


**CITY OF SAINT PETER**  
**DEPARTMENT OF BUILDING SAFETY**  
Phone 507-934-0662 Fax 507-934-4917

**COMMERCIAL & INDUSTRIAL  
PACKET CONTENTS**

1. Storm Water Pollution Prevention Plan
2. Public Works Checklist
3. Excavation Permit, and Waivers
4. Electric Service Request
5. Building Permit Application
  - a. THREE (3) sets of approved plans signed by a licensed architect or engineer
6. Plumbing/Mechanical Permit Application
  - a. A plan review for plumbing is required to be reviewed by the Minnesota Department of Health
  - b. Note if a lawn sprinkler system is included in the plans
7. Plumbing Permit Application (separate application/plans)
  - a. A Plan review for fire sprinkler systems/alarm systems need to be done by either the City or the State of Minnesota Building Department
8. Energy Code Worksheet (Com Check)
9. Energy Code Worksheet (Ventilation)
10. Electrical Inspector Information
11. Daily Logs

## Commercial Construction SWPPP Checklist

This form is intended to assist the applicant in the preparation of the Stormwater Pollution Prevention Plan (SWPPP). Your SWPPP does not have to follow the format of this checklist. The purpose of this checklist is to help you ensure that your SWPPP contains all required components.

<b>Description</b>		<b>Location in SWPPP &amp; Notes</b>
<b>Project &amp; Activity Description</b>		
Describe the nature/function of the construction project.		
Describe the intended sequence of major construction activities.		
Indicate the total site area that is expected to be disturbed.		
Include a general location map identifying site location and any waters of the U.S within one mile of the site.		
<b>Site Map</b>		
Include a legible site map, complete to scale of the entire site. Indicate the following items on the map.		
Direction of stormwater / drainage patterns, and approximate slopes after major grading activities;		
Areas to be disturbed and areas that will not be disturbed;		
Locations of off-site material, waste borrow, or equipment storage areas used solely for the project;		
Locations of major structural and non-structural erosion and sedimentation controls;		
Describe all interim and permanent stabilization practices, including installation schedule. Preserve vegetation where possible, and avoid the use of impervious surfaces.		
Describe all measures / waste disposal practices to prevent discharge of solid material, including building materials to waters of the state. Include location of dumpster.		
Describe measures to minimize off-site tracking of sediments to paved surfaces and the generation of dust.		
Describe any waste or construction materials to be stored onsite, and list measures to limit exposure (storage, spill prevention, and response practices)		
Describe routine inspection schedules and procedures to ensure control measures are operating effectively.		
Indicate who the qualified personnel will be to perform inspections.		

**PUBLIC WORKS CHECKLIST**  
**Information Required for Building Permit Application**  
Building Department 934-0662 Department of Public Works 934-0670

Address: \_\_\_\_\_

- If 1.0 or more acres are disturbed a full Construction SWPPP designed for a person having adequate training and meeting the minimum requirements of the MN General Construction Stormwater Permit is provided. No work may begin until a copy of the active MPCA NPDES permit is provided.
- Is a Stormwater Management Plan required for this site?
  - The final site design complies with the approved Stormwater Management Plan, or
- Map showing how building will be located on the lot.  
Also include on the map:
  - Exterior stormwater drainage plan identified.
    - Directional arrows are shown for proposed drainage.
    - Drainage easements are identified.
    - 1-foot contours both existing and proposed.
    - Location of all existing and proposed permanent stormwater control measures.
    - Location of all temporary sediment basins.
    - Existing and proposed impervious areas.
    - Buffer areas and areas not to be disturbed clearly marked.
    - All wetlands, drainage channels, surface waters, etc. located within 1.0 miles shown.
  - Is on-site fueling proposed?
    - Location
    - Type of tank meeting Fire Marshal approval?
    - Secondary containment
  - Description and location of erosion and sediment control (sediment control, inlet protection, etc.) devices. (Standard Detail Plate #3003, #3004 or approved alternative)
  - Location of temporary stockpiles identified.
  - Description, quantity, and location of erosion and sediment control devices. (Standard Detail Plate #3003, #3004 or approved alternative)
  - Description of construction phasing.
  - Location of access to lot identified.
    - If an access to the lot is being requested a rock exit (Standard Detail Plate #3005) will need to be installed.
  - Location of concrete washout identified.
  - Location of porta potty identified and located on private property
  - Location of construction dumpsters identified and located on private property
  - Location of curb cut for driveway identified. Need Curb & Gutter/Driveway application.
    - Existing or  Proposed size of curb cut desired \_\_\_\_\_ (Standard Detail Plate #7020)
  - Location of curb stop identified. If curb stop is in the driveway or a sidewalk an A-32 Ford water cover is required. (Standard Detail Plate #6002)
  - Location of water service and curb stop identified. (Standard Detail #6002, #6003)
  - Location of wastewater service and clean out identified. If the clean out is in the driveway or a sidewalk an A-32 Ford water cover is required. (Standard Detail #5004)
  - Location of electric service identified. (Identify from beginning to termination point)
    - Service to be open cut  Service to be directional bored
  - Location of a mailbox that contains the weekly site inspections (Mailbox needs rain gauge).

- Mechanical room floor plan including the following information:
  - Utility room location
  - Water meters location in the utility room
  - Sump pump and tile location and outside rigid pipe discharge location
  - Electric panel location (interior)
  - Desired electric meter location (exterior) (Standard Detail #2013)
- Size of copper water service:
  - 1 inch       1 ½ inch       2 inch       other \_\_\_\_\_
  - Amount of 1" Type K copper requested \_\_\_\_\_
- Size of PVC wastewater service:
  - 4 inch       6 inch       other \_\_\_\_\_
- Electric service: Fill out City of Saint Peter Electric Utility Service Request
- Excavation proposed in Right-Of-Way     Yes                       No
  - Please inform excavators that additional fees will be required in the right-of-way if not paid when the building permit is taken out.

**(IF THIS INFORMATION IS NOT PROVIDED THE PERMIT APPLICATION WILL BE CONSIDERED INCOMPLETED AND WILL BE RETURNED)**

Signature: \_\_\_\_\_  
    Contractor or Owner

Name: \_\_\_\_\_  
    (Please Print)

Reviewed by: \_\_\_\_\_  
    Signature

Name: \_\_\_\_\_  
    (Please Print)



STORMWATER UTILITY
LAND DISTURBING PERMIT
CITY OF SAINT PETER

Permit No: \_\_\_\_\_

Building Department 934-0662 or Public Works 934-0670

[ ] OBSTRUCTION [ ] RIGHT-OF-WAY/EASEMENTS [ ] PRIVATE PROPERTY

Project Location: \_\_\_\_\_
(Street, property address or legal description, or distance and direction from nearest public street intersection)

Nature of Work: \_\_\_\_\_

Method of Installation: \_\_\_\_\_

Number of Disturbance Areas: \_\_\_\_\_ Total Amount of Proposed Land Disturbance: \_\_\_\_\_ acres

ATTACH: A scale drawing of the project showing existing and proposed obstructions/structures, location and depth of land disturbance, and method of installation. Existing and proposed 2-ft interval contours are required for all projects 2500 SF or larger unless waived by the Public Works Director.

Are lane closures or traffic detours proposed? [ ] Yes [ ] No Duration: \_\_\_\_\_

ATTACH: A plan for each proposed lane closure and/or detour showing the route and traffic control. All plans must be pre-approved in writing by the Department of Public Works and written notice is required a minimum 3-working days prior to installation, change, or removal except when directed by the Department of Public Works or Law Enforcement.

APPLICANT \_\_\_\_\_ PHONE \_\_\_\_\_
PRINT

ADDRESS \_\_\_\_\_
STREET CITY STATE ZIP

EMAIL \_\_\_\_\_

PARTY PERFORMING WORK \_\_\_\_\_

CONTACT \_\_\_\_\_ EMERGENCY
(24HR) PHONE \_\_\_\_\_

ADDRESS \_\_\_\_\_
STREET CITY STATE ZIP

EMAIL \_\_\_\_\_

The undersigned understands and accepts the terms and conditions of this permit and agrees to fully comply with all rules, standards and ordinances regulating the work. The permittee agrees to provide an instrument of surety in the amount of \$3000 for sites up to 3-acres and \$1000 for each additional 1-acres or portion thereof.

Signed: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

This permit will expire the sooner of 90 days from the date approved or the end of the calendar year. A final inspection is required with each permit. Stormwater Utility 1-working day prior to set up an appointment for inspection at 507-934-0670. A copy of the MN Pollution Control Agency (MPCA) permit must be provided to the City and posted onsite prior to begin of land disturbance for all sites with 1.0-acres or more of land disturbance.

MPCA permit website: www.pca.state.mn.us/index.php/water/water-types-and-programs/stormwater/construction-stormwater/index.html

CITY USE ONLY

Permit Fee \$ \_\_\_\_\_ Receipt No. \_\_\_\_\_

FINANCIAL SURETY \$ \_\_\_\_\_ TYPE OF SURETY: [ ] Bond [ ] Cash [ ] Certified Check [ ] Letter of Credit

In consideration of agreement to comply in all respects with the regulations and codes of the City of St. Peter covering such operations, and pursuant to authorization duly given by said City of St. Peter, permission is hereby granted for the work to be done as described in the above application with said work to be done in accordance with special provisions as attached:

APPROVED BY \_\_\_\_\_ DATE: \_\_\_\_\_

Inspection: [ ] Meets Compliance: no further work is required. [ ] Does not meet compliance. Follow up work is needed.

INSPECTED BY \_\_\_\_\_ DATE: \_\_\_\_\_



Permit No. \_\_\_\_\_

## CITY OF SAINT PETER CURB & GUTTER/DRIVEWAY/CURB CUT APPLICATION

Building Department 934-0662 or Department of Public Works 934-0670

**Site Address:** \_\_\_\_\_

Type of property:  Single-family residential  Multi-family residential  Commercial /Industrial

Application Name \_\_\_\_\_ Cell Phone No. \_\_\_\_\_

Applicant Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Email address \_\_\_\_\_

### **Driveway / Access Information**

Type of application:  New Construction  Replacement  Alteration

Type of Work:  Driveway  Curb Cut  Apron  Curb/gutter work

Proposed driveway width: \_\_\_\_\_ Proposed curb cut length: \_\_\_\_\_

Description of Project: \_\_\_\_\_

I (we) the undersigned, herewith make application for permission to construct the access driveway at the above location, said driveway to be constructed to conform with regulations and conditions of the City of Saint Peter and to any special provisions included in the permit. It is agreed that all work will be done to the satisfaction of the City of Saint Peter within 90 days. It is further agreed that no work in connection with this application will be started until the application is approved. It is expressly understood that this permit is conditioned upon replacement or restoration

Applicant Name \_\_\_\_\_ Date \_\_\_\_\_

Signature \_\_\_\_\_

Property Owner Name \_\_\_\_\_ Date \_\_\_\_\_

Signature \_\_\_\_\_

*Applicant will set up a pre and post inspection with the Stormwater Utility (507-934-0670) prior to pouring the driveway, sidewalk, and curb and gutter. Please provide a 4- hour notice for an inspection. If the applicant does not call for a pre and post inspection, the City will cash the \$300.00 deposit for this permit. If the work is found to be out of compliance, the applicant will have 14 days to correct the issue and call for an additional inspection. If the correction is not done within 14 days, the city will make arrangements to have the additional work completed and billed to the applicant. Additional permits will not be issued to the applicant until all bills are paid. If the work completed is inspected and meets city compliance the \$300.00 deposit will be returned to the applicant after the final inspection is completed and the permit is closed out.*

**This permit is good for up to 90 days following authorization and will be expire at the end of the year if not completed.**

## Driveway / Access Diagram

The following must be included on the drawing below:

1. Lot width and depth
2. Location of the house, garage, sidewalk(s)
3. Location and dimensions of **existing** driveway, sidewalks, and curb cuts (as applicable)
4. Location and dimensions of the **proposed** driveway, sidewalks, and curb cuts
5. Distance from the **proposed** driveway to all property lines
6. Location of water shut-off valve (if shut-off valve is located within the proposed driveway area, applicant must purchase a casing and cover, prior to proposed driveway work.) See Standard detail # 6002

Pre inspection completed Date: \_\_\_\_\_ Initials: \_\_\_\_\_

Allowed to pour concrete against asphalt Date: \_\_\_\_\_ Initials: \_\_\_\_\_

Asphalt must be removed in roadway and a form is to be used to assure flow line  
Date: \_\_\_\_\_ Initials: \_\_\_\_\_

Post inspection completed Date: \_\_\_\_\_ Initials: \_\_\_\_\_

Permit is complete and the deposit can be returned

Inspector: \_\_\_\_\_ Date : \_\_\_\_\_



## STORMWATER UTILITY CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS

NOTE: EROSION CONTROL MEASURES ARE REQUIRED. THIS SHALL BE INSTALLED PRIOR TO EXCAVATING OR A STOP WORK ORDER WILL BE ISSUED.

All construction site activity in the City of Saint Peter shall include the necessary precautions to control and mitigate the erosion of soil, sediment, silt, gravel, or other material onto adjacent roadways and properties. The Property Owner and/or Permit Holder for the construction site shall be responsible for complying with the requirements set forth below, including activities by subcontractors, suppliers, or others involved with the construction project. The list represents minimum requirements for all sites – larger projects or projects located on erosion prone or erosion sensitive sites may be subject to additional measures at the discretion of the Building Department or the Stormwater Utility.

1. Construction sites will be required to install erosion control measures. Construction site exits must have a rock entrance that meets or exceeds Standard Detail Plate No: 3005 or an alternative approved in advance by the Public Works Director. Silt fence shall be installed in compliance with Standard Detail Plate No: 3003 and/or 3004 to protect the adjacent properties and be maintained until all lawn or landscaping is installed.
2. The MPCA has determined that all areas disturbed by excavation and backfilling operations which exposed soil must be stabilized no later than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.
3. All materials, tracked or otherwise deposited on roadways adjacent to a construction site or on roadways being used as haul routes for material being delivered to or removed from a site, shall be cleaned daily, unless more frequent cleaning is required by the Stormwater Utility.
4. All material, which is deposited on adjacent roadways as a result of a precipitation event, shall be removed, including the cleaning of storm sewer or overland drainage ditches, within 24 hours following the event.
5. Should the Property Owner/Permit Holder fail to provide adequate erosion and sediment control or to clean the material from the roadway as needed/directed the following steps may be taken:
  - a. A Field Compliance Order or Notice of Violation will be issued.
  - b. If the problem still exists and is not corrected in the timeframe indicated in the Field Compliance Order or Notice of Violation, the City may make provisions to perform corrective action. All costs incurred by the City for said corrective action shall be billed to the Property Owner/Permit Holder.
  - c. No inspections shall be done and a Certificate of Occupancy will not be issued until such time as payment(s) for the work have been made.
  - d. Issuance of additional permits to the Permit Holder for other construction projects within the City of Saint Peter will be withheld until such time as corrective action is completed.

I, \_\_\_\_\_, the Property Owner/Permit Holder for the construction activity taking  
Name

place at \_\_\_\_\_ in the City of Saint Peter declares that I have read,  
Address

Understood, and will abide by the conditions listed above regarding Erosion Control on this project.

\_\_\_\_\_  
Signed

\_\_\_\_\_  
Date

\_\_\_\_\_  
Telephone Number



**EROSION AND SEDIMENT CONTROL AGREEMENT**

THIS AGREEMENT made and entered this \_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_, by and between \_\_\_\_\_ and \_\_\_\_\_, husband and wife/a single person, hereinafter referred to as "OWNER" and the City of Saint Peter, a municipal corporation under the laws of the State of Minnesota, hereinafter referred to as "CITY".

WHEREAS, OWNER is the owner of real property located at \_\_\_\_\_, St. Peter, MN. 56082, real estate tax parcel number \_\_\_\_\_. \_\_\_\_\_ legally described as follows: \_\_\_\_\_

WHEREAS, OWNER has applied for a building permit which building permit requires the OWNER to provide for erosion and sediment control;

WHEREAS, Saint Peter City Ordinance No.371, requires the OWNER to provide for erosion and sediment control throughout the course of the permit;

WHEREAS, Saint Peter City Ordinance No. 371, requires the OWNER to secure the performance of the erosion and sediment control with a \$3,000.00 bond to secure the CITY'S erosion and sediment control standards;

WHEREAS, the CITY has established a policy which allows OWNERS to execute an assessment against their property in lieu of posting of a \$3,000.00 bond;

WHEREAS, the OWNER wishes to accept the CITY'S offer of assessment;

WHEREAS, in consideration of the CITY'S acceptance of the waiver of assessment agreement rather than requiring the OWNER to post a \$3,000.00 bond, the OWNER waives its rights, pursuant to Minnesota Statute Chapter 429, to notice of hearing and objection to the amount of the assessment;

WHEREAS, the OWNER agrees to comply with erosion and sediment control requirements as set forth in the CITY'S permit;

WHEREAS, in the event the OWNER fails to comply with the erosion and sediment control requirements as set forth by the CITY and the CITY is required to bring the OWNER'S project into compliance with the erosion and sediment control requirements, the CITY will retain a contractor or will, with CITY labor, complete the corrections required to complete the project:

WHEREAS, in the event the CITY is required to make the corrections, the OWNER agrees to pay the CITY the costs the CITY incurred to make the correction through the levy of an assessment on the benefited property, payable over a five (5) year period at an interest rate not to exceed eight percent (8%). The cost of the assessment shall be taxable cost of bringing the project into compliance which shall not exceed \$3,000.00.

NOW, THEREFORE, be it hereby agreed between the parties hereto that:

1. OWNER will comply with the erosion and sediment control requirements as set forth in the building permit and City Ordinances.
2. In the event OWNER fails to comply with the erosion and sediment control requirements as set forth in the permit and City Ordinances and the CITY is required to complete or correct the erosion and sediment control on the property and the permitted right-of-way adjacent to the property, the OWNER will pay all costs to repair, replace, and correct the erosion and sediment control on the property and in the permitted right-of-way of the full project. Payment shall be made upon completion of the project or alternatively through special assessments levied against OWNER'S property in accordance with Minnesota Statute Chapter 429.
3. OWNER waives his rights pursuant to Minnesota Statutes Chapter 429, to notice of a hearing and objection to the amount of the assessment
4. CITY will assess OWNER'S property pursuant to Minnesota Chapter 429.

IN WITNESS WHEREOF, the parties hereto have set their hands this day and year first written above.

PROPERTY OWNER

BY: \_\_\_\_\_

CITY OF SAINT PETER

BY: \_\_\_\_\_  
Timothy Strand - Mayor                      Todd Prafke - City Administrator

## City of Saint Peter Electric Utility Service Request

*All information below will need to be filled in to receive a secondary service.*

Temporary service required      Yes --No      Approximate Date to connect \_\_\_\_/\_\_\_\_/\_\_\_\_  
Circle One

Size & Voltage of Temporary service \_\_\_\_\_AMPS\_\_\_\_\_/\_\_\_\_\_VOLTAGE

Proposed Location (Site Map Required)

Temporary service is the cost of the Contractor/Owner,

A copy of the Contractor Request for Electrical Inspection will be supplied by the Electrical Contractor before any Temporary Service or Permanent Service will be connected.

Panel service size in building      \_\_\_\_\_AMPS

Service Voltage requesting      \_\_\_\_/\_\_\_\_VOLTAGE

Service phases      Single phase --- Three phase  
Circle One

Who will be installing the secondary service?  
\_\_\_\_\_

Approximate date when permanent service will be needed \_\_\_\_/\_\_\_\_/\_\_\_\_

Proposed Electric Utility's secondary connection point (Site Map Required)

The final location of secondary electrical connection points will be made by the Electric Utility.

1. **BUILDING PERMIT APPLICATION:** Complete and sign a building permit application. The application is included in this packet.
2. **PLUMBING/MECHANICAL PERMIT APPLICATION:** Complete and sign a plumbing/mechanical permit application. The application is included in this packet.  
 -Please note that a separate plumbing permit application is needed for a fire sprinkler/alarm system permit.
3. **SURVEY OR SITE PLAN:** Provide an accurate, detailed site plan of the property showing all property lines, road rights-of-ways, easements, existing buildings (include dimensions) and the address or PIN number of the property. Diagram the proposed building location, dimensions and proposed setbacks from property lines, existing buildings, and all topographical features. A registered land survey may be required.
4. **BUILDING PLANS:** Some business/commercial/industrial used structures may be required by the Building Official and/or state statute to be prepared by and signed by a Minnesota Licensed Architect, Structural Engineer, and Mechanical Engineer. Contact the Building Official to determine if your structure requires these design professionals. Please see the table below that lists the structures that are exempt from licensed Architects and Engineers.

Occupancy Classifications	Number of Stories and Basement	Maximum Gross Square (GSF) or Dwelling Units (whichever is less)
(i) Warehouse (storage rooms) for combustible or non combustible goods	One story, no basement	5000 GSF
(ii) Retail or wholesale stores, paint stores without bulk handling	Two story and basement	1500 GSF
(iii) Office buildings	Two story and basement	2250 GSF
(iv) Factories and workshops using materials that are not highly flammable	One story, no basement	3000 GSF
(v) Aircraft hangard where no repair work is done except exchange of parts and maintenance requiring no open flame, welding, or the use of highly flammable liquids	One story, no basement	3000 GSF
(vi) Lodging houses	Two story and basement	5 rooms or 1500 GSF
(vii) Eating and drinking establishments	Two story and basement	Seating for not more than 20 persons or 1000 GSF
(viii) Apartment houses	Two story and basement or three story including half basement	4 dwelling units or 5000 GSF
(ix) Garages, carports, and sheds used as accessories	One story, no basement	1000 GSF
(x) Convents and monasteries	Two story and basement	10 dwelling units or 3000 GSF

No use of structural concrete, poured in place, for roofs and supported floors.

- a. Elevation Drawings (exterior views), of front, rear, and sides of the finished structure.
- b. Floor plans of the basement and each floor showing the dimensions of the structure, interior rooms, and use of each room, window/door locations, interior walls, header sizes, stairs, and plumbing/mechanical equipment.
- c. Section Drawings (side cutaway view) showing the details of the footing, foundation construction with damp proofing and insulation, floor, wall, and roof construction.
- d. Plumbing Plans must be submitted to and approved by the Minnesota Department of Health Plumbing Division. Provide the Health Departments letter of approval and two (2) sets of plumbing plans to the City.
- e. Fire Sprinkler/Alarm Systems plans must be submitted to the City Building Department or State of Minnesota for review. Provide two (2) sets of plans to the City.

## 5. MISCELLANEOUS:

**Pre-Construction Meeting:** A meeting with the city staff should be scheduled to determine if the proposed use is permitted by the zoning, building, and municipal ordinances.

**\*Special Inspections:** IBC Chapter 17 requires the owner, Architect or Engineer of record to indicate what special inspections are required (if any) and who will be performing the special inspections which is subject to the approval of the Building Official.

**General Zoning:** Check with the jurisdiction to determine if a variance, conditional use permit, or special evaluation is required. Please contact Russ Wille at 507-934-0662.

**Permit fees:** The fees will be determined after the application and plans have been submitted and reviewed. Fees must be paid in full before a permit can be issued or construction can begin.

**Electrical:** The wiring must be inspected and approved by an electrical inspector. To request an inspection or to answer electrical questions, call Chris Gappa, State Electrical Inspector, at 507-327-6078 between the hours of 7:00 am. - 8:30 a.m, Monday through Friday.

# City of Saint Peter

Building Department

227 South Front

St. Peter, MN 56082

Phone: 507-934-0662 Fax: 507-934-4917

Permit Number \_\_\_\_\_

## BUILDING PERMIT APPLICATION

BUILDING SITE ADDRESS \_\_\_\_\_ (OR) LOT \_\_\_\_\_ BLOCK \_\_\_\_\_ PHONE \_\_\_\_\_

PROPERTY OWNER \_\_\_\_\_ ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

GENERAL CONTRACTOR \_\_\_\_\_ LICENSE# / EXP Date \_\_\_\_\_ ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

PLUMBING CONTRACTOR (IF APPLICABLE) \_\_\_\_\_ LICENSE# / EXP Date \_\_\_\_\_ ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

MECHANICAL CONTRACTOR (IF APPLICABLE) \_\_\_\_\_ ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

ELECTRICAL CONTRACTOR (IF APPLICABLE) \_\_\_\_\_ LICENSE# / EXP Date \_\_\_\_\_ ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

EXCAVATION CONTRACTOR (IF APPLICABLE) \_\_\_\_\_ LICENSE# / EXP Date \_\_\_\_\_ ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

<b>PROPERTY USE</b> <input type="checkbox"/> SINGLE FAMILY RES. <input type="checkbox"/> TWO FAMILY RES. <input type="checkbox"/> THREE + FAMILY RES. <input type="checkbox"/> COMMERCIAL <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> INSTITUTIONAL <input type="checkbox"/> PUBLIC
---

<b>TYPE OF WORK</b> <input type="checkbox"/> NEW BUILDING <input type="checkbox"/> EXISTING BUILDING <input type="checkbox"/> ADDITION <input type="checkbox"/> REMODEL <input type="checkbox"/> REPAIR <input type="checkbox"/> DECK <input type="checkbox"/> REROOF <input type="checkbox"/> RESIDE
---

<b>TYPE OF STRUCTURE</b> <input type="checkbox"/> PRINCIPLE BUILDING <input type="checkbox"/> GARAGE <input type="checkbox"/> ACCESSORY BUILDING <input type="checkbox"/> TEMPORARY BUILDING <input type="checkbox"/> OTHER (SPECIFY) _____ _____
--

Occupancy _____ Type of Construction _____  <b>PROPOSED SETBACKS</b> FRONT _____ NSEW _____ LEFT _____ NSEW _____ RIGHT _____ NSEW _____ REAR _____ NSEW _____
---

DESCRIPTION OF PROJECT \_\_\_\_\_

CONSTRUCTION & SITE PLANS ATTACHED (TWO COPIES EACH)  YES  NO  SQUARE FOOTAGE \_\_\_\_\_

IS AN EXCAVATION PERMIT REQUIRED?  YES  NO IS THE HOME OLDER THAN 1978?  YES  NO

IF SO PROVIDE LEAD CERTIFICATION LICENSE # \_\_\_\_\_ SIGN (LICENSEE) \_\_\_\_\_

ESTIMATED VALUE OF WORK (INCLUDING LABOR) \$ \_\_\_\_\_

DOES THIS VALUE INCLUDE P&H  YES  NO

Permit becomes void if work does not begin within 180 days or if suspended at any time for over 180 days. Permits issued and inspections made by the City are a public service and do not constitute any representation, guarantee or warranty, either implied or expressed, to any person as to the condition of the building or conformance to applicable construction codes. The undersigned acknowledges that this application has been read and that the above is correct and agrees to comply with all the ordinances and laws of the City of Saint Peter regulating building construction.

EMAIL ADDRESS \_\_\_\_\_

BUILDING PERMIT FEE _____
PLAN REVIEW FEE _____
STATE SURCHARGE _____
TOTAL BUILDING FEE _____
PUBLIC WORKS FEE _____
TOTAL PERMIT FEE _____
RECEIPT NUMBER _____
ISSUED BY _____
PW APPROVAL _____

SIGNATURE OF:  OWNER  CONTRACTOR  AUTHORIZED AGENT \_\_\_\_\_ PRINTED NAME \_\_\_\_\_ DATE \_\_\_\_\_

BUILDING OFFICIAL APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_ ZONING ADMINSTRATOR APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_

## GENERAL INFORMATION

A Certificate of Occupancy is required before the structure can be occupied. All the required building inspections must be completed and approved, and a final approval received from the State Electrical Inspector.

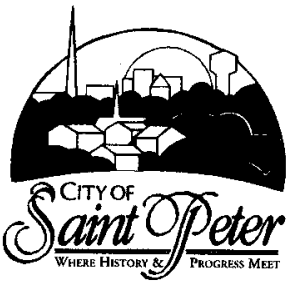
### \*\*Required Inspections:

1. **Site Inspection**, before any construction begins.
2. **Footings**, after forms are in place, but prior to placement of concrete, gravel, or sand.
3. **Foundations**, prior to backfilling and as deemed necessary by the Building Official and design professionals.
4. **Plumbing 5# Air Test** of all waste and vent piping prior to covering, contact the Minnesota Department of Health and then the local Building Official with inspection requests.
5. **Fireplaces and Masonry Chimneys Rough-In**, for pre-fabricated when framing is complete, for masonry fireplaces when the throat is set, masonry chimneys when starting.
6. **Mechanical Rough-In** when complete, prior to covering.
7. **Gas Piping** must hold 25# of air for 12 hours, all piping and fittings must be exposed for inspection.
8. **Electrical** must be done BEFORE a framing inspection can be done.
9. **Framing/Structural** when all the framing is complete or in sections.
10. **Insulation** when the insulation, vapor barrier, firestopping, and draftstopping is in place.
11. **Plumbing Manometer Test** of all the waste and vent piping after all fixtures are set. Contact the State Health Department for inspection requests then the local Building Official.
12. **Special Inspections** of soils, concrete, welding, bolting, fire resistive construction, and similar components. The Building Official, Architect and Engineer of record shall indicate what special inspections are required. An inspector approved by the Building Official must perform the special inspections and file copies of all reports with the Building Official. \*\*Depending on the project inspection of exterior and interior wall finish, fire suppression systems, alarms, elevators, firestopping, etc.. NOTE: The building site will be inspected for storm water drainage throughout the construction time.
13. **Final** when the structure is complete and the required inspections have been approved (cosmetic details do not have to be completed)

To schedule an inspection, please call **24 hours** in advance at 507-934-0662 between 8:30 a.m. to 4:30 p.m., Monday through Friday.

Excavations: Prior to excavating, please call Gopher State One, **48 hours** in advance at 811 or 1-800-252-1166 to verify the location of underground utilities, etc.

Gas and Electric Utilities: Contact your local utility for specific requirements at 507-934-0670.



# City of Saint Peter

Building Department

227 South Front

Saint Peter, MN 56082

Phone: 507-934-0662 Fax: 507-934-4917

Permit Number \_\_\_\_\_

## PLUMBING-MECHANICAL PERMIT APPLICATION

- PLUMBING PERMIT
- MECHANICAL PERMIT
- BOTH
- FIRE SPRINKLERS
- LAWN SPRINKLERS

BUILDING SITE ADDRESS \_\_\_\_\_ (OR) LOT \_\_\_\_\_ BLOCK \_\_\_\_\_ PHONE \_\_\_\_\_

PROPERTY OWNER \_\_\_\_\_ ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

PLUMBING CONTRACTOR (IF APPLICABLE) \_\_\_\_\_ LICENSE# / EXP Date \_\_\_\_\_ ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

MECHANICAL CONTRACTOR (IF APPLICABLE) \_\_\_\_\_ ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

ELECTRICAL CONTRACTOR (IF APPLICABLE) \_\_\_\_\_ LICENSE# / EXP Date \_\_\_\_\_ ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

ARCHITECT/ENGINEER \_\_\_\_\_ LICENSE# / EXP Date \_\_\_\_\_ ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

<p><b>CLASS OF WORK</b></p> <p><input type="checkbox"/> NEW</p> <p><input type="checkbox"/> ADDITION</p> <p><input type="checkbox"/> ALTERATION</p> <p><input type="checkbox"/> REPLACE WATER HEATER</p> <p><input type="checkbox"/> REPLACE FURNACE</p> <p><input type="checkbox"/> HVAC</p> <p><input type="checkbox"/> OTHER _____</p>	<p><b>BUILDING USE</b></p> <p><input type="checkbox"/> SINGLE FAMILY RES.</p> <p><input type="checkbox"/> TWO FAMILY RES.</p> <p><input type="checkbox"/> THREE + FAMILY RES.</p> <p><input type="checkbox"/> COMMERCIAL</p> <p><input type="checkbox"/> INDUSTRIAL</p> <p><input type="checkbox"/> INSTITUTIONAL</p> <p><input type="checkbox"/> PUBLIC</p>	<p><b>TYPE OF WORK</b></p> <p><input type="checkbox"/> NEW BUILDING</p> <p><input type="checkbox"/> EXISTING BUILDING</p> <p><input type="checkbox"/> ADDITION</p> <p><input type="checkbox"/> REMODEL</p> <p><input type="checkbox"/> REPAIR</p>	<p><b>TYPE OF STRUCTURE</b></p> <p><input type="checkbox"/> PRINCIPLE BUILDING</p> <p><input type="checkbox"/> GARAGE</p> <p><input type="checkbox"/> ACCESSORY BUILDING</p> <p><input type="checkbox"/> TEMPORARY BUILDING</p> <p><input type="checkbox"/> OTHER _____</p>
---	--	---	---

**PLUMBING SECTION:** SPECIFY NUMBER OF FIXTURES \_\_\_\_\_ IS A PLUMBING PLAN ATTACHED?  YES  NO

DESCRIPTION OF WORK \_\_\_\_\_

DOES YOUR PLUMBING PLAN INCLUDE A FIRE SPRINKLER  YES  NO LAWN SPRINKLER  YES  NO

**MECHANICAL SECTION:**

**HEATING UNIT** ( Gas) ( Other \_\_\_\_\_) (Efficiency \_\_\_\_\_%) (Size \_\_\_\_\_ BTU)

( Sealed Combustion) ( Direct or Power Vented) ( Atmospherically Vented) ( Other \_\_\_\_\_)

**WATER HEATER** ( Electric) ( Gas) ( Sealed Combustion) ( Direct or Power Vented) ( Atmospherically Vented)

**COOLING UNIT** (Size \_\_\_\_\_) (Seer \_\_\_\_\_)

**ENERGY / VENTILATION SECTION:**

**MINNESOTA ENERGY CODE COMPLIANCE METHOD:**  CHAPTER 1322 Residential (Attach appropriate worksheet)

CHAPTER 1323 Commercial (Attach appropriate worksheet)

--	--	--

**SIGNATURE OF:**  OWNER  CONTRACTOR  AUTHORIZED AGENT

**PRINTED NAME** \_\_\_\_\_

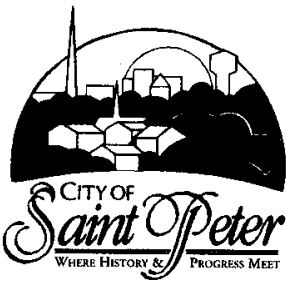
**DATE** \_\_\_\_\_

**ESTIMATED VALUE OF WORK (INCLUDING LABOR)** \_\_\_\_\_ IS THIS VALUE INCLUDED IN BUILDING PERMIT?  YES  NO

I certify that the information contained herein is correct and agree to do the proposed work in accordance with the ordinances and codes of the City of Saint Peter regulating building construction. If the person making this application is not the property owner, the applicant represents that the owner has authorized such work and the submittal of the application. Approved plumbing/mechanical permits are issued to the applicant. The permit holder is responsible for all required inspections and corrections to completion.

PLUM/MECH PERMIT FEE _____
PLAN REVIEW FEE _____
STATE SURCHARGE _____
TOTAL PERMIT FEE _____
RECEIPT # _____
ISSUED BY _____

**BUILDING OFFICIAL APPROVAL** \_\_\_\_\_ **DATE** \_\_\_\_\_



# City of Saint Peter

Building Department

227 South Front

Saint Peter, MN 56082

Phone: 507-934-0662 Fax: 507-934-4917

Permit Number \_\_\_\_\_

## PLUMBING-MECHANICAL PERMIT APPLICATION

- PLUMBING PERMIT
- MECHANICAL PERMIT
- BOTH
- FIRE SPRINKLERS
- LAWN SPRINKLERS

BUILDING SITE ADDRESS \_\_\_\_\_ (OR) LOT \_\_\_\_\_ BLOCK \_\_\_\_\_ PHONE \_\_\_\_\_

PROPERTY OWNER \_\_\_\_\_ ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

PLUMBING CONTRACTOR (IF APPLICABLE) \_\_\_\_\_ LICENSE# / EXP Date \_\_\_\_\_ ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

MECHANICAL CONTRACTOR (IF APPLICABLE) \_\_\_\_\_ ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

ELECTRICAL CONTRACTOR (IF APPLICABLE) \_\_\_\_\_ LICENSE# / EXP Date \_\_\_\_\_ ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

ARCHITECT/ENGINEER \_\_\_\_\_ LICENSE# / EXP Date \_\_\_\_\_ ADDRESS \_\_\_\_\_ PHONE \_\_\_\_\_

<p><b>CLASS OF WORK</b></p> <p><input type="checkbox"/> NEW</p> <p><input type="checkbox"/> ADDITION</p> <p><input type="checkbox"/> ALTERATION</p> <p><input type="checkbox"/> REPLACE WATER HEATER</p> <p><input type="checkbox"/> REPLACE FURNACE</p> <p><input type="checkbox"/> HVAC</p> <p><input type="checkbox"/> OTHER _____</p>	<p><b>BUILDING USE</b></p> <p><input type="checkbox"/> SINGLE FAMILY RES.</p> <p><input type="checkbox"/> TWO FAMILY RES.</p> <p><input type="checkbox"/> THREE + FAMILY RES.</p> <p><input type="checkbox"/> COMMERCIAL</p> <p><input type="checkbox"/> INDUSTRIAL</p> <p><input type="checkbox"/> INSTITUTIONAL</p> <p><input type="checkbox"/> PUBLIC</p>	<p><b>TYPE OF WORK</b></p> <p><input type="checkbox"/> NEW BUILDING</p> <p><input type="checkbox"/> EXISTING BUILDING</p> <p><input type="checkbox"/> ADDITION</p> <p><input type="checkbox"/> REMODEL</p> <p><input type="checkbox"/> REPAIR</p>	<p><b>TYPE OF STRUCTURE</b></p> <p><input type="checkbox"/> PRINCIPLE BUILDING</p> <p><input type="checkbox"/> GARAGE</p> <p><input type="checkbox"/> ACCESSORY BUILDING</p> <p><input type="checkbox"/> TEMPORARY BUILDING</p> <p><input type="checkbox"/> OTHER _____</p>
---	--	---	---

**PLUMBING SECTION:** SPECIFY NUMBER OF FIXTURES \_\_\_\_\_ IS A PLUMBING PLAN ATTACHED?  YES  NO

DESCRIPTION OF WORK \_\_\_\_\_

DOES YOUR PLUMBING PLAN INCLUDE A FIRE SPRINKLER  YES  NO LAWN SPRINKLER  YES  NO

**MECHANICAL SECTION:**

**HEATING UNIT** ( Gas) ( Other \_\_\_\_\_) (Efficiency \_\_\_\_\_%) (Size \_\_\_\_\_ BTU)

( Sealed Combustion) ( Direct or Power Vented) ( Atmospherically Vented) ( Other \_\_\_\_\_)

**WATER HEATER** ( Electric) ( Gas) ( Sealed Combustion) ( Direct or Power Vented) ( Atmospherically Vented)

**COOLING UNIT** (Size \_\_\_\_\_) (Seer \_\_\_\_\_)

**ENERGY / VENTILATION SECTION:**

**MINNESOTA ENERGY CODE COMPLIANCE METHOD:**  CHAPTER 1322 Residential (Attach appropriate worksheet)

CHAPTER 1323 Commercial (Attach appropriate worksheet)

--	--	--

**SIGNATURE OF:**  OWNER  CONTRACTOR  AUTHORIZED AGENT

**PRINTED NAME** \_\_\_\_\_

**DATE** \_\_\_\_\_

**ESTIMATED VALUE OF WORK (INCLUDING LABOR)** \_\_\_\_\_ IS THIS VALUE INCLUDED IN BUILDING PERMIT?  YES  NO

I certify that the information contained herein is correct and agree to do the proposed work in accordance with the ordinances and codes of the City of Saint Peter regulating building construction. If the person making this application is not the property owner, the applicant represents that the owner has authorized such work and the submittal of the application. Approved plumbing/mechanical permits are issued to the applicant. The permit holder is responsible for all required inspections and corrections to completion.

PLUM/MECH PERMIT FEE _____
PLAN REVIEW FEE _____
STATE SURCHARGE _____
TOTAL PERMIT FEE _____
RECEIPT # _____
ISSUED BY _____

**BUILDING OFFICIAL APPROVAL** \_\_\_\_\_ **DATE** \_\_\_\_\_



**INFORMATION NEEDED FOR MECHANICAL & ENERGY CODE (VENTILATION):**

Sq. ft. (including basement): \_\_\_\_\_

Average height of ceiling: \_\_\_\_\_

No. of bedrooms (including future): \_\_\_\_\_

Ventilation type (balanced or exhaust): \_\_\_\_\_

HRV (yes or no)          ERV (yes or no)

Defrost deduction: \_\_\_\_\_ %          CFM (low) \_\_\_\_\_          CFM (high) \_\_\_\_\_

No. of water heaters: \_\_\_\_\_          How vented? \_\_\_\_\_          Input BTU's \_\_\_\_\_

No. of Furnaces: \_\_\_\_\_          How vented? \_\_\_\_\_          Input BTU's \_\_\_\_\_

Gas fireplace? Yes or no          Type: \_\_\_\_\_          Input BTU's \_\_\_\_\_

Solid fuel fireplace: (yes or no)

Largest other exhaust fan (cfm):

List other exhaust fans & CFM for each: \_\_\_\_\_

Combustion space: width: \_\_\_\_\_ length: \_\_\_\_\_ height: \_\_\_\_\_

# CITY OF SAINT PETER ENERGY CODE WORKSHEET

**BUILDING ADDRESS:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**CONTRACTOR/OWNER:** \_\_\_\_\_

**1. GROSS CEILING AREA:** Raised Heel (Energy Truss) = \_\_\_\_\_ Square Feet "R"-Value \_\_\_\_\_

Standard Truss – Flat ceiling or scissors truss = \_\_\_\_\_ Square Feet "R"-Value \_\_\_\_\_

Cathedral Ceiling = \_\_\_\_\_ Square Feet "R"-Value \_\_\_\_\_

**2. GROSS WALL AREA:** (1<sup>st</sup> Floor) \_\_\_\_\_ Lineal Feet x \_\_\_\_\_ Height = \_\_\_\_\_ Square Feet. "R"-Value \_\_\_\_\_

**3. GROSS WALL AREA:** (2<sup>nd</sup> Floor) \_\_\_\_\_ Lineal Feet x \_\_\_\_\_ Height = \_\_\_\_\_ Square Feet. "R"-Value \_\_\_\_\_

**4. GROSS RIM JOIST AREA:** \_\_\_\_\_ Lineal Feet x \_\_\_\_\_ Height = \_\_\_\_\_ Square Feet. "R"-Value \_\_\_\_\_

**5. GROSS KNEEWALL AREA:** \_\_\_\_\_ Lineal Feet x \_\_\_\_\_ Height = \_\_\_\_\_ Square Feet. "R"-Value \_\_\_\_\_

**6. GROSS BASEMENT WALL AREA:** \_\_\_\_\_ Lineal Feet x \_\_\_\_\_ Height = \_\_\_\_\_ Square Feet "R"-Value \_\_\_\_\_

**7. GROSS CRAWL SPACE FOUNDATION AREA:** \_\_\_\_\_ Lin. Ft. x \_\_\_\_\_ Hgt.= \_\_\_\_\_ Sq. Ft. "R"-Value \_\_\_\_\_  
(From top of footing to top of wall)

**8. FLOOR OVER UNCONDITIONED SPACE AREA:** = \_\_\_\_\_ Square Feet "R"-Value \_\_\_\_\_  
(Areas over garages, crawl space, unconditioned basement, etc.)

**9. FLOOR OVER OUTSIDE AIR:** = \_\_\_\_\_ Square Feet "R"-Value \_\_\_\_\_

**10. PERIMETER OF HEATED SLAB ON GRADE:** (If applicable) = \_\_\_\_\_ Lineal Feet "R"-Value \_\_\_\_\_

**11. HOUSE WINDOW AREA:** (Of same "U" Value) = \_\_\_\_\_ Square Feet "U"-Value \_\_\_\_\_

**12. HOUSE WINDOW AREA:** (Of same "U" Value) = \_\_\_\_\_ Square Feet "U"-Value \_\_\_\_\_

**13. HOUSE WINDOW AREA:** (Of same "U" Value) = \_\_\_\_\_ Square Feet "U"-Value \_\_\_\_\_

**14. FOUNDATION/BASEMENT WINDOW AREA** (Maximum "U" Value of 0.51) = \_\_\_\_\_ Square Feet "U"-Value \_\_\_\_\_

**15. PATIO DOOR AREA:** = \_\_\_\_\_ Square Feet "U"-Value \_\_\_\_\_

**16. ENTRY DOOR AREA:** (Less than 50% Glass) = \_\_\_\_\_ Square Feet "U"-Value \_\_\_\_\_

**17. ENTRY DOOR AREA:** (More than 50% Glass) = \_\_\_\_\_ Square Feet "U"-Value \_\_\_\_\_

**18. SKYLIGHT WINDOW AREA:** (Maximum "U" Value of 0.55) \_\_\_\_\_ Square Feet "U"-Value \_\_\_\_\_

**19. FURNACE AFUE:** (Efficiency rating) \_\_\_\_\_ Rating \_\_\_\_\_

**20. AIR CONDITIONER SEER RATING:** \_\_\_\_\_ SEER \_\_\_\_\_

**COMMENTS:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

State of Minnesota  
Board of Electricity

**Residential Electrical  
Inspection Checklist**

Generally, **Minnesota law** requires all electrical work to be performed by licensed, bonded, and insured electrical contractors and their employees.

Homeowners, within strict limitations, are exempt from Electrical licensing.

*An **owner** is a natural person who physically performs electrical work on premises the person owns and actually occupies as a residence or owns and will occupy as a residence upon completion of construction.*

Minnesota Statutes 326.01, Subd. 6e

A separate request for electrical inspection form with the required fees must be submitted to the Board of Electricity at or before commencement of any electrical installation that is required by law to be inspected.

**Installers of electrical wiring shall schedule a final inspection when the electrical work is completed, prior to the electrical wiring being utilized and the associated space occupied.**

CONTRACT INSPECTOR  
Minnesota State Board of Electricity  
Nicollet-Le Sueur County Inspector  
Chris Gappa  
507-327-6078

INSPECTORS ARE AVAILABLE WEEKDAYS ONLY  
Between 7:00 am and 8:30 am

When an **owner** files a Request for Electrical Inspection form and inspection fees with the Board of Electricity or other electrical inspection authority, that person is signing an affidavit that they own and occupy the residence and that they personally and physically will perform all of the electrical work, including the laying out of such work.

It is illegal for an **owner** to install electrical wiring in mobile home or recreational vehicle parks, or on property that is rented, leased, or occupied by others.

**01** Minnesota Rules 3800.3770 A ROUGH-IN INSPECTION must be made before any wiring is covered by insulation, sheetrock, paneling, or other materials. Underground wiring must be inspected to assure the minimum burial depth.

**02** Where wiring is concealed before inspection, the person responsible for concealing the wiring shall be responsible for all costs resulting from uncovering and replacing the covering material.

Minnesota Rules part 3800.3770

Except for the final connection to switches, receptacles, and lighting fixtures, all ground wires and other wires in boxes must be spliced and pigtailed for the rough-in inspection. **A FINAL ELECTRICAL INSPECTION** is required when all wiring has been completed and all devices, lighting fixtures, and appliances have been installed and tested.

**General Circuitry**

**03** NEC 210.11 and 422.12 In addition to the branch circuits installed to supply general illumination and receptacle outlets in dwelling units, the following minimum requirements apply:

- Two 20-amp circuits for the kitchen receptacles
- One 20-amp circuit for the laundry receptacles
- One 20-amp circuit for the bathroom receptacles
- One separate, individual branch circuit for central heating equipment

**04** NEC 210.52 Receptacles installed in the kitchen to serve countertop surfaces shall be supplied by not less than two separate 20 amp small appliance branch circuits.

**05** NEC 300.3 All conductors of the same circuit, including grounding and bonding conductors, shall be contained in the same raceway, cable, or trench.

**06** NEC 408.4 All circuits and circuit modifications shall be legibly identified as to purpose or use on a directory located on the face or inside of the electrical panel doors.

**07** NEC 240.3 The rating of the fuse or circuit breaker generally determines the minimum size of the circuit conductor, per the following table:

Fuse or Circuit    Minimum Wire Size \_\_\_\_\_

16 cu  
2cuin  
4cuin  
4cuin  
2cuin  
28 cu in



	Copper	Aluminum
15 amp	14	n/a
20 amp	12	n/a
30 amp	10	8
40 amp	8	6
50 amp	6	4

Note: Conductors that supply motors may have overcurrent protection that exceeds the general limitations in the above chart

- 08 NEC 406.3** Receptacle outlets shall be of the grounding type, be effectively grounded, and have proper polarity.
- 09 NEC 210.52** Receptacle outlets in habitable rooms shall be installed so that no point measured horizontally along the floor line in any wall space is more than 1.8 m [6'] from a receptacle outlet. A receptacle shall be installed in each wall space 600 mm [2'] or more in width.
- 10 NEC 210.52** At kitchen countertops, receptacle outlets shall be installed so that no point along the wall line is more than 600 mm [24"] measured horizontally from a receptacle.
- 11 NEC 406.4** Receptacles shall not be installed in the face-up position in countertops or similar work surfaces
- 12 NEC 210.52** A receptacle outlet shall be installed at each counter space 300 mm [12"] or wider, and at each island counter or peninsular space 600 mm [24"] by 300 mm [12"] or larger. Countertop spaces separated by range tops, sinks or refrigerators are separate spaces
- 13 NEC 210.52** Outdoor receptacles, accessible at grade level and no more than 2 m [6.5] above grade, shall be installed at the front and back of a dwelling.
- 14 NEC 210.12** All branch circuits supplying 125-volt, 15 and 20 amp outlets in dwelling unit bedrooms shall be protected by a listed arc-fault circuit interrupter device.
- Ground-Fault Protection**
- 15 NEC 210.8** At dwellings, ground-fault circuit-interrupter (GFCI) protection shall be provided for all receptacle outlets installed in bathrooms, garages, grade-level portions of unfinished accessory buildings, crawl spaces, unfinished basements, kitchen countertops, wet-bar sinks, bathhouses and outdoors. Receptacles that are not readily accessible may be exempt from the GFCI requirement.
- 16 NEC 680.71** A hydromassage bathtub that has a re-circulating piping system designed to discharge water upon each use, and its associated components shall have GFCI protection.
- 17 NEC 680.71** All 125 volt receptacles not exceeding 30 amperes installed within 5 feet of the inside walls of the hydromassage bathtub shall be GFCI protected.
- 18 NEC 406.8** 15 and 20 amp, 125 and 250 volt receptacles installed outdoors in a wet location shall have an enclosure that is weatherproof whether or not the attachment plug is inserted.
- 19 NEC 680.71** All equipment associated with a hydromassage bathtub shall be accessible without damaging the building structure or finish.

The insulating value of human skin is drastically reduced when a person is wet Special requirements in the NEC help protect against the hazards of electricity and conductive pool water. See the Board of Electricity brochure entitled "Swimming Pools, Fountains, Spas and Hot Tubs"

### Wiring Methods

- 20 NEC 314.23** All electrical boxes shall be securely supported by the building structure.
- 21 NEC 314.27** Boxes used as the sole support for a ceiling paddle fan shall be listed and labeled for such use.
- 22 NEC 334.30 and 334.17** Type NM (nonmetallic) cable shall be secured at intervals not exceeding 1.4 m [4.5'] and within 300 mm [12"] of each box. When a single gang box 57 mm x 100 mm [2 1/4" x 4"] or smaller is used without a cable clamp, the cable shall be secured within 200 mm [8"] measured along the sheath.
- 23 NEC 314.17** The outer jacket of NM cable shall extend into the box a minimum of 6 mm [1/4 inch.]
- 24 NEC 300.14** The minimum length of conductors, including grounding conductors, at all boxes shall be 150 mm [6"] with at least 75 mm [3"] outside the box.
- 25 NEC 300.4** Where cables are installed through bored holes in joists, rafters, or wood framing members, the holes shall be bored so that the edge of the hole is not less than 32 mm [1 1/4"] from the nearest edge of the wood member. Where this distance cannot be maintained, or where screws or nails are likely to penetrate the cable, it shall be protected by a steel plate at least 1.6 mm [1/16"] thick and of appropriate length and width.
- 26 NEC 300.22** Type NM cable shall not be installed in spaces used for environmental air, however NM is permitted to pass through perpendicular to the long dimension of such spaces.
- 27 NEC 250.134; 314.4; 404.9** All electrical equipment, metal boxes, cover plates, and plaster rings shall be grounded. All switches, including dimmer switches, shall be grounded.
- 28 NEC 110.12 & 314.17** Unused openings in boxes shall be effectively dosed. When openings in non-metallic boxes are broken out and not used, the entire box must be replaced.
- 29 NEC 110.14** Only one conductor shall be installed under a terminal screw. In boxes with more than one ground wire, the ground wires shall be spliced with a "wire tail" or "pig tail" attached to the grounding terminal screw.
- 30 NEC 110.14 & 300.15** Splices shall be made with an approved splice cap or "wire nut" and shall be made in approved electrical boxes or enclosures. Wire splicing means for direct burial shall be identified for such use.
- 31 NEC 314.25 & 410.12** In a completed installation, all outlet boxes shall have a cover, lampholder, canopy for a luminaire, or device with an appropriate cover plate.
- 32 NEC 314.19** Junction boxes shall be installed so that the wiring contained in them can be rendered accessible without removing any part of the building.
- 33 NEC 314.16** The volume of electrical boxes shall be sufficient for the number of conductors, devices, and cable clamps contained within the box. Nonmetallic boxes are marked with their cubic inch capacity. Use the following table to properly calculate box size:

Conductor Size	14 gauge	12 gauge
For each separate insulated wire	32.8 cm <sup>3</sup> (2 in. 3)	36.9 cm <sup>3</sup> (2.25 in. 3)
All ground wires (combined)	32.8 cm <sup>3</sup> (2 in. 3)	36.9 cm <sup>3</sup> (2.25 in. 3)
For each device (switch/receptacle)	32.8 cm <sup>3</sup> (2 in. 3)	36.9 cm <sup>3</sup> (4.5 in. 3)
All internal cable clamps (combined)	32.8 cm <sup>3</sup> (2 in. 3)	36.9 cm <sup>3</sup> (2.25 in 3)

Sample Calculation:

Four "#14/2 w/ground' cables:	
Eight insulated wires.....	264.4 cubic centimeters
All ground wires.....	32.8 cubic centimeters
One switch.....	65.6 cubic centimeters
One receptacle.....	65.6 cubic centimeters
All clamps.....	32.8 cubic centimeters
<hr/>	
Total box volume required.....	461.2 cubic centimeters
	28 cu in

**34** NEC 410.8 Luminaires (lighting fixtures) installed in clothes closets shall have the following minimum clearances from the defined storage area (see the definition below):

- 300 mm [12"] for surface incandescent fixtures
- 150 mm [6"] for recessed incandescent fixtures
- 150 mm [6"] for fluorescent fixtures

**35** NEC 410.8 Storage space, as applied to an electrical installation in a closet, is the volume bounded by the sides and back closet walls and planes extending from the closet floor vertically to a height of 1.8 m [6 ft] or the highest clothes-hanging rod and parallel to the walls at a horizontal distance of 600 mm [24"] from the sides and back of the closet walls respectively, and continuing vertically to the closet ceiling parallel to the walls at a horizontal distance of 300 mm [12"] or the width of the shelf, whichever is greater.

**36** NEC 410.8 Incandescent luminaires with open or partially enclosed lamps and pendant fixtures or lampholders are not permitted in clothes closets.

**37** NEC 410.66 Recessed lighting fixtures installed in insulated ceilings or installed within 13 mm [1/29"] of combustible material shall be approved for insulation contact and labeled as Type IC.

The Minnesota Energy Code, part of the State Building Code, requires penetrations into exterior walls and ceilings to be sealed to prevent the leakage of airborne moisture into unheated spaces.

**38** Minnesota Rules 3800.3620 All electrical equipment, including luminaires, devices, and appliances shall be LISTED AND LABELED by a nationally recognized testing laboratory as having been tested and found suitable for a specific purpose. Underwriters Laboratories (UL) and the Canadian Standards Association (CSA) are two of the recognized agencies.

**39** NEC 110.3 All electrical equipment shall be installed and used in accordance with the listing requirements and manufacturer's instructions.

Electrical Services

**40** NEC 310-15 CONDUCTOR SIZES FOR 120/240 VOLT SINGLE-PHASE DWELLING SERVICES AND FEEDER

Copper	Aluminum	Service Rating
4 AWG	2 AWG	100 amps
1 AWG	2/0	150 amps
2/0	4/0	200 amps

**41** NEC 230.7 Conductors other than service conductors shall not be installed in the same service raceway or cable.

**42** NEC 110.14 Conductors of dissimilar metals shall not be intermixed in a terminal or splicing device unless the device is listed for the purpose. Listed anti-oxidant compound shall be used on all aluminum conductor terminations unless information from the device manufacturer specifically states that it is not required.

**43** NEC 300.7 Portions of raceways and sleeves subject to different temperatures (where passing from the interior to the exterior of a building) shall be sealed with an approved material to prevent condensation from entering the service equipment.

**44** NEC 230.54 Where exposed to weather, service entrance conductors shall be rain-tight and arranged to drain.

**45** NEC 300.4 Where raceways containing ungrounded conductors No. 4 or larger enter a cabinet, box, or enclosure, the conductors shall be protected by a conduit bushing providing a smoothly rounded insulating surface.

**46** NEC 230.70 The electrical service disconnecting means shall be installed at a readily accessible location either outside a building or structure or inside nearest the point of entrance of the service-entrance conductors.

**47** NEC 230.70 & 240.24 Electrical panels shall be readily accessible and shall not be located in bathrooms or in the vicinity of easily ignitable materials such as clothes closets.

**48** NEC 110.26 The depth of working space in the direction of access to live parts, when the voltage to ground does not exceed 150 volts, shall be a minimum of 3 feet. The minimum width of working space in front of electrical equipment shall be the width of the equipment or 30 inches, whichever is greater. This workspace shall be clear and extend from the floor to a height of 6½ feet. This space shall not be used for storage.

**49** NEC 110.26 Illumination shall be provided for all work spaces about electrical service equipment.

Grounding

**50** NEC 250.50 A premises electrical service shall be connected to a grounding electrode system consisting of a metal underground water pipe in direct contact with earth for 3.0 m [10'] or more, if available on the premises, and supplemented by a rod, pipe, or plate electrode.

*An additional electrode must supplement the buried water pipe electrode.*

**51** NEC 250.64 & 250.66 The grounding electrode conductor shall be unspliced. The size is determined by the size of the service-entrance conductors, per the following chart:

Equivalent Size of Service Entrance Conductor		Size of the Grounding Electrode Conductor	
Copper	Aluminum	Copper	Aluminum
4 AWG	2	8	6
1 AWG	2/0	6	4
2/0 or 3/0	4/0 or 250	4	2

The grounding electrode conductor that is the sole connection to a rod, pipe or plate electrode is not required to be larger than #6 copper.

**52** NEC 250.28 A main bonding jumper or the green bonding screw provided by the panel manufacturer shall be installed in the service panel to electrically bond the grounded service conductor and the equipment grounding conductors to the service enclosure.

**53** NEC 250.104 The interior metal water piping and other metal piping that may become energized shall be bonded to the service equipment with a bonding jumper sized the same as the grounding electrode conductor.

**54** NEC 300.5 Direct buried cable or conduit or other raceways shall meet the following minimum cover requirements:

Direct Burial Cable	Rigid or Intermediate Metal Conduit	Non Metallic Raceway (PVC)
600 mm [24"]	150 mm [6"]	450 mm [18"]
Residential branch circuits rated 20 amps or less at 120 volts or less and with GFCI protection at their source are allowed a minimum cover of 300 mm [12"]		

**55** NEC 300.5 Underground service conductors shall have their location identified by a warning ribbon placed in the trench at least 300 mm [12"] above the underground installation.

**56** NEC 300.5 Where subject to movement, direct buried cables or raceways shall be arranged to prevent damage to the enclosed conductors or connected equipment

**57** NEC 300.5 Conductors emerging from underground shall be installed in rigid metal conduit, intermediate metal conduit, or Schedule 80 rigid nonmetallic conduit to provide protection from physical damage. This protection shall extend from 450 mm [18"] below grade or the minimum cover distance to the point of termination above ground.

**Board of Electricity  
Electrical Inspection Fees**

The minimum fee for each separate inspection of an installation, replacement, alteration, or repair is \$20.

The inspection fee for the installation, addition, alteration, or repair to a service, change of service, temporary service, generator or other power supply source or feeder shall be per the chart below.

Each Service, Generator or Other Source Of Supply	
0 to and including 400 amps @ \$25	
401 to 800 amps @ \$50	

The inspection fee for the installation, addition, alteration, or repair of each circuit or feeder, feeder tap, or set of transformer secondary conductors including the equipment served, shall be per the chart below:

Each Circuit or Feeder	
0 to and including 200 amps @ \$5	
Over 200 amps @ \$10	

The TOTAL fee cannot be less than \$20 for each required inspection trip.

ONE & TWO FAMILY DWELLINGS, EACH UNIT Includes the Service/Power Supply up to 500 Amperes, All Circuits, and Two Inspection Trips	
Each Dwelling Unit @ \$80	
Additional Inspection Trips @ \$20	

- Example 1: For a residential air conditioner installation involving one circuit and one inspection trip the electrical inspection fee is \$20, the minimum fee.

For a project where more circuits or feeders (rated less than 200 amps) are involved, the fee is calculated by multiplying the number of Circuits installed or altered by \$5.

- Example 2: For a detached structure that involves the installation of a feeder (\$25) and 2 circuits (\$10) requiring an inspection of the wiring to be concealed and a final inspection, the inspection fee is \$40, the cost of two inspection trips.

**58** Minnesota Statute 326.2441 Whenever a re-inspection is necessary to determine whether unsafe conditions have been corrected, a re-inspection fee of \$20 may be assessed in writing by the inspector.

The above fees apply generally. Fees for other specific  
Types of installations apply as identified in  
Minnesota Statutes 326.2441

<p><b>State of Minnesota Board of Electricity</b> 1821 University Avenue Suite S-128 Saint Paul, Minnesota 55104 Phone 651-642-0800 Fax 651-642-0441 TTY/MRS 1-800-627-3529  <i>www.electricity.state.mn.us</i></p>
---



