



## NOTICE TO BUYER: SELLER-PROCURED INSPECTION REPORT

The following notice is given with respect to the Purchase and Sale Agreement dated \_\_\_\_\_  
between \_\_\_\_\_ ("Buyer")  
and **Estate of Mary K Howard** \_\_\_\_\_ ("Seller")  
concerning **3671 225th Pl SE 1301 Issaquah WA 98029** ("the Property").

Seller has given or is giving Buyer the following Inspection Report(s) concerning the Property (check all that apply):

- ☒ Whole House Inspection
- ☐ Sewer Inspection
- ☐ Pest Inspection
- ☐ Other: \_\_\_\_\_

The Inspection Report(s) are intended to be a part of any Seller Disclosure Statement (NWMLS Form 17) that is provided in this transaction, whether or not the two documents are attached to each other. The Inspection Report(s) were procured by Seller and are provided for informational and disclosure purposes only. The Inspection Report(s) are not intended to constitute a warranty, either express or implied, about the condition of the Property. Buyer is advised to procure their own inspections from professional inspectors chosen by Buyer or hire the inspectors that prepared the Inspection Report(s). Buyer has the opportunity to inspect the Property to Buyer's satisfaction.

 *Hal Howard, Executor* 02/13/24  
\_\_\_\_\_  
Seller DATE

\_\_\_\_\_  
Seller DATE

## Buyer's Acknowledgment of Receipt

The undersigned Buyer acknowledges receipt of the foregoing Notice and the above-referenced Inspection Report(s).

\_\_\_\_\_  
Buyer DATE

\_\_\_\_\_  
Buyer DATE

## **Disposition of Pre-inspection Action Items**

As written by Kellie Howard on the Howard Estate 3/14/24

### **GARAGE**

#### *GARAGE DOOR OPENER*

The garage door opener was functional, however, the auto stop reverse safety switch is not working. This is a safety concern. The services of a contractor specializing in automatic openers should be retained to perform the necessary repairs.

*Re-engaged auto stop safety switch.*

#### *PASSAGE DOOR*

The self closing hinge has been disabled and therefore the door is no longer part of the fire rated assembly between the living space and garage. Resetting the self closing hinge spring is recommended.

*Re-set self closing hinge.*

### **ELECTRICAL SYSTEM**

#### *SERVICE PANEL*

Several of the neutral wires are double tapped on the buss bar. Double tapping means that two conductors share a single terminal. Double tapped terminals can loosen and overheat and therefore are not permitted unless the terminal is specifically listed for multiple wires. This defect is easily repaired by connecting the two wires to a "pig tail", securing them with a wire cap, and then inserting the pig tail conductor under the terminal.

Screws that secure the panel cover to the panel box are missing. This is a potential hazard. Missing screws should be replaced with the original style blunt end screws.

*Replaced screws*

#### *RECEPTACLES*

The receptacle on the east wall of the garage and another one on the north wall of the living room are loose. This is a potential shock and a fire hazard. All loose receptacles should be repaired as necessary.

*Resecured both receptacles*

### **KITCHEN**

#### *AIR GAP*

The dishwasher drain lacks an air gap. The dishwasher will function without one, but there is a risk of contamination of the inside of the dishwasher by waste water. The installation of an air gap above the flood rim of the sink is recommended.

*Installed air gap fixture*

#### *RANGE*

No tip out protection was installed for the range. This is a hazard for small children. We recommend tip out protection devices be installed.

*Added tip out protection*

### **PLUMBING SYSTEM**

#### MAIN WATER SHUTOFF VALVE

The location of the main water shutoff valve was not determined. You should query the seller as to the location of the valve.

*The main water shutoff is a small black button under the second sink in the master bath. The one closest to the shower. Once you open the cabinet doors, the switch is on the right-hand upper side. This system was installed by the Garden Village Board. If a leak is detected using the Wall-E system and it is not resolved immediately, the system automatically cuts the water.*

#### INTERIOR

##### DOORS

The handle to the patio door deadbolt is loose. It should be repaired as necessary.

*All locks on all outbound doors have been replaced and re-keyed to the same key.*

##### SMOKE DETECTORS

Smoke detectors are examined for location only. They are not tested. Smoke detector batteries should be replaced when you move in and every year thereafter. Once batteries have been replaced, the smoke detectors should be tested for proper operation.

*Smoke detectors were tested and function properly. They are hard wired into the home.*

FOR MAXIMUM PROTECTION: Use both Ionization and Photoelectric smoke alarms in every bedroom/hallway on every level of your home.

At least one carbon monoxide monitor should be installed for each floor. The best place to install the monitor is in an open area near the gas appliance.

*A carbon monoxide detector is located in the hallway across from the furnace. It is functioning correctly.*

#### MAINTENANCE ITEMS AND/OR COMPONENTS NEARING THE END OF THEIR SERVICE LIFE

Any item that in the opinion of the inspector is nearing the end of its normal service life and/or conditions that need repair, maintenance and/or upgrades, but have not affected basic functions are listed herein.

#### BUILDING EXTERIOR

##### PEST CONTROL

Soil is close to or in contact with siding in some areas around the building exterior. Good building practice requires that foundation walls or pier footings supporting wood frame construction, extend at least 8" above the finish grade with at least a 6" clearance between the top of the soil and the bottom of the wood finish materials. Soil in direct contact with wood creates a hospitable environment for wood destroying organisms. Establishing these minimum clearances is recommended.



#### **GUTTERS AND DOWNSPOUTS**

Downspouts draining directly onto the asphalt shingle surface causes excessive wear of the roofing material. Downspout extensions to the lower gutters should be installed to prevent excessive wear and tear of the roofing.

*Both issues have been brought to the attention of the HOA. They fall under their responsibility.*

#### **WATER HEATER**

##### **EXPANSION TANK**

The expansion tank is not adequately secured to the wall. As code requirements start to call for engineered expansion tank supports we recommend the installation of seismic restraints to secure the expansion tank instead of allowing it to simply depend on piping connections that could result in damage to the water pipe and leakage during an earthquake.

*Strap installed on expansion tank.*

#### **INTERIOR**

##### **WINDOWS**

One of the window screens is damaged. Damaged screens should be repaired or replaced so that the window(s) can be left open for ventilation as designed.

*Screen replaced.*

February 22, 2024

**Mr. Ms. Hal & Kellie Howard  
3671 225th Place SE #1301  
Issaquah, WA.**

**Re: 3671 225th Place SE #1301  
Issaquah, WA.**

Dear Hal & Kellie;

At your request, a visual inspection of the above referenced property was conducted on 02/21/2024. We have inspected the major structural components, plumbing, heating and electrical systems for signs of significant non-performance, excessive or unusual wear and general state of repair.

Clark Inspections inspectors, inspect all homes and buildings according to the stringent professional standards and code of ethics set forth by the American Society of Home Inspectors (ASHI). The ASHI standards are designed to identify and disclose to the client certain conditions of the major systems as these conditions exist at the time of the inspection. These standards are designed for a visual inspection of the readily accessible areas of the included system. A copy of these standards will be provided upon request or can be obtained by calling the ASHI automatic "Information-On-Demand" phone number at 1-800-743-2744

Home or building inspections performed under these standards should not be construed as a compliance inspection of any governmental or non-governmental codes or regulations. Inspections performed under these standards are essentially visual; are based on the experience and opinion of the inspector; and are not intended to be technically exhaustive. Inspections performed under these standards are not meant to be warranties nor guarantees of adequacy of performance of the structures, systems, or their component parts.

This inspection does not include an inspection for construction or other materials which might be hazardous to your health. It is possible that such materials may be present and not noted in this report.

This inspection does not include the testing or inspection of security systems, intercoms, communication systems, video, or sprinkler systems. These items are highly specialized and individualistic. Clark Inspections recommends that you have the seller and/or real estate agent/broker demonstrate the operation and serviceability of these systems to you prior to the closing of the sale.

Mechanical equipment is inspected for operability only and may contain undisclosed defects which may significantly impair it's usefulness.

Defects are examined and a determination is made on how a particular defect will affect interrelated building parts and whether immediate repairs are required.

Since all buildings have defects, it is important to know and understand what they are and how they affect the house and property. Some of the defects mentioned in this report may be quite typical, and found in other homes of comparable age and price. Some however, may not. We make our best attempt to distinguish this for you in both verbal and written reports.

## REPORT SUMMARY

The comments in this report are categorized. General information is given on the type of materials and construction methods. Specific information is given pertaining to the condition of a component and applicable repair and maintenance work that may be required.

Statements, representations, or conclusions offered by the inspector are the considered opinion of the inspector, but these statements, representations, or conclusions do not constitute an expressed or implied warranty of any kind. Neither the inspector nor Clark Inspections Inc. shall be liable for any direct, special, incidental, or consequential damages under an circumstances whatsoever, whether arising in tort, negligence, or contract, nor for any loss, claim, expense, or damage caused by or arising out of his or its inspection of a structure, nor will the inspector or Clark Inspections Inc. indemnify or hold others harmless for any loss, claim, expense, or damage arising out of his or its inspection of a structure.

## ACTION ITEMS, SIGNIFICANT DEFECTS AND/OR HEALTH AND SAFETY ISSUES

Non-operational (Action) items, safety or health issues, areas with limited viewing for proper inspection and components that do not serve their intended function (Significant Defects) are listed here. These items will likely require further evaluation and repair by licensed tradespeople.

**Please Read entire report**

### GARAGE

#### *GARAGE DOOR OPENER*

The garage door opener was functional, however, the auto stop reverse safety switch is not working. This is a safety concern. The services of a contractor specializing in automatic openers should be retained to perform the necessary repairs.

#### *PASSAGE DOOR*

The self closing hinge has been disabled and therefore the door is no longer part of the fire rated assembly between the living space and garage. Resetting the self closing hinge spring is recommended.

### ELECTRICAL SYSTEM

#### *SERVICE PANEL*

Several of the neutral wires are double tapped on the buss bar. Double tapping means that two conductors share a single terminal. Double tapped terminals can loosen and overheat and therefore are not permitted unless the terminal is specifically listed for multiple wires. This defect is easily repaired by connecting the two wires to a "pig tail", securing them with a wire cap, and then inserting the pig tail conductor under the terminal.



Screws that secure the panel cover to the panel box are missing. This is a potential hazard. Missing screws should be replaced with the original style blunt end screws.

#### *RECEPTACLES*

The receptacle on the east wall of the garage and another one on the north wall of the living room are loose. This is a potential shock and a fire hazard. All loose receptacles should be repaired as necessary.

## KITCHEN

### *AIR GAP*

The dishwasher drain lacks an air gap. The dishwasher will function without one, but there is a risk of contamination of the inside of the dishwasher by waste water. The installation of an air gap above the flood rim of the sink is recommended.



### *RANGE*

No tip out protection was installed for the range. This is a hazard for small children. We recommend tip out protection devices be installed.

## PLUMBING SYSTEM

### *MAIN WATER SHUTOFF VALVE*

The location of the main water shutoff valve was not determined. You should query the seller as to the location of the valve.

## INTERIOR

### *DOORS*

The handle to the patio door deadbolt is loose. It should be repaired as necessary.



### *SMOKE DETECTORS*

Smoke detectors are examined for location only. They are not tested. Smoke detector batteries should be replaced when you move in and every year thereafter. Once batteries have been replaced, the smoke detectors should be tested for proper operation.

**FOR MAXIMUM PROTECTION:** Use both Ionization and Photoelectric smoke alarms in every bedroom/hallway on every level of your home.

At least one carbon monoxide monitor should be installed for each floor. The best place to install the monitor is in an open area near the gas appliance.

## MAINTENANCE ITEMS AND/OR COMPONENTS NEARING THE END OF THEIR SERVICE LIFE

Any item that in the opinion of the inspector is nearing the end of its normal service life and/or conditions that



need repair, maintenance and/or upgrades, but have not affected basic functions are listed herein.

## **BUILDING EXTERIOR**

### *PEST CONTROL*

Soil is close to or in contact with siding in some areas around the building exterior. Good building practice requires that foundation walls or pier footings supporting wood frame construction, extend at least 8" above the finish grade with at least a 6" clearance between the top of the soil and the bottom of the wood finish materials. Soil in direct contact with wood creates a hospitable environment for wood destroying organisms. Establishing these minimum clearances is recommended.



### *GUTTERS AND DOWNSPOUTS*

Downspouts draining directly onto the asphalt shingle surface causes excessive wear of the roofing material. Downspout extensions to the lower gutters should be installed to prevent excessive wear and tear of the roofing.



## **WATER HEATER**

### *EXPANSION TANK*

The expansion tank is not adequately secured to the wall. As code requirements start to call for engineered expansion tank supports we recommend the installation of seismic restraints to secure the expansion tank instead of allowing it to simply depend on piping connections that could result in damage to the water pipe and leakage during an earthquake.



## **INTERIOR**

### *WINDOWS*

One of the window screens is damaged. Damaged screens should be repaired or replaced so that the



window(s) can be left open for ventilation as designed.

Several of these items will likely require further evaluation and repair by licensed tradespeople. Other minor items are also noted in the report and could be mentioned but none of them affect the habitability of the house.

Thank you for selecting our firm to do your home inspection. If you have any questions regarding the inspection report or the home, please feel free to call us.

Sincerely,

Terry Clark  
206-660-9200  
Clark Inspections

**Clark Inspections**  
3834 Golden Eagle Loop SE  
Olympia WA 98513  
206-660-9200  
clarkinspections@gmail.com

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**Report:** Hal & Kellie Howard

**Confidential Inspection Report**  
**3671 225th Place Southeast #1301**  
**Issaquah, WA 98029**

**February 21, 2024**

**Prepared for: Hal & Kellie Howard**

<p><b>This report is the exclusive property of the inspection company and the client whose name appears herewith and its use by any unauthorized persons is prohibited.</b></p>
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## GENERAL INFORMATION

### CLIENT & SITE INFORMATION:

DATE OF INSPECTION: 2/21/2024.  
INSPECTOR'S NAME: Terry Clark.  
CLIENT NAME: Mr. & Ms. Hal & Kellie Howard.  
MAILING ADDRESS: 3671 225th Place Southeast  
#1301  
Issaquah WA.  
CLIENT E-MAIL ADDRESS: halho@hotmail.com; [KRH1007@hotmail.com](mailto:KRH1007@hotmail.com).  
ADDRESS OF PROPERTY INSPECTED: 3671 225th Place Southeast  
#1301  
Issaquah, WA.



North elevation #1301

### CLIMATIC CONDITIONS:

WEATHER: Overcast, Drizzle.  
APPROXIMATE OUTSIDE TEMPERATURE: 48 degrees.

### BUILDING CHARACTERISTICS:

MAIN ENTRY FACES: North.  
ESTIMATED AGE OF BUILDING: The building is approximately 36 years old.  
BUILDING TYPE: Townhouse.  
SPACE BELOW GRADE: Slab on grade.

### SCOPE, PURPOSE AND LIMITATIONS

#### CONDO

The purpose of this inspection was to discover and evaluate major defects, deficiencies and deferred maintenance found in the main components of this unit, the building and in the building site immediately around the building. A major defect or deficiency is a system or component that in the judgment of the inspector, would cost in excess of \$500.00 to repair or replace, is not performing its intended function, or adversely affects the habitability of the dwelling or building. Defects are examined and a determination is made on how a particular defect will affect interrelated building parts and whether immediate repairs are required.

The major components in this report are categorized. General information is given on the type of materials and construction methods. Specific information is given pertaining to the condition of a component and applicable repair and maintenance work that may be required.

Since all buildings have defects, it is important to know and understand what they are and how they affect the dwelling and property. Some of the defects mentioned in this

report may be quite typical, and found in other structures of comparable age and price. Some, however, may not. We make our best attempt to distinguish this for you in both the verbal and written reports.

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Mechanical equipment is inspected for operability only and may contain undisclosed defects which may significantly impair it's usefulness.

Statements, representations, or conclusions offered by the inspector and/or by Clark Inspections are based solely upon a visual examination of the exposed areas of the structure inspected. Areas of the structure which are not exposed to the naked eye cannot be inspected, and no conclusions, representations, or statements offered by the inspector are intended to relate to areas not exposed to view. Hidden defects could have a significant impact on the visually based conclusions, statements, and representations made by the inspector.

Statements, representations, or conclusions offered by the inspector are the considered opinion of the inspector, but these statements, representations, or conclusions do not constitute an expressed or implied warranty of any kind. Neither the inspector nor Clark Inspections shall be liable for any direct, special, incidental, or consequential damages under any circumstances whatsoever, whether arising in tort, negligence, or contract, nor for any loss, claim, expense, or damage caused by or arising out of his or its inspection of a structure, nor will the inspector or Clark Inspections indemnify or hold others harmless for any loss, claim, expense, or damage arising out of his or its inspection of a structure.

If you receive information from another building inspection professional, contractor or trades person that is in conflict with ours, or if you discover a major defect in your home or building that was not described in your verbal or written reports, please call us immediately.

## **GENERAL COMMENTS**

### *RECOMMENDATIONS*

Certain building designs and/or building site topography may not qualify for earthquake insurance. Each company has its own underwriting policies. You should check with your insurance agent to determine whether or not your insurance company will write an earthquake policy on this property.

There may be information pertinent to this property which is a matter of public record. A search of public records is not within the scope of this inspection. We recommend you review all applicable public records that pertain to this property.

We make no representations as to the extent of presence of code violations, nor do we warrant the legal use of this building. This information can be obtained from the local building and/or zoning department.

The exterior of this building and the common areas, were not examined in detail except as specifically noted. All components of this building have a predictable life span. Funds for maintenance and replacement of these items should be held in a reserve account. Information on this account is contained in the "resale certificate. Review of this document is recommended prior to the closing of escrow.

#### *BUILDING CODES*

A code is a system of rules and procedures, the purpose of which is to provide minimum standards to safeguard life, health, and property by regulating certain aspects of building design, construction, use and maintenance. Local codes are usually based on model codes. A community may amend or adopt only parts of a model code. These local codes may not always be the latest version of the model code. Code enforcement is nearly always a local government responsibility and is handled in several ways depending on the type of code and community involved. All model codes and most local codes, grant the code compliance inspector or building official the right to interpret the code to suit special situations. This makes the building official the final authority, not the code book.

Answering the question "Does this meet code?" depends on the building's age, when remodels and upgrades were performed and which codes if any are enforced. This information may not be readily available to the home inspector. Private inspectors usually can determine if an item complies with applicable national model codes, if they know when the work was done and what code was applicable at that time. Local municipalities adopt and enforce national model codes at their discretion. Private building inspectors are typically not permitted to perform code compliance inspections. Code compliance inspections are typically performed by the local code enforcement official. Private building inspectors check to determine whether or not an item performs its intended function or is in need of repair.

Code enforcement usually is a local question and subject to the interpretation by the building code enforcement official. Most communities do not require an existing building to meet "code" prior to sale.

Specific code questions can be referred to the local building official. however, you must realize that if city inspectors check a building, they have the authority to require corrections of any violation. Private building inspectors act solely in an advisory capacity. Their objective reports are a tremendous benefit to anyone purchasing or selling real estate.

## BUILDING SITE

The evaluation of the building site and grounds includes grading, roof water and surface drainage systems, fencing, gates, walkways, curbs, driveways, patios, and retaining walls connected to or directly adjacent the structure. These items are visually examined for proper function, excessive or unusual wear and general state of repair. Components or portions of components may not be visible because of soil, vegetation, storage of personal effects and/or the nature of construction. In such cases these items are considered inaccessible and are not inspected. Lawn irrigation systems, fountains, and low voltage decorative garden lights are not included in this inspection.

### The following components were inspected:

**ROOF WATER DRAIN SYSTEM** A below grade roof water drain system is used to divert rain water discharged from the downspouts away from the foundation wall. Below grade drain system designs vary and it is virtually impossible to evaluate the integrity of the system definitively, due to the fact that it is entirely underground. There is a high incidence of defects in these systems, due to the fact that historically, very few municipalities inspected or enforced design or quality standards.

Defects in these drain systems are one of the most common causes of water or moisture problems in ground floor occupancies, basements and crawlspaces. Overflowing gutters and clogged downspouts and scuppers also frequently cause or exacerbate moisture or water entry problems in and around the building. When water entry or moisture problems are discovered we recommend checking the entire roof water drain system to insure that it is functioning properly.

Occasionally, (once a year) flushing out the drain lines with a garden hose will reduce the build-up of debris and sludge which could impede drainage. This type of maintenance is most effective if the end of the drain line terminates in open air or in a storm sewer. If the drain line terminates in a dry well or leach field, then the washing of debris down the line is not advisable. The debris may eventually clog the perforations in the line which allow the water to escape. This could render the drain system inoperative. It is always best to prevent debris from entering at the inlet.

**GRADING** The building site is well drained. The finish grade slopes away from the building. No evidence of recent building site flooding, drainage or soil stability problems was observed.

**VEGETATION** Dense shrubbery and trees planted too close to the building can damage siding and the roof overhang and interfere with drainage and air movement, thus promoting fungus growth and accelerated deterioration of exterior finishes and wood. Trees and shrubs in contact with the building also provide carpenter ants with a route into walls or attics. Trees and shrubs should be trimmed back, where required. When landscaping, trees and shrubs should be planted back away from the building so that they have room to grow.

**DRIVEWAY** The driveway apron is paved with concrete. There are minor shrinkage cracks visible in the concrete. Shrinkage cracks are common and do not affect the serviceability of the concrete.

**PATIO** The wooden dividers separating the concrete patio sections will eventually deteriorate to a condition where the gaps would be a trip hazard. Replacement with mortar is recommended.



**WALKWAY** When the wooden dividers separating the concrete walkway sections have deteriorated to a point where they become a trip hazard. Replacement with mortar is recommended.



Many legal and public works departments have defined a trip hazard as an irregularity in a walking surface exceeding one inch (1") in height. All walking surfaces should maintain, free of a vertical surface change of 3/4" or more, in the interest of public and personal safety.



## BUILDING EXTERIOR

The evaluation of the building exterior includes the paint, stain, siding, windows, doors, flashing, trim, fascia, eaves, soffits, decks, porches balconies and railings. These items are visually examined for proper function, excessive or unusual wear and general state of repair. Components or portions of components may not be visible because of soil, vegetation, storage of personal effects and/or the nature of construction. In such cases these items are considered inaccessible and are not inspected.

### The following components were inspected:

**PRIMARY EXTERIOR WALL CLADDING** Cedar lap siding is used as an exterior wall cladding. Cedar is a wood that is durable and moderately resistant to decay. Maintaining the finish on the exposed siding will maximize its service life. The siding shows minor wear and deterioration typically caused when the exterior finish is not maintained. The deterioration is cosmetic and does not affect the function of the siding. No action is indicated.

**PEST CONTROL** Soil is close to or in contact with siding in some areas around the building exterior. Good building practice requires that foundation walls or pier footings supporting wood frame construction, extend at least 8" above the finish grade with at least a 6" clearance between the top of the soil and the bottom of the wood finish materials. Soil in direct contact with wood creates a hospitable environment for wood destroying organisms. Establishing these minimum clearances is recommended.

Wood boring insect activity in the Puget Sound area usually does not occur unless there is a ventilation problem inside or underneath the building, a water leakage/rotting condition in the building or significant quantities of soil to untreated wood contact in a crawlspace or outside around the building exterior. Carpenter ant, termite and wood boring beetle activity is most often a direct result of rot damaged wood and/or excessively moist, humid or damp conditions inside, around or underneath the building. Structural damage from termites and ants in most cases does not extend much past the moisture source and/or rot damaged wood. Eliminating high moisture conditions, improving ventilation, correcting the conditions that are conducive to rotting wood and replacing rot damaged wood will usually eliminate the wood boring insect activity, providing that the building is properly maintained thereafter.

The best way to avoid wood boring insect problems is by preventative maintenance. This includes:

- x Good construction practices which exclude water and prevent high moisture conditions.
- x Removal of wood debris and form wood from the crawlspace and around the building exterior.
- x Maintaining the roof water drain system.
- x Maintaining good yard drainage away from the foundation wall.
- x Avoiding wood-soil contact in the crawlspace or around the building exterior.
- x Storing fire wood 6" above grade and in a dry area.

There should be no soil to wood contact in any part of the building exterior or crawlspace, unless that wood is pressure treated. For the greatest safety to permanent structures there should be no soil to wood contact of any kind. Untreated wood in direct contact with exterior flatwork should also be avoided.

Good building practice requires that foundation walls or pier footings supporting wood frame construction, extend at least 8" above the finish grade with at least a 6" clearance between the top of the soil and the bottom of the wood finish materials. Untreated wood should be raised 1-2" above surrounding flatwork and should have a moisture barrier installed between the concrete and wood.



*SOFFITS AND OVERHANGS*

The roof lacks overhangs. Overhangs protect the exterior walls, windows, doors, siding and exterior finish from the ravages of direct rainfall. Buildings without overhangs will generally require more frequent exterior maintenance and are also more likely to suffer from moisture related problems in the exterior walls. Regular maintenance of gutters, exterior finishes and caulking is recommended.

*GUTTERS AND DOWNSPOUTS*

Roof runoff is collected and channeled into the downspouts by aluminum gutters fastened to the rafter tails. The gutters and downspouts are properly installed and are performing their intended function. Gutters should be cleaned regularly to prevent clogging and overflow.

Downspouts draining directly onto the asphalt shingle surface causes excessive wear of the roofing material. Downspout extensions to the lower gutters should be installed to prevent excessive wear and tear of the roofing.



*PAINT*

The exterior paint and caulking is in good condition and is functioning as intended. Paint protects the wood from cupping, checking, warping and rot.

*EXTERIOR DOORS*

The entry door is properly installed and is functioning as intended.

## ROOF

We evaluate the condition of the roof system by inspecting the roofing material, skylights, flashings, penetrations and roof water drainage system for damage and deterioration. If we observe conditions such as damage, deterioration, defects in materials or workmanship, these items will be noted in your report. We may also offer opinions concerning repair and replacement. Opinions stated herein concerning the condition of the roof and roof service life are based on the condition of the roof system at the time of the inspection. These opinions do not constitute a warranty that the roof is, or will remain, free of leaks. All roof systems require annual maintenance and occasional repair. Failure to perform routine roof maintenance will usually result in leaks and accelerated deterioration of the roofing material. Our estimate of the life expectancy of the roof is based on the assumption that the roof will be properly repaired and maintained during that period.

### The following components were inspected:

<i>GENERAL INFORMATION</i>	The roofing material is asphalt composition shingles. The slope or pitch of the roof is medium in some areas and steep in others. Metal gutters are used to collect the roof water drainage. The roof is approximately 15 years old.
<i>INSPECTION METHOD</i>	The roof was too steep to walk on safely. Therefore the inspector examined the roof from the edge and from the ground.
<i>CHIMNEYS</i>	The visible portion of the metal, factory-built chimney is properly installed and in good condition.
<i>FLASHINGS</i>	Metal flashings are used to seal around chimneys, vents and roof to wall intersections. The flashings are properly installed and are performing their intended function.
<i>GENERAL COMMENTS</i>	The roof is worn but remains in serviceable condition. With proper maintenance, this roof should remain serviceable for up to 5 more years.

## GARAGE

The garage often contains major components of the plumbing, heating and electrical systems. These components are discussed under their respective headings. Components that were tested and/or inspected in the garage and reported here include the garage floor, overhead door(s), automatic openers and fire resistive barriers.

### **ATTACHED GARAGE - The following components were inspected:**

<i>GARAGE FLOOR</i>	There are small shrinkage cracks visible in the concrete, however, there is no vertical displacement of any portion of the slab. Shrinkage cracks are common in garage floors and are not considered a structural defect. The garage floor is properly installed and is functioning as intended.
<i>OVERHEAD GARAGE DOORS</i>	The garage is fitted with a single roll-up door. The garage door is properly installed and is performing its intended function.
<i>GARAGE DOOR OPENER</i>	The garage door opener was functional, however, the auto stop reverse safety switch is not working. This is a safety concern. The services of a contractor specializing in automatic openers should be retained to perform the necessary repairs.
<i>FIRE SEPARATION</i>	The fire resistive barrier observed between the garage and the living space is properly installed and in good condition.  The stored contents in the garage blocked observation of the finished surfaces and therefore the complete firewall was not visible for inspection. No evidence of defects or deficiencies were observed.
<i>PASSAGE DOOR</i>	The self closing hinge has been disabled and therefore the door is no longer part of the fire rated assembly between the living space and garage. Resetting the self closing hinge spring is recommended.

## ELECTRICAL SYSTEM

An electrical system consists of the service, distribution, wiring and convenience outlets (switches, lights and receptacles). Our examination of the electrical system includes the exposed and accessible wiring, service panels, subpanels, overcurrent protection devices, light fixtures and all accessible wall receptacles. We look for adverse conditions such as improper installation of aluminum wiring, lack of grounding, overfusing, exposed wiring, open-air wire splices, reversed polarity and defective GFCIs. The hidden nature of the electrical wiring prevents inspection of every length of wire. Telephone, video, audio, security system and other low voltage wiring is not included in this inspection. We recommend you have the seller demonstrate the serviceability of these systems to you.

### The following components were inspected:

<i>ELECTRICAL SPECIFICATIONS</i>	<i>SYSTEM</i>	The voltage is 120/240 single phase three wire service. The power is delivered to this building via an underground service lateral. The amperage rating of this service is 100. Copper wire is used for all 120 volt circuits. Aluminum is used for some of the 240 volt circuits. Non-metallic sheathed cable (Romex) is the type of wiring used throughout the house. The grounding of the service is provided by two driven rods.
<i>UNDERGROUND LATERAL</i>	<i>SERVICE</i>	The underground service lateral was not visible for inspection. However, there was 120/240 volt power to the building which suggests that it is functioning as intended.
<i>SERVICE PANEL LOCATION</i>		The service panel is located in the garage.
<i>MAIN DISCONNECT LOCATION</i>		The main disconnect is located adjacent to the electric meter. The ampacity of the main disconnect is 100 amps.
<i>SERVICE CONDUCTORS/CABLES/RACEWAY</i>	<i>ENTRANCE</i>	The service entrance conductors are #2 aluminum and have an ampacity of 100 amps. The service entrance conductors are properly installed and in serviceable condition.
<i>AYS</i>		
<i>SERVICE AMPACITY</i>		The capacity of the electrical service is 100 amps. A 100 amp service is adequate for this home with the existing electrical equipment. There is also room to add additional circuits if necessary.
<i>SERVICE BONDING</i>	<i>GROUNDING AND</i>	The service grounding electrode conductor attachment point was not visible for inspection. The adequacy of the service ground was not determined. The evaluation of this connection may require removal of finish materials and is beyond the scope of this inspection.
<i>SERVICE PANEL</i>		The electrical service panel is properly installed and in serviceable condition except where noted below.

Several of the neutral wires are double tapped on the buss bar. Double tapping means that two conductors share a single terminal. Double tapped terminals can loosen and overheat and therefore are not permitted unless the terminal is specifically listed for multiple wires. This defect is easily repaired by connecting the two wires to a "pig tail", securing them with a wire cap, and then inserting the pig tail conductor under the terminal.

Screws that secure the panel cover to the panel box are missing. This is a potential hazard. Missing screws should be replaced with the original style blunt end screws.



<i>OVER CURRENT PROTECTION</i>	Circuit breakers are used for over current protection. The circuit breakers are properly installed and the ampacity of the connected wires is compatible with that of the circuit breakers. The circuit breakers were not tested.
<i>WIRING</i>	There were no defects observed in the visible and accessible wiring.
<i>ALUMINUM WIRING</i>	This house uses stranded aluminum wire for service entrance conductors and for

*RECEPTACLES*

dedicated major appliance circuits. This type of aluminum wire circuitry is typically found in most houses and is considered safe and reliable when installed correctly.

All of the readily accessible receptacles were tested. Testing revealed defects requiring repair. These defects are outlined below..

*GFCI RECEPTACLES*

The receptacle on the east wall of the garage and another one on the north wall of the living room are loose. This is a potential shock and a fire hazard. All loose receptacles should be repaired as necessary.

A ground fault circuit interrupter (GFCI) is a device that detects ground faults (current leakage to ground). It protects you from electrocution. GFCI protection is required for receptacles in bathrooms, kitchens, garages, unfinished basements, crawlspaces and at exterior receptacles. GFCI protected receptacles were found in the bathrooms, kitchen, garage and exterior.

*AFCI RECEPTACLES*

AFCI protection is required for all 15 and 20 amp branch circuits to have protection from the entire branch circuit when that circuit has outlets in dwelling family homes, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, or similar rooms or areas.

Replacement receptacles are now required to be arc-fault circuit interrupter (AFCI) protected. This means that if you are replacing an old outlet in an old home in a location that needs AFCI protection in a new home, the replacement outlet needs to be AFCI protected.

*LUMINARIES*

All of the accessible luminaries were tested and were found to be functional.

*SWITCHES*

All of the accessible switches were tested and were found to be properly wired and functional.



## HEATING SYSTEM

A natural gas, propane or oil fired furnace or boiler consists of the self contained furnace or boiler, ducts or pipes for heated air or water distribution, thermostats for regulating the amount of heat and a vent system for removing the combustion gases from the building. The readily accessible portions of these items are examined for defects and are tested using normal operator controls. Most heating systems should be serviced annually by a qualified service technician. Failure to perform regular maintenance will affect the reliability of the heating system and will reduce service life.

### **FORCED AIR HEATING SYSTEM - The following components were inspected:**

<i>GENERAL INFORMATION</i>	Heat is provided by a natural gas fired forced air furnace. The furnace is located in the hall closet. The furnace is approximately 7 years old. The input rating of the furnace is 40,000 BTU. This BTU rating is typical of a home of this size and age.
<i>GAS PIPING</i>	The flex connector is properly installed and is performing its intended function.
<i>AUTOMATIC GAS VALVE</i>	The automatic gas valve or safety valve is designed to prevent the emission of fuel into the furnace if it does not detect heat for ignition. These valves are generally very reliable. The automatic gas valve was functioning as intended.
<i>IGNITION</i>	The furnace uses an electronic hot surface ignition. This component was functioning as intended.
<i>BURNERS</i>	The gas burners are properly installed and are functioning as intended.
<i>COMBUSTION AIR</i>	The combustion air provides the oxygen for the fuel burning appliances. Combustion air also aids in the movement of combustion gases up the flue. Adequate ventilation around all fuel burning appliances is vital for their safe operation. The air can come from inside the house or from outside providing that the amount of air reaching the appliance is sufficient to maintain efficient combustion and draft. The combustion air supply is adequate.
<i>HEAT EXCHANGER</i>	The heat exchanger is not visible without disassembling and removing it from the furnace. Cracks typically develop in heat exchangers after 10-20 years. Have your gas furnace technician check the heat exchanger during the next major service.
<i>DRAFT INDUCER</i>	The draft inducer pulls the combustion gases through the heat exchanger and pushes them up the vent connector into the flue. The draft inducer was functioning as intended.
<i>VENT</i>	The furnace uses a type B vent from the top of the furnace to the exterior. The visible portion of the B vent is properly installed and is functioning as intended.
<i>BLOWER</i>	The blower draws air from the return air ducts and pushes it over the heat exchanger where it is heated. The air is then pushed through the distribution ducts into the rooms. The blower was tested and was functioning as intended.
<i>AIR FILTER</i>	The air filter is located in the return air plenum adjacent to the furnace. The air filter should be cleaned or replaced at least 2-3 times during the heating season.
<i>DUCTS</i>	The ductwork was inaccessible and was not inspected except to determine that air flow was adequate at the accessible registers.
<i>THERMOSTAT</i>	The thermostat is properly installed and the unit responded to the basic controls. This is a programmable device with options for automatic temperature settings (up and down). Testing the automatic operations of this thermostat is beyond the scope of this inspection.
<i>GENERAL COMMENTS</i>	The furnace responded to the thermostats call for heat and all major components were functional. This type of furnace should be serviced annually.

## WATER HEATER

Our review of water heaters includes the tank, gas and/or water connections, electrical connections, venting and safety valves. These items are examined for proper function, excessive or unusual wear, leakage and general state of repair. The hidden nature of piping and venting prevents inspection of every pipe, joint, vent and connection.

### The following components were inspected:

LOCATION OF UNIT	The water heater is located in the hall closet.
GENERAL INFORMATION	The water heater is electric. The capacity of the water heater is 50 gallons. The water heater is approximately 9 years old. Water heaters of this type typically last about 10-15 years.
PRESSURE RELIEF VALVE	The pressure relief valve is properly installed. The valve was not tested, as this could cause the valve to leak.
SHUTOFF VALVE	The shutoff valve for the water supply to the water heater is properly installed and is functioning as intended.
WATER CONNECTIONS TANK	AT The water connections at the tank are properly installed and are performing their intended function.
EXPANSION TANK	The expansion tank is not adequately secured to the wall. As code requirements start to call for engineered expansion tank supports we recommend the installation of seismic restraints to secure the expansion tank instead of allowing it to simply depend on piping connections that could result in damage to the water pipe and leakage during an earthquake.



SEISMIC RESTRAINT	The water heater is secured to the wall. This prevents it from falling over during an earthquake and rupturing gas and water lines.
GENERAL COMMENTS	The water heater is nearing the end of its service life. The need for water heater replacement should be anticipated.

## KITCHEN

The kitchen was inspected for proper function of components, active leakage, excessive or unusual wear and general state of repair. We inspect built-in appliances using normal operating controls. This includes running the dishwasher, operating the garbage disposal and microwave and checking the burners or heating elements in the stove and oven. Accuracy and/or function of clocks, timers, temperature controls and self cleaning functions on ovens is beyond the scope of our testing procedure. Refrigerators are not tested or inspected unless specifically noted.

### The following components were inspected:

<i>COUNTERTOPS</i>	The countertops are covered with plastic laminate. The counter tops are properly installed and are in good condition.
<i>CABINETS</i>	The finish on the kitchen cabinets is slightly worn. The cabinets are otherwise in good condition.
<i>FLOORING MATERIAL</i>	The floor is covered with sheet vinyl. The floor is properly installed and is in good condition.
<i>VENTILATION</i>	Ventilation in the kitchen is provided by a fan built into the bottom of the microwave oven over the stove. The vent is ducted to the exterior. The vent fan is properly installed and is performing its intended function.
<i>SINK FAUCET</i>	The sink faucet is properly installed and is in good condition.
<i>SINK</i>	The kitchen sink is properly installed and is in good condition.
<i>DRAINS, TRAPS AND TRAP ARMS</i>	The sink drain is properly installed and is performing its intended function.
<i>AIR GAP</i>	The dishwasher drain lacks an air gap. The dishwasher will function without one, but there is a risk of contamination of the inside of the dishwasher by waste water. The installation of an air gap above the flood rim of the sink is recommended.



<i>RANGE</i>	No tip out protection was installed for the range. This is a hazard for small children. We recommend tip out protection devices be installed.
<i>OVEN</i>	The oven was tested and was functioning as intended.
<i>MICROWAVE</i>	The microwave oven was tested and was functioning as intended.
<i>COOKTOP</i>	The cooktop elements were tested and were functioning as intended.
<i>DISHWASHER</i>	The dishwasher was tested and was functioning as intended.
<i>GARBAGE DISPOSAL</i>	The garbage disposal was tested and was functioning as intended.
<i>REFRIGERATOR</i>	The refrigerator is functioning as intended.

## BATHROOMS

Our inspection of the bathrooms consists of testing of the plumbing fixtures for condition and function. Defects such as leaks, cracked or damaged sinks, tubs and toilets will be listed under the heading of the bathroom in which they were found. The bathroom floor, tub and shower walls are examined for water damage. Ventilation fans are tested for proper operation. Cabinets and countertops are examined for excessive wear and deterioration. Hydromassage tubs are tested and the pump and related equipment are examined when accessible.

### BATHROOM

LOCATION	Primary Bedroom.
SHOWER	The one piece fiberglass shower unit is properly installed and in good condition.
GLASS ENCLOSURE	The glass shower enclosure is labeled as tempered safety glass, is properly installed and in good condition.
FLOORING MATERIAL	The floor is covered with vinyl tiles. The floor is properly installed and is in good condition.
	It is important to maintain the caulking around bathtubs and showers, especially at the intersection between the tub or shower and the floor. Failure to maintain this seal will often result in damage to flooring materials, subflooring and framing.
TOILET	The toilet was flushed and was functioning as intended.
SINK	The bathroom sinks are properly installed and are in good condition.
DRAINS, TRAPS AND TRAP ARMS	The sink drains are properly installed and are performing their intended function.
FAUCET FIXTURES	The faucet fixtures were tested and were functioning as intended.
CABINETS	The finish on the bathroom cabinet is slightly worn. The cabinet is otherwise in good condition.
COUNTERTOP	The countertop is covered with ceramic tile. The countertop is properly installed and in good condition.
VENTILATION	Ventilation in this bathroom is provided by a ceiling fan. This fan was operated and was found to be working satisfactorily.
GFCI RECEPTACLES	A ground fault circuit interrupter (GFCI) is a device that detects ground faults (current leakage to ground). It protects you from electrocution. GFCI protection is required for receptacles in bathrooms, kitchens, garages, unfinished basements, crawlspaces and at exterior receptacles. GFCI protected receptacles were found in this bathroom.

### BATHROOM

LOCATION	Hallway.
SHOWER	The shower walls are properly installed and are in good condition.
GLASS ENCLOSURE	The glass shower enclosure is labeled as tempered safety glass, is properly installed and in good condition.
FLOORING MATERIAL	The floor is covered with sheet vinyl. The floor is properly installed and is in good condition.
	It is important to maintain the caulking around bathtubs and showers, especially at the intersection between the tub or shower and the floor. Failure to maintain this seal will often result in damage to flooring materials, subflooring and framing.
TOILET	The toilet was flushed and was functioning as intended.
SINK	The bathroom sink is properly installed and is in good condition.
DRAINS, TRAPS AND TRAP ARMS	The sink drain is properly installed and is performing its intended function.
FAUCET FIXTURES	The faucet fixtures were tested and were functioning as intended.
CABINETS	The finish on the bathroom cabinet is slightly worn. The cabinet is otherwise in good condition.
COUNTERTOP	The countertop is covered with ceramic tile. The countertop is properly installed and in good condition.

*VENTILATION*

Ventilation in this bathroom is provided by a ceiling fan. This fan was operated and was found to be working satisfactorily.

*GFCI RECEPTACLES*

A ground fault circuit interrupter (GFCI) is a device that detects ground faults (current leakage to ground). It protects you from electrocution. GFCI protection is required for receptacles in bathrooms, kitchens, garages, unfinished basements, crawlspaces and at exterior receptacles.

## LAUNDRY ROOM

Appliances are tested when present and when circumstances allow.

**The following components were inspected:**

*FLOORING MATERIAL*

The floor is covered with sheet vinyl. The floor is properly installed and is in good condition.

*VENTILATION*

Ventilation in this laundry room is provided by a ceiling fan. This fan was operated and was found to be working satisfactorily.

*APPLIANCES*

The hookups for the washer are properly installed and in serviceable condition. The washer itself was not tested.

*DRYER VENT*

The hookups for the dryer are properly installed and in serviceable condition. The dryer itself was operated through a partial cycle, however we did not confirm the complete operation of the cycle timer.

The visible portions of the dryer vent are properly installed and in serviceable condition. Dryer ducts should be cleaned annually as part of routine home maintenance. A dryer duct that is clogged with lint is a fire hazard.

## PLUMBING SYSTEM

A plumbing system consists of the water heater, domestic water supply lines, drain, waste and vent lines and gas lines. Inspection of the plumbing system is limited to the water heater, visible faucets, fixtures, valves, drains, traps, exposed pipes and fittings. These items are examined for proper function, excessive or unusual wear, leakage, and general state of repair. Valves are not tested except where specifically noted. The hidden nature of piping prevents inspection of every pipe and joint. A sewer lateral test, necessary to determine the condition of the underground sewer lines, is beyond the scope of this inspection. If desired, a qualified individual could be retained for such a test. Our review of the plumbing system does not include landscape irrigation systems, off site community water supply systems or private (septic) waste disposal systems. Review of these systems should be performed by qualified and licensed specialists prior to the close of escrow.

### The following components were inspected:

<i>PLUMBING SPECIFICATIONS</i>	<i>SYSTEM</i>	The building is on a public water supply system. The building is connected to the municipal sewer system. Copper tubing is used for the water supply piping. ABS plastic is used for the drain, waste and vent pipes.
<i>MAIN WATER SHUTOFF VALVE</i>		The location of the main water shutoff valve was not determined. You should query the seller as to the location of the valve.
<i>MAIN WATER LINE</i>		The main water line is buried underground and was not visible for inspection.
<i>INTERIOR WATER PIPES</i>	<i>SUPPLY</i>	The visible portions of the copper water supply pipes are properly installed and functional. Copper is considered one of the most desirable materials for interior supply pipes and is expected to last the lifetime of the building.
<i>WATER PRESSURE</i>		The water pressure is 80 PSI This is in the normal range of 30-80 PSI.
<i>DRAIN AND WASTE PIPES</i>		ABS plastic is used for drain, waste and vent pipes. All of the visible drain pipes were properly installed and functional. ABS is a durable, reliable material and should last the lifetime of the building. All drain, waste and vent pipes were stress tested by filling bathtubs and fixtures to the overflow and then draining them while simultaneously flushing the toilet and running the sinks and showers. No leaks were observed and all fixtures emptied in a reasonable amount of time with no fluctuation in the rate of flow down the drain. This is commonly referred to as "functional drainage".
<i>VENT PIPES</i>		The visible portions of the vent pipes are properly installed and are performing their intended function.
<i>FAUCET FIXTURES</i>		All faucet fixtures were tested and were functioning as intended.
<i>HOSE BIBBS AND EXTERIOR SUPPLY PIPES</i>		The hose bibbs on this building are the frost free type. These hose bibbs typically will not freeze as long as the hoses are removed. Failure to remove hoses during freezing weather could result in a cracked pipe and leakage. The bibbs were tested and were functioning as intended.
<i>GAS PIPING</i>		The visible portions of the gas piping were properly installed and are performing their intended function. There was no odor of gas leakage at the time of the inspection.
<i>GAS METER</i>		The gas meter is located on the east side of the building. The main gas shut off valve is installed on the high pressure line emanating out of the ground. This valve requires a wrench to open and close. Keeping a gas valve wrench or adjustable wrench accessible near the gas meter is recommended.



## INTERIOR

Our review of the interior includes inspection of walls, ceilings, floors, doors, windows, cabinetry, countertops, steps, stairways, balconies and railings. These features are examined for proper function, excessive wear and general state of repair. In some cases, all or portions of these components may not be visible because of furnishings and personal effects. In such cases these items are not inspected.

### The following items were inspected:

#### GENERAL COMMENTS

The interior wall, floor, and ceiling surfaces were properly installed and generally in serviceable condition, taking into consideration normal wear and tear.

#### WALLS AND CEILINGS

There are minor cracks in the walls and/or ceilings. This is a common condition with this type of construction and does not indicate a structural deficiency. The cracks can be repaired or painted over during routine maintenance. Cracks in drywall that have been repaired will often reoccur several months after the repairs have been completed. This is due to seasonal movement of the structure caused by changes in humidity.

#### DOORS

The doors are properly installed and are in generally good condition with exceptions outlined below.

The handle to the patio door deadbolt is loose. It should be repaired as necessary.



#### CLOSET DOORS

All of the closet doors were tested and were found to be functioning as intended.

#### WINDOWS

The window frames are constructed from aluminum and have insulated glass in them. All of the windows tested and/or inspected were found to be functioning as intended.

One of the window screens is damaged. Damaged screens should be repaired or replaced so that the window(s) can be left open for ventilation as designed.



#### SMOKE DETECTORS

There is a smoke detector in each of the bedrooms and in the hallway outside of the bedrooms.

Smoke detectors are examined for location only. They are not tested. Smoke detector batteries should be replaced when you move in and every year thereafter. Once batteries have been replaced, the smoke detectors should be tested for proper operation.

Ionization technology is generally more sensitive than photoelectric technology at detecting small particles, which tend to be produced in greater amounts by flaming fires, which consume combustible materials rapidly and spread quickly. Sources of these fires may include paper burning in a wastebasket or a grease fire in the kitchen.

Photoelectric technology is generally more sensitive than ionization technology at

detecting large particles, which tend to be produced in greater amounts by smoldering fires, which may smolder for hours before bursting into flame. Sources of these fires may include cigarettes burning on couches or bedding.

FOR MAXIMUM PROTECTION: Use both Ionization and Photoelectric smoke alarms in every bedroom/hallway on every level of your home.

At least one carbon monoxide monitor should be installed for each floor. The best place to install the monitor is in an open area near the gas appliance.

*DOOR BELL*

The doorbell was functioning as intended.

## FIREPLACES, WOOD STOVES AND SPACE HEATERS

### The following components were inspected:

#### *METAL FIREPLACES*

The visible portion of the metal fireplace was evaluated. The fireplace is in good condition and no defects or deficiencies were observed.

#### *GAS LOGS*

The log lighter was tested and is functional. The gas supply for the log lighter is located on the wall or floor adjacent to the hearth. The key that turns on this valve should be kept out of the reach of children.

#### *DAMPERS*

The fireplace damper is functioning as intended. A fireplace damper that is left open when the fireplace is not being used allows huge quantities of heated air to escape up the chimney. Keeping your fireplace damper closed will result in a significant reduction in heating costs.

## ENVIRONMENTAL ISSUES

Environmental issues include but are not limited to carbon monoxide, radon, asbestos, lead paint, lead contamination, toxic waste, formaldehyde, electromagnetic radiation, buried fuel oil tanks, ground water contamination and soil contamination. The absence of a statement on any of the environmental issues listed above does not necessarily mean that they are not present. We make reference to these substances only when we recognize them during the normal inspection process. Most of the toxic substances listed above cannot be identified without laboratory testing. If further study or analysis seems prudent, the advice and services of the appropriate specialists are advised.

### The following items may exist in this building:

#### *CARBON MONOXIDE*

Many of us encounter CO regularly and never know it because it's invisible and odorless. That's why victims of CO poisoning often have no warning that they are in danger... until it's too late. Symptoms include headache, nausea, chronic fatigue, confusion and dizziness. Extreme exposure can even cause a coma or death.

Carbon monoxide is a product of incomplete (poor) combustion. It's a direct and cumulative poison. When combined with blood hemoglobin, CO replaces oxygen in the blood until it completely overcomes the body. Death from CO occurs suddenly. The victim inhaling the toxic concentration of the gas becomes helpless before realizing that danger exists.

According to the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) (Ventilation Standard 62- 89), a concentration of no more than 9 parts per million (ppm) (0.0009%), of CO is permissible in residential living spaces. In addition, the Occupational Safety and Health Administration (OSHA) has set an eight-hour work place maximum of 35 ppm. And in flue gas, the Environmental Protection Agency (EPA) and the American Gas Association (AGA) have established the maximum allowable concentration of CO at 400 ppm (See charts).

To ensure safe and efficient combustion, it is imperative that all gas burning appliances be inspected and serviced regularly (once a year) if used in normal service conditions).

#### *FORMALDEHYDE*

Formaldehyde, a colorless gas with a pungent odor, is so commonly used today that virtually everyone is likely to be exposed to at least small amounts of it, and a significant number of people are developing symptoms due to exposure to large amounts of formaldehyde in their homes or workplaces. It was an integral component of the urea formaldehyde foam insulation (UFFI) that was installed in more than five hundred thousand homes in the 1970's. (The use of formaldehyde in insulation was banned by the Consumer Product Safety Commission in 1982, but this ruling was overturned by a federal court in 1983.) In addition, it is present in a large variety of consumer products. It is a major part of the resins used as glue in particle board, plywood, and other pressed wood products used extensively in the construction of homes and furniture. Some cosmetics, paper towels, upholstery, permanent press fabrics, carpets, milk, toilet seats, pesticides, and explosives contain it too. Formaldehyde is also present in the exhaust from combustion appliances and in tobacco smoke.

The most common symptoms of excessive formaldehyde exposure are burning eyes, itching, shortness of breath, tightness in the chest, coughing, headaches, nausea, and asthma attacks. Large amounts of the gas have produced cancer in laboratory animals, and government policy assumes that any substance that can cause cancer in animals may also cause it in humans.

People who live in homes that have been "tightened" for maximum energy conservation are most likely to suffer from the effects of formaldehyde gas. The formaldehyde gas seeps from the walls, furniture, carpet, etc. into the air, building up to high levels in the "tightened" home, which can be irritating, particularly to sensitive people.

To minimize your exposure to formaldehyde, ventilate your home - in good weather, open the windows to provide a constant supply of fresh air. Some methods of heat recovery, such as heat recovery ventilators (also known as air-to-air heat exchangers), are available that can ventilate the home while also conserving energy.

You can seal exposed, raw surfaces of particle board and plywood with oil enamel,

**ASBESTOS**

varnish, wallpaper, or vinyl floor coverings. If you have UFFI insulation, make certain it is completely sealed in the walls or, as a last resort, have it removed.

Asbestos is a naturally occurring mineral fiber that has been used in more than 3,000 different construction materials and manufactured products. It is commonly found in heating system insulation, decorative spray-on ceiling treatments, vinyl flooring, cement shake siding and a variety of additional materials. Some asbestos-containing materials were still being installed into the late 1980s.

The asbestos content of different materials varies according to the product and how it is used. Among those materials with higher concentrations of asbestos are insulating products on heating systems and the backing on sheet vinyl flooring. However, an uncontrolled disturbance of any asbestos-containing material in any concentration may be dangerous to your health!

Why is it a problem? Breathing asbestos fibers could kill you. When disturbed, asbestos breaks down into fibers up to 1,200 times thinner than a human hair. When inhaled, they become trapped in lung tissues. Medical research tells us that up to 30 years after inhalation, asbestos fibers can cause lung cancer or mesothelioma, a related terminal cancer of the tissue lining the chest cavity.

Because asbestos is a naturally occurring mineral and has been so widely used in manufactured products, including automobile brake linings, it can be found almost everywhere. Trace amounts are in the air we breathe every day. Most of us have asbestos fibers in our lungs.

On the other hand, there's no known safe level of asbestos exposure. That's why medical, environmental health and regulatory organizations stress the need to protect health by minimizing exposure to airborne asbestos fibers. This is particularly true when asbestos fibers accumulate at elevated levels. Elevated levels result from uncontrolled disturbances and removal of asbestos-containing materials.

How do I know if it's asbestos? Don't guess! Look for asbestos markings on the product or track the product back to its manufacturer or supplier. If these approaches don't work, submit a small sample for laboratory analysis. Cost is minimal. Laboratories are listed in the yellow pages under "Asbestos - Consulting and Testing." Ask a laboratory technician to instruct you how to safely take a sample. If you decide not to check for asbestos in a suspected material, you should assume it contains asbestos and treat it accordingly.

## INSULATION

Insulation, weatherstripping, dampers, storm windows, insulated glass and set-back thermostats are features that help reduce heat loss and increase the comfort and thermal efficiency of your home. We examine these items and identify approximate R values for insulation. When appropriate, we offer suggestions for upgrading. Our review of insulation is based upon a random sampling of accessible areas and does not constitute a warranty that all such areas are uniformly insulated or are insulated to current standards.

**The following items were inspected:**

*WALL INSULATION*

The walls are insulated with fiberglass batt insulation. The 2x6 walls suggest that it is 6" R-19 fiberglass.

## STRUCTURE

The structural elements of most residential buildings include a foundation, footings, floor, wall, ceiling and roof framing. The visible portions of these items are examined for proper function, wear, deterioration or signs of non-performance. Some structural components or portions of them are inaccessible because they are buried below grade or hidden behind finished surfaces. Therefore, much of the structural inspection is performed by identifying resultant symptoms of movement, damage and deterioration. Where there are no visible symptoms, components or conditions requiring repair may go undetected and identification will not be possible. We make no representations as to the internal conditions or stabilities of soils, concrete footings and foundations, except as exhibited by their performance.

### The following components were inspected:

<i>GENERAL INFORMATION</i>	The foundation is constructed from poured in place concrete. A perimeter foundation wall supports the exterior walls of the building. Interior load bearing components are supported by pier footings and/or continuous spread footings. The lower floor is a concrete slab. The upper floors are constructed out of wood joists. The stud walls are constructed from 2 X 6 dimensional lumber. The exterior wall sheathing is oriented strand board (OSB).
<i>FOUNDATION</i>	The foundation is constructed in a manner typical of buildings of this type and age. No defects were observed.
<i>MUDSILL</i>	The mudsill is typically a 2x4 or 2x6 member that is laid flat directly on the top of or cast into the top of the foundation wall. The mudsill is usually bolted to the foundation wall and serves as a base for the rest of the floor framing. In this building, the mudsill is inaccessible and cannot be evaluated. There was no evidence present that would suggest that there are defects in this component.
<i>ANCHOR BOLTS</i>	Anchor bolts are bolts that are cast into the top of the concrete foundation and retain the mudsill. Anchor bolts primary function in this area, is to prevent the building from being displaced from its foundation during an earthquake. Anchor bolts have grown in diameter over the years as have the nuts and washers that retain the mudsill . Generally speaking, the newer the building, the better resistance it will have to seismic activity. Due to the design of this building, anchor bolts are not visible and could not be evaluated.
<i>FLOOR JOISTS</i>	The floor joists are covered with finished surfaces and therefore were not visible for inspection. There was no evidence present suggesting that defects or deficiencies are present.
<i>WALLS</i>	The walls are covered with finished surfaces and therefore were not visible for inspection. No evidence of defects or deficiencies was observed.
<i>GENERAL COMMENTS</i>	The inspection of the structure was limited to unit #1301's interior. A complete evaluation of the building is beyond the scope of this inspection. No evidence of defects or deficiencies were observed in this unit.