



## BUILDING DIVISION

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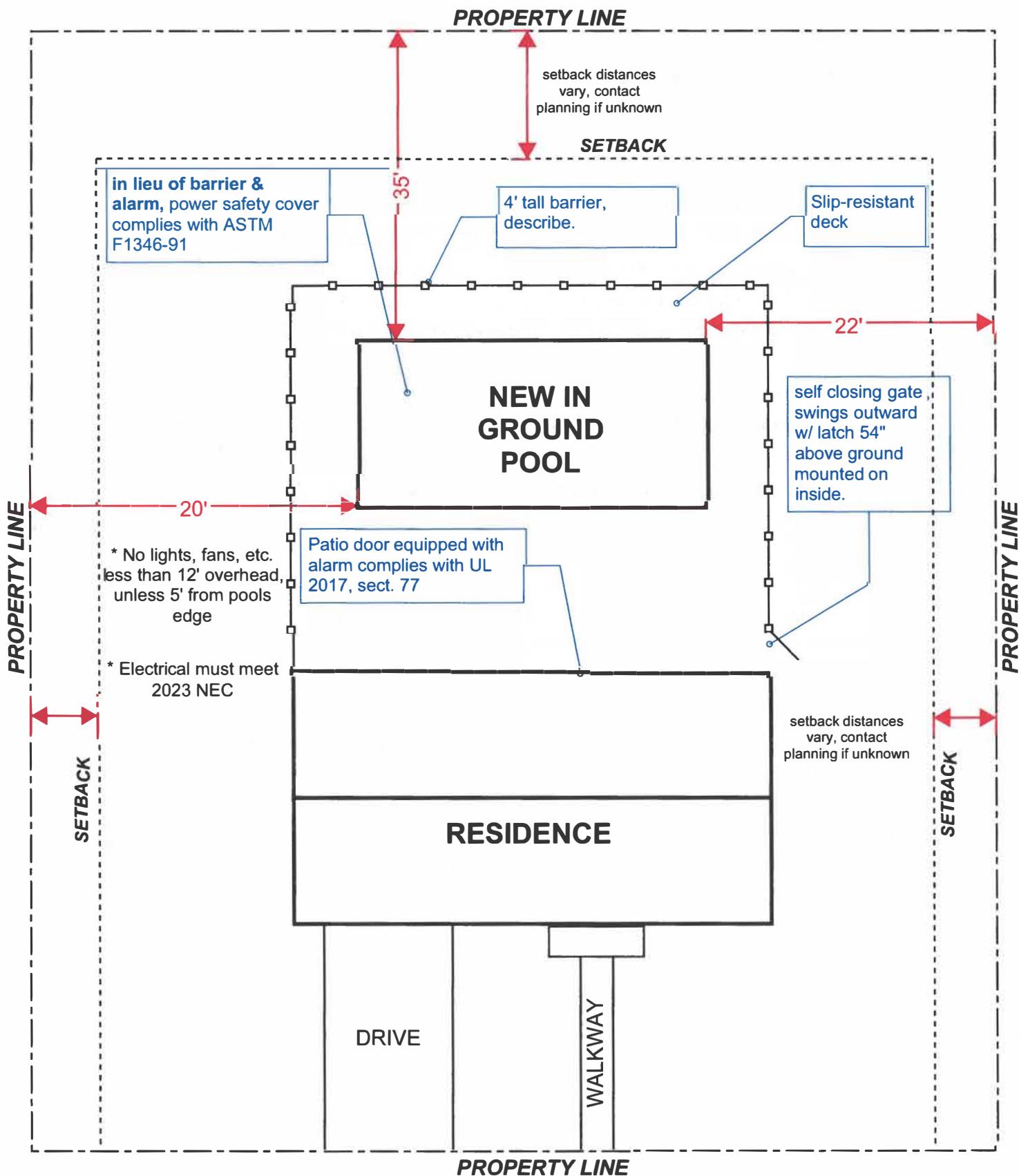
# RESIDENTIAL SWIMMING POOL PERMIT GUIDE

## When is a permit required?

A building permit is required for any site built, prefabricated or portable swim spa, pool or hot tub that can contain water more than 24" deep.

## What is required for a permit?

- Completed application
- Provide a **Site Plan** (see example)
  - a. Please show the dimensions of the pool and the distance to:
    - The residence and other structures on the property
    - Property lines, easements, and utilities.
    - Entry to the pool must be secured, and the **fence or other barriers must be shown on the site plan.**
  - b. **Regardless of permit requirements, all pools, hot tubs, and spas must be located at least 10 feet from any property line and outside of any drainage or utility easement.** A typical lot will have easements located along the side and rear property lines. For easement and additional pool information you may please contact the Current Planning Office at 970-962-2523.
- Provide a **Pool Plan**
  - a. Drawn at a legible scale, provide detailed plan showing:
    - Pool location, size, depth, and manufacturer's installation instructions, including pool deck/stair construction details. Information on lockable safety cover, if used.
    - **Provide details of barrier requirements, including fencing, ladders, gates, latch and self-closing devices.**
    - In ground pool plans must be stamped by CO licensed engineer.
    - Location of electrical panels & meters, pool heater, gas or electrical lines, entrapment protection provisions. Proposed electrical, gas or plumbing runs
    - Decks associated with the pool deck require a separate permit.
    - **Any deck supporting a pool, spa, or hot tub must be designed by a CO licensed structural engineer.**



## BARRIER AROUND POOL W/ HOUSE SERVING AS ONE SIDE OF BARRIER

## Outdoor Swimming Pools

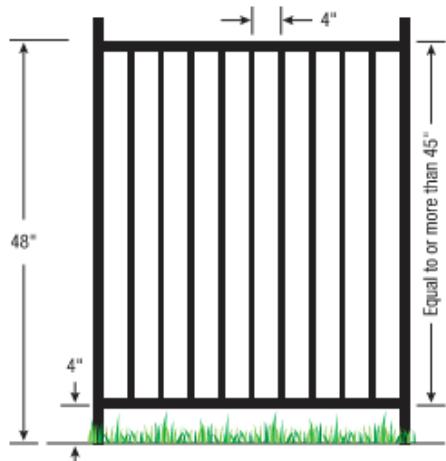
All outdoor swimming pools, including inground, above ground, or on ground pools, hot tubs, or spas, must have a barrier which complies with the following:

1. The **top of the barrier** must be at least 48 inches above the surface measured on the side of the barrier which faces away from the swimming pool. (figure 1)
2. The maximum **vertical clearance between the surface and the bottom of the barrier** must be a maximum of 4 inches measured on the side of the barrier which faces away from the swimming pool. In the case of a non-solid surface, grass, or pebbles, the distance shall be reduced to 2 inches, and 1 inch for removable mech fences. (figure 2)
3. Where the top of the **pool structure is above grade or surface**, such as an above ground pool, the barrier may be at ground level, such as the pool structure, or mounted on top of the pool structure. Where the barrier is mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier must not exceed 4 inches. (figure 3)
4. **Openings** in the barrier should not allow passage of a 4-inch diameter sphere.
5. **Solid barriers**, which do not have openings, such as masonry or stone walls, should not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints. (figure 4)
6. Where the barrier is composed of **horizontal and vertical** members and the distance between the bottom and top of horizontal members is less than 45 inches, the horizontal members should be located on the swimming on the swimming pool side of the fence. (figure 5)
7. **Spacing between vertical members** should not exceed 1-3/4 inches in width. Where the are decorative cutouts, spacing within the cutouts should not exceed 1-3/4 inches in width. (figure 6)
8. **Maximum mesh size for chain link fences** should not exceed 1-1/4 inch square unless the fence is provided with slats fastened at the top of the bottom which reduce the openings to no more than 1-3/4 inches. (figure 7 & 8)
9. Where the barrier is composed of **diagonal members**, such as a lattice fence, the maximum opening formed by the diagonal members should be no more than 1-3/4 inches. (figure 9)
10. **Access gates** to the pool must be equipped with a locking device. Pedestrian access gates must open outward, away from the pool, and self-closing and contain a self-latching device. Gates other than pedestrian access gates must have a self-latching device. Where the release mechanism of the **self-latching device is located less than 54 inches** from the bottom of the gate: (figures 9 & 10)

- a. The release mechanism must be located on the pool side of the gate at least 3 inches below the top of the gate and,
- b. The gate and barrier must have no opening greater than  $\frac{1}{2}$  inch with 18 inches of the release mechanism.

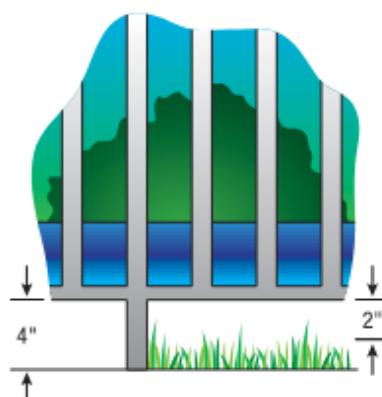
11. Where a **wall of a dwelling** serves as part of the barrier, one of the following must apply:
  - a. **All doors with direct access to the pool** through that wall must be equipped with **an alarm** which produces an audible warning when the door and its screen, if present, are opened. Alarms should meet the requirements of *UL 2017 General-Purpose Signaling Devices and Systems, Section 77*. (figure 12)
  - b. The pool must be equipped with a **power safety cover** which complies with ASTM F1346-91.
  - c. Other means of protection, such as self-closing doors with self-latching devices, are acceptable so long as the degree of protection afforded is not less than the protection afforded by (a) or (b).
12. Where an **above ground pool structure is used as a barrier** or where the barrier is mounted on top of the pool structure, and means of access is a ladder or steps, then: (fig. 13)
  - a. **The ladder** to the pool or steps must be capable of being secured, locked or removed to prevent access.
  - b. **The ladder or steps must be surrounded by a barrier.** When the ladder or steps are secured, locked, or removed, any opening created must not allow the passage of a 4-inch diameter sphere.
13. Required disconnecting means shall be readily accessible and within sight from the equipment it serves and shall be at least 5 feet horizontally from the inside walls of a pool, spa, or hot tub.
14. Electrical components that require placement or servicing must be accessible.
15. Glazing facing hot tubs, spas, and pools where the bottom exposed edge of the glazing is less than 60 inches horizontally, and less than 60 inches vertically measured above any standing of walking surface shall be considered a hazardous location.

## RESIDENTIAL SWIMMING POOL PERMIT REQUIREMENTS

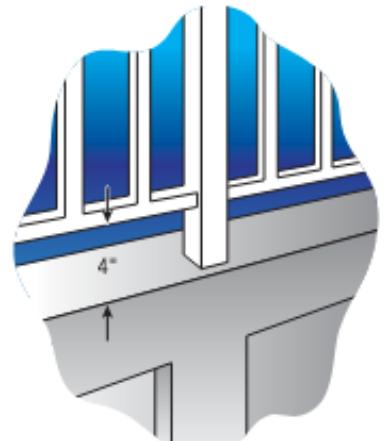


**Figure 1**

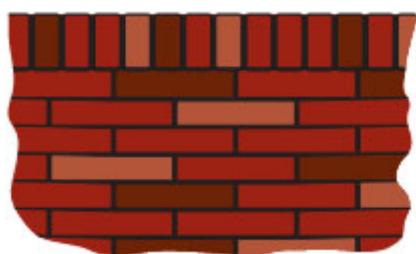
Eliminates handholds and footholds and minimize the size of the openings



**Figure 2**

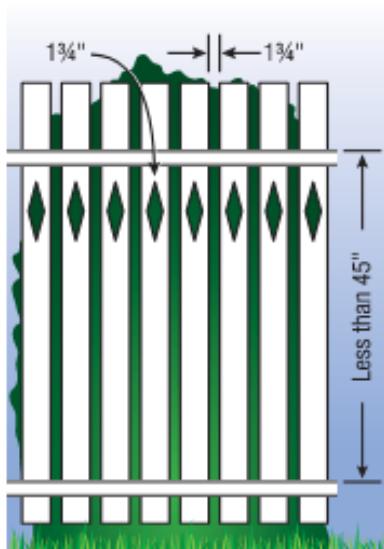


**Figure 3**

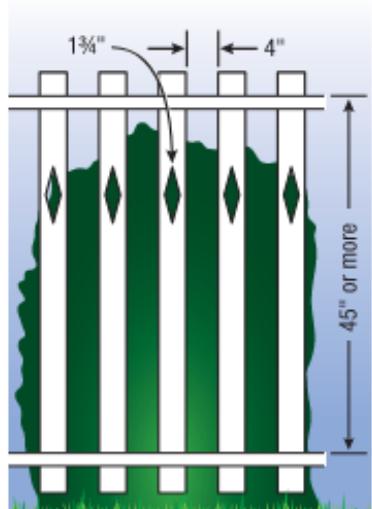


**Figure 4**

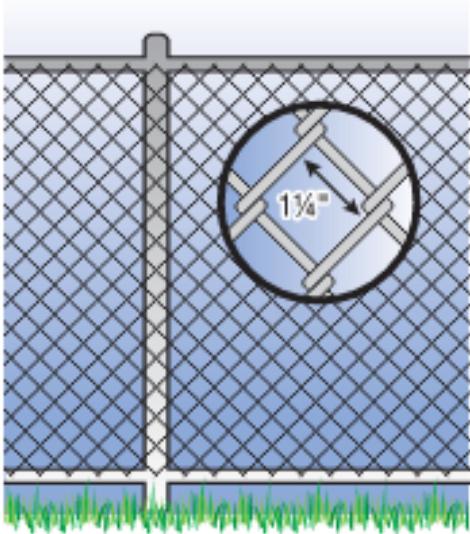
No indentations or protrusions should be present, other than normal construction tolerances and masonry joints



**Figure 5**

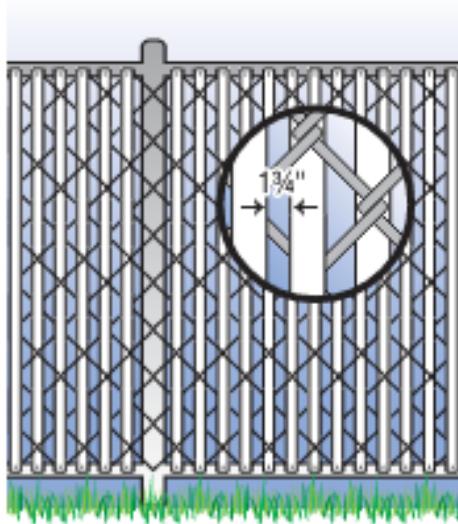


**Figure 6**

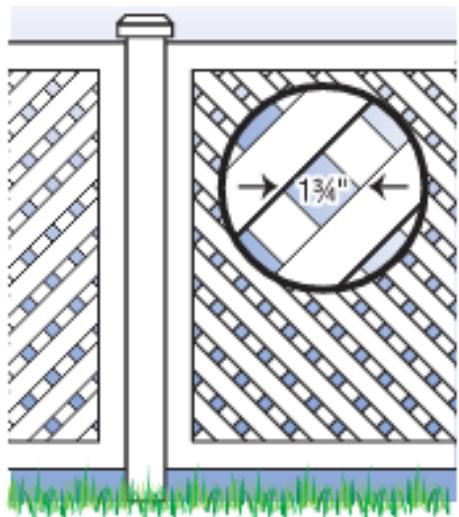


**Figure 7**

The mesh size should not exceed 1-1/4 inches square unless slats, fastened at the top or bottom of the fence, are used to reduce mesh openings to no more than 1-3/4 inches.



**Figure 8**



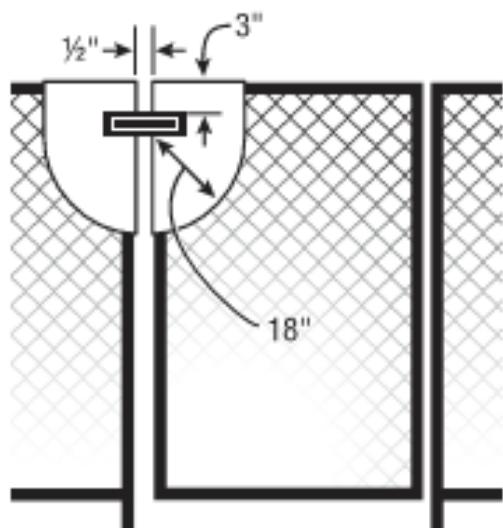
**Figure 9**

The maximum opening in the lattice should not exceed 1-3/4 inches

Gates must open out from the pool and must self-closing and self-latching



**Figure 10**



**Figure 11**

When the release mechanism of the self-latching device on the gate is less than 54 inches from the bottom of the gate, the release mechanism for the gate must be no more than 3 inches below the top of the gate on the side facing the pool.

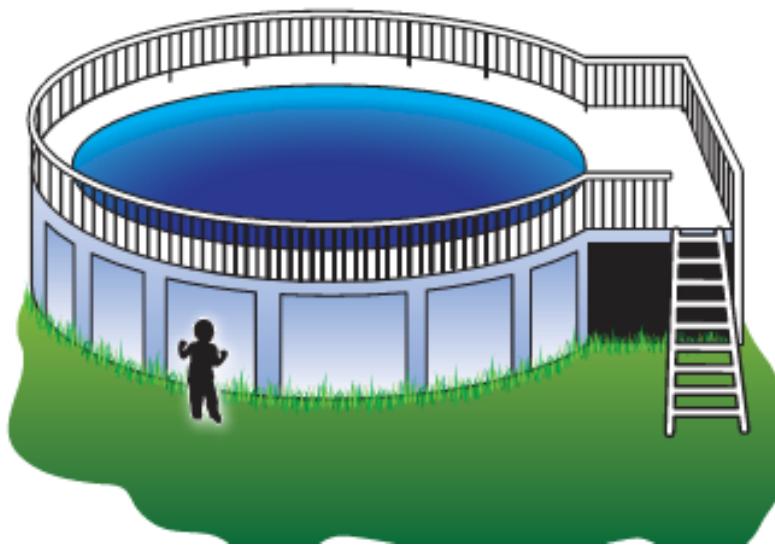
Also, the gate and barrier should have no opening greater than 1/2 inch within 18 inches of the latch release mechanism.



**Figure 12**

UL 2017 General-Purpose Signaling Devices and Systems, Section 77 have the following features:

- ◆ Sound lasting for 30 seconds or more within 7 seconds after the door is opened.
- ◆ 85 decibels when measured 10 feet away from the alarm mechanism.
- ◆ Sound must be distinct from other sounds in the house, such as telephone, doorbell, and smoke alarm.
- ◆ Automatic reset feature to temporarily deactivate the alarm for up to 15 seconds to allow adults to pass through house doors doors. The deactivation switch can be a touchpad or a manual switch, and be located a minimum of 54 inches above threshold of door.



Above ground pools must have barriers. The pool structure itself serves as a barrier or a barrier is mounted on top of the pool structure.

There are two possible ways to prevent young children from climbing up into an above ground pool. The steps or ladder can be designed to be secured, locked or removed to prevent access, or the steps or ladder can be surrounded by a barrier as described in these guidelines.



**Figure 13**

**Prior to submittal of this application, please:**

- 1.) Verify your contractor holds a valid City of Loveland contractor license prior to applying
- 2.) If highlighted area is inapplicable, please put N/A
- 3.) Application must be signed by contractor or authorized signer listed on contractor license

**Application Type:**

**Job Site Address:**

<b>General Contractor:</b>	<b>License #:</b>	<b>Phone:</b>
<b>Valuation: \$</b>	<b>Email :</b>	
<b>Electrical Contractor:</b>	<b>License #:</b>	<b>Phone:</b>
<b>Valuation: \$</b>	<b>Email :</b>	
<b>Mechanical Contractor:</b>	<b>License #:</b>	<b>Phone:</b>
<b>Valuation: \$</b>	<b>Email :</b>	
<b>Plumbing Contractor:</b>	<b>License #:</b>	<b>Phone:</b>
<b>Valuation: \$</b>	<b>Email :</b>	
<b>Owner Name:</b>	<b>Phone:</b>	
<b>Address:</b>		
<b>City:</b>	<b>State:</b>	<b>Zip:</b>
<b>Contact:</b>	<b>Phone:</b>	<b>Email:</b>

Other: (Please explain)

**Work Description: (Please note if electrical meets minimum code requirements)**

**OWNER/CONTRACTOR SIGNATURE OF UNDERSTANDING AND AGREEMENT**

I hereby certify that the setback distances proposed by this permit application are accurate and do not violate applicable ordinances, rules or regulations of the City of Loveland or covenants, easements or restrictions of record; that all measurements shown, and allegations made are accurate; that I have read and agree to abide by all conditions printed on this application and that I assume full responsibility for compliance with the City of Loveland building code and all other applicable City of Loveland ordinances for work under this permit. Plans subject to field inspection.

**PRINT NAME:** \_\_\_\_\_

**SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**Permit #:**

Received by:

Date:

Approvals:

Total Fees Due: \$