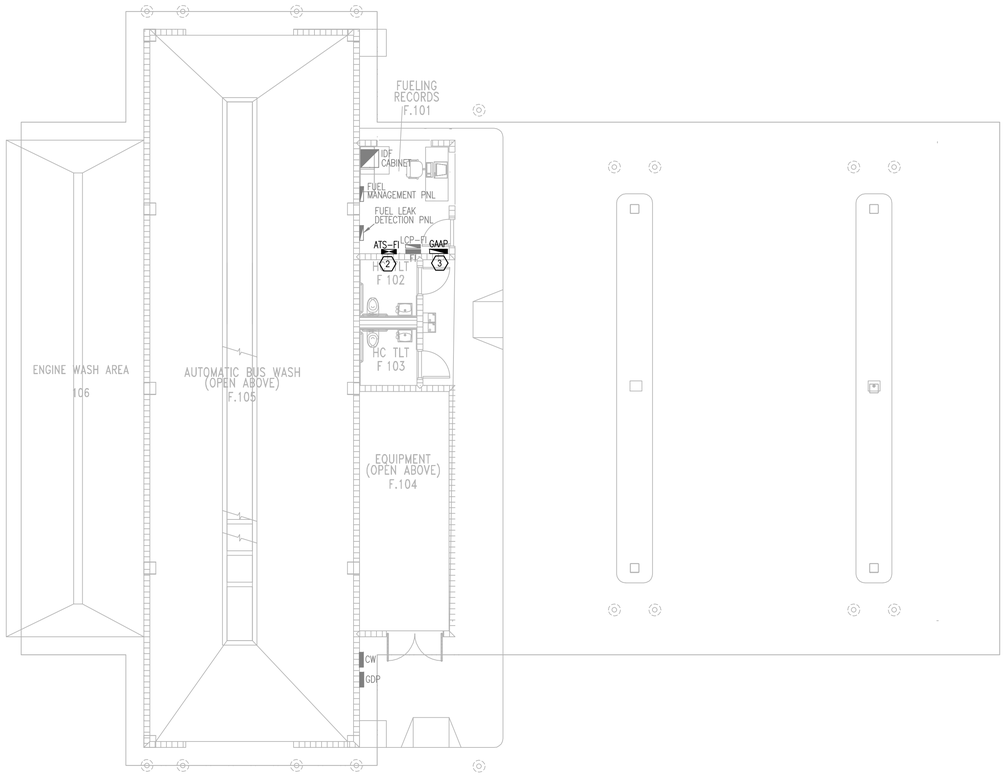
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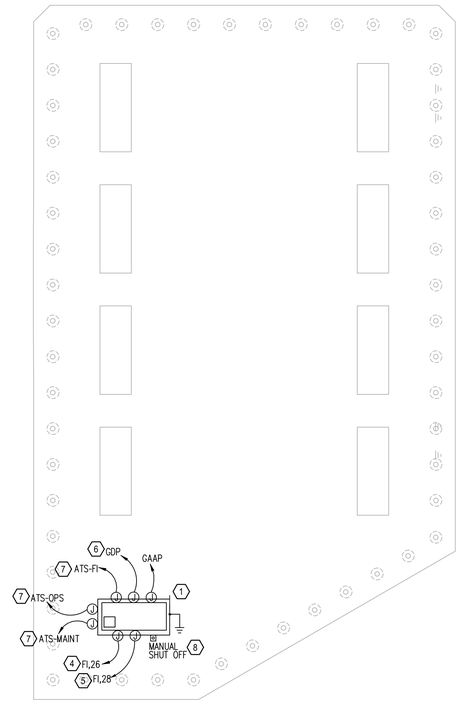
SHEET TITLE
ELECTRICAL FLOOR PLAN MAINTENANCE BLD

DRAWING NO.
E301

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ELECTRICAL FLOOR PLAN BUS WASH & FUEL ISLAND

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

0 4' 8' 16'

N

GENERAL NOTES:

a. REFER TO SYMBOL LEGEND ON SHEET E001.

b. REFER TO BOOK SPECIFICATIONS.

c. REFER TO EQUIPMENT SCHEDULES ON DRAWINGS E501 FOR DISCONNECT, CONDUIT AND WIRE SIZES.

d. ALL FEEDERS ARE TO HAVE LESS THAN 2% TOTAL VOLTAGE DROP AND ALL BRANCH CIRCUITS SHALL HAVE LESS THAN 3% VOLTAGE DROP.

e. IF CIRCUITS ARE COMBINED AND RUN AS MULTI-WIRE BRANCH CIRCUITS SHARING A COMMON NEUTRAL, THEN EACH UNGROUNDED CONDUCTOR MUST BE DISCONNECTED SIMULTANEOUSLY BY A COMMON TRIP CIRCUIT BREAKER. CONTRACTOR MAY, AT THEIR OPTION, PROVIDE EITHER COMMON TRIP MULTI-POLE CIRCUIT BREAKERS OR UTILIZE MANUFACTURERS LISTED HANDLE TIES IN ORDER TO PROVIDE THE SIMULTANEOUS TRIP. THESE DEVICES ARE NOT SHOWN IN THE PANEL SCHEDULES AND MUST BE PROVIDED BY THIS SCOPE OF WORK. NO MORE THAN 3 CIRCUITS MAY BE COMBINED IN A SINGLE RACEWAY WITHOUT PRIOR APPROVAL BY THE ENGINEER.

f. CONTRACTOR SHALL PROVIDE ARC FLASH WARNING LABELS FOR ALL PANELS BEING REPLACED.

g. CONTRACTOR TO CHECK PHASE ROTATION PRIOR TO DISCONNECTION AND AFTER RECONNECTION OF POWER.

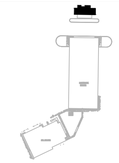
h. ENSURE ALL WIRES ARE TAGGED PER IDENTIFICATION SPECIFICATION.

i. EQUIPMENT SHOWN SCREENED IS EXISTING TO REMAIN. EQUIPMENT SHOWN DARK IS NEW TO BE PROVIDED.

PLAN KEY NOTES:

1. PROVIDE NEW GENERATOR. CONTRACTOR TO EXTEND/MODIFY EXISTING CONDUITS TO NEW GENERATOR CONNECTION POINT AND INSTALL NEW FEEDER WIRING PER EQUIPMENT FEEDER SCHEDULE ON SHEET E501. EXTEND/MODIFY EXISTING CONDUIT AND WIRE FOR GENERATOR START CIRCUIT FROM THE ATS.
2. PROVIDE NEW ATS. CONTRACTOR TO EXTEND/MODIFY EXISTING CONDUITS AS NEEDED TO TERMINATE EXISTING LINE SIDE CONDUCTORS TO NEW ATS. UTILIZE COMPRESSION BUTT SPLICE WITH HEAT SHRINK IF ANY FEEDER WIRE NEEDS EXTENDED. PROVIDE NEW LOAD SIDE CONDUCTORS TO EMERGENCY PANEL AS INDICATED ON RISER DIAGRAM.
3. PROVIDE NEW GENERATOR ANNUNCIATOR IN THE SAME LOCATION AS THE REMOVED ANNUNCIATOR. PROVIDE NEW WIRING FROM GENERATOR CONTROLLER TO ANNUNCIATOR IN ACCORDANCE WITH MANUFACTURERS INSTRCTIONS IN EXISTING CONDUIT. CONDUITS MAY NEED TO BE MODIFIED/EXTENDED PRIOR TO NEW WIRE INSTALLATION.
4. BLOCK HEATER. CONTRACTOR TO EXTEND/MODIFY EXISTING CONDUIT AND WIRE TO NEW GENERATOR CONNECTION POINT. UTILIZE COMPRESSION BUTT SPLICE COMPRESSION WITH HEAT SHRINK IF A SPLICE IS REQUIRED.
5. BATTERY CHARGER. CONTRACTOR TO EXTEND/MODIFY EXISTING CONDUIT AND WIRE TO NEW GENERATOR CONNECTION POINT. UTILIZE COMPRESSION BUTT SPLICE COMPRESSION WITH HEAT SHRINK IF A SPLICE IS REQUIRED.
6. EXTEND EXISTING CONDUIT TO NEW GENERATOR CONNECTION POINT. PROVIDE NEW FEEDER WIRE IN EXISTING CONDUIT BETWEEN GENERATOR AND GDP.
7. ATS START CIRCUIT CONNECTION. CONTRACTOR TO EXTEND/MODIFY EXISTING CONDUITS AND WIRE TO NEW GENERATOR CONNECTION POINT.
8. PROVIDE EMERGENCY STOP BUTTON. REFER TO THE ONE LINE DIAGRAM ON SHEET E501 FOR ADDITIONAL INFORMATION.

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ENGINEERING
CA-00006208
935 Lake Baldwin Lane
Orlando, Fl. 32814
Tel: 407-767-5188
Fax: 407-767-5772
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VCS Project NO. 2648204
1648 HANCOCK BLVD,
DAYTONA BEACH, FL 32114

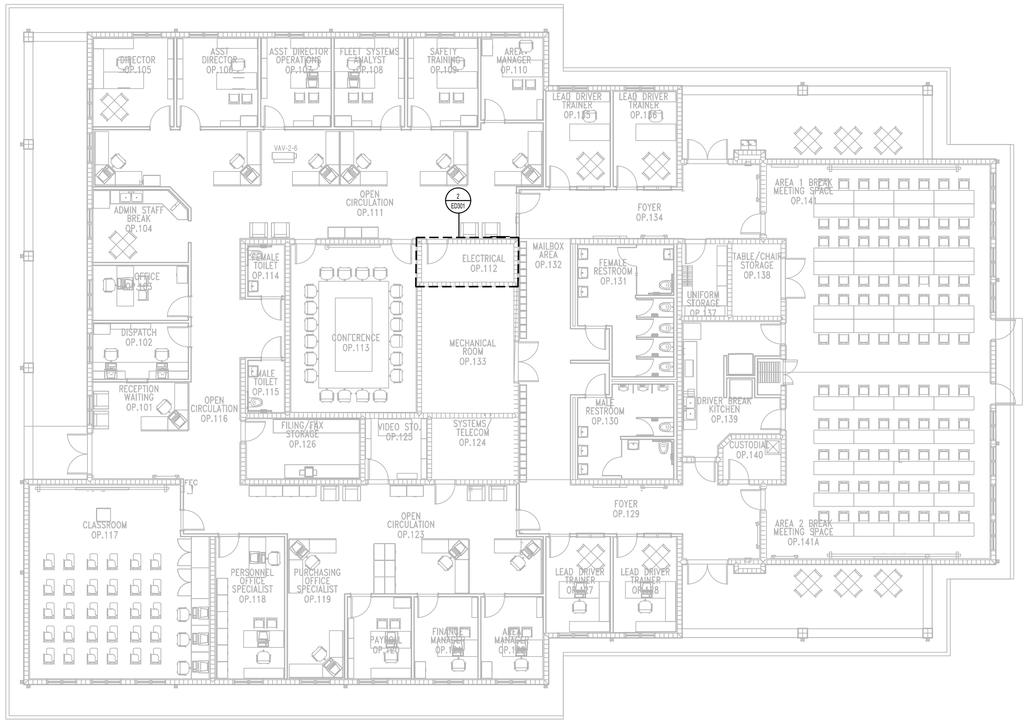
ENGR OF RECORD
ENGINEER
MARK A. ESCOTT

DESIGNED BY	DRAWN BY
ISSUE DATE	AE PROJECT NUMBER
02/06/2026	2025-393

SHEET TITLE
ELECTRICAL FLOOR PLAN
BUS WASH & FUEL ISLAND

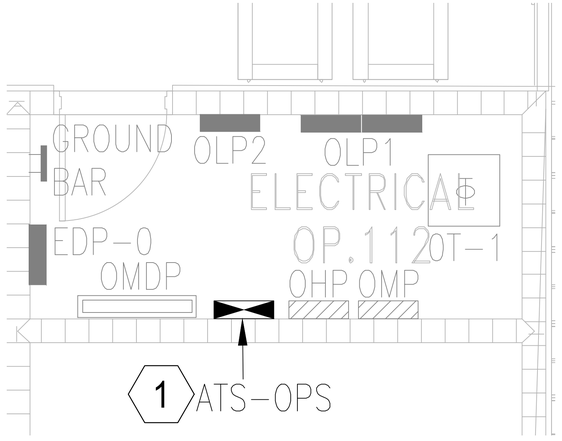
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E302

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ELECTRICAL FLOOR PLAN OPS BUILDING

SCALE: 3/32"=1'-0" 0 4' 8' 16'



ENLARGED ELECTRICAL RM OP-112

SCALE: 1/2"=1'-0" 0 1' 2' 4'

GENERAL NOTES:

a. REFER TO SYMBOL LEGEND ON SHEET E001.

b. REFER TO BOOK SPECIFICATIONS.

c. REFER TO EQUIPMENT SCHEDULES ON DRAWINGS E501 FOR DISCONNECT, CONDUIT AND WIRE SIZES.

d. ALL FEEDERS ARE TO HAVE LESS THAN 2% TOTAL VOLTAGE DROP AND ALL BRANCH CIRCUITS SHALL HAVE LESS THAN 3% VOLTAGE DROP.

e. IF CIRCUITS ARE COMBINED AND RUN AS MULTI-WIRE BRANCH CIRCUITS SHARING A COMMON NEUTRAL, THEN EACH UNGROUNDED CONDUCTOR MUST BE DISCONNECTED SIMULTANEOUSLY BY A COMMON TRIP CIRCUIT BREAKER. CONTRACTOR MAY, AT THEIR OPTION, PROVIDE EITHER COMMON TRIP MULTI-POLE CIRCUIT BREAKERS OR UTILIZE MANUFACTURERS LISTED HANDLE TIES IN ORDER TO PROVIDE THE SIMULTANEOUS TRIP. THESE DEVICES ARE NOT SHOWN IN THE PANEL SCHEDULES AND MUST BE PROVIDED BY THIS SCOPE OF WORK. NO MORE THAN 3 CIRCUITS MAY BE COMBINED IN A SINGLE RACEWAY WITHOUT PRIOR APPROVAL BY THE ENGINEER.

f. CONTRACTOR SHALL PROVIDE ARC FLASH WARNING LABELS FOR ALL PANELS BEING REPLACED.

g. CONTRACTOR TO CHECK PHASE ROTATION PRIOR TO DISCONNECTION AND AFTER RECONNECTION OF POWER.

h. ENSURE ALL WIRES ARE TAGGED PER IDENTIFICATION SPECIFICATION.

i. EQUIPMENT SHOWN SCREENED IS EXISTING TO REMAIN. EQUIPMENT SHOWN DARK IS NEW TO BE PROVIDED.

PLAN KEY NOTES:

1. PROVIDE NEW ATS. CONTRACTOR TO EXTEND/MODIFY EXISTING LINE SIDE CONDUITS AND WIRE AS NEEDED TO TERMINATE TO NEW ATS. IF WIRE NEEDS EXTENDED, UTILIZE COMPRESSION BUTT SPLICES WITH HEAT SHRINK. PROVIDE NEW FEEDER TO EMERGENCY PANEL AS INDICATED ON ONE LINE DIAGRAM.

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ENGINEERING
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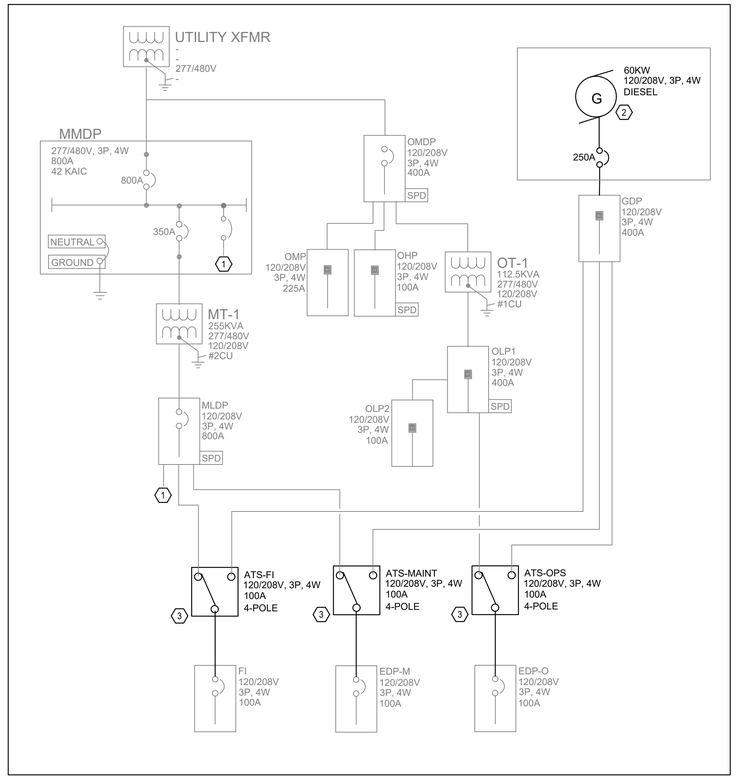
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ENGINEER
MARK A. ESCOTT

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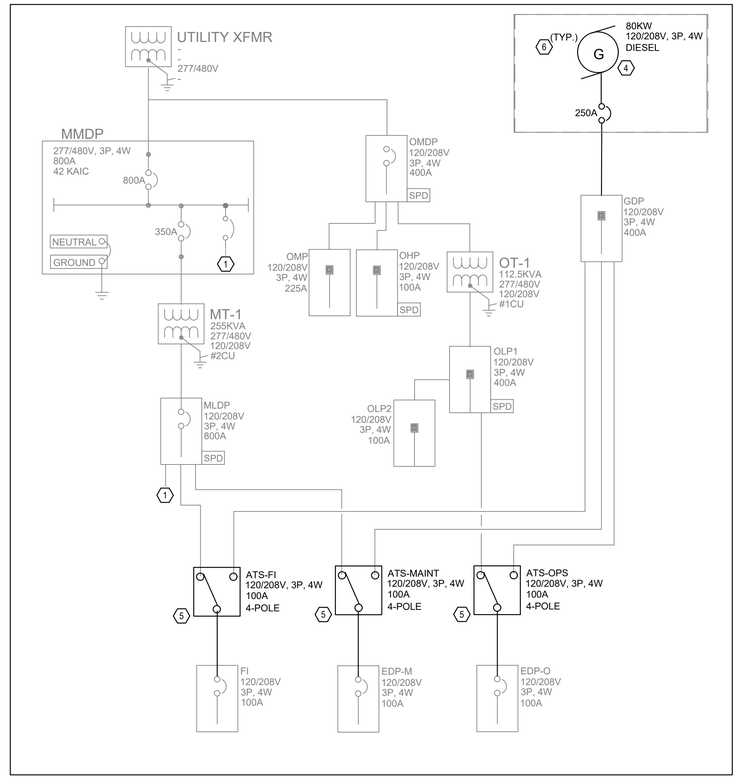
SHEET TITLE
ELECTRICAL FLOOR PLAN
OPS BUILDING

DRAWING NO.
E303

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PARTIAL DEMO ONE LINE DIAGRAM



PARTIAL RENO ONE LINE DIAGRAM

PANEL FEEDER SCHEDULE:

* WIRE SIZES ARE BASED ON NFPA 70 TABLE 310.15(B)(16) 60 DEGREE CU COLUMN FOR SIZES OF 100A AND LESS, ALL OTHERS BASED ON 75 DEGREE COLUMN.

**LOAD AMPS AND DISTANCE SHOWN FOR VD CALCULATION ONLY. SEE PANEL SCHEDULE FOR ACTUAL LOAD. ACTUAL DISTANCE MAY VARY DEPENDENT ON ROUTING.

FEEDER DESCRIPTION SOURCE	FEEDER DESCRIPTION LOAD	VOLTS	PH	NEUT Y/N	200% NEUT Y/N	GRND Y/N	ISO GND Y/N	MAIN OCP RATING	LOAD AMPS**	DISCONNECT SIZE	DISCONNECT FUSE	DISCONNECT NEMA	WIRE PER PHASE*	NEUT WIRE	ADD NEUT	GND WIRE	ISO GND	SYST BOND JUMP	# OF RUNS	CONDUIT SIZE	APPROX DIST.** FT	VOLT DROP VD%	NOTES
GENERATOR	GDP	120	3	Y	N	Y	N	250	200				#250	#250		#4			1	3" EXIST	125	1.95%	(a)
ATS-FI	FI	120	3	Y	N	Y	N	100	80				#3	#3		#8			1	1.25"	50	1.44%	
ATS-MAINT	EDP-M	120	3	Y	N	Y	N	100	80				#3	#3		#8			1	1.25"	50	1.44%	
ATS-OPS	EDP-O	120	3	Y	N	Y	N	100	80				#3	#3		#8			1	1.25"	50	1.44%	

GENERAL NOTES:

(1) - PROVIDE DISC. SW. AT ALL PIECES OF EQUIPMENT, UNLESS OTHERWISE NOTED ON THIS SCHEDULE.
(2) - FUSES SHOWN FOR REFERENCE ONLY, PROVIDE FUSES AS RECOMMENDED BY EQUIP. MANUF.
(3) - PROVIDE NEMA OUTDOOR RATED ENCLOSURES FOR ALL DISC. SWS MOUNTED OUTDOORS.
(4) - COORDINATE STARTER TYPE WITH MECHANICAL EQUIPMENT INSTALLER.
(5) - E.C. TO VERIFY THAT C.B. FOR COMPRESSORS IS SUFFICIENT TO ALLOW STARTING OF UNIT, IF #12 FEEDERS SHOWN AND OVER 50FT. LONG TO BE #10 WIRE FOR 120V CIRCUITS. #12 FEEDERS SHOWN AND OVER 100FT. LONG TO BE #10 WIRE FOR 277V CIRCUITS.
(6) - #12 FEEDERS SHOWN AND OVER 50FT. LONG TO BE #10 WIRE FOR 120V CIRCUITS.

ABBREVIATIONS:

N.F. = NON-FUSED
ECB = ENCLOSED CIRCUIT BREAKER
3R = NEMA 3R ENCLOSURE
4X = NEMA 4 W.P. STAINLESS STEEL ENCL.

NOTES:

(a) - ROUTE ALL FEEDERS CONCEALED FROM PUBLIC VIEW
(b) - EXISTING FEEDER TO REMAIN

GENERAL NOTES:

a. REFER TO BOOK SPECIFICATIONS.

b. REFER TO PANEL FEEDER SCHEDULE FOR ALL PANEL FEEDER CONDUIT AND WIRE SIZES.

c. REFER TO EQUIPMENT SCHEDULE ON FOR DISCONNECT, CONDUIT AND WIRE SIZES FOR EQUIPMENT.

d. ALL FEEDERS ARE TO HAVE LESS THAN 2% TOTAL VOLTAGE DROP AND ALL BRANCH CIRCUITS SHALL HAVE LESS THAN 3% VOLTAGE DROP.

e. IF CIRCUITS ARE COMBINED AND RUN AS MULTI-WIRE BRANCH CIRCUITS SHARING A COMMON NEUTRAL, THEN EACH UNGROUNDED CONDUCTOR MUST BE DISCONNECTED SIMULTANEOUSLY BY A COMMON TRIP CIRCUIT BREAKER. CONTRACTOR MAY, AT THEIR OPTION, PROVIDE EITHER COMMON TRIP MULTI-POLE CIRCUIT BREAKERS OR UTILIZE MANUFACTURERS LISTED HANDLE TIES IN ORDER TO PROVIDE THE SIMULTANEOUS TRIP. THESE DEVICES ARE NOT SHOWN IN THE PANEL SCHEDULES AND MUST BE PROVIDED BY THIS SCOPE OF WORK. NO MORE THAN 3 CURRENT CARRYING CONDUCTORS MAY BE COMBINED IN A SINGLE RACEWAY WITHOUT PRIOR APPROVAL BY THE ENGINEER OF RECORD (EOR).

PLAN KEY NOTES: ⟨#⟩

1. ADDITIONAL EXISTING LOADS ARE NOT SHOWN AND NOT IN SCOPE.
2. GENERATOR IS TO BE REPLACED. REMOVE GENERATOR AND ASSOCIATED ANNUNCIATOR PANEL. CIRCUITS FEEDING THE EXISTING GENERATOR'S BATTERY CHARGER AND JACKET HEATER ARE TO BE DISCONNECTED AND RECONNECTED. START CIRCUITS FROM ATS ARE TO BE DISCONNECTED AND RECONNECTED.
3. AUTOMATIC TRANSFER SWITCH IS TO BE REMOVED. START CIRCUIT TO THE GENERATOR TO BE DISCONNECTED AND PROTECTED FOR RECONNECTION. INCOMING FEEDERS TO THE PANEL ARE TO BE DISCONNECTED AND PROTECTED FOR RECONNECTION. FEEDER TO EMERGENCY PANEL ON LOAD SIDE IS TO BE REMOVED.
4. CLASS 72, 80KW, 100KVA 208/120V, 3PH, 4W DIESEL GENERATOR W/ BASE TANK. PROVIDE GENERATOR ANNUNCIATOR PANEL AND ASSOCIATED CONDUIT & WIRING. BOND NEUTRAL TO GROUND AT GENERATOR. CONNECT GROUND TO EXISTING BUS WASH & FUEL ISLAND BUILDING GROUNDING ELECTRODE CONDUCTOR.
5. CONNECT GENERATOR START CIRCUITRY FROM ATS TO GENERATOR. CONTRACTOR TO EXTEND/MODIFY EXISTING CONDUIT AND WIRE AS NEEDED TO TERMINATE TO NEW ATS. REUSE EXISTING WIRING FOR NORMAL AND EMERGENCY FEEDERS. IF FEEDERS NEED EXTENDED, UTILIZE COMPRESSION BUTT SPLICES WITH HEAT SHRINK TO EXTEND WIRES. FEEDER TO EMERGENCY PANEL IS TO BE REPLACED.
6. PROVIDE ARC FLASH STUDY AND LABEL PANEL GDP, ATS'S AND GENERATOR WITH PPE LEVELS AND CALORIC ENERGY AS PER SPECIFICATION 26 05 73.

SGM
ENGINEERING
CA-00006208
935 Lake Baldwin Lane
Orlando, Fl. 32814
Tel: 407-767-5188
Fax: 407-767-5772
www.sgmengineering.com
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SGM #: 2025-393

REVISIONS

NO.	DATE	DESCRIPTION

TRANSPORTATION DAYTONA BEACH

REPLACE EMERGENCY GENERATOR
VCS Project NO. 2648204
1648 HANCOCK BLVD,
DAYTONA BEACH, FL 32114

ENGR OF RECORD
ENGINEER
MARK A. ESCOTT

DESIGNED BY	DRAWN BY

ISSUE DATE	AE PROJECT NUMBER
02/06/2026	2025-393

SHEET TITLE
ONE LINE DIAGRAM

DRAWING NO.
E501

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MANUFACTURER: SQ D
TYPE:
AIC RATING: 22 K AMPS
VOLTS L-N: 120 V
VOLTS L-L: 208 V
PHASE 3

MAIN OPTIONS REQUIRED
MCB: N/A AMPS
MLO: 400 AMPS
S.E RATED:
GFI PROT: N/A
SHUNT TRIP:

PANEL NAME: GDP - EXISTING

LOCATION: FI
MOUNTING: SURFACE
NEMA TYPE: 3R
WIDTH : IN
DEPTH : IN

NOTES	CKT NO.	IDENTIFICATION	LOAD	LOAD/PHASE (KVA) A	B	C	CIRCUIT BREAKER TRIP	P	P	TRIP	LOAD/PHASE (KVA) A	B	C	LOAD	IDENTIFICATION	CKT NO.	NOTES
	1			6.07							0.00					2	
	3	PANEL FI (VIA ATS-FI)	O		6.07		100	3	3	100		0.00		O	SPD	4	
	5					6.07							0.00			6	
	7			6.43							0.00					8	
	9	PANEL EDP-O (VIA ATS-OPS)	O		6.43		100	3	3	100		0.00		S	SPARE	10	
	11					6.43							0.00			12	
	13			3.90							0.00					14	
	15	PANEL EDP-M (VIA ATS-MAINT)	O		3.90		100	3	3	100		0.00		S	SPARE	16	
	17					3.90							0.00			18	
				16.4	16.4	16.4					0.0	0.0	0.0				

	CONN. LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING (L)	0.00	1.25	0.00
RECEPTACLES 1ST 10 KVA(R)	0.00	1.00	0.00
RECEPTACLES OVER 10KVA(R)	0.00	0.50	0.00
HVAC EQUIPMENT (H)	0.00	1.00	0.00
APPLIANCES (A)	0.00	1.00	0.00
EQUIPMENT (E)	0.00	1.00	0.00
LARGEST MOTOR (M)	0.00	1.25	0.00
OTHER (O)	16.40	1.00	16.40
SPARE (S)	0.00	1.00	0.00
LINKED PANEL (P)	INCLUDED IN ABOVE TOTALS		

TOTAL CONNECTED KVA: 49.20
TOTAL CONNECTED AMPS/PH: 137
TOTAL DEMAND KVA: 16.40
TOTAL DEMAND AMPS/PH: 46

GENERAL NOTES:
a. EXISTING PANEL TO REMAIN AS SPECIFIED.

SCHEDULE NOTES:

MANUFACTURER: SQ D
TYPE:
AIC RATING: 22 K AMPS
VOLTS L-N: 120 V
VOLTS L-L: 208 V
PHASE 3

MAIN OPTIONS REQUIRED
MCB: 100 AMPS
MLO: AMPS
S.E RATED:
GFI PROT: NO
SHUNT TRIP:

PANEL NAME: FI EXISTING

LOCATION: F.101
MOUNTING: SURFACE
NEMA TYPE: 1
WIDTH : IN
DEPTH : IN

NOTES	CKT NO.	IDENTIFICATION	LOAD	LOAD/PHASE (KVA) A	B	C	CIRCUIT BREAKER TRIP	P	P	TRIP	LOAD/PHASE (KVA) A	B	C	LOAD	IDENTIFICATION	CKT NO.	NOTES
	1	FUEL MANAGEMENT PANEL		1.00			20	1			0.00					2	
	3	FUEL LEAK DETECTOR PANEL			1.00		20	1	3	30		0.00			SPD	4	
	5	FUEL PUMP				1.00	20	2					0.00			6	
	7			1.00					1	20	0.60				RECEPTACLE	8	
	9	FUEL PUMP			1.00		20	2	2	20		1.20			PTAC-3-1 RECEPT	10	
	11					1.00							1.20			12	
	13	FUEL PUMP		1.00			20	2	1	20	1.20				LIGHTING	14	
	15				1.00				1	20		1.00			LIGHTING	16	
	17	FUEL DISPENSER				1.00	20	1	1	20			1.00		LIGHTING	18	
	19	FUEL DISPENSER		1.00			20	1	1	20	1.00				IDF	20	
	21	HAND DRYER			1.50		20	1	1	20		1.00			EWC	22	
	23	HAND DRYER				1.50	20	1	1	20			1.00		BATTERY CHARGER	24	1
	25	SPARE		0.00			20	1	1	20	1.00				BLOCK HEADER	26	1
	27	SPARE			0.00		20	1	1	20		0.40			RECEPTACLE	28	
	29	SPARE				0.00	20	1	1	20			0.00		SPARE	30	
				4.0	4.5	4.5					3.8	3.6	3.2				

	CONN. LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING (L)	0.00	1.25	0.00
RECEPTACLES 1ST 10 KVA(R)	0.00	1.00	0.00
RECEPTACLES OVER 10KVA(R)	0.00	0.50	0.00
HVAC EQUIPMENT (H)	0.00	1.00	0.00
APPLIANCES (A)	0.00	1.00	0.00
EQUIPMENT (E)	0.00	1.00	0.00
LARGEST MOTOR (M)	0.00	1.25	0.00
OTHER (O)	0.00	1.00	0.00
SPARE (S)	0.00	1.00	0.00
LINKED PANEL (P)	INCLUDED IN ABOVE TOTALS		

TOTAL CONNECTED KVA: 23.60
TOTAL CONNECTED AMPS/PH: 66
TOTAL DEMAND KVA: 0.00
TOTAL DEMAND AMPS/PH: 0

GENERAL NOTES:
a. EXISITNG PANEL TO REMAIN.

SCHEDULE NOTES:
1. EXISITNG LOAD ON EXISTING BREAKER AND WIRE.

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REVISIONS

NO.	DATE	DESCRIPTION

DOCUMENT HISTORY

TRANSPORTATION DAYTONA BEACH

REPLACE EMERGENCY GENERATOR
VCS Project NO. 2648204
1648 HANCOCK BLVD,
DAYTONA BEACH, FL 32114

ENGR OF RECORD
ENGINEER
MARK A. ESCOTT

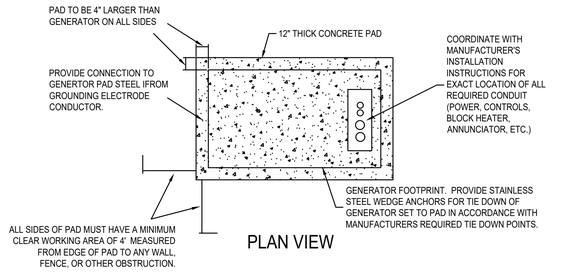
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ISSUE DATE	AE PROJECT NUMBER
02/06/2026	2025-393

SHEET TITLE
ELECTRICAL PANEL SCHEDULES

DRAWING NO.
E701

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NOTES:
1) THE GROUND SHALL BE LEVELED AND THOROUGHLY COMPACTED BEFORE THE PAD IS INSTALLED.
2) PAD TO BE REINFORCED WITH MINIMUM 4/8" REBAR ON 8" CENTERS IN BOTH DIRECTIONS AND 2" AWAY FROM TOP AND BOTTOM.
3) PROVIDE MINIMUM 3000 PSI CONCRETE.
4) TOP SURFACE OF PAD TO HAVE BROOM FINISH AND TOP EDGES TO HAVE 1" CHAMFER.
5) PRECAST PADS ARE NOT REQUIRED TO HAVE BROOM FINISH.

GENERATOR PAD
NO SCALE

1
No Scale

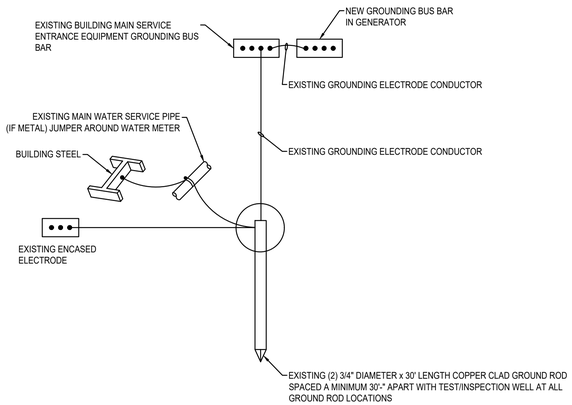
PANEL XXX
120/208V 3PH 4W, 225A
FED FROM XXXXX

AHU-XXX
480V 3PH 3W, 60A
FED FROM XXXXX

(A) 1/8" PREDRILLED HOLES FOR RIVET OR MACHINE SCREW MOUNTING

PHENOLIC LABEL DETAIL
No Scale

2
1
No Scale



DETAIL NOTE:

SERVICE GROUND PER N.E.C. AND SPECIFICATIONS.
ALL CONNECTIONS TO GROUND RODS AND BUILDING STEEL SHALL BE EXOTHERMIC TYPE. ALL OTHERS SHALL BE TORQUE BOLTED.

GROUNDING ELECTRODE OVERVIEW
No Scale

3

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ENGINEERING
CA-00006208
935 Lake Baldwin Lane
Orlando, Fl. 32814
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ENGR OF RECORD
ENGINEER
MARK A. ESCOTT

DESIGNED BY	DRAWN BY
ISSUE DATE: 02/06/2026	AE PROJECT NUMBER: 2025-393

SHEET TITLE
ELECTRICAL DETAILS

DRAWING NO.
E801

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