

City of Mansfield

Tim Theaker, Mayor

Bureau of Building Inspections, Licenses and Permits

30 N. Diamond Street - Mansfield, OH 44902 – (419)755-9688 Fax-(419)755-9453 www.ci.mansfield.oh.us

ELECTRICAL SERVICE APPLICATION

APPLICATION MUST ALSO BE MADE TO OHIO EDISON FOR ELECTRICAL SERVICE at 800-633-4766

des Res trai	scribed below. I sidential or Com ler. Please prin	Projects that in Inmercial Build Int or type. All	nclude building/structural i ing Plan Approval applica	additi tion.	ons, alterations Submit one app	and other electrical service work as and other scopes of work shall use the plication for each job site or on-site office all contractors must be registered in		
Project Information					Electrical Contractor Information			
1	Owner			9	Name/Title			
2	Address			10	Company			
3	Phone			11	Address			
4	Email			12	City, State, Zip			
5	City, Zip			13	Phone			
6	Parcel ID			14	Email			
7	Project located in local flood plain? Yes No		15	City Contractor Registration #				
8	Estimated Cost of Construction:			16	Ohio Edison Work Order#			
Fees are to be paid at the time of application. Fees are charged per the most current fee schedule as adopted by the City of Mansfield. Electrical Services greater than 600 amps or larger require construction documents prepared by an Ohio Registered Design Professional (Architect or Engineer). Design Professional contact information shall be provided on the construction documents. 17. Scope of Work								
sta	tions, or other e	electrical servic		ly req	uire approval b	as Agricultural Buildings, Sanitary Sewer Lift y the building department?		
	s project is of	a use (agric	ultural, sewerage works	s, etc)	as document	ed by the Owner and is exempt from the lectrical service construction to the mair		

service disconnecting means so the owner can obtain electrical service from the utility provider. The building construction, electrical installation, beyond the main service disconnecting means (load calculations were not included in the review scope either), and any other systems installed in the structure, tributary to the structure,

Meter Re-Installation. A site plan and single line diagram is not required for meter re-installations. Skip to box 22.

or accessory to the structure are not considered in the scope of this approval per OBC 101.2.

Applicant Initials

Service Upgrade Size of Existing Service (amps)
P:\CHECKLISTS AND FORMS\Electrical Service Application.docxRevised 01/17/2020

Service Replacement (no change in amp	perage or voltage)								
☐ Temporary Electrical Service	Length of Temporary Service (months	s)							
Generator Installation (provide generator Generator Provided for:	r specifications, sizing calculations, an Legally Required System								
Provide a basic description of what the equipment, upgrade for repairs or future equipment,	power is currently turned off, generate	or for emergency backup, etc.):							
19. Service Configuration (complete this section for all projects except meter re-installations)									
Phase/Voltage Configuration		Overhead Underground							
Are other electrical services located on the buildi									
Does the proposed electrical service feed multiple structures?									
property. A Google Map or similar photo is adequate provided the above information can be shown and the plan is properly dimensioned. 21. A single line electrical diagram indicating: a. Size, Voltage, and Phase Configuration of Electrical Service b. Details of any transformers installed. Show grounding details c. The location and size of Electrical Panel and main breaker/OCP. d. The location and size of Electrical Service Disconnect and main breaker/OCP. e. Methods of grounding (wire size, frame ground, ground rods, conduit size and specs) f. How the service entrance and feeder are conductors being protected (rigid conduit, direct burial, etc.)									
The following items are commonly missed on electrical service installations. Please review the code sections below to ensure the electrical service and related work is properly installed to code requirements.									
 NEC 110.3. Electrical Equipment, Fixture their installation and use. NEC 110.15. High-Leg Marking NEC 110.16. Arc-Flash Hazard Warning NEC 110.24. Available Fault Current-Field NEC 110.26. Proper working space is performed in NEC 230.24/NEC 300.5. Overhead clear NEC 250.52. All available grounding elemetal frame of building/structure, etc.) are NEC 230.72. Electrical service disconnermonal NEC 250.94. Intersystems grounding based in NEC 250.104. Bonding of piping system NEC 250.110/250.112. Subpanels bond NEC 300. Wiring Methods and Materials NEC 300.4. Protection from physical daen NEC 408.4. Switchboards/Panelboards 1 hereby certify that I am the □ Owner application is true, accurate, and company application when approved will constituted Code Section 105.5. Due to the minor nature 	g field marked on electrical equipment ield marking. rovided about the electrical equipment arances and underground cover provide ectrodes (reinforcing steel, ground rods re bonded together. ecting means grouped. ar provided. as and exposed structural steel. ded properly. as are listed for Wet and Damp Location mage. clearly labeled and circuit directory provided to the best of my knowledge. lication should be sent to my attent to a Certificate of Plan Approval in the	ed. s/rings/plates, metal water piping, ovided. information contained in this All official correspondence and ion at the address shown above.							
Applicant Name and Signature	Date	_							

CHECK LIST FOR RESIDENTAL ELECTRICAL METER RESETS

The following items are currently not maintained or in violation during a meter reset inspection. Please verify the following items prior to scheduling an inspection.

- 1. Inspect outside service entrance conductors and meter base.
 - a. If conductors or conduits are damaged or not properly secured, they may need to be repaired or replaced.
 - b. If meter base is damaged, not properly secured or has openings which have not been properly sealed, it may need to be repaired or replaced.
- Inspect for proper sizing of Service Entrance Conductors. This table to carry only 100% of the dwelling units diversified load.

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a. 100 amp
b. 150 amp
c. 200 amp
# 4 copper or #2 aluminum
# 1 copper or #2/0 aluminum
# 2/0 copper or #4/0 aluminum
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- 3. Verify that all required grounding is in place and properly fastened, with approved connectors. (ground rods, waterlines)
 - a. One 5/8" x 8' ground rod must be installed for 100 amps. Two 5/8"x 8' ground rods to be installed for 200 amps, one wire to each rod.
 - b. Ground, bond, jump water lines if metal, including water meters, water heater.

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Grounding Conductor Sizes
100 amp service #8 copper
150 amp service #6 copper
200 amp service #4 copper
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- 4. Check that breaker panel is fastened securely to the wall and that all openings in the panels have been properly closed.
- 5. Check that conductors entering the panel are protected with an approved connector.
- 6. Check that all breakers have been properly installed and sized correctly for the wire sizes.

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Examples (copper only)
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#14 wire 15 amp breaker
#12 wire 20 amp breaker
#10 wire 30 amp breaker
#8 wire 40 amp breaker
#6 wire 60 amp breaker
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- 7. Inspection fees cover one inspection. Re-inspections fees will be required if more than one inspection is needed. Phone calls that are not answered will require re-scheduling and re-inspection fees to be paid. Please be prepared to answer the phone on the day of inspection.
- 8. The electrical panel cover must be removed for inspections.
- 9. Please be prepared to give the Ohio Edison Work Order Number at the time of application. If not available at the time of application, please be prepated to give the electrical inspector the Ohio Edison Work Order Number at the time of inspection. If no Work Order Number is provided, the inspection may not be able to be completed and reinspection fees may apply.