WIRING TO PRESSURE SWITCH AND COMPRESSOR MOTOR BY ELECTRICAL CONTRACTOR. SEE WIRING DIAGRAM BELOW.

208V, 3Ø

NON-FUSED DISCONNECT/ STARTER

PRESSURE SWITCH

AIR COMPRESSOR WIRING DIAGRAM FOR STARTER.

M

30.3

3#10, #10 GROUND IN SEALTITE FLEX TO COMPRESSOR MOTOR.

SQUARE D CLASS 8538 COMBINATION STARTER/NON-FUSIBLE DISCONNECT, 3-POLE, 600-VOLT, NEMA-3R, NEMA SIZE 1, WITH (3) AR-27 BIMETALLIC THERMAL UNITS, EXTERNAL RESET, AND COIL VOLTAGE AT 208-VOLTS (CODE V08). SUPPLIED AS PART OF SWITCHGEAR PACKAGE.

TANK MOUNTED 5-HP AIR COMPRESSOR

2#12 IN SEALTITE FLEX TO PRESSURE SWITCH.

45 0.9%VD RTU01 TELE/DATA 30.3

113 1.2%VD RTU17 RECVG 85.3
124 1.3%VD RTU16 SALES 85.3
230 2.2%VD RTU15 SALES 85.3
364 2.7%VD RTU14 SALES 100.3V
442 2.6%VD RTU13 SALES 115.3V
392 2.8%VD RTU11 SALES 100.3V
259 2.4%VD RTU10 SALES 85.3

357 2.9%VD RTU02 VESTIBULES 50.3V
371 2.9%VD RTU03 OFFICE 65.3V
518 2.4%VD RTU04 BRKRM 85.3V
567 2.6%VD RTU05 SALES 130.3V
471 2.7%VD RTU06 SALES 115.3V
337 2.5%VD RTU07 SALES 100.3V
256 2.4%VD RTU08 SALES 85.3
181 1.8%VD RTU09 SALES 85.3
492 2.8%VD RTU12 SALES 115.3V

150.3V
150.3V

ELECTRICAL ROOM 2 - SECTION 2-2

BUILDING MANAGEMENT SYSTEM 53 1.0%VD

"RP2" 120/208V.,3Ø 400 A. M.C.B. 84 SPACE 10K AIC FULLY RATED
FWC
"RP3" 120/208V.,3Ø 100 A. M.L.O. 42 SPACE 10K AIC FULLY RATED
"CP2" 120/208V.,1Ø 125 A. M.C.B. 54 SPACE 10K AIC FULLY RATED

8 1.1%VD 400.4S

PANEL "RP2" DRY-TYPE TRANSFORMER 150.0 KVA THREE PHASE 480V. PRIM. 120/208 V. SECONDARY

FLEX FLEX #1/0 GRD. 362 1.0%VD 230.3A 230.3

RECEPTACLE PANEL | RECEPTACLE PANEL | COMPUTER PANEL

20.3A 115.3V

ELECTRICAL ROOM 2 - SECTION 2-1

"LP3" 277/480V.,3Ø 125 A. M.L.O. 42 SPACE 65K AIC SERIES RATED
362 0.7%VD
55.4A 150.4

LIGHTING PANEL

3 UPS IS A SEPARATELY DERIVED SYSTEM. UPS SHALL BE GROUNDED TO INTERSYSTEM GROUNDING BUSBAR LOCATED IN THE TELE/DATA ROOM.

#6 GRD.

TELE/DATA ROOM

FROM "RP2"

THE NEW CYBEREX UNIT WILL BE WIRED TO THE ETHERNET BY LOWE'S TECHNOLOGY DEPLOYMENT,

UPS PROVIDED BY LOWE'S AND LOCATED IN TELEPHONE/COMPUTER ROOM. SEE SHEETS E3.02 AND E3.03 FOR MORE INSTALLATION DETAILS.

OUTPUT FROM UPS

ALL WIRING & CONDUIT TO DISCONNECT AND CONNECTIONS TO UPS SHALL BE INSTALLED BY THE ELECTRICAL SUBCONTRACTOR.

DISCONNECT (HANDLE IN HIGHEST POSITION NOT ABOVE 6'-7")

59 0.5%VD 130.3F 130.3F 130.3F

CYBEREX UPS

DISCONNECT (HANDLE IN HIGHEST POSITION NOT ABOVE 6'-7")

INSTALL TEMPORARY CIRCUIT TYPE-16 TO ENERGIZE "CP" CIRCUITS AND REMOVE WHEN UPS IS INSTALLED.

INSTALL 1-1/2" FLEX CONDUIT TO BACK OF UPS AND TERMINATE WIRING TO TERMINAL BLOCK.

COORDINATE CONNECTIONS TO UPS WITH UPS PROVIDER.

UPS MONITORING WILL BE THROUGH AN ETHERNET CONNECTION INSTALLED BY LOWE'S.

ELECTRICAL ROOM 1 - SECTION 1-3

SEE 1.E9.01 FOR CONTINUATION TO DIMMING PANEL BACNET INTERFACE.

3 (4) 1" CONDUITS FOR MONITORING CABLES

(2) #12 AWG IN 3/4" C. TO 5101-GEN FOR MONITORING

OPUS/NOVAR GENERATOR CONTROLLER

OPUS CONTROLLER

"HVAC1" 277/480V.,3Ø, 600 A. M.L.O. 42 SPACE 65K AIC FULLY RATED
"HVAC2" 277/480V.,3Ø, 600 A. M.L.O. 42 SPACE 65K AIC FULLY RATED
"LP2" 277/480V.,3Ø 250 A. M.L.O. 42 SPACE 65K AIC SERIES RATED
"LP1" 277/480V.,3Ø 250 A. M.L.O. 42 SPACE 65K AIC SERIES RATED
"CP1" 120/208V.,1Ø 100 A. M.L.O. 30 SPACE 10K AIC FULLY RATED

27 0.3%VD | 24 0.3%VD | 19 0.3%VD | 17 0.3%VD | 354 2.5%VD

HVAC PANEL | HVAC PANEL | LIGHTING PANEL | LIGHTING PANEL | COMPUTER PANEL

620.4A 620.4 | 620.4A 620.4 | 230.4A 230.4 | 230.4A 230.4 | 20.3A 115.3V

"CP1"
"LP2"
"LP1"
"HVAC1"
"HVAC2"

(2) #12 AWG IN 3/4" C. TO GEN-SET 5101-GEN

"FIRE PUMP" LOCATED WITHIN 2 HR. FIRE RATED SPRINKLER ROOM. ALL EQUIPMENT ASSOCIATED WITH FIRE PUMP INSTALLATION SHALL BE FURNISHED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR.

(2) #12 AWG IN 1" CONDUIT. CIRCUIT IS 120V POWER FROM PANEL "CP1" ROUTED THROUGH THE AUXILIARY CONTACTS OF THE COMBINATION FIREPUMP CONTROLLER AND TRANSFER SWITCH. THIS CIRCUIT CONTINUES FROM THE AUXILIARY CONTACTS TO THE 600 AMP SHUNT TRIP BREAKER IN PANEL "MGP". (SEE WIRING DIAGRAM ON E7.01 AND SEQUENCE OF OPERATION ON E7.00).

#3/0 CU. GROUNDING ELECTRODE CONDUCTOR CONNECTED TO THE WATER MAIN AND BUILDING STEEL.

100HP FIRE PUMP

FIRE PUMP CONTROLLER/ATS COMBINATION FIRETROL UNIT WITH OPTION "ED" SE-RATED

112 4.5% 70.71

ASCO OPTION 5101-ATS 452

(2) #12 AWG IN 3/4" C. TO GEN-SET 5101-GEN (START SIGNAL)

CP1-21

371 1.2%VD (FP RUN) 3.8%VD (FP START)

308 1.6%VD (FP RUN) 12.4%VD (FP START)

FEEDER FROM FIRE PUMP CONTROLLER TO FIRE PUMP TERMINATION POINT. IF FIRE PUMP SIZE IS LARGER THAN 100 HP ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL ENGINEER FOR PROPER FEEDER SIZE BASED ON LARGER FIRE PUMP SIZE (HP).

FEEDER FROM FIRE PUMP LUGS IN PULL SECTION IN MAIN ELECTRICAL ROOM. IF FIRE PUMP IS LARGER THAN 100 HP ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL ENGINEER FOR PROPER FEEDER SIZE BASED ON LARGER FIRE PUMP SIZE (HP).

FEEDER FROM PANEL "MG-FP". IF FIRE PUMP IS LARGER THAN 100 HP ELECTRICAL CONTRACTOR SHALL

CONDUCTORS CODES HAVE BEEN ADDED TO DENOTE FEEDER CONDUCTOR SIZE, QUANTITY, AND CONDUIT SIZE. SEE SCHEDULE ON E9.01.

CONDUCTORS THAT THE OWNER WILL ALLOW TO BE ALUMINUM HAVE HAD THE LETTER "A" INCLUDED IN THE SUFFIX PART OF THE CALL OUT.

FIRE PUMP DISCONNECT MG-FP

1. MG-FP BREAKER SHALL BE FURNISHED WITH A PERMANENT PROVISION FOR LOCKING THE BREAKER IN THE CLOSED POSITION.
2. THE MG-FP BREAKER SHALL BE LOCKED IN THE CLOSED POSITION.
3. DISCONNECTING MEANS SHAL BE MARKED "FIRE PUMP DISCONNECTING MEANS" IN COMPLIANCE WITH NEC 695.4(3)(C)
4. A PLACARD SHALL BE PLACED ADJACENT TO THE FIRE PUMP CONTROLLER STATING THE LOCATION OF THE DISCONNECTING MEANS AND THE LOCATION OF THE KEY FOR THE LOCKED DISCONNECT.

CABLE #1 TO BMS (CAT 6)

CABLE #2 TO BMS (CAT6)

REFERENCE GEN-SET NOTE #3 ON SHEET E7.00 REGARDING MULTIPLE POWER SOURCES.

"ELS" EQUIPMENT LOCATED WITHIN 2 HR. FIRE RATED ROOM.

ELECTRICAL ROOM 1 - SECTION 1-2

PANEL "BW" DRY-TYPE TRANSFORMER 150.0 KVA THREE PHASE 480V. PRIM. 120/208 V. SECONDARY

FLEX FLEX 23 0.1%VD #1/0 GRD.

PANEL "RP1" DRY-TYPE TRANSFORMER 75.0 KVA THREE PHASE 480V. PRIM. 120/208 V. SECONDARY

FLEX FLEX 26 0.4%VD #4 GRD.

"BW" 120/208V.,3Ø 500 A. M.C.B. 42 SPACE 10K AIC FULLY RATED
250.4S 8 0.2%VD

BUSWAY PANEL

"BC" 277/480V.,3Ø 250 A. M.L.O. 42 SPACE 65K AIC SERIES RATED
22 0.3%VD
"BC" 230.4A 230.4

"MDPB" 277/480V.,3Ø 600 A. M.L.O.
LP1
LP2
LP3
BC
BW
RP1
RP2
SPACE
65K AIC FULLY RATED

9 0.3%VD

MDPB DISTRIBUTION PANEL

"MDPB" ATS 600 AMPERE, 4-POLE, AUTO TRANSFER SWITCH WITH OVERLAPPING 100% RATED NEUTRAL.

TRANSFER WITHIN 60 SECONDS.

MODBUS CONTROLLER
ASCO OPTION 7ES
65K AIC FULLY RATED
AUTOMATIC TRANSFER SWITCH
23 0.1%VD 18 0.3%VD

(2) #12 AWG IN 3/4" C. TO GEN-SET 5101-GEN

"ELS" 277/480V.,3Ø 125 A. M.L.O. 42 SPACE 35K AIC SERIES RATED
4 0.2%VD

"ELS" ATS 70 AMPERE, 4-POLE, AUTO TRANSFER SWITCH WITH OVERLAPPING 100% RATED NEUTRAL.

TRANSFER WITHIN 10 SECONDS.

23 0.2%VD 85.4

MODBUS CONTROLLER
ASCO OPTION 7ES
35K AIC SERIES RATED
AUTOMATIC TRANSFER SWITCH
50 0.1%VD

(2) #12 AWG IN 3/4" C. TO GEN-SET 5101-GEN

CABLE #4 TO TS4 (BELDEN 8760)

"MDPA" 277/480V.,3Ø 1600 A. M.L.O.
MDPB
HVAC1
HVAC2
ELS
SPACE
SPACE
SPACE
SPACE
65K AIC FULLY RATED

FWC

NEUTRAL 1600 AMP MAIN

GF
ERMS
PM8000

MOLDED CASE CB WITH ERMS (ENERGY-REDUCING MAINTENANCE SWITCH) AND BUILT IN GROUND FAULT PROTECTION SEE RISER DIAGRAM NOTE 5

MAIN BREAKER

MDPA DISTRIBUTION PANEL

FIRE PUMP LUGS (ONLY)

PULL SECTION

63 0.2%VD

GROUNDING ELECTRODE SYSTEM. SEE GROUNDING SHEET E6.06.

MAIN DISCONNECT WILL BE U.L. LABELED FOR USE AS SERVICE ENTRANCE EQUIPMENT AND WILL BE FURNISHED WITH AN INTEGRAL GROUND FAULT INTERRUPT, ARC FLASH ENERGY-REDUCING MAINTENANCE SWITCH AND PM8000 METER.

3/0 COPPER GROUND 1-1/4"C

680.4U 1700.4AU

UTILITY PROVIDED PADMOUNT TRANSFORMER.

SERVICE CONDUITS SHALL BE ROUTED INTO SECONDARY SIDE OF PADMOUNT TRANSFORMER.

CONCRETE PAD BY GENERAL CONTRACTOR. COORDINATE PAD SIZE WITH UTILITY.

#6 COPPER GROUND

"BW" 230.3A 230.3
"RP1" 135.3A 130.3
"MDPB" 620.4A 620.4
230.3A 230.3 "RP2"
620.4A 620.4
"LP3" 155.4A 150.4
"LP2" 230.4A 230.4
"LP1" 230.4A 230.4
"ELS" 75.4A 85.4

"HVAC1" "HVAC2" 620.4A 620.4
620.4A 620.4
620.4A 620.4
"ELS" 75.4A 85.4

NEMA 3R STEEL TROUGH WITH SCREW COVER, GRAY POWDER COATED FINISH, AND PROVISIONS FOR PADLOCKING

PANEL "RP1" 120/208V.,3Ø 200 A. M.C.B. 84 SPACE 10K AIC FULLY RATED
200.4S 8 0.5%VD
RECEPTACLE PANEL

100.4 FLEX BUSWAY #1, 100A, 120/208V, 3Ø,4W (SEE SHEET E4.00)
150.4V 328 FLEX BUSWAY #2, 100A, 120/208V, 3Ø,4W (SEE SHEET E4.00)
150.4V 319 FLEX BUSWAY #3, 100A, 120/208V, 3Ø,4W (SEE SHEET E4.00)
115.4V 213 FLEX BUSWAY #4, 100A, 120/208V, 3Ø,4W (SEE SHEET E4.00)
175.4V 373 FLEX BUSWAY #5, 100A, 120/208V, 3Ø,4W (SEE SHEET E4.00)
150.4V 328 FLEX BUSWAY #6, 100A, 120/208V, 3Ø,4W (SEE SHEET E4.00)
150.4V 381 FLEX BUSWAY #7, 100A, 120/208V, 3Ø,4W (SEE SHEET E4.00)
175.4V 384 FLEX BUSWAY #8, 100A, 120/208V, 3Ø,4W (SEE SHEET E4.00)
100.4 180 FLEX BUSWAY #9, 100A, 120/208V, 3Ø,4W (SEE SHEET E4.00)

0.8%VD (FP RUN) 8.8%VD (FP START) 11 0.0%VD
620.4A 620.4
"MG-FP"
SE RATED 277/480V.,3Ø 300 A. L.L.B.
FIRE PUMP
65K AIC FULLY RATED

9 0.1%VD
620.4A 620.4
"MGP"
SE RATED 277/480V.,3Ø 600 A. L.L.B.
MDPB ATS
6 6
MONITORING POINTS TERMINAL BLOCK (TS4)
65K AIC FULLY RATED

7 0.1%VD
75.4A 85.4
"MGE"
SE RATED 277/480V.,3Ø 70 A. L.L.B.
ELS ATS
35K AIC FULLY RATED

620.4A 620.4
"MTS" 600A, 3-POLE MANUAL TRANSFER SWITCH, NEMA 3R
18 0.1%VD
620.4A 620.4

230.3AV 230.3V
"MDPB"
"ELS"

CAM-LOCK CONNECTORS FOR (2) 600 KCMIL CONDUCTORS PER PHASE & NEUTRAL

CIRCUIT CP2-29 (SHUNT TRIP)
"FIRE PUMP FEEDER"
"FIRE PUMP FEEDER"

SELF CONTAINED 350 KW GEN-SET.

MODBUS CONTROLLER
ASCO OPTION 5101 GEN - START SIGNAL INTEGRITY MONITOR
TO 'BMS' MONITOR (DRY-CONTACTS)
TO 'BMS' REMOTE START
TO 'MDPB' ATS (7ES)
TO 'ELS' ATS (7ES)
TO 'FP' ATS (5101-ATS)
600 AMP MAIN LUGS ONLY

SEE SHEET E3.00 AND CIVIL DRAWINGS FOR GEN-SET AND UTILITY TRANSFORMER LOCATIONS.

ORIGINAL | SECOND | FINAL

REVISIONS

PRE-BID SET ISSUE DATE ◇ | POST BID SET ISSUE DATE △

DATE		DESCRIPTION
10.10.2025	2	PLAN REVIEW COMMENTS
10.07.2026	3	CRITERIA UPDATES

Carl Page — Digitally signed by Carl Page — DN: cn=Carl Page, o=Page, ou=Engineering, email=carl.page@pagenet.com, c=US — Date: 2026.03.05 10:37:55 -05'00'

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10.05.2025

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LOWE'S

POWER RISER DIAGRAM

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Westlake, Florida, 33470

PCN: 71-43-43-01-2K20-00010
PROJECT No: 24209 DRAWN BY: JBM CHECKED BY: CARP

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