



Prince George's County
 Department of Permitting, Inspections
 and Enforcement
BUILDING PLAN REVIEW DIVISION
Electrical Section
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ELECTRICAL PLAN REVIEW MINIMUM SUBMISSION (CASE TYPES: CI, CU, CGU, CE, CEU, CUW, CEW, CIW)

Pursuant to 2018 IBC 105.3 (7) and 2018 IMC 106.3, the following checklist is required to be submitted as a document upload to the ProjectDox Electrical Document Folder. The Designer or Architect/Engineer (AE) is required to check mark each item or use N/A box where not applicable. If any box is not checked, the review will be terminated.

	ITEM	DESIGNER OR A/E N/A	COUNTY STAFF	Descriptions
	GENERAL			
1.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Address of project on plans matches application.
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drawings are legible. (<i>Note: Handwritten text on drawings is not accepted.</i>)
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Building Code and all other associated codes for the project with the correct year are shown on the drawing set, use group, and number of stories.
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Name, Address and Phone information is on the cover sheet or individual plan sheets of designer(s).
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drawings are sized to 24" x 36" (minimum). Minimum Plan Scale is 1/8 inch = 1 foot with a text height of 1/8". Details are 1/4 inch = 1 foot.
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Graphic scale is provided on all plans. Column Grid IDs are included as appropriate.
7.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Plans are ready For Construction. (<i>Note: Plans marked For Bid Only, Permit Only, or 80% Progress, etc., will be rejected.</i>)
8.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All permit set drawings have a cover page and a drawing index. Index matches sheet number.
9.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Key Plan is included on each applicable drawing to show the location(s) of work.
10.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	True North Arrow is included on all floor and site plans. Plan north arrow is optional.
11.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Building and Trades plans are orientated with the same plan north.
12.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All fire-rated walls and partitions are clearly delineated on all plans, including Architectural, MEP, Fire & IT plans. Appropriate legends and symbols are included.
13.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Scope of work is provided. Work description is specific and matches documents submitted.
14.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Symbols and abbreviations list is included.
15.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	New, existing and demo work is clearly distinguished.
16.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Required original seal and signature by a Maryland Professional Engineer, including professional statement certification with Expiration date of license per state of Maryland, COMAR 09.23.03.10 is provided. Professional Engineer sign and seal is not required if there is no electrical work being performed per the submitted documents. However, the existing conditions electrical drawing for the work area is required and submitted. Visit DPIE's website at DPIE.mypgc.us to view the " Building and Trade Permits Plan Review Submission for Architectural and Professional Engineer (A/E) Seal Requirements " document.

ITEM	DESIGNER OR A/E	N/A	COUNTY STAFF	Descriptions
PHASED CONSTRUCTION				
17.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction Phasing Plan with detailed information on the scope of work for each phase, dates/duration of construction for each phase, temporary walls, path of egress, emergency light, exit sign shown for each phase along with the appropriate number of permit applications for each phase where applicable.
18.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Identifiable delineation of permit limits is provided. For example, Footing & Foundation vs. Core & Shell etc.
19.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Submittals for each phased construction are complete and sufficient for that permit. Supporting information marked "for reference only" is provided where other permits and documents are referenced.
REVISIONS TO APPROVED PLANS				
20.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Revised sheets are clearly marked (after initial permit approval) on drawing sheet Index.
21.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A letter indicating all the changes made and the sheet numbers on which they are made.
22.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A simple design narrative to explain the scope of work for design or permit revision.
23.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Revision clouds provided with the appropriate delta symbol and revision number matching the revision block number with date.
REVISIONS FOR RESUBMISSION				
24.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Revision clouds provided with the appropriate delta symbol and revision number matching the revision block number with date.
25.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A narrative letter indicating a response to each comment and reference sheet where change was made.
GENERAL ELECTRICAL				
26.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Symbols, abbreviations list, electrical scope of work, and all applicable codes are provided. Refer to DPIE's website for applicable Building Codes and Bulletins .
27.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power riser diagram including wiring method type, feeder sizes, conduit size, cable size and the over-current protection device, size and rating is provided.
28.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Electrical energy calculation certification per International Energy Conservation Code (IECC) is provided; the software may be downloaded at www.energycodes.gov .
29.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fire alarm control panel (FACP) location is shown.
30.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A wall-mounted, battery pack operated emergency illumination is provided for all working spaces including service equipment, switchboards, panel boards, load centers and motor control centers installed indoors in all commercial occupancies per Prince George's County Code, Subtitle 9, Section 9-104.01.
31.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lighting Fixture schedule is provided.
32.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reflective ceiling plans for each floor indicating fixture location, type and lighting level required (in foot-candles) including track lighting, window lighting and homeruns are provided.
33.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power Layout: Floor plans showing location of power receptacles, switches, audio/visual, and telephone/data outlets including homeruns are provided.
34.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Panel schedules, panel locations: Layouts of electrical rooms at a scale not less than twice that of the floor plans are provided. All required clearances are shown. Required door swings, working space clearance(s), including verification of above ceiling mechanical units power devices/equipment clearances are in accordance with Article 110.26, National Electrical Code (NEC) and are provided. Control diagrams/details are included.

ITEM	DESIGNER OR A/E	N/A	COUNTY STAFF	Descriptions
GENERAL ELECTRICAL (cont'd.)				
35.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Demand load calculations, including new additions and new additions added to existing loads, are provided. For the existing electrical service(s) with load modifications, load calculations required per NEC article 220.87 are provided.
36.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fire pumps, if applicable: The means of emergency sources, service size, feeder size and full-load running current of the locked-rotor current, and the over-current protection device sized in accordance with National Fire Protection Association (NFPA) 20 and Article 695 of the NEC are provided. (Refer to Prince Georges County Code Subtitle 9 for the additional requirements for the power.)
37.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The location of the emergency power source and distribution system for lighting and power are provided. Also, the location of transfer switch(es) are verified.
38.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The system grounding details for the main incoming service switch including the size of grounding electrode conductor(s) and size of bonding jumper(s) are provided.
39.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The emergency system and transfer equipment are separated by a wall or wall(s) with a minimum fire rating of two (2) hours per Prince George's County Code, Subtitle 9, Section 9-109.01.
40.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Power distribution plans indicating incoming service, generators, docking station and panelboards, etc., and outlines of mechanical equipment (for coordination) are provided.
41.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Exit signs and means of egress lighting, interior and exterior (building, ground and pole mounted) are provided.
42.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The physical location of lighting controls such as sensors, switches, time clock, etc. are indicated.
43.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The physical location of service equipment (C/T cabinet, meter, service disconnect) are indicated on the power plan.
44.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Doors to electrical rooms are equipped with permanent signage reading "NO STORAGE" in letters not less than the room identification; OR the working space as defined by NEC is marked by a 2" wide yellow line and stenciled "NO STORAGE — ELECTRICAL WORKING SPACE" in 2"-high, yellow letters in mechanical rooms, electrical rooms, and service areas.
45.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Overall electrical load calculations are provided in KVA.
46.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Layouts of elevator machine rooms at a scale not less than twice that of the floor plans are provided. All equipment and required clearances for coordination are shown.
47.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Interface points for communications, fire alarm, and Emergency Communication Systems are indicated.
48.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Details to include duct bank, under/through footing penetration, housekeeping/equipment pads, lighting switching, grounding details for service entrance and individual transformers are provided.
49.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Grounding riser diagram for generators, transfer switches, main-tie-main switchboards, and separately derived systems are provided.
50.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All "lay-in" luminaires will require independent suspension to the building structure per Prince George's County Code Subtitle 9, Section 9-108.02. Details are provided.
WORK CLEARANCE AND DEDICATED SPACES				
51.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No piping, ducts or equipment foreign to electrical equipment is permitted to be located within the dedicated space above the indoor/outdoor electrical equipment. Note is provided. (NEC Section 110.26(E)(1) and 110.26(E)(2)(b).)
52.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Workspace, adequate illumination, access to workspace and head room about electrical equipment are provided. (NEC Section 110.26.)

ITEM	DESIGNER OR A/E	N/A	COUNTY STAFF	Descriptions
WORK CLEARANCE AND DEDICATED SPACES (cont'd.)				
53.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	For electrical equipment rated 800 amperes or more and over 6 feet wide: One entrance not less than 24 inches (610 mm) wide and 6-1/2 feet high at each end. The door(s) within 25 ft. of the nearest edge of workspace shall open in the direction of egress and be provided with listed panic hardware. (NEC Section 110.26(C).)
54.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Protection from physical damage for switchboards, panelboards, and other electrical equipment is provided per NEC Section 110.27(B).
BRANCH CIRCUITS				
55.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Locations of ground fault circuit interrupter (GFCI) protection for personnel on receptacle(s) are provided per NEC Section 210.8 and 422.5.
56.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All 125 volts 15 and 20 ampere receptacles as required in Section 406.12 and 406.4(D) are tamper resistant.
57.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Arc-fault circuit interrupter (AFCI), combination type protection on branch circuits serving outlets in dwelling units are provided per NEC Section 210.12 and 406.4(D).
58.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Number of branch circuits are provided per NEC Section 210.11.
59.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dwelling unit receptacle outlets are provided per NEC Section 210.52.
SERVICES				
60.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Service disconnect(s) are installed at a readily accessible location either outside of a building or structure or located nearest the point of entrance of the service conductors per NEC Section 230.70(A).
61.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	There are not more than six sets of disconnects per service grouped in any one location and each disconnect is marked to indicate the load served, per NEC Section 230.72(A).
62.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	No more than one service disconnecting means is permitted for motor control centers per NEC Section 430.95.
63.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The service equipment has a rating not less than the load served. This load is calculated per Article 220, NEC Section 230.79.
64.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Except as permitted in Section 230.2(A), a building or other structure is supplied by only one service disconnect per NEC Section 230.2.
65.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The service size and rating are provided per NEC Section 230.23.
FEEDER				
66.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	All buildings or structures are supplied by one feeder or branch circuit unless permitted in NEC Section 225.30(A) through (E).
67.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Means is provided for disconnecting all ungrounded conductors that supply or pass through the building or structure per NEC Section 225.31.
68.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Feeder and transformer tap conductors comply with the requirements specified in NEC Article 240.21, particularly items (B) and (C), to ensure proper overcurrent protection.
OVERCURRENT PROTECTION				
69.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Conductors and equipment are protected by overcurrent devices per NEC Section 240.4.
70.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Where the highest continuous current trip setting for which the actual overcurrent device installed in a circuit breaker is rated or can be adjusted to 1,200A or higher, 240.87(A) and (B) shall apply. Arc Energy Reduction is indicated per NEC Section 240.87.
71.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Overcurrent coordination study is provided per NEC Sections 240.12, 620.62 and Table 685.3.

ITEM	DESIGNER OR A/E			Descriptions
	N/A	COUNTY STAFF		
GROUNDING				
72.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Grounding of a main electrical service and its grounding electrodes are provided and sized per NEC Sections 250.24, 250.53(A)(2), and 250.66.
73.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Supply-side bonding jumper is provided and sized per NEC Section 250.102 and Table 250.102(C)(1).
74.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Size of main service grounding electrode conductors and main bonding jumpers are provided and sized per NEC Tables 250.66 and 250.102(C)(1).
75.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Size of equipment grounding conductors are provided and sized per NEC Table 250.122.
76.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	An equipment grounding conductor shall not be used as a grounding electrode conductor per NEC Section 250.121.
77.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Equal potential bonding for all pool related equipment, including the perimeter surface that is within 3 feet horizontally from the inside wall of the pool, is provided per NEC Section 680.26.
78.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Separately derived systems are grounded in accordance with 250.30(A) for grounded systems and 250.30(B) for ungrounded systems per NEC Sections 250.20 and 250.26.
TRANSFORMERS				
79.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Transformer overcurrent device ratings are sized per NEC Section 450.3.
80.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Transformer primary and secondary overcurrent protection device ratings are determined per NEC Tables 450.3 (A) and 450.3 (B).
81.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Locations of Transformers are provided per NEC Section 450.21.
MOTORS				
82.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Nameplate current ratings of the motors are provided and sized per NEC Sections 430.6, 430.22 and Table 430.250.
83.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Overload protections for the motors are provided per NEC Sections 430.31 and 430.32.
84.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Proper short-circuit, ground-fault protections and breaker/fuse type for motor(s) are provided as specified per NEC Sections 430.52 and 430.62.
SPECIAL OCCUPANCIES				
85.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Class I, II, and III hazardous locations are provided per NEC Article 500.
86.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Motor fuel dispensing facilities design is provided per the requirements outlined in NEC Article 514.
87.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Health care facilities design is provided per the requirements outlined in NEC Article 517.
88.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Commercial garages design is provided per the requirements outlined in NEC Article 511.
89.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Places of assembly design is provided per the requirements outlined in NEC Article 518.
FIRE PUMP				
90.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A fire pump shall be supplied by a separate service from the utility transformer. A fire pump shall be permitted to be supplied from a connection located ahead of the service disconnecting means when a back-up, on-site generator is used as an alternate power source to feed the fire pump per Prince George's County Code Subtitle 9, Sec. 9-109.04. Refer to Prince George's County Code Subtitle 9 for the additional requirements for the power.
91.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fire pump circuit conduits shall be encased in no less than 2 inches of concrete per NEC Section 695.6.
92.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Overcurrent protection for fire pump services is provided for short-circuit protection and is set to carry the fire pump motor locked rotor current indefinitely per NEC Section 695.4(B)(2).

ITEM	DESIGNER OR A/E	N/A	COUNTY STAFF	Descriptions
FIRE PUMP (cont'd.)				
93.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fire pump controllers and power transfer switches are listed specifically for fire pump service in accordance with NEC Section 695.10.
SPECIAL EQUIPMENT				
94.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Swimming pools, fountains, and similar installations are designed per the requirements outlined in NEC Article 680.
95.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Elevator(s) design is per the requirements outlined in NEC Article 620.
96.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Information technology equipment complies with NEC Article 645.
EMERGENCY SYSTEMS				
97.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Properly sized emergency power source is provided for required emergency load(s) per NEC Section 700.4.
98.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Where an outdoor housed generator set is equipped with a readily accessible disconnecting means in accordance with 445.18 and the disconnecting means is located within sight of the building or structure supplied, an additional disconnecting means is not required where ungrounded conductors serve or pass through the building or structure. Where the generator supply conductors terminate at a disconnecting means in or on a building or structure, the disconnecting means shall meet the requirements of NEC 225.36 per NEC Section 700.12(B)(6).
99.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Emergency system circuits for lighting and power are provided in accordance with the requirements of NEC Article 700, Part IV.
100.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Signs are provided at the service equipment to indicate the type and location of the on-site emergency power sources, as required NEC Section 700.7.
LEGALLY REQUIRED STANDBY SYSTEMS				
101.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Properly sized Legally required standby systems is provided for the intended loads per NEC Section 701.4.
102.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Standby power sources are provided per NEC Section 700.12.
SIGNAGE, ELECTRICAL VEHICLE CHARGING STATIONS AND PHOTOVOLTAIC SYSTEM				
103.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	For signage instructions needed for electrical work prior to installation, visit DPIE's website to view the " Building Plan Review Requirements for Signage " document.
104.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	For information and requirements on electric vehicle charging stations, visit DPIE's website to view the " Revised Guidelines for Permitting Electric Vehicle Charging Stations " document.
105.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	For information and requirements on rooftop photovoltaic solar array system installations, visit DPIE's website to view the " Guidelines for Permitting Rooftop Photovoltaic (PV) Solar Array Systems " document.