



CITY OFFICES
100 West Fourth Street
Waterloo, Illinois 62298
(618) 939-8600
Stanley T. Darter, Mayor

Zoning Administrator
(618) 939-8730

COMMERCIAL APPLICATION

Building Permit, Utility Installation, Inspection & Certificate of Occupancy Guidelines and Requirements

BUILDING PERMIT GUIDELINES AND REQUIREMENTS

COMMERCIAL APPLICATION: Building permit application for new commercial construction, commercial remodeling, and multi-family dwellings (three-family or greater).

The following is required before your building permit application can be considered for approval:

1. Application for Building Permit and Certificate of Zoning Compliance completed in full and signed. Follow all instructions on the application and include all requested information.
2. Designation of Registered Design Professional completed in full and signed.
3. A detailed site plan of the lot is required.
4. Architectural, mechanical, plumbing, and electrical plans are required. Drawings for structures other than one- and two-family residences and their accessory buildings must be prepared, sealed, and signed by a design professional registered in the State of Illinois. The City of Waterloo has adopted the 2012 International Building Code with revisions, the National Electric Code, the National Fuel Gas Code and NFPA 54, and the Illinois State Plumbing Code. Consult Chapter 6, Building Code, of the City of Waterloo Code of Ordinances for details.
5. Email a PDF of all drawings to nkrebel@waterloo.il.us.
6. Application for Commercial Natural Gas Service completed in full and signed, if service is requested.
7. Application for Electric Service completed in full and signed, if service is requested.
8. Water Survey completed in full and signed.
9. Refer to the latest City of Waterloo Construction Details for installation details of all utilities.
10. A Letter of Intent explaining your intentions and scope of work. Please address to the "Building Official".

All utility connection fees, inspection fees, and building permit fees must be paid before the building permit can be issued.

Please be aware that plumbers and roofers who work in Illinois must be licensed by the State of Illinois.

UTILITY INSTALLATION INFORMATION

- ✓ For Gas and Electric Installation, call 618.939.8600 ext. 530. Allow at least one (1) week notice.
- ✓ Don't forget to call JULIE, Illinois' One-Call System, at 811 or 1.800.892.0123 before you dig.



FIRE SUPPRESSION SYSTEMS INFORMATION

The City of Waterloo requires all utilities to be fully metered, this includes all fire suppression systems. It is the Applicant's responsibility to ensure that the fire suppression system is metered. See Waterloo Construction Details Manual for water metering requirements.

INSPECTION GUIDELINES AND REQUIREMENTS

It is the responsibility of the applicant to notify the appropriate contact when work has progressed to a point where an inspection is required.

REQUIRED INSPECTIONS AND CONTACTS:

- ✓ SITE – building is staked along with lot lines - City of Waterloo Building Inspector at 618.939.8600 ext. 212.
- ✓ BUILDING* - footings; waterproofing/backfill; frame and electrical; and final occupancy- City of Waterloo Building Inspector at 618.939.8600 ext. 212 (48-hour notice required).
- ✓ INTERIOR PLUMBING * – below grade rough-in; above grade rough-in; and final occupancy - Plumbing Inspector at 618.410-4908.
- ✓ SEWER LATERAL – upon completion of tap-in but prior to covering (Must be installed as shown in City of Waterloo Construction Details.) - City of Waterloo at 618.939.8600 ext. 530. (If applicant notifies the City by 9:30 am, inspection will be same day. If applicant notifies the City after 9:30 am, inspection will be the next business day.)
- ✓ EXTERIOR PLUMBING – upon installation of water service but prior to covering** - City of Waterloo at 618.939.8600 ext. 530. (If City is notified by 9:30 am, inspection will be same day; if after 9:30 am, inspection will be the next business day.)

*For more detailed requirements, contact the City of Waterloo Building Inspector or the Plumbing Inspector.

** For details of water/fire suppression service installation, see attached "Detail Figure W-6 thru W-8" or contact the City of Waterloo at 618.939.8600 ext. 530.

CERTIFICATE OF OCCUPANCY

When the Zoning Administrator receives confirmation of final inspection approval from the Building Inspector and Plumbing Inspector and notification from the Public Works Department that water and natural gas have been approved and turned on, a Certificate of Occupancy can be obtained.

It is a violation of the City of Waterloo Ordinance to occupy or utilize any new structure for any purpose until the Zoning Administrator has issued a Certificate of Occupancy.

I have read and understand the above Building Permit Guidelines and Requirements.

Applicant



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**APPLICATION FOR COMMERCIAL/INDUSTRIAL BUILDING PERMIT
AND CERTIFICATE OF ZONING COMPLIANCE**

FOR OFFICE USE ONLY

Permit Number: _____ Date: _____
Permit Issued: _____ Square Feet of Improvement: _____
Permit Fee: _____
Permit Denied: _____
Cause of Denial: _____

1. Name of Applicant(s): _____ Date: _____
Address: _____ Phone: _____
Email Address: _____

2. Property Interest of Applicant: () Owner () Contractor () Contract Purchaser
() Lessee () Other

3. Name of Owner (if other than applicant): _____
Address: _____ Phone: _____
Email Address: _____

4. Location of Proposed Construction
Address: _____ Lot No: _____
Subdivision (include phase of development): _____

5. Current Zoning District: _____

6. Existing Use of Property: () Vacant Lot () Residential () Commercial
() Agricultural () Industrial () Other

7. Proposed Use of Property: () Residential () Commercial () Agricultural
() Industrial () Other

8. Existing Use of Building (check all that apply)
- Single Use
 - Mixed Use
 - Assembly - indicate purpose Banquet Hall Restaurant
 Tavern / Bar Other _____
 - Business - indicate purpose Architect Attorney Dentist
 Physician Other _____
 - Residential - 3 family dwellings or more - number of units _____
 - Educational
 - Factory and Industrial
 - High Hazard
9. Proposed Use of Building (check all that apply)
- Single Use
 - Mixed Use
 - Assembly - indicate purpose Banquet Hall Restaurant
 Tavern / Bar Other _____
 - Business - indicate purpose Architect Attorney Dentist
 Physician Other _____
 - Residential - 3 family dwellings or more - number of units _____
 - Educational
 - Factory and Industrial
 - High Hazard
10. Type of Commercial / Industrial Construction: Principal Building
 Addition to Existing Structure Accessory Building
 Interior Remodel (see subcategories below & check all that apply)
- complete remodel of entire interior of structure including removal of interior walls
 - basement remodel kitchen remodel bathroom remodel other: _____
 - structural work - please describe: _____
 - electrical work - please describe: _____
 - plumbing work - please describe: _____
11. TOTAL Square Feet of Proposed Construction: _____
12. Does the site currently have onsite water detention? Yes No
13. Does the proposed construction lie within any floodplain area? Yes No
14. Does the proposed construction require fire sprinklers? Yes No



16. Utilities – does the current property have any of the following:

Electric: () Single Phase () Three Phase – secondary voltage on three phase _____
Gas: () 275,000 btu () 415,00 btu () 1,200,000 btu () other _____ btu
Water (1" meter): () Yes () No () other Sewer: () Yes () No
Lawn Irrigation: () Yes () No

Service Connections Requested:

Electric: () Single Phase () Three Phase – secondary voltage on three phase _____
Gas: () 275,000 btu () 415,00 btu () 1,200,000 btu () other _____ btu
Water (1" meter): () Yes () No () other Sewer: () Yes () No
Lawn Irrigation: () Yes () No

17. Contractors:

General (name and business name): _____
Phone: _____ Email: _____

Electric (name and business name): _____
Phone: _____ Email: _____
State of Illinois License No: _____

Plumbing (name and business name): _____
Phone: _____ Email: _____
State of Illinois License No: _____

Roofing (name and business name): _____
Phone: _____ Email: _____
State of Illinois License No: _____

Kitchen – hood fire suppression: Name: _____
Phone: Business name: _____
Email: _____

Fire Sprinkler (name and business name): _____
Phone: _____ Email: _____

Application is hereby made for a Certificate of Zoning Compliance and Building Permit, as required under the Ordinances of the City of Waterloo, Illinois for the erection and use of buildings and premises. In making this application, the applicant represents all of the above statements and any attached maps and drawings to be a true and accurate description of the proposed new or altered uses and/or buildings. The applicant agrees that the permit applied for, if granted, is issued on the representations made herein and that any permit issued may be revoked without notice on any breach of representation or conditions. It is understood that any permit issued on this application will not grant right of privilege to erect any structure or to use any premises described for any purpose or in any manner prohibited by the City’s Ordinance.

Applicant’s Signature: _____

Owner’s Signature: _____
(if other than Applicant)

TEMPORARY CERTIFICATE OF ZONING COMPLIANCE

Changes in site plans or specifications SHALL NOT be made without written approval of the appropriate City Officials. Failure to comply with the above shall constitute a violation of the provisions of the City of Waterloo Zoning Ordinance.

Dated

Zoning Administrator



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100 West Fourth Street
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Stanley T. Darter, Mayor

DESIGNATION OF REGISTERED DESIGN PROFESSIONAL

Subject Property Address: _____

Owner of Property: _____

Description of Project: _____

Name of Registered Design Professional

Name: _____

Address: _____

Phone: _____ Email: _____

The above-named registered design professional has been requested to prepare construction documents for the above-named project and is hereby designated as the registered design professional in responsible charge, including being responsible for reviewing and coordinating submittal documents prepared by others, including phased and deferred submittal items, for compatibility with the design of the building. All documents and plans are to be submitted to:

City of Waterloo Zoning Administrator
100 West Fourth Street
Waterloo, Illinois 62298
618.939.8600

Date

Property Owner

*I accept designation as the registered design professional for the above-named project
(please include stamp):*

Date

Design Professional



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APPLICATION FOR COMMERCIAL / INDUSTRIAL NATURAL GAS SERVICE

The undersigned hereby requests that the City of Waterloo provide a gas connection at the following described property to wit:

Applicant's Name: _____

Connection Address: _____

Gas Meters (The following meters will be required at the site):

Meter	Location/Address	BTU Input
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Which have a total BTU Input of _____. Applicant agrees to make a new application for any additional equipment to be added to his/her gas service after this application. The addition of equipment with total BTU Input greater than that shown herein, without the filing and approval of a new application, shall constitute cause for entire discontinuance of natural gas service by the City.

38-2-8 ALL SERVICE SHALL BE METERED (B) All gas service shall be metered with a meter of adequate size to measure the amount of gas consumed. Meters shall be of standard design and may be of the diaphragm, rotary or turbine type properly used at the discretion of the city's Public Works Director. The measurement pressure base shall be seven inches water column. The temperature base shall be 60°F.

As an inducement of the City of Waterloo to accept this application, the applicant:

1. Agrees to pay for all gas used on said premises at the rates provided by City Ordinance.
2. Agrees to abide by the rules and regulations of said City, and to further pay the minimum rate set by City Ordinance after gas service is available to said premises, but prior to usage by the applicant.
3. Agrees that the City assumes no responsibility for the interruption of service and the City shall have the right to discontinue service to said property for any of the following reasons:
 - a. When the safety of the general public is endangered or public convenience and necessity requires.
 - b. Defective gas services and equipment on said premises,
 - c. City maintenance and construction operations,
 - d. Violation of the City rules and regulations and/or failure to pay charges for service rendered.

All connections to the City Gas Utility Service shall be made by the City.

Connection charges must be paid in full to the City before the City commences work. In the event that additional charges become necessary because of unusual or unexpected circumstances, such charges must be paid in full to the City as soon as the work is completed. Under no circumstances will gas service be initiated until all connection charges are paid in full. Connection charges are non-refundable once work has commenced.

EASEMENT: Applicant, by the execution hereof, grants unto the City the right to install and maintain the gas service line on the property to be served by said line and the right to extend along and across such property for the making of other service connections from the same gas service line.

TIME LIMITATIONS: The City will not install a gas service line more than 60 days prior to its use for service. If the gas connection is not installed and complete for service within 90 days from the date the application was granted by the City, said application shall be null and void and of no further effect.

RATE: Applicant agrees that unless he otherwise makes written request to the City, he will be billed under the provisions of Rate "General Service".

PROPERTY OWNER LIABLE: The property owner is liable, and by the execution hereof, agrees to promptly pay any delinquent charges for gas service to his tenant. The City reserves the right, and the property owner by the execution hereof, agrees to the discontinuance of gas service to said premises until said delinquent charges are paid.

RULES AND REGULATION – PART OF CONTRACT: All the rules and regulations concerning the natural gas system as approved by the City Council of the City of Waterloo are incorporated and made a part hereof and shall be binding on every gas customer and landlord.

SPECIAL NOTICES AND CONDITIONS: Any special notices and conditions of this application are shown below and are incorporated herein.



Dated at Waterloo, Illinois, this _____ day of _____, 20_____.

Tenant

Owner

Address

Address

Application accepted by the City of Waterloo, Illinois, this ___ day of _____, 20__.

Receipt of \$_____ in payment for gas connected hereby acknowledged.

Official Personnel

Account Number(s) _____

SPECIAL NOTICES AND CONDITIONS

Attention of the Applicant, Tennant and Owner is also directed to the following:

Unless otherwise specially provided, every backfill at building wall or other excavation near or under a gas service line (or Main) shall be done with compacted sand to a point at least 6" above the level of the gas service line (or Main). The lateral extent of the sand backfill on each side of the service line shall be equal to the depth of the excavation. That is, for an excavation 5 feet deep, the sand backfill must extend 5 feet on each side of the service. Sand backfill is the preferred method unless special circumstances clearly dictate another means. If a request is made to use a special bracket support, manufactured for the purpose, it must be done in writing to the Superintendent of Utilities and subsequently approved by him in writing.

Please refer to City Ordinance 38-2-17 below for additional requirements:

§ 38-2-17 REGULATIONS RELATIVE TO CUSTOMER'S PIPING, FACILITIES, APPLIANCES AND VENTING.

(A) The responsibility of the city for maintenance and safety of natural gas piping terminates at the outside wall of residential premises, unless the gas meter is located within three feet of the structure, in which case the city's responsibility terminates at the outlet of the meter, as in the case of all other meter settings.

(B) All inside building piping shall be black iron pipe. The pipe from the outlet of the meter shall be of black iron pipe of not less than one inch inside diameter, shall enter the building wall by means of suitable metal strap or clamp at a point not more than 18 inches from the outlet wall, and shall be fastened to the wall at intervals sufficient to make the piping rigid throughout. In instances where piping from the meter enters the wall, the interior end shall be securely fastened so that pipe will not turn when fittings at the meter are put on. The final tie-in of the gas line to the meter shall be made by the customer only after air testing by the customer or his or her agent. Gas will not be turned on to any customer manifold that has not been first air tested for leakage by the applicant or his or her agent and subsequently checked by the city. Testing must be done as a completed system. No partial or temporary service is permitted.

(C) The city does herewith adopt as its rules and regulations and safety practices the rules, regulations and safety practices set forth by the National Fire Protection Association in the latest revision of the National Fuel Gas Code, NFPA 54 and Gas Industry Guidelines, as though those rules, regulations and practices were fully repeated and set forth herein so far as they are not inconsistent with the provisions of this code. In the event of conflict, the more restrictive language shall apply. Any person, firm or corporation installing fuel gas piping or appliances within the gas service area of the city shall follow said rules, regulations and practices.

(D) No surface may be constructed or placed over a gas service line or main which may produce a seal to a building wall or foundation.

(E) All buried natural gas piping facilities owned or served by the city and distribution appurtenances shall conform to the latest revision of NFPA 54 and the Minimum Federal Safety Standards 49 CFR Part 192 and Gas Industry Guidelines as though fully set forth herein. The minimum standards shall apply equally to provide buried facilities and distribution appurtenances. No natural gas piping may be placed or remain beneath any building or sealed surface except in a specified vented casing.

(F) No meter, regulator or any part of a meter setting may be painted or otherwise coated by a customer without written approval of the Public Works Director on a case-by-case basis. Special coatings are required to prevent shorting of insulators.

(G) The city shall not approve **CUSTOMER PIPING**, which as used herein means piping beyond the outlet of the meter. The city may refuse connection or discontinue service upon discovering any conditions which may be in violation of this code or which may create any type of safety hazard, including venting.

(H) Heating plants and water heaters shall be connected to gas piping with rigid pipe, excepting where an AGA-listed flexible connector is furnished by the manufacturer as part of its installation design. AGA-approved appliance connectors may be used only on ranges, clothes dryers or built-in ovens. Sweat fittings shall not be used anywhere in the gas piping.

(I) (1) All gas conversion burners to be installed shall be AGA-listed and approved. All designed heating plants shall be AGA-listed and approved and the manufacturer's recommendations for the installation shall be followed.

(2) No conversion burner shall be installed in an old or ineffective furnace or a boiler which is in poor repair. Test for leakage shall be conducted by the installer in an approved manner before placing a conversion burner in a warm-air heating plant.

(J) No alteration, repair, adjustment, customer relighting, any appliance work or piping work shall be done by city forces beyond the outlet of the meter, except to the extent that it may be required for purposes of safety only. This prohibition shall apply to LP conversions.

(K) (1) No unvented gas appliances, with the exception of kitchen ranges, clothes dryers and ventless gas fireplaces installed in accordance with NFPA 54 and Gas Industry Guidelines, may be installed or operated within the city.

(2) Safety shut-off devices to protect either supply gas or venting failure shall be installed and subsequently tested for proper operation by the installer. Written documentation of the test may be requested. These devices shall be used when approved for or furnished with new heating equipment.

(L) Decorative or supplementary appliances shall be properly vented in accordance with NFPA 54 and Gas Industry Guidelines. These include but are not limited to gas logs and gas log lighters. At any time such units are installed in wood-burning fireplaces, special action must be taken for permanent modifications of the flue damper. Positive assurance must be provided that the damper cannot be fully closed. A permanent hole must be cut or a positive stop attached even if the unit has a safety pilot.

(M) The city shall be notified of any changes or alterations, remodeling or reconstruction affecting gas piping in any building, house or grounds. This shall be done using a new Application for Gas Service or by amending an existing application.

(N) The latest revision of the American National Standard National Fuel Gas Code, identified as the National Fire Protection Association No. 54 and Gas Industry Guidelines, is incorporated herein by reference and made a part hereof as if and to the extent that it is not in conflict with regulations specifically set out herein. The more restrictive language shall apply.

(O) Any customer piping outside the building wall shall be protected from atmospheric corrosion by the customer. It shall be painted at regular intervals after cleaning. Good quality paint suitable for this purpose shall be used.

(P) *Gas connections compliance testing.* There shall be no charge for the first compliance testing of a new gas connection service. Should the first test reveal that the service is not properly installed and ready for connection, all subsequent testing required shall be billed at \$35 for each test during business hours and

\$50 for each test during non-business hours. Compliance testing shall be in conformance with NFPA 54 and Gas Industry Guidelines.

(1993 Code, § 38-2-17) (Ord. 726, passed 2-3-1986; Am. Ord. 845, passed 9-3-1991; Am. Ord. 879, passed 1-4-1993; Am. Ord. 909, passed 2-7-1994; Am. Ord. 1247, passed 12-23-2002; Am. Ord. 1394, passed 11-27-2006; Am. Ord. 1837, passed 2-7-2022)



APPLICATION FOR COMMERCIAL/INDUSTRIAL ELECTRIC SERVICE

The undersigned hereby requests that the City of Waterloo provide an electrical connection to the municipal electric system at the following described property to wit:

CONNECTION ADDRESS: _____

TYPE OF CONNECTION:

COMMERCIAL/INDUSTRIAL: () NEW SERVICE () EXPANDED SERVICE
(SINGLE PHASE)

COMMERCIAL/INDUSTRIAL: () NEW SERVICE () EXPANDED SERVICE
(THREE PHASE)

REQUESTED TRANSFORMER SECONDARY SIDE AMP RATING _____ **AMPS, SECONDARY VOLTAGE** _____

Connection Fee: Applicant tenders herewith the sum of \$_____ in payment of the electric connection fee. As an inducement of the City of Waterloo to accept this application, the applicant:

1. Agrees to pay for all electricity used on said premises at the rates provided by City Ordinance.
2. Agrees to abide by the rules and regulations of said City, and to further pay the minimum rate set by City Ordinance after electric service is available to said premises, but prior to usage by the applicant.
3. Agrees that the City assumes no responsibility for the interruption of service and the City shall have the right to discontinue service to said property for any of the following reasons:
 - a. When the safety of the general public is endangered or public convenience and necessity requires,
 - b. Defective wiring and equipment on said premises,
 - c. City maintenance and construction operations,
 - d. Violation of the City rules and regulations and/or failure to pay charges for service rendered.

All connections to the City Electric Utility Service shall be made by the City.

Connection charges must be paid in full to the City before the City commences work. In the event that additional charges become necessary because of unusual or unexpected circumstances, such charges must be paid in full to the City as soon as the work is completed. Under no circumstances will electric service be initiated until all connection charges are paid in full. Connection charges are non-refundable once work has commenced.



EASEMENT: Applicant, by the execution hereof, grants unto the City the right to install and maintain the electric service line on the property to be served by said line and the right to extend along and across such property for the making of other service connections from the same electric service line.

LANDSCAPING: The applicant hereby agrees to re-landscape, including seeding or sodding, any areas excavated and backfilled by the City and to hold the City harmless for subsidence or sinking of any excavated area on the property.

PROPERTY OWNER LIABLE: The owner(s) of any real estate or improvements thereon, or the owner of the beneficial interest of any trust holding title to land or improvements served hereunder shall be responsible for any delinquent charges for electric service to such real estate and/or improvements.

The applicant hereby agrees that the City is under no obligation, nor can it be held liable for any damages for not serving said premises, but it is understood and agreed that the above connection fee will be refunded upon applicant's request if electric service is not available within one (1) year from this date.

We, the undersigned, by execution of this agreement, hereby agree to be bound by all the terms and conditions set forth herein. The undersigned further agrees that the installation will not be placed in operation until proper inspection has been made by the Electric Inspector of the City of Waterloo; or his representative.

Dated at Waterloo, Illinois, this _____ day of _____, 20____.

_____	_____	_____	_____
Renter	Phone	Property Owner	Phone
	_____		_____
	Email		Email
_____	_____	_____	_____
Renter	Phone	Property Owner	Phone
	_____		_____
	Email		Email
_____		_____	
Mailing Address		Mailing Address	

Application accepted by the City of Waterloo, Illinois, this ___ day of _____, 20____.

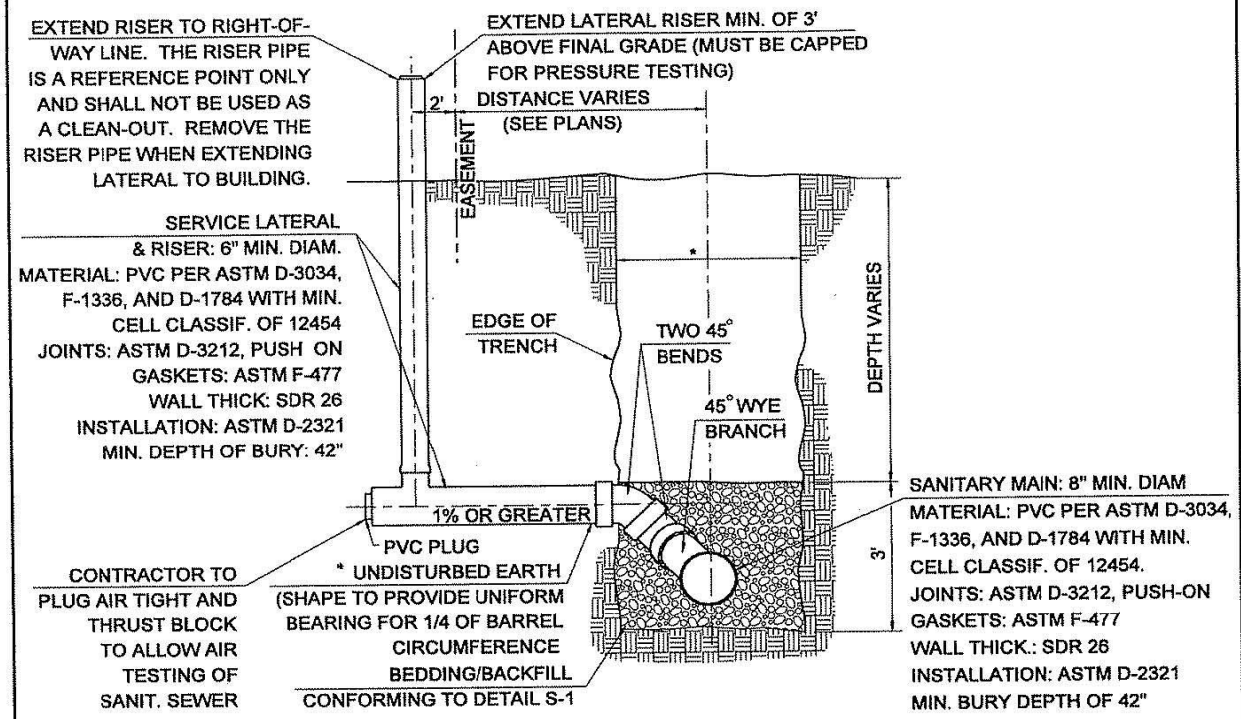
Receipt of \$_____ in payment for electric connection is hereby acknowledged.

Rate: _____
_____ Office Personnel

Account Number(s):

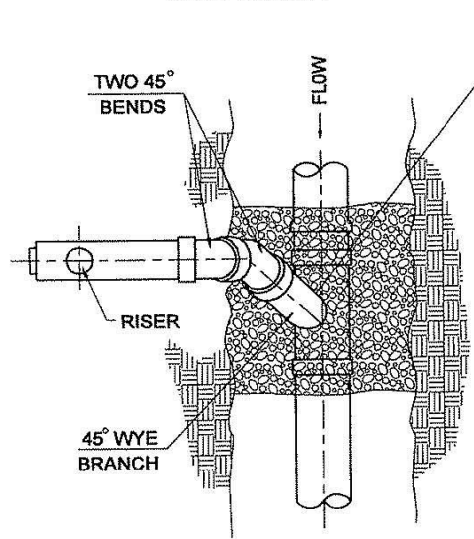
CITY OF WATERLOO

TYPICAL SANITARY SEWER CONSTRUCTION DETAILS



SECTION

*UTILIZE CA-7 FOR ALL BEDDING, HAUNCHING, AND INITIAL BACKFILL AND CA-7 BACKFILL WHERE THE EDGE OF THE TRENCH IS WITHIN TWO (2) FEET OF A PERMANENT SURFACE, INCLUDING DRIVEWAYS AND SIDEWALK. USE CASE I BACKFILL FREE FROM ORGANICS AT ALL OTHER LOCATIONS



WYE BRANCH SERVICE CONNECTION:
 8" x 8" x 8" PVC D-3034 MOLDED SADDLE TEE-45 DEG. WYES W/GASKETED BRANCH CONFORMING TO ASTM 679 AND SOLVENT WELDED SKIRTS HELD IN PLACE W/ALL STAINLESS STEEL ADJUSTABLE BAND CLAMPS. W/MAIN MATERIAL OTHER THAN PVC, USE MECHANICALLY CUT HOLES AND SADDLES AS ABOVE, EXCEPT A NON-HARDENING GASKET, SILICONE CAULKED IN PLACE SHALL BE USED.

SANITARY SEWER & SERVICE CONNECTION DETAIL

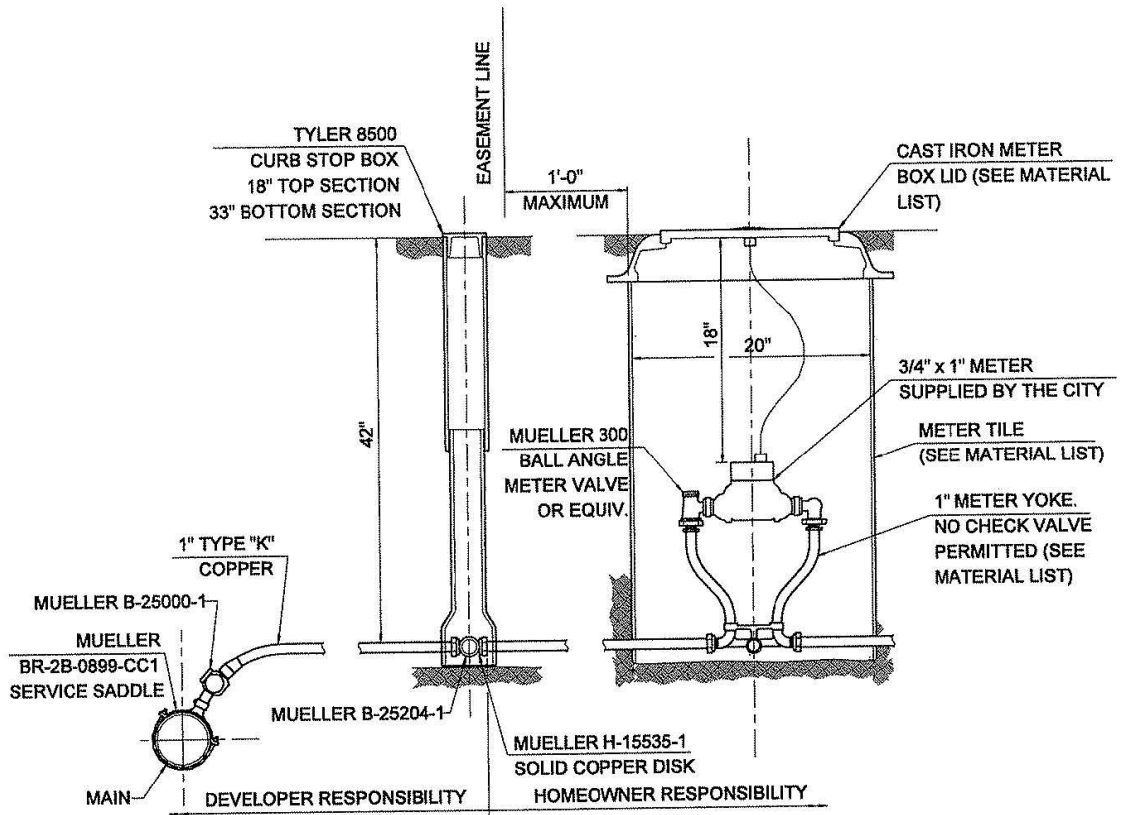
PLAN

DETAIL S-3

CADD FILE: sewer/3223/2008-ConstructionDetails/S-3.dgn

CITY OF WATERLOO

TYPICAL WATER MAIN CONSTRUCTION DETAILS



SINGLE METER PIT INSTALLATION

QTY.	ITEM#	DESCRIPTION
1	H10810-09	20 x 11 SINGLE HOLE TOUCH READ LID ASSY. LARGE NUT (MUELLER)
1		20 x 36 MID STATES PLASTIC METER TILE
1	B2404 (1")	1" x 12" METER YOKE WITH BALL VALVE
2	H14222 (1")	1" TP & NUT

DOUBLE METER PIT INSTALLATION

QTY.	ITEM#	DESCRIPTION
1	H10810-10	20 x 11 SINGLE HOLE TOUCH READ LID ASSY. LARGE NUT (MUELLER)
1		24 x 36 MID STATES PLASTIC METER TILE
1		24 x 20 ADAPTER RING
1	B2404 (1")	1" x 12" METER YOKE WITH BALL VALVE
2	H14222 (1")	1" TP & NUT

NOTES:

1. WATER METERS SHALL BE 3/4" x 1" SENSUS SR TRPL 100 GALLON, 4WHL 5B, ROCKSYN CHAMBER CAST IRON BOTTOM, 6' SENSOR, & TBH PKG.
2. THE CITY OF WATERLOO USES MUELLER PRODUCTS AND CAN NOT ACCEPT SUBSTITUTIONS.
3. 3/4" WATER METERS WITH TOUCH READ WILL BE SUPPLIED AFTER THE PIT IS INSTALLED AND INSPECTED BY THE CITY.
4. WATER METERS WITH TOUCH READ LARGER THAN 3/4" SHALL BE SUPPLIED BY THE BUILDER OR CONTRACTOR AT HIS EXPENSE.

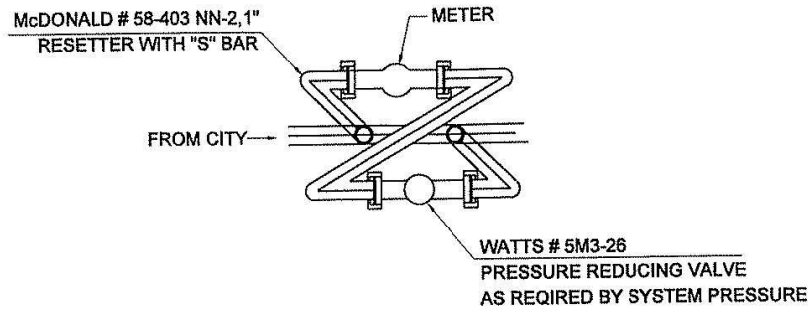
**RESIDENTIAL
WATER SERVICE
INSTALLATION
TYPICAL PRESSURES**

DETAIL W-6

CADD FILE: server\22232008-Construction\Details\WATS\TD4.dgn

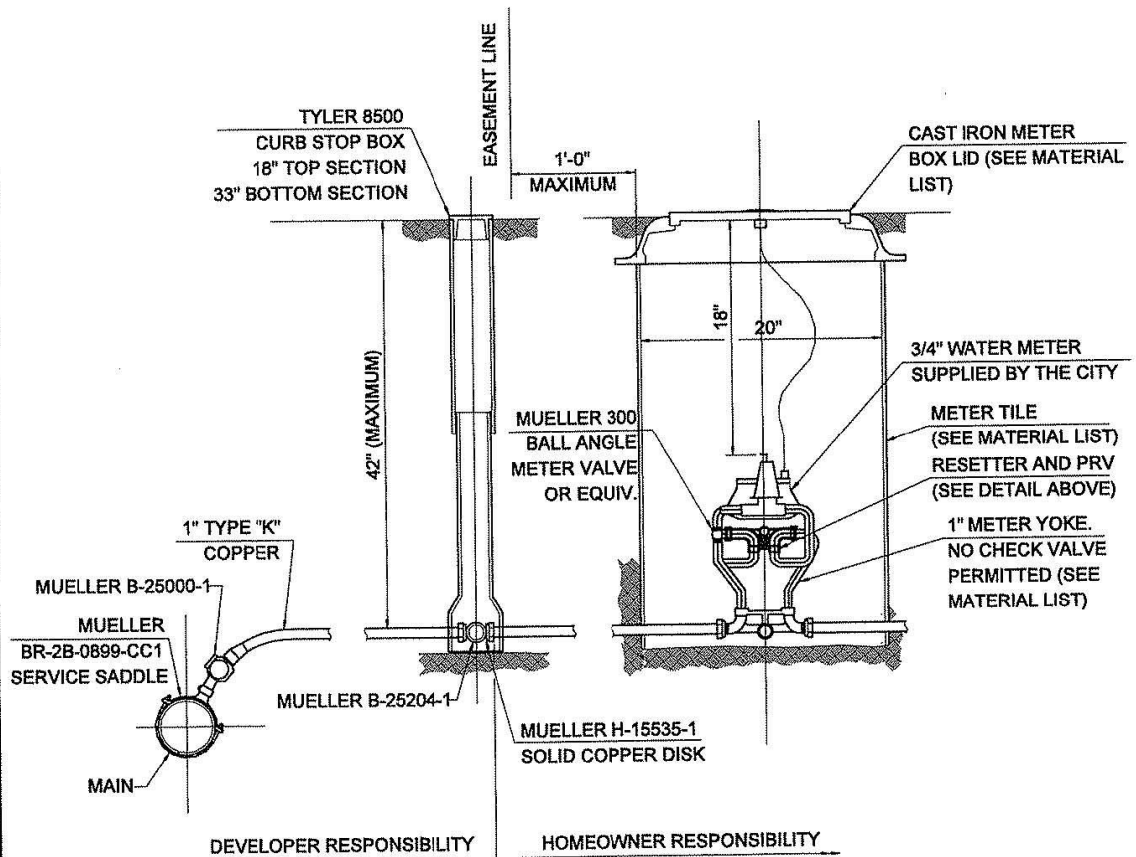
CITY OF WATERLOO

TYPICAL WATER MAIN CONSTRUCTION DETAILS



RESETTER/PRV DETAIL

NOTE: HOMEOWNER TO PROVIDE AND INSTALL
RESETTER AND PRESSURE REDUCING VALVE (PRV)
PROPERTY OWNER MAY INSTALL VALVE ASSEMBLY
INSIDE HOUSE OR INSIDE METER PIT.



CADD FILE: server/323/2009-ConstructionDetails/W-7.dgn

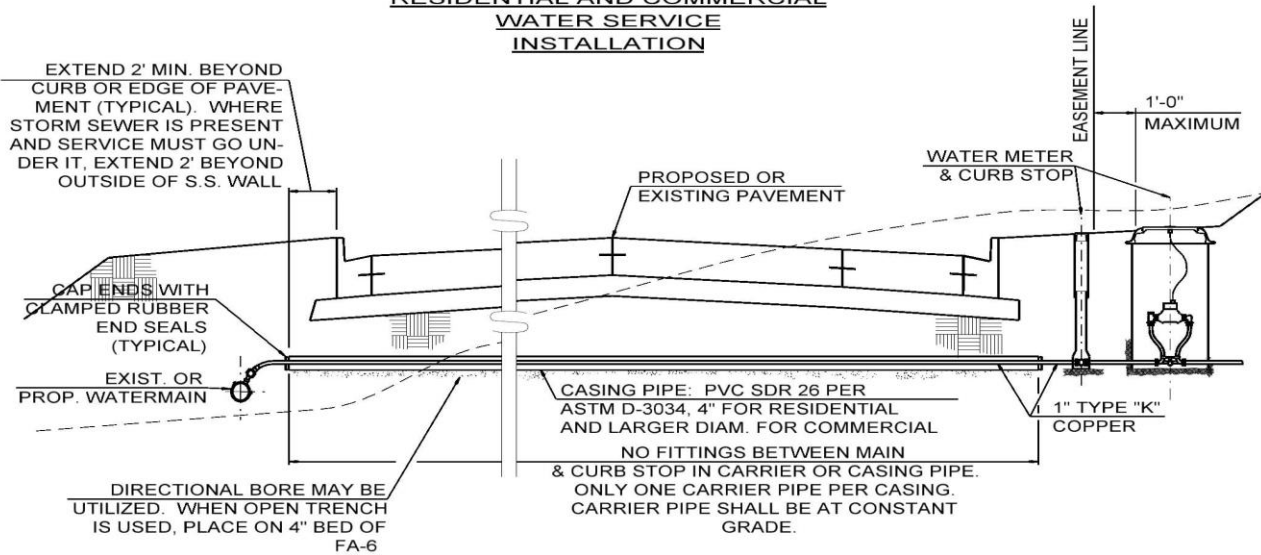
- NOTES:**
1. WATER METERS SHALL BE 3/4" x 1" SENSUS SR TRPL 100 GALLON, 4WHL 5B, ROCKSYN CHAMBER CAST IRON BOTTOM, 6" SENSOR, & TBH PKG.

**RESIDENTIAL
WATER SERVICE
INSTALLATION
HIGH PRESSURES**

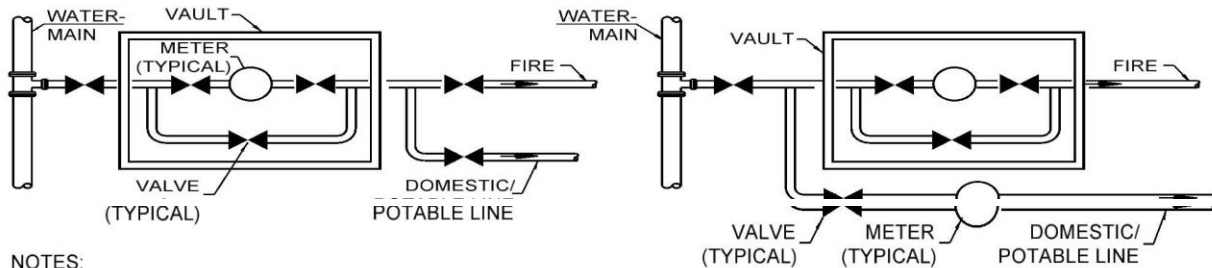
DETAIL W-7

CITY OF WATERLOO
TYPICAL WATER MAIN CONSTRUCTION DETAILS

RESIDENTIAL AND COMMERCIAL
WATER SERVICE
INSTALLATION



TYPICAL COMMERCIAL
INSTALLATION



NOTES:

1. DUE TO NATURE OF COMMERCIAL SERVICES, THE DESIGN OF COMMERCIAL INSTALLATIONS SHALL BE APPROVED ON AN INDIVIDUAL BASIS BY THE DIRECTOR OF PUBLIC WORKS.
2. FOR FACILITIES SUCH AS IRRIGATION, SWIMMING POOLS, BOOSTER PUMPS, AND COMMERCIAL INSTALLATIONS, SEE CITY WATER CODE, CHAPTER 38 FOR BACKFLOW PREVENTION REQUIREMENTS.
3. ALL COMMERCIAL WATER METERS SHALL BE SENSUS TOUCH READ METERS. DOMESTIC METERS SHALL BE iPERL FOR 1" AND SMALLER SERVICES AND OMNI C2 FOR 1" AND LARGER SERVICES. FIRE METERS SHALL BE OMNI C2.
4. IF OWNER WISHES TO INSTALL METERS IN BUILDING, 1" THRU WALL CONDUIT SHALL BE INSTALLED FOR INSTALLATION OF TOUCH READ ASSEMBLIES, TO THE FACE OF THE BUILDING.
5. TOUCH READ ASSEMBLIES SHALL BE INSTALLED ON THE LID OF THE VAULT, THE LID OF THE METER PIT, OR THE FACE OF THE BUILDING. LOCATION MUST BE APPROVED BY THE CITY PRIOR TO INSTALLATION.
6. ALL INSTALLATIONS SHALL MEET ILLINOIS PLUMBING CODE.

WATER SERVICE
INSTALLATIONS

DETAIL W-8

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