

ELECTRICAL SYMBOLS

LIGHTING AND POWER

Table with 4 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists various lighting and power symbols such as surface mounted ceiling fixture, recessed mounted ceiling fixture, pendant mounted ceiling fixture, etc.

FIRE DETECTION AND ALARM

Table with 4 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists fire detection and alarm symbols such as fire alarm automatic smoke detector, fire alarm automatic wall smoke detector, etc.

MISCELLANEOUS

Table with 4 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists miscellaneous symbols such as wall mounted clock, double face clock, combination clock/speaker unit, etc.

SECURITY SYMBOLS

SECURITY

Table with 4 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists security symbols such as wall mount motion sensor, ceiling mount motion sensor, sounder, etc.

TELECOMMUNICATIONS SYMBOLS

TELECOMMUNICATIONS

Table with 4 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists telecommunications symbols such as communications outlet, special services communications outlet, wireless access point, etc.

SUBSCRIPTS

Table with 2 columns: SYMBOL, DESCRIPTION. Lists subscript symbols such as AC, W, etc.

PATHWAYS

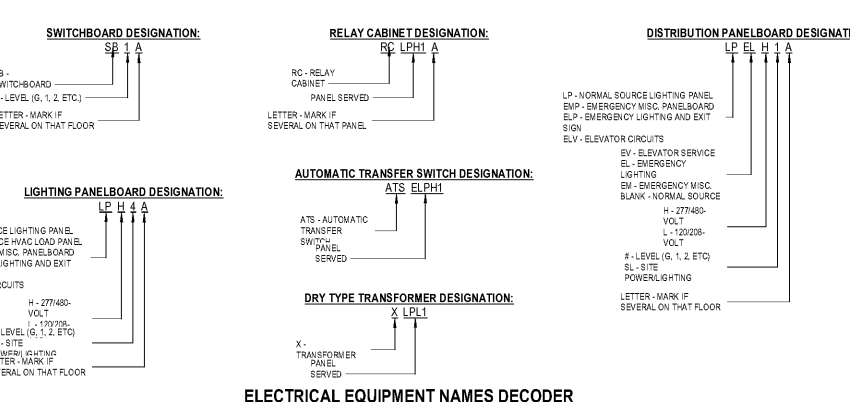
Table with 4 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists pathway symbols such as ground bar, wall mount telecommunications equipment, cable tray, etc.

SUBSCRIPTS

Table with 4 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists subscript symbols such as EP, E, PD, AC, etc.

SUPPLEMENTAL SYMBOLS

Table with 4 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists supplemental symbols such as specialty camera type 1, 2, 3, 4, etc.



GENERAL NOTES:

- 1. ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES HAVING JURISDICTION.
2. THE ELECTRICAL CONTRACTOR SHALL OBTAIN PERMITS AND PAY SUCH FEES AS MAY BE NECESSARY FOR INSPECTIONS, TESTS, AND OTHER SERVICES NECESSARY FOR THE COMPLETION OF THIS WORK.
3. CONTRACTOR SHALL VISIT THE SITE AND EXAMINE CONDITIONS OF THE PREMISES AND THE CONTRACTOR AND EXTENT OF WORK REQUIRED PRIOR TO SUBMISSION OF BIDS. ANY DIFFICULTIES IN COMPLYING WITH THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE BIDDING.
4. IT IS THE INTENT OF THESE DRAWINGS AND OTHER RELATED DOCUMENTS TO PRODUCE A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LABOR, MATERIAL, AND OTHER SERVICES AS MAY BE NECESSARY TO ACHIEVE THIS PRODUCT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BRING TO THE ATTENTION OF THE ARCHITECT/ENGINEER ANY DISCREPANCIES IN THE PLANS AND SPECIFICATIONS THAT WILL AFFECT THE WORK, PRIOR TO SUBMISSION OF BIDS.
5. IF DURING THE COURSE OF THE WORK THE CONTRACTOR EXPERIENCES A PROBLEM WITH THE PERFORMANCE OF THE INSTALLATION RELATIVE TO THE PLANS AND SPECIFICATIONS, THE NATIONAL ELECTRICAL CODE, OTHER APPLICABLE CODES, AND GOVERNING DOCUMENTS, THE CONTRACTOR SHALL BRING THE PROBLEM TO THE ATTENTION OF THE ARCHITECT/ENGINEER IMMEDIATELY UPON DISCOVERY. THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL THE ARCHITECT/ENGINEER HAS BEEN CONSULTED AND A RESOLUTION PRIOR TO EXECUTION OF THE WORK.
6. MATERIAL SHALL BE NEW AND BEAR THE UL LABEL LISTED APPROPRIATELY IN THE SPECIFICATIONS.
7. MAJOR COMPONENTS OF THE ELECTRICAL SYSTEMS SUCH AS SAFETY DISCONNECT DEVICES AND PANELBOARDS SHALL BE BY THE SAME MANUFACTURER AND SHALL AS LISTED IN THE SPECIFICATIONS.
8. CIRCUIT BREAKERS USED FOR SWITCHING OF LIGHTING CIRCUITS SHALL BE APPROVED FOR SWITCHING DUTY AND SHALL BE MARKED "IN ACCORDANCE WITH NEC ARTICLE 240.83(B).
9. PROVIDE LOCKING DEVICES ON CIRCUIT BREAKERS CONNECTED TO EMERGENCY AND NIGHT LIGHTING CIRCUITS.
10. SWITCHES, DIMMER RECEPTACLES, AND TELEPHONE OUTLETS TO BE FLUSH MOUNTED.
11. SERVICE EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH NEC ARTICLE 250.
12. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.
13. UNEXPECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURES.
14. ELECTRICAL PLANS ARE DIAGRAMMATIC. DO NOT SCALE DRAWINGS.
15. CONSULT PLANS OF ALL OTHER TRADES FOR COORDINATION AND FOR RELATED AND ADDING WORK.
16. CONSULT ARCHITECTURAL AND STRUCTURAL PLANS AND DETAILS FOR CONSTRUCTION TYPE, HEADROOM, ROOM FINISHES, CEILING, ETC.
17. WORK SHALL BE DONE AT SUCH TIMES AND IN SUCH A MANNER AS WILL LEAST INTERFERE WITH THE MAINTENANCE AND OPERATION OF RELATED OR AFFECTED SYSTEMS. POWER OUTAGES, IF NECESSARY, SHALL BE COORDINATED WITH OWNER.
18. THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS. ONLY THOSE WHICH REQUIRE CLARIFICATION OR NECESSARY, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM.
19. EMPTY CONDUIT RUNS IN EXCESS OF 10 FT. SHALL BE PROVIDED WITH A PULL WIRE OR FISH TAPE/ROD.
20. BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL BE INCREASED TO THE NEXT LARGER SIZE WHERE THE LENGTH OF THE HOME RUN EXCEEDS 100FT. ON 120/208V CIRCUITS.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF MOTOR OVERLOAD DEVICES IN STARTERS BASED ON ACTUAL NAMEPLATE RATINGS ON THE MOTORS BEING INSTALLED.
22. CONTRACTOR SHALL NOTE UL LABELS ON PACKAGE TYPE MECHANICAL EQUIPMENT. IF UL LABEL ON MECHANICAL EQUIPMENT CALLS FOR THE OVERCURRENT PROTECTIVE DEVICE TO BE FUSED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A FUSED DISCONNECT SWITCH WITH PROPER SIZE FUSES AT THE SWITCH LOCATION INDICATED ON DRAWINGS.
23. CONTRACTOR SHALL VERIFY WIRE SIZES, CIRCUIT BREAKER AND FUSE RATINGS FOR ALL HVAC EQUIPMENT, AND BRING TO THE ATTENTION OF THE ARCHITECT AND/OR THE ENGINEER ANY DISCREPANCIES PRIOR TO INSTALLATION.
24. HORSEPOWER RATINGS INDICATED ON DRAWING MAY DIFFER FROM ACTUAL EQUIPMENT RATED. PROVIDE FUSED EQUIPMENT ON DRAWING. CONTRACTOR SHALL NOTIFY ARCHITECT AND/OR THE ENGINEER FOR APPROPRIATE ACTION TO BE TAKEN.
25. PROVIDE APPROVED "HACR" TYPE CIRCUIT BREAKERS FOR HEATING, AIR CONDITIONING, AND REFRIGERATION EQUIPMENT INDICATED FOR CONNECTION ON ELECTRICAL DRAWINGS.
26. DEVICES AND COVERPLATES SHALL BE CONSTRUCTED OF MOLDED NYLON MATERIALS. COLOR OF DEVICES AND MATCHING COVERPLATES SHALL BE AS SELECTED BY THE ARCHITECT.
27. THE CONTRACTOR SHALL GUARANTEE WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.
28. IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE SERVICE REQUIREMENTS FOR POWER AND TELEPHONE UTILITIES.
29. PROVIDE A #10 NEUTRAL CONDUCTOR FOR MULTI-WIRE RECEPTACLE BRANCH CIRCUITS.
30. FOR EQUIPMENT RATED 150 AMPS OR LESS, THE CONTRACTOR SHALL PROVIDE TERMINATIONS WHICH ARE LISTED FOR USE AT 75 DEGREE C OR PROVIDE WIRING SIZED USING THE 90 DEGREE C AMPACITY.
31. CONTRACTORS AND SUBCONTRACTORS SHALL CONSULT THE CIVIL ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS AND COORDINATE THE INFORMATION CONTAINED IN THESE DRAWINGS TO PROPERLY CONSTRUCT THIS PROJECT.
32. REFER TO CIVIL ARCHITECTURAL, PLUMBING, MECHANICAL, OR ELECTRICAL DRAWINGS FOR OPENINGS, DEPRESSIONS, FINISHES, INSERTS, BOLTS, ETC.
33. BEFORE ORDERING MATERIALS OR DOING ANY WORK, THE CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY MEASUREMENTS TO PROPERLY SIZE OR FIT THE WORK. NO EXTRA CHARGES OR COMPENSATION WILL BE ALLOWED BY THE OWNER RESULTING FROM THE CONTRACTORS' OR SUBCONTRACTORS' FAILURE TO COMPLY WITH THIS REQUIREMENT.

FIRE ALARM DESIGN BUILD REQUIREMENTS:

- 1. FIRE ALARM SYSTEM SHALL BE DESIGN BUILD WITH A DEFERRED SUBMITAL TO THE PERMITTING AGENCY.
2. THE CONTRACTOR SHALL OBTAIN A STATE REGISTERED ENGINEER TO REVIEW, SEAL, AND SIGN SHOP DRAWINGS FOR PLAN REVIEW SUBMISSION. THE ENGINEER OF RECORD FOR THESE DRAWINGS SHALL NOT SEAL THE FIRE ALARM DRAWINGS.
3. PER 618-15.2.003. To ensure minimum design quality of Fire Alarm and Detection Systems Engineering documents, and documents shall include as a minimum the following information when applicable:
A. The documents shall be clear, with a symbols legend, system riser diagram showing all initiation and notification components, and cabling requirements. The documents shall indicate locations where the ratings are required as determined by the system's authority requirements, and shall identify the general occupancy of the protected property and each room and area unless it is clear from features shown.
B. Locate initiation and notification devices and connections to related systems on the floor plans and sections when needed for clarity. Related systems include elevator controls, smoke control systems, dampers, door release, any other systems or elements directly or indirectly controlled or monitored.
C. Show initiation and notification output ratings for all notification devices.
D. Identify the Class of circuits as listed in NFPA 72, which is contained within and incorporated into the Florida Fire Prevention Code.
E. Identify the functions required by the alarm and control systems including the transmission of emergency signals being monitored or annunciated.
F. Indicate whether the fire alarm is conventional or addressable, and indicate all zoning.
G. Locate surge protective devices and required protective features.
H. Identify and locate system devices that are subject to environmental factors, and indicate requirements for the protection of equipment from temperature, humidity or corrosive atmospheres, including coastal salt air.
I. The documents shall include a site plan of the immediate area around the protected building, structure or equipment when alarm devices are required outside the structure.
J. In buildings where smoke detectors will be distributed by wall, beam or ceiling features, the Engineer of Record shall provide applicable design and details to direct the installer to mitigate the obstructions. In buildings with smoke detection under a pitched roof, the plans shall indicate the roof pitch and a building section shall be provided as part of the Engineering Design Document.
K. For fire detection systems utilizing smoke detection in situations where smoke stratification is anticipated, the design shall provide the necessary criteria to mitigate the detection problems.
L. Systems designed using Performance Based criteria shall be identified and referenced to design guides or standards approved by the local authority having jurisdiction consistent with standards adopted by the Florida Fire Prevention Code and the Florida Building Code.
M. The system design must include a fire system to provide a general evacuation signal or a zoned evacuation for all high-rise buildings or multi-tenanted properties as defined in section 2 of the Florida Building Code, Building.
N. Wiring requirements for underground, wet locations, campus style wiring, protection against damage and burial depth shall be specified or indicated on the engineering design documents.
O. Requirements for operation and maintenance procedures, manuals, system documentation, and instruction of Owner's operating personnel, as needed to operate the systems as installed over time.

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Public Storage

PUBLIC STORAGE
SEMINOLE COUNTY, FL
PS#28091
2431 Orange Blossom Trail
Apopka, FL

Table with 3 columns: #, Date, Issue/Description. Shows revision history for the permit submittal.

ELECTRICAL LEGEND AND GENERAL NOTE

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Order Plans

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