



Village of Woodridge

Community Development Department • Five Plaza Drive • Woodridge, IL 60517-5014
(630) 719-4750 • FAX (630) 719-2900

CODES ADOPTED BY THE VILLAGE OF WOODRIDGE:

2021 International Residential Code	2021 International Building Code
2020 National Electric Code	2014 State of Illinois Plumbing Code
2021 International Mechanical Code	2021 International Fire Code
2021 Illinois / International Energy Conservation Code	2018 Illinois Accessibility Code
2021 International Property Maintenance	Minimum Security Code
DuPage County Countywide Stormwater & Flood Ordinance	Village of Woodridge Local Amendments

Swimming Pool / Hot Tub Installation Guide

The Village of Woodridge requires a Building Permit for the installation of a Swimming Pool or Hot Tub.

This handout is a basic guideline of the information needed to apply for and obtain the Permit to install a Swimming Pool/Spa/Hot Tub at residential properties. Some of the following elements may or may not be required for every project depending on the type of pool and the scope of work involved. For example, if a new above ground pool is to be installed and a deck built to provide access to the pool then details are needed on the deck construction and the pool installation. Note that incomplete submittals will be rejected.

Where applicable, see the individual Village handouts regarding requirements for contractors, decks, patios, fencing and pavement, etc.

Information Required for Swimming Pool / Spa / Hot Tub Permit – Plan Submittal Documents:

- Completed Permit Application (a blank application is located at the very end of this document).
 - Provide a list of all contractors to be used & include their contact information on the permit application.
 - The use of a Licensed Electrician is highly recommended.
- Provide two (2) copies of the Plat-of-Survey (to Scale indicated on the Plat) identifying the proposed location of the Pool, with all pertinent details and dimensions, of the pool/spa structure, associated pool equipment such as pumps, heaters and power operated pool covers, fencing with location of gates, indicate the swing pattern of gates, structures existing on site or to be built including buildings, decks, paved surfaces, garages, sheds, etc., electrical service power lines with distance from pool (for both underground and overhead services), easements, etc.
- Provide details of all new work to be done as part of the pool construction project such as: is it an above or in ground pool, pool material/structure, pool depth and/or height above ground, fencing with self closing gates shown, pool ladders, pavement or decks, plumbing connections to water supply or drainage systems, gas piping installation with details of piping material, gas shut off valves and gas supply location.
- Provide all electrical details of additions or modifications including pump/motor specifications, length of pump power cord, additional equipment such as pool lights, heaters and power operated pool covers, equipment disconnecting means, all new and existing receptacles on site with distances from the pool, type and size/ampacity of receptacles, GFCI protection of all equipment and receptacles, wiring method to be used to supply electrical power to pool equipment including depth of underground conduit, location of wiring/conduit with distance to pool, wire sizes, fuse/circuit breaker ampacity, bonding of pool structure and equipment, etc.
- The plan must be Signed/Sealed by an IL Licensed Design Professional when applying for a permit when a pool is proposed to be installed on a deck or addition.

J.U.L.I.E.:

Always call J.U.L.I.E. before Digging!! – Just Dial: “811” / <https://www.illinois1call.com/>

Zoning:

- Swimming pools and hot tubs are allowed in the buildable area or the required rear yards only, can be no closer than six (6) feet to any side or rear yard property line, and cannot be installed so that any part of pool or deck is within any easement.
- Any excess dirt generated during the project must be *hauled off site*, they cannot be redistributed onsite.

Barrier:

- Swimming pools and hot tubs less than forty eight inches (48") in height must be enclosed by a fence at least forty eight inches in height; additionally with self-closing, self-latching, and outward (away from pool) swinging gates. The fence, latch and gate must be constructed so as to provide an effective barrier to small children, in compliance with Section 305.2.1. Doors and gates in barriers shall comply with the requirements of Sections 305.3.1 through 305.3.3 of the 2021 ISPC and shall be equipped to accommodate a locking device. Pedestrian access doors and gates shall open outward away from the pool or spa, shall be self-closing and shall have a self-latching device. Structure as a Barrier wall (i.e. the wall of the house/adjacent structure) designs shall be in compliance with Section 305.4. An acceptable alternative to the fence/barrier would be a pool cover of rigid construction complying with ASTM F1346.
- Swimming pools and hot tubs over forty-eight inches (48") in height at *ALL* locations surrounding the pool/hot tub (measured three feet (3") out from pool edge) using the pool wall or spa structure as a barrier, and accessible only by ladder, must be provided with a readily removable ladder, or one which is designed to be made inaccessible. Note that if any portion of the pool is below the forty-eight inch (48") height (measured three feet (3") out from pool edge), a compliant barrier fence as briefly described in the paragraph above is required.

Electric for Swimming Pools / Spas / Hot Tubs, Etc.:

- ***The use of a Licensed Electrician is highly recommended.***
- Note that this handout is a guideline only. Additional requirements in the National Electrical Code (NEC), International Residential Code and International Building Code and Village of Woodridge amendments to these and other codes apply.
- Local Village Amendments to the NEC have restricted the wiring methods which may be used to supply outdoor and indoor pool and spa equipment. Outdoor wiring is to be done in rigid metal conduit (RMC) or intermediate metal conduit (IMC) with the exception that rigid nonmetallic conduit, liquid tight flexible metal or nonmetal conduit may be employed but only in restricted uses/locations.
- ANY receptacle within ten feet (10') of the inside walls of the pool shall be GFCI protected.
- All pool equipment receptacles and outdoor receptacles must be Ground-Fault Circuit Interrupter (GFCI) protected. Outdoor receptacles must be provided with "Weatherproof in use" covers.
- Lighting fixtures or lighting outlets shall not be installed over the pool, or an area five feet (5') wide surrounding the pool.
- Lighting fixtures and lighting outlets located within five feet to ten feet (5'-10') of the inside walls of the pool must be GFCI protected and rigidly attached to a permanent structure.
- All switches must be located at minimum five feet (5') away from the inside walls of the pool.
- No overhead wiring shall be allowed over the pool or within ten feet (10') horizontally of the pool.
- No underground wiring (except that serving the pool equipment) shall be located under the pool or within five feet (5') of the pool.
- Underground wiring may be direct burial cable (24" minimum depth), rigid plastic (PVC) conduit (18" minimum depth), or rigid steel or IMC conduit (6" minimum depth). If plastic conduit or direct burial is used, steel rigid conduit or IMC must be installed as protection, from the minimum burial depth, up to the point of termination above ground. i.e. *ALL* risers, and 90's need to be of either IMC or RMC.
(FYI burial depths are the top of the conduit or gas line after they have been placed in the trench; not to the bottom of the trench itself). Inspection needed before backfilling trench.

(Section Continued on Next Page)

- All metal parts of the pool, installed pool equipment including pumps, motors and heaters, metal water and drain piping, electrical conduit, fixed metal parts and concrete metal reinforcements shall be bonded together with a solid copper wire of a size no less than #8 AWG. Per NEC Article 680.26.
- When submitting, contractor/homeowner will need to submit a Scope of Work outlining:
 - Type of conduit?
 - Depth to be buried?
 - Distance from pool?
 - Bonding requirements Per NEC Article 680.6 and 680.7(B)?
 - Dedicated 20A circuit required that is GFCI protected?

Spas & Hot Tubs:

- All outside spas and hot tubs shall follow the same electrical requirements as swimming pools.
- For indoor spas all receptacles & switches shall be a minimum of five feet (5') from the inside walls of the tub. For outdoor spas, all receptacles must be a minimum of ten feet (10') from the inside walls of the tub.
- Any receptacle located within ten feet (10') of an indoor spa/hot tub must be Ground-Fault Circuit Interrupter (GFCI) protected. All washroom and all outdoor receptacles must be GFCI protected. Outdoor receptacles must be provided with "*Weatherproof In-Use*" covers.
- Receptacles that provide power to the tub must also be GFCI protected.
- Lighting fixtures and lighting outlets over or within five feet (5') horizontally of the tub must be at least seven feet, six inches (7'-6") (indoors) and twelve feet (12') (outdoors) above the maximum water level of the tub and must be GFCI protected.
- The metal parts of the tub, tub equipment, electrical conduit, and any metal surfaces and additional electrical devices or controls located within five feet (5') of the inside wall of the tub shall be bonded together with a solid copper wire of a size no less than #8 AWG.

Required Inspections:

Above-Ground Pool:

- Underground Electric (and plumbing if required for any gas line and tracer wire): See previous page for required burial depths.
- Rough: When equipment pad has been poured, the electrical box has been attached to the post and wire has been pulled (but before receptacle has been installed.) Bonding wire(s) are placed/installed.
- Final Construction & Final Electric (including Bonding), prior to putting the pool into use. When all equipment is in place, (including pump and heater) and all electric and all necessary bonding/grounding is complete. (If fence is required, fence will need to be installed completely with self-closing/latching gate and if the fence is within five feet (5') of the pool it will need to be grounded).

Required Inspections:

In-Ground Pool:

- Underground Electric (and plumbing if required for any gas line and tracer wire): See previous page for required burial depths. (FYI burial depths are to the top of the conduit or gas line after they have been placed in the trench, not to the bottom of the trench itself). Inspection needed before backfilling trench.
- Pre-Pour Concrete: Before any concrete or pavers are installed for the pool deck there will need to be a bonding inspection, and either a pre-pour concrete, or paver base inspection.
- Final Construction & Final Electric (including Bonding), prior to putting the pool into use. When all equipment is in place, (including pump and heater) and all electric and all necessary bonding/grounding is complete. (If fence is required, fence will need to be installed completely with self-closing/latching gate and if the fence is within five feet (5') of the pool, it will need to be grounded).

(A Blank Permit Application is located at the very end of this document / next page)



VILLAGE OF WOODRIDGE BUILDING PERMIT

5 Plaza Drive Woodridge, IL 60517 Phone: (630) 719-4750 Fax: (630) 719-2900

Permit Application Address _____ Date _____

Lot# _____ Subdivision _____

Description of Work _____

Zoning _____ Size of Lot _____ X _____
Total Estimated Cost \$ _____

Property Owner _____ Address, Town, Zip _____ Phone _____

Tenant _____

General Contractor _____

Architect _____

Brick _____

Carpenter _____

Concrete/Asphalt _____

Electrician _____

Low Voltage Contractor _____

Excavator _____

Fire Alarm _____

Fire Protection _____

Heating Contractor _____

Plumber _____

Roofer _____

Sewer Contractor _____

Contractor Email Address _____

Homeowner or Primary Contact, Email Address, if different than Contractor _____

Contact Name & Phone Number _____

PERMIT # _____

APPROVED
Plan Review _____ Date _____

ISSUED
Plan Review _____ Date _____

- OFFICE USE ONLY -

	FEE / AMOUNT
Building Permit	
Electrical Permit	
Plumbing Permit	
Plan Reviews	
Deck Permit	
Driveway Permit	
Fence Permit	
Flatwork Permit	
Shed Permit	
Roof Permit	
Lawn Sprinkler	
Swimming Pool	
Misc.	
Sewer Permit	
Water Connection	
Water Meter	
Unmetered Water	
School District	
School District	
Park District	
GRAND TOTAL	

Applicant's Signature _____

Print Applicant Name _____