

City of Wadsworth
BUILDING PERMIT AND INSPECTION GUIDELINES
One, Two, and Three Family Dwellings

Where To Call For Building And Utility Inspections:

Building, HVAC, and ALL Electrical Inspections,	330-335-2753
Sanitary / Stom Sewer-Engineering Dept,	330-335-2751
Grading, Sidewalk/ Driveway Apron.....	330-335-2751
Waterline Inspection/ Meters.....	330-335-2831
Wadsworth Communications/Cable Service Installation... 	330-335-2888
Wadsworth Electric Service Connections, Toby Blake.....	330-335-2838
Plumbing inspections - Medina County Health Dept.	336-4136, or 723-9523

Questions Relating To Zoning And Building Procedures Should Be Directed To:

Jeff Kaiser, Planning Director	330-335-2752
Kevin Hall, Building Official	330-335-2780
Jennifer Stefl, Administrative Assistant.	330-335-2753

Other Utility Information *

OUPS – Call Before You Dig.....	1-800-362-2764
Dominion Gas	1-800-362-7557
Frontier Communications (Telephone)	1-877-483-4000
Wadsworth Utility Service/ Billing	330-335-2700

**Utility locations available at City Engineering Dept.. Permanent utility service will not be established in resident's name until Final Occupancy Permit is granted.*

The City of Wadsworth Building Department is located at 120 Maple Street, in downtown Wadsworth . Business hours are Monday through Friday from 7:30 a.m. to 4:30 p.m. The City of Wadsworth Building and Planning Departments administer building and zoning code regulations for 1, 2 and 3 family dwellings. Zoning permits are also issued for multi-family and non-residential uses.

Building and Zoning permits are issued after review of plans and applications and after engineering approval of any required grading plans. Certain inspections are required throughout the construction process.

REQUIRED BUILDING PERMIT AND INSPECTION PROCEDURES
On the following pages is a schedule of the procedures required for all new construction, additions, alterations, and decks.

I. ZONING AND BUILDING PERMIT APPLICATION

Step 1): Engineering Dept. Requirements - A residential lot grading plan and application must be submitted and approved by the Engineering Department prior to requesting zoning approval for new home construction. Grading fees as well as sanitary sewer and street opening permit fees will also be collected at that time.

- The application and additional information is available at the Engineering Department (330-335-2751), or at the Engineering Dept. web page at www.wadsworthcity.com .
- Check for deferred assessments with Engineering Department.
- Check for Underground Cables/Pipes with OUPS (1-800-362-2764).

Step 2): Zoning Application - Zoning approval from the City of Wadsworth Planning Department is required prior to the issuance of a building permit for projects that involve new construction, additions, or changes of use. The following items must be included with a building permit application:

- Grading plan approval for new home construction.
- Site Drawing/Plot Plan that includes:
 - Lot and construction project dimensions.
 - Location of existing structures.
 - Location of easements
 - Setbacks from property lines.

Step 3): Building Permit Requirements - Detailed building plans to scale, for review of all new homes, additions, garages, decks, retaining walls, or structural alterations, must be submitted with the Building Permit Application, and show how each building component will conform to the provisions of the Ohio Residential Code. An index is required for large plan sets. Also Required:

- Electrical plan layout, or a Systems Description Form, for all new homes.
- HVAC plan layout, or a Systems Description Form, for all new homes.
- Evidence of compliance with the Building Code energy conservation standards; or “RES-Check” (2009) Model Energy Code Worksheet (available at www.energycodes.gov).
- Submittal of the City of Wadsworth Subcontractor List.

Forms available at the Building Dept. or the Building Dept. web page at www.wadsworthcity.com.

⇒ BUILDING PLANS MUST INCLUDE THE FOLLOWING DETAILS:

Foundation - dimensions and reinforcement of foundation, type and spacing of sill plate anchors, height of fill, insulation, sump pump, size of beams and support spacing, direction and length of joists, furnace/appliance location(s), type, and method of furnace/hot water venting.

Floor plans - indicating room dimensions and usage, beams, size and direction of joists, wall bracing, window sizes and tempering, door sizes, attic access, appliances and plumbing fixtures,.

Cross Section / Details - detailed cross section indicating size and type of all structural members: foundation design incl. damp-proofing and drainage; floor, wall and roof framing and sheathing; insulation; siding and roof coverings. Detail of narrow shear wall bracing, i.e. garage door ends.

Elevations - show all views of structure.

Engineering - Manufactured structural members such as steel beams, microlams, or multi-ply beams, or joist or rafter spans exceeding the limits of the code span tables; or 13 course 8” block foundation walls, must have written engineered load capacity calculations available upon request by the Building Inspector.

⇒ **ELECTRICAL AND MECHANICAL** – Electrical and Mechanical drawings or a completed *Systems Description Form* describing the mechanical and electrical systems including: materials, type of fixtures and equipment; and sizes HVAC appliances and ductwork, efficiency rating, electrical service, and entrance cables is required. (Not required for minor additions using existing equipment.)

Electric Permit - Application for electrical permits will require the sizes of the service and entrance cables. All applicants for 100 amp service are required to submit approved load calculations.

Mechanical Permit- Application for HVAC permits will require the size and type of HVAC equipment. Sizing and ductwork installation must be per ACCA standards. Plans must show the location of heating, ventilation, and air conditioning appliances and vents, including dryer vent length and routing; and electrical service equipment location.

II. PERMITS ISSUANCE

After review and approval of plans and applications, and all fees paid, building, zoning and sanitary sewer connection permits will be issued.

No permits will be issued which do not have plans which comply with the above requirements and application materials. Persons obtaining permits are expected to pay required fees and are obligated to contact the Building Department for required inspections. See the attached fee schedule that is applicable for residential construction or call 330-335-2753 for more information. Permits may be purchased between 7:30am and 4:30p.m. weekdays.

Construction requiring new water service and/or temporary electric service must pay Water Tap-in and/or Temporary Electric fees at the Utility Department located on the first floor of City Hall - 330-335-2700. (See the Attached Fee Schedule).

III. BUILDING INSPECTION PROCEDURES

Building and Heating Inspections should be requested by 9:00 a.m. the day the inspection is needed by calling (330) 335-2753. Electrical inspections must be requested by 2:00 p.m. the day before the inspection is to be made. (Call by 2:00 p.m. Friday for a Monday inspection). You may also leave a message 24 hours a day on voice mail.

Following is a schedule of required building inspections for construction projects:

- 1) **Stake** - Determines if the proposed structure meets zoning requirements. The perimeter of proposed construction must be clearly marked by labeled stakes or paint. Property pins must be clearly visible. Street address and permit must be displayed. Engineering Department site requirements such as silt fencing must be in compliance.
- 2) **Temporary Electric** – Call Building Dept. for inspection.
- 3) **Footer** -Request after excavation and form completion, but before concrete placement. Soil bearing capacity, and size and depth of footers are inspected. Pole construction holes are inspected for width, depth, and location.
- 4) **Foundation** - Performed after completion. Workmanship, code and plan compliance, drainage, gravel, waterproofing, insulation, reinforcement, and sill plate anchoring bolts and straps are inspected.
- 5) **Rough Plumbing** - Inspected by Medina County Health Dept., 4800 Ledgewood Drive, Medina, Ohio. (330) 336-4136. Any part of plumbing or drainage system that will be covered is inspected.

- 6) **Rough Electrical** - Any part of electrical system that will be covered is inspected. *Inspection requests must be received by 2:00 P.M. the previous day of the inspection.*
Service Installation / Inspection:
- 1) Obtain an electric permit from the City Building Dept.
 - 2) Apply for service at the Utility Billing Office.
 - 3) Install the Service.
 - 4) Contact the Wadsworth Communications Department to install cable service wire.
 - 5) Request inspection from the City Building Dept.
 - 6) Building Dept. will notify the Electric Dept. that the service is approved for energizing.
 - 7) Backfill.
 - 8) Electric Dept. will energize.
- 7) **Rough Heating** - Venting systems and combustion air for fuel burning appliances, ducts, location of registers, and fireplaces will be checked. *Performed at the same time as the Rough Frame Inspection.*
- 8) **Rough Frame** - Performed *after* Plumbing and Electrical inspections are approved. All wood, steel, and masonry structural members, connectors, glazing, draftstopping, height, size, and clearance requirements, fireplaces, stairways, and wall bracing are inspected. Wall bracing anchors must be inspected before siding is applied. Deck framing is inspected before flooring and railings are installed.
- 9) **Insulation** - Performed after Rough Inspection approval, all insulating products will be inspected for R and U value requirements. Quality of workmanship, clearance to combustibles, fire and draft stopping, and ventilation of attics, rafters, and crawl spaces will be checked.
- 10) **Final Electric** - Performed at the completion of the electrical system. Power and lighting distribution, all electrical devices, outlets, fixtures, panels, and grounding are inspected. *Inspection requests must be received by 2:00 P.M. the day previous to the inspection day.*
- 11) **Final Plumbing** - Performed after the completion of all water supply, distribution, and sanitary drainage systems by the Medina County Health Dept.
- 12) **Final Heating** - Performed at the Final Building Inspection and after the installation of all heating, cooling and ventilation, to verify that appliances, ductwork, dampers, chimneys outlets, inlets, fans, coils and materials are in code compliance and manufactures' installation instructions. Fuel gas systems are inspected for compliance. Signed verification by the installer that fuel gas systems have passed approved pressure testing requirements is required.
- 13) **Final Building Inspection and Occupancy Permit** – Final building inspection is performed after electrical, plumbing, and any required engineering grading approval. *The final HVAC inspection is performed at the same time.* The inspection includes: house numbers, grading (foundation perimeter only), storm water drainage; exterior stairs, decks, vents, smoke detectors, access panels, railings, glazing, protection against decay, and completion of all components of the dwelling, as they relate to code compliance. An energy compliance sticker must be on electric panel. A certificate indicating final building inspection approval is issued and must be obtained prior to occupancy of the structure.

Builders Checklist - To Help Your Project Run Smoothly...

- Read the plan review for the approved plans and any attachments, such as wall bracing requirements, masonry fireplaces, etc., and build accordingly. Call the Building Official with any questions at 330-335-2780.
- Supply any additional information required on plan review such as beam specifications, before construction.
- Completed electrical and HVAC Systems Description forms (available at the Building Department) are required before those permits are issued.
- Post the address (in 6" bright numbers) and the Building Permit in a visible location.
- Obtain stake (setback) inspection approval before any excavation.
- Follow erosion control requirements of the erosion control checklist such as silt fence installation, shown on the approved grading plans. Install silt fencing prior to footer inspection.
- Obtain electric permits and temporary electric inspections from the Building Department (330-335-2753). Apply for electric and water service at the Utility Dept. Also obtain approval from the Wadsworth Communications Dept. for cable installation prior to backfilling the service trench (330-335-2888).
- Leave a copy of the approved plans, plan reviews and truss drawings on site.
- Request all Building and HVAC inspections (performed at the same time) by 9:00 a.m. the day of the inspection.
- Request Electrical inspections by 2:00 p.m. the day prior to the inspection.
- Request wall bracing (strapping) inspections before siding is installed, unless otherwise approved.
- Attach a 2009 IECC Energy Certificate to the Electric Panel prior to Final Building Inspection.
- Contact the Engineering Dept. prior to Final Occupancy Request, for grading inspection approval. 330-335-2751.

***CITY OF WADSWORTH BUILDING DEPARTMENT
330-335-2753***

RESIDENTIAL CONSTRUCTION PERMIT FEES
CITY OF WADSWORTH 330-335-2753

• Zoning Certificate	⇒ \$ 25.00
• Sanitary Capacity and Tap Fee	⇒ \$1800.00
• Sewer/Street Opening Permit	⇒ \$ 20.00
• Engineering Lot Grading Review Fees	⇒ \$ 155.00
• Recreation Acquisition Fee – (Often Paid by Developer)	⇒ \$ 400.00
• Recreation Development Fee	⇒ \$ 500.00
• Electric Service- Utility Department.	⇒ 330-335-2700
• Water Tap-In Capacity Fee – Engineering Department	⇒ 330-335-2751

Construction Permit Fees Ord.07-106

<u>Building</u>	
• New Home Construction	⇒ \$100.00+.15 per sq.ft.
• Additions, Accessory Structures (Garages)	⇒ \$50.00 +.15 per sq.ft.
• Alterations, Repairs, Decks, Roofing, Siding, Misc.	⇒ \$50.00
• Basement Remodel	⇒ \$50.00
• Demolition	⇒ \$50.00
<u>Electric (PER DWELLING UNIT)</u>	
• New Construction - Single Family Homes	⇒ \$75.00+.05 per sq.ft.
• Additions, Garages, Accessory Structures (New Service)	⇒ \$75.00+.05 per sq.ft.
• Additions, Garages, Accessory Structures (No Service)	⇒ \$50.00+.05 per sq.ft.
• Service Change and/or Entrance, Meter Socket	⇒ \$50.00
• Service Change + Appliance Wiring (5 Receptacles)	⇒ \$75.00
• Re-wire More than 5 Receptacles With/Without Service	⇒ \$50.00+.05 per sq.ft.
• Misc. Wiring 5 or Less Receptacles (No Service)	⇒ \$50.00
• Basement Remodel	⇒ \$75.00
• AC/Water Heater/Range/Dryer –Circuit Wiring (5)	⇒ \$50.00
• Swimming Pools, Hot Tubs & Spas	⇒ \$50.00
• Electric Heat Add On or Replacement	⇒ \$50.00
• Solar Panels (Photovoltaic)	⇒ \$50.00
• Special Inspections	⇒ \$50.00
<u>Heating (PER DWELLING UNIT)</u>	
• All New Construction Involving HVAC Work. (Base Fee - Includes 1 Furnace, AC, and Ductwork)	⇒ \$50.00 +.05 per sq.ft.
• Additional Furnace, AC, Chimney or Wood Stove	⇒ \$25.00
• Furnace and/or A/C Replacement	⇒ \$50.00
<hr/>	
<u>All Re-Inspections / Special Inspections</u>	⇒ \$50.00

City of Wadsworth Construction Subcontractor List

Date _____

Type of Construction: New Construction

Construction Address _____

Addition

Cost of Construction _____

TYPE	NAME	ADDRESS	PHONE
General			
Surveyor			
Excavation			
Grading			
Masonry			
Exterior Stone Veneer			
Poured Concrete Wall			
Concrete Flatwork			
Waterproofing			
Framing			
Deck Construction			
Trim Carpentry			
Counter Tops			
Fireplace Installer			
Roofing			
Siding			
Spouting			
HVAC			
Plumbing			
Electrical			
Insulating			
Drywall			
Security			
Audio Systems/ Cable			
Flooring Vinyl			
Flooring Tile			
Carpeting			
Closet Shelving			
Shower Doors			
Painting			
Landscaping			
Cleaning			

Systems Description Form

City of Wadsworth Building Department

Address: _____ Contractor/Owner: _____

Work Type: New Replacement

Electrical System – Fill in Required Information and the Appropriate Boxes

Service Size			Service Rating	Service Type	
<u>Copper</u>	<u>Aluminum</u>				
<input type="checkbox"/> 4 AWG	2 AWG		*100 Amps	<input type="checkbox"/> Underground	<input type="checkbox"/> Overhead
<input type="checkbox"/> 1 AWG	2/0 AWG		150 Amps	<u>Panel Location</u>	
<input type="checkbox"/> 2/0 AWG	4/0 AWG		200 Amps	<input type="checkbox"/> Basement	<input type="checkbox"/> Garage Other _____

* Requires Completed Load Calculation Form.

Grounding Electrode Conductor Size _____ Copper Aluminum

The Appropriate Boxes Below:

NEC 250.50 All grounding electrodes that are present at each building or structure served shall be bonded together to form the grounding electrode system. NEC 250.52 Permitted electrodes include:
 1. Metal underground water pipe in direct contact with earth 10' or more. 2. Metal frame of the building.
 3. Concrete encased electrode. 4. Rod, pipe and plate electrodes.

NEC 210.00 and 422.12 In addition to the branch circuits installed to supply general illumination and receptacle outlets, the following minimum circuits will be supplied: Two 20-amp circuits for the kitchen receptacles, one twenty amp circuit for the laundry receptacle, one 20-amp circuit for the bathroom receptacle, and one branch circuit for heating equipment.

NEC 210.52 In habitable rooms generally no point measured horizontally along the floor line in any wall space is more than 6' from a receptacle outlet. A receptacle shall be installed in each wall space 2' or more in width.

NEC 210.52 At kitchen countertops, receptacle outlets shall be installed so that no point along the wall line is more than 24" horizontally from a receptacle outlet in that space. Countertop spaces separated by range tops, sinks or refrigerators are separate spaces.

NEC 210.70 Switched lighting outlets shall be installed in all habitable rooms, bathrooms, hallways, stairways, garages and outside exterior doors, Switch controlled outlets may be substituted in other than kitchens and baths.

NEC 210.12 At least one receptacle, accessible at grade level and no more than 6.5' above grade shall be installed at the front and the back of a dwelling.

NEC 210.12 All 120 volt, 15 and 20amp branch circuits in bedrooms shall be protected by an AFCI device.

NEC 210.8 GFCI protection shall be provide for all 120 volt, 15 and 20amp receptacles installed outdoors, in garages, unfinished accessory buildings, crawl spaces at or below grade level, unfinished basements, bathrooms, at kitchen countertops and within 6' of the outside edge of the sink in laundry rooms, utility rooms and wet bars.

Heating, Ventilating, Air Conditioning - Fill in Information and the Appropriate Boxes

Furnace Type _____	Square Feet of Conditioned Space _____
Furnace Size _____ BTU'S	Duct Size (Supply/Return) _____
Furnace Efficiency Rating _____	Furnace Location _____

The Appropriate Boxes Below:

Heating and cooling equipment shall be installed in accordance with the manufacturer's installation instructions and the requirements of the Residential Code.

Ductwork (including supply and RA opening locations) shall conform to ACCA manual D specifications.

All ductwork connections and filter compartments shall be sealed with approved tapes/mastics.

Heating and cooling equipment shall be sized in accordance with ACCA Manual J or other approved method.

All direct vent terminations shall maintain a minimum 12" to building openings. Non-direct vent (no intake air) appliance vents shall maintain 48" to same. Roof vents shall conform to manufacturer's specifications.

All connectors shall maintain ¼" per foot rise, be supported per manufacture's instructions, and maintain required clearances to combustibles.

All vents and connectors shall be sized in accordance with the manufacturer's instructions and the Bldg Code.

Submitted By _____

Date _____

Electric Service Requirements

Wadsworth Municipal Electric Department

Service will not be connected until all requirements are met!

General Requirements

- To ensure the safety of Electric Department personnel, no new service will be connected if back-fed from the temporary service. If power is needed for furnace, etc. It shall be isolated from the service panel. After new service is connected and temporary service is disconnected the customer/contractor can connect any isolated devices to the service panel.
- The Electric Department shall be notified before any meter seal is broken, except for emergency repairs, in which case the Electric Department shall be notified the next working day. **Failure to do so may result in prosecution under Ohio's meter tampering law.**
- Residential electrical work within Wadsworth's corporation limits shall be done by an electrical contractor registered with the city of Wadsworth. Non-residential work, and residential work outside of the City, shall be performed by contractors registered with the Medina County Building Department. Homeowner may do electrical work on a single-family dwelling that they will live in for at least one year. The necessary permits must be obtained before any work begins.
- **The electrical inspection certificate must be received by the City Billing Office within 30 days of a service change or repair in order for service to continue uninterrupted. Services which have not been inspected within 30 days will be disconnected.**
- All meter sockets shall be furnished by the Wadsworth Electric Department for installation by the customer/contractor after the necessary permits are obtained. No wiring shall be installed through the back of any meter. If a meter socket from another source is installed without the permission of the Wadsworth Electric Department, the owner/contractor shall be required to replace it with an approved socket. **Call the Electric Department at 335-2838 or 335-2833 1 day before meter pick-up at 365 Broad Street.**
- The meter must be accessible at all times. If access is blocked by any obstruction such as an enclosed porch, fence, building addition etc., the meter must be moved at the customer's expense within 30days to maintain electrical service to the premises.

Temporary Service

- No temporary service will be connected until application for service has been made at the City of Wadsworth Billing Office in City Hall, located at 120 Maple Street.
- To obtain an electric permit or request a temporary residential service inspection (within the City), call the Building Department at 335-2753. No temporary service will be connected until notification of inspection approval has been received by the Electric Department. **All underground temporary installations should be installed 5 feet behind, (on the house side) of any transformer or secondary pedestal.** Temporary service which will serve a job trailer, other non-residential structures, or residential work outside of the City must be have permits and inspections from the County- (330) 336-6657. Overhead/temporary service should be no more than 75' from the proposed point of temporary attachment to existing facilities. If there are questions concerning the location for temporary service, call (330) 335-2827.
 1. Obtain an electric permit (from the City Building Dept.- (residential), or Medina Co. Bldg. Dept. - (commercial); or a completed New Service Application from The Utility Billing Office for residential work).
 2. Apply for service at the Utility Billing Office (if not already done).
 3. Install temporary.
 4. Request Inspection from the City Building Dept. (Medina Co. Bldg. if non-residential or outside City limits).
 5. Building Depts. will notify the Electric Dept. that temporary is approved for energizing.
 6. Electric Dept. will inspect for compliance with their regulations, and if approved, energize.

Continued on Back

Underground Service

- All underground services shall be installed in conduit from point of utility connection to the line side of the meter socket in a trench with a minimum depth of 24".
- **Applicant must contact Wadsworth Communications at (330) 335-2888 when the trench is opened so that cable service wire can be installed.**
- **Service trenches shall not be backfilled until inspected by the City of Wadsworth Building Department (residential), or the Medina County Building Department (non-residential and residential outside of the City), and Wadsworth cable has been installed. For in City residential inspections call the City Building Department to schedule at 330-335-2753). For all others call Medina County at 330-336-6657.**
- **Services which are backfilled without inspection approval and Wadsworth communications installation shall be uncovered at customer/contractor expense.**
- Service conduit shall be installed into a utility pull box or transformer by the customer/contractor. Call the Electric Department at 335-2837 or 335-2833 to have the pull box or transformer opened for such installations. The service neutral conductor shall be clearly identified for utility connection. When cutting conductors in utility pull boxes, leave a minimum of 24" so that proper connections can be made.
- When service conductors are paralleled, matching phase and neutral conductors must be clearly identified.
- Where underground service is supplied from a utility pole, conduit shall be installed by the customer/contractor on 4" minimum standoffs at intervals no less than six feet, with the weatherhead within 12" of utility secondary.
- On three-phase underground services the contractor is responsible for supplying and installing the secondary terminations on the transformer.
- Underground meter sockets shall be installed 4'-6' above final grade.
 1. Obtain an electric permit (from the City Building Dept. or Medina Co.)
 2. Apply for service at the Utility Billing Office.
 3. Install the Service.
 4. Contact the Wadsworth Communications Department to install cable service wire.
 5. Request inspection from the City Building Dept. (Medina Co. Bldg. if non-residential or outside City limits).
 6. Building Depts. will notify the Electric Dept. that the service is approved for energizing.
 7. Backfill.
 8. Electric Dept. will energize.

Overhead Service

- Service drop deadends (house knob or clevis) to be installed by customer/contractor on all new services or service changes requiring the relocation of an existing deadend, **must** be installed in **solid** wood.
- Service weatherheads shall be installed at a height which will allow a minimum ground clearance of 12' on the utility service drop. More may be required in some situations. Consult the Electric Department with any questions.
- Where a service mast is required, it shall be 2" id conduit or greater. If smaller conduit is used the Electric Department will require that it be replaced at customer/contractor expense.
- 24" minimum of service conductor shall be left at weatherhead for utility connection.
- Overhead meter sockets shall be installed between 4' and 6' above **final** grade.

RESIDENTIAL ELECTRICAL LOAD CALCULATION

City of Wadsworth

Address _____ Date _____
Prepared by _____ Owner Contractor

General Lighting Load _____ Sq. Ft.* x 3VA = _____ VA

**Must include all floor area with the potential to be finished such as full height basements or attics.*

Small Appliance Circuits _____ x 1500 VA (minimum 2) = _____ VA

Laundry Circuit(s) _____ x 1500 VA (minimum 1) = _____ VA

Total General Load **General Load Sub Total (A) = _____ VA**

Fixed Appliances – 100% of Nameplate Rating or Given Ratings:

Dishwasher _____ VA or: 1200 VA = _____ VA

Disposal _____ VA or: 1000 VA = _____ VA

Microwave _____ VA or: 1800 VA = _____ VA

Dryer _____ VA or: 5000 VA = _____ VA

Water Heater _____ VA or: 4500 VA = _____ VA

Range _____ VA 8000 VA = _____ VA

Sump Pump _____ VA 900 VA = _____ VA

Oven (Additional) _____ VA _____ VA = _____ VA

Other _____ VA = _____ VA

Appliance Sub Total (B) = _____ VA

General Load and Appliance Total A + B = (C) = _____ VA

Demand Factor. First 10,000 VA of (C) @ 100% = (D) 10,000 VA

Remainder (C) – (D) = _____ VA

Remainder x 40% (.40) (E) = _____ VA

Heating and Air Conditioning Loads

Air Conditioning _____ Amps x 240 Volts = _____ VA

Furnace (gas) _____ VA or: 1000 VA = _____ VA

Central Electric _____ VA or: 25000 VA = _____ VA

Thermal Storage and Continuous Systems = _____ VA

Heat Pump 100% + Supplemental Central Electric x 65% = _____ VA

Elec Space Heating Units (less than 4) _____ VA x 65% = _____ VA

Elec Space Heating Units (more than 4) _____ VA x 40% = _____ VA

Add Largest Heating or Cooling Load (Choose 1) + (F) = _____ VA

Total VA for Dwelling - (D) + (E) + (F) = _____ VA

+ 240 Volts

Minimum Ampacity for Ungrounded Service Conductors. = _____ Amps

Minimum Service Size = _____ Amps

Copper Piping Installation Recommendations

The City of Wadsworth Building Department wishes to notify all contractors and property owners involved in plumbing replacement or new construction that a problem may exist associated with pinholes developing in copper piping. Some may appear in a short time period after installation (1-5 years).

The failure or appearance of pinhole leaks may be due to many factors or combination of factors including:

- Low quality or low grade copper piping.
- Electrolysis created through dissimilar metals touching, stray electrical currents, or pipe to soil electrical potential.
- Oxygen cell corrosion caused by a particular combination of high oxygen content, chloride, foreign particles in the affected piping, and lack of water movement.

As a result of testing conducted on installed piping with this corrosion condition, some consistent factors regarding the location of the pinholes were determined:

- This condition is more prevalent in relatively newer homes.
- Most leaks occur in horizontal ¾ inch copper lines in basements.
- More leaks are in the cold water lines.
- Corrosion begins under a small piece of debris or foreign material inside the pipe.

Since the actual cause of the potential problem has not been determined, the City Building Department suggests using plastic piping as permitted by the Ohio Plumbing Code and the Medina Health Department. If copper is used in new construction or replacement, please follow these recommendations:

- Use a heavy grade of piping such as "L".
- Remove all burrs and blow out pipes to remove all debris.
- Thoroughly flush out the pipe after installation by running water at maximum flow rate in every branch line.
- In new homes not yet occupied, flush the pipe each day for 5 days.

Any questions relating to these recommendations should be directed to the City of Wadsworth Water Treatment Department (330-335-3002), located at 365 ½ Broad Street, Wadsworth, Ohio 44281.

NOTES:

1. THE CONTRACTOR SHALL ALERT THE UTILITIES PROTECTION SERVICE AT 1-800-362-2764 AT LEAST 48 HOURS BEFORE ANY EXCAVATING IS INITIATED.
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEERING DEPT. 24 HOURS PRIOR TO INSPECTION. TO SCHEDULE AN INSPECTION CALL THE ENGINEERING SECRETARY AT 330-335-2751. FOR QUESTIONS CALL THE ENGINEERING SERVICES SUPERVISOR AT 330-335-2740.
3. NEW SANITARY AND STORM LATERAL PIPING:
 - A. SHALL BE CONSTRUCTED OF PVC, ASTM D3034, SDR-35, WITH RUBBER GASKETED JOINTS IN ACCORDANCE WITH ASTM D3212.
 - B. SHALL BE A MINIMUM OF 6 IN. DIAMETER AND MAINTAIN A 1% SLOPE TOWARDS THE MAIN, UNLESS APPROVED BY THE CITY ENGINEER.
 - C. ALL JOINTS SHALL BE BELL AND GASKETED AND LUBRICATED WITH MANUFACTURERS APPROVED LUBRICANT.
 - D. PVC BENDS ARE ALLOWABLE UP TO AN ANGLE OF 45° AND MAY BE USED AT THE POINT OF TIE-IN TO DECREASE LATERAL DEPTH.
4. CUT-IN CONNECTIONS MADE TO EXISTING CLAY SEWER PIPE SHALL USE A PVC 6 IN. WYE WITH FERNCO CONNECTORS.
5. LATERALS INSTALLED IN MAINS GREATER THAN 8 IN SANITARY AND 12 IN. STORM SHALL BE CORED AND CONNECTED WITH AN INSERTA TEE® OR APPROVED EQUAL.
6. ANY TIE-IN TO AN EXISTING CLAY LATERAL SHALL BE VIDEO TAPED FROM THE END OF THE EXISTING LATERAL TO THE MAIN. THE VIDEO SHALL BE REVIEWED AND THE LATERAL APPROVED BY THE CITY ENGINEER BEFORE THE CONNECTION IS MADE.
7. BEDDING OF SANITARY AND STORM LATERALS SHALL BE AT LEAST 6 IN. DEEP AND MAY CONSIST OF EITHER WASHED GRAVEL OR GRADED LIMESTONE SIZE #8 UP TO #57. INITIAL BACKFILL SHALL HAVE AT LEAST 6 IN. OF COVER WITH GRANULAR MATERIAL AND AT LEAST 3 FT. OF TOTAL COVER.
8. PIPE INSTALLED UNDER EXISTING OR PROPOSED PAVEMENT SHALL BE INSPECTED BY THE CITY OF WADSWORTH ENGINEERING DEPT. PRIOR TO INSTALLATION. BACKFILL USED IN THIS AREA SHALL ALSO BE APPROVED BY THE ENGINEERING DEPT.
9. SANITARY 6 IN. LATERALS SHALL END 3-5 FT. FROM THE FOUNDATION AND FINAL CONNECTION SHALL BE INSTALLED PER MEDINA COUNTY STANDARDS. STORM LATERALS SHALL BE RUN TO WITHIN 5 FT. OF THE FOUNDATION, PLUGGED AND MARKED WITH A 4X4 WITNESS STAKE.
10. ALL PIPE TRENCHES AND TIE-INS SHALL BE LEFT UNCOVERED UNTIL INSPECTED BY THE CITY OF WADSWORTH ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
11. ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.



All new water service lines shall be at least 1 in. Type k copper. Depth of lines after final grade shall be 48 in. Min. To 60 in. Max. All fittings shall be the compression type and are as follows: Corporation Stop: Ford fb1000-size-q, curb valve: Mueller b-25209 or Ford b44-size-q, service line couplings: Mueller 3 part union-h-15403 or Ford c44-size-q. All water service lines shall be inspected and tested prior to backfilling. Backfill shall contain no stone larger than #57 limestone.

New water services will require a line hydrostatic test of 200 psi for duration of 5 min. All fittings and copper lines will be exposed for inspection. Site will be at final grade or staking may be required to determine depth of cover. At no time will an approval be given with out following this procedure. Requests for inspection shall be made, one working day prior to being ready to the utility office at city hall at customer service at 330-335-2700 or the meter service department at 330-335-2831.

All new curb boxes shall be Tyler-Buffalo 6500, 95e or equal and risers will not be allowed. The curb boxes shall rest on a concrete block or bricks, and not on the curb valve or the copper water line. The location of new curb boxes will not be in the sidewalk or closer than one foot to the sidewalk.

The meter location shall be such so the meter is readily available for maintenance, replacement, and reading. All new services are required to have a remote reader which requires a wire from the meter to remote reader location. It is recommended the remote reader be located near the electric meter; however the water department may suggest another location. This wire can be installed prior to finishing avoiding drilling through finished walls by calling the utility office at 330-335-2700 or the meter service department at 330-335-2831 one working day prior to being ready.

Meter settings and backflow devices will be determined by the utility office or contact meter service department.

Metered construction water is available by request only by the utility office.

Unmetered construction water is available for a period not to exceed six (6) months. This water is to be used strictly for construction purposes. Any use of unmetered water for other than construction (i.e. lawn watering) shall cause the service to be disconnected until estimated water use is paid for and a water meter installed. Final building inspection is completed and passed. Occupancy prior to final inspection and passage and water meter installation is prohibited.

Curb stops (valves) are to be operated only by authorized city personnel. The final acceptance of the curb stops will be after the final grading, seeding and sidewalk and the water department is satisfied with the pressure test, depth, relationship to the street centerline and the sidewalk, and their water key can easily get on the line valve within a vertical valve box. Any damage to curb boxes and stops prior to final acceptance is the responsibility of the contractor/property owner. No permanent service will be established or meter set unless the curb stop is accepted, accessible, operational, and all fees pertaining to the water service are paid. See plans for additional information (if applicable).

Any questions are to be directed to the Utility Office at City Hall, 120 Maple Street, Wadsworth, Ohio 44281 (utility office at 330-335-2700 or Meter Service Department at 330-335-2831).



**CITY OF
WADSWORTH**
SINCE 1914
ENGINEERING 330-335-2751

NEW RESIDENTIAL WATER SERVICES

WAT-07

METER SERVICE DEPT. REGULATIONS

07/07