

## NOTICE TO BUYER: SELLER-PROCURED INSPECTION REPORT

between		the Purchase and Sale A		("Buyer"
and Mark Leinenwever		Karen Leinenwever		("Seller"
concerning 13715	180th Ave NE	Redmond	WA 98052	("the Property")
Seller has given or apply):	is giving Buyer the follow	ring Inspection Report(s)	concerning the Pro	perty (check all tha
X Whole Hous	se Inspection			
Sewer Inspe	ection			
Pest Inspect	ion			
Other:				
only. The Inspection the condition of the inspectors chosen in	n Report(s) are not inter he Property. Buyer is a	er and are provided for inded to constitute a warred vised to procure their oectors that prepared their's satisfaction.	anty, either expres	ss or implied, abou from professiona
Mar tours		Seller	Le	3/16/21 DATE
Buyer's Acknowled	gment of Receipt			
The undersigned Bu Report(s).	yer acknowledges receip	t of the foregoing Notice	and the above-ref	erenced Inspection
Buyer	DATE	 Buyer		

## Mark and Karen Leinenwever

## 13715 180<sup>th</sup> Ave NE

## Redmond, WA 98052

Per the seller, the following items listed on the pre-sale inspection summary dated March 22<sup>nd</sup>, 2021, are being corrected by the seller as part of preparation for sale in good faith.

## The following actions items have been completed by seller as of March 24th, 2021:

- **5.4** Bird screening added to voids in attic above garage.
- **6.2** Safety cables installed on garage door springs.
- **6.4** Voids in the fire barrier have been corrected.
- **7.10** Loose wiring and junction boxes in attic have been secured.
- **7.12** Loose receptacles have been corrected.
- 7.13 GFCI outlets have been corrected.
- **8.10** Clearance to B vent have been corrected.
- 10.1 Kitchen backsplash has been caulked
- 11.9 & 11.13 Drain stops have been corrected
- **11.15** Tub spout has been corrected.

# If requested in the Purchase and Sale Agreement, the Seller will consider the following corrections by closing:

- **9.3, 9.5, 9.11 & 9.13 –** Seller will install a new water heater to code.
- **12.2** Seller will install smooth wall dryer vent ducting to exterior and repair drywall.

March 24, 2021

Mr. & Mrs. Mark & Karen Leinenwever 13715 180th Ave. NE Redmond, WA.

Re: 13715 180th Ave. NE Redmond, WA.

Dear Mark & Karen;

At your request, a visual inspection of the above referenced property was conducted on 03/22/2021. 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

#### **BUILDING SITE**

#### 2.4 DRIVEWAY

The driveway has cracked and settled differentially. This was probably caused by inadequate preparation of the soil prior to the placement of the concrete. This condition can be repaired by pressure grouting the sunken portion of the driveway or by removing and replacing it. The driveway remains functional despite this condition.





## 2.5 WALKWAY

The walkway has cracked and settled differentially. The walkway remains functional despite this condition. However, the raised edges of the concrete can be a trip hazard for some people. Grinding down the raised edges of the concrete will mitigate the hazard. Repairs should be made as necessary.

The wooden divider(s) separating the concrete walkway sections were infested by wood destroying organisms and have deteriorated to a point where they are becoming a trip hazard. Replacement with mortar is recommended.



## **BUILDING EXTERIOR**

#### 3.1 PRIMARY EXTERIOR WALL CLADDING

The bottom of the fireplace chase walls at the north side are rotted where they have had chronic contact with moisture. Rot damaged material should be repaired and protected from chronic contact with moisture.



#### 3.4 GUTTERS AND DOWNSPOUTS

Gutters are missing from the upper roof runoff of the building. Gutters should be installed to prevent water splash on the siding and saturated soils adjacent building components.





#### **GARAGE**

#### ATTACHED GARAGE

## 6.2 OVERHEAD GARAGE DOORS

Safeties are cables run through the center of the garage door springs that prevent broken springs from becoming projectiles that can cause injury. There are no safeties installed. The installation of safeties is recommended.

The north garage door was inoperative. Repairs are recommended.



## 6.3 GARAGE DOOR OPENER

There was no photo-eye sensor installed for the garage door to offer protection for small children and/or pets. We recommend that a photo-eye sensor be installed for the garage door at a height of within 4-6" of the floor.

## 6.4 FIRE SEPARATION

The pull down ladder is a breech in the fire resistive barrier in the garage. This is a safety concern. The gypsum barrier on the ceiling slows the spread of a fire from the garage to the attic. The installation of a layer of 5/8" gypsum type X board over the 1/4" plywood is recommended.



The cover for the attic access is a breech in the fire resistive barrier in the garage. This is a safety concern. The gypsum barrier on the ceiling slows the spread of a fire from the garage to the attic. The installation of a layer of 5/8" gypsum type X board over the exposed wood is recommended.



The installation of a furnace vent thimble is recommended to prevent flames to spread to the structure.



There are voids in the fire resistive barrier between the living space and garage that will allow flames to penetrate. The gypsum barrier slows the spread of a fire from the garage to the structure and/or living space. Patching the voids with a fire retardant caulk is recommended.





Several of the joints are not taped. Consideration should be given to "fire taping" the drywall as a safety upgrade.



#### **ELECTRICAL SYSTEM**

#### 7.3 SERVICE PANEL LOCATION

The service panel is located in the garage. Access to the electrical panel is blocked by shelving. Shelves should be removed or modified so that there is a 30" wide by 36" deep by 7' tall clearance in front of the panel.



## 7.10 WIRING

Loose electrical cables were observed in the garage attic. Loose cables are vulnerable to damage. All loose cables should be secured at 4' intervals using approved cable staples.

Loose junction boxes were observed in the garage attic. This is a hazard. The junction boxes should be attached and secured to the framing. Loose cables are vulnerable to damage. All loose cables should be secured at 4' intervals using approved cable staples.





## 7.12 RECEPTACLES

There are several loose receptacles throughout the home. This is a potential shock and a fire hazard. All loose receptacles should be repaired as necessary.

#### 7.13 GFCI RECEPTACLES

The installation of additional GFCI protection in the garage and kitchen receptacles is recommended.

The GFCI receptacles in the upper bathrooms do not reset when a ground fault is introduced. This is caused by a redundant GFCI. The installation of just one GFCI outlet for protection of each circuit is recommended.

#### **HEATING SYSTEM**

## FORCED AIR HEATING SYSTEM

8.10 VENT

The furnace vent connector is too close to a combustible material. This is a hazard. A minimum clearance of 6" is required between the single wall vent connector and the combustible material. The double wall type B vent requires only 1" of clearance. Repairs are recommended.



#### **WATER HEATER**

#### 9.3 PRESSURE RELIEF VALVE

The pressure relief valve lacks a drain pipe. This is a scald hazard. The installation of a 3/4" copper, CPVC plastic or galvanized steel drain pipe is recommended. Ideally, the drain should be routed to the exterior. However, running the pipe straight down to the floor eliminates the scald hazard.



## 9.5 WATER CONNECTIONS AT TANK

The nipples sticking out of the top of the water heater are corroded and may start to leak. The nipples should be monitored for leakage and replaced as necessary. Installing brass nipples will eliminate the corrosion that occurs when two dissimilar metals are joined together in the presence of water.



#### 9.11 SEISMIC RESTRAINT

The seismic restraint for the water heater was minimal. Proper strapping is recommended to adequately secure the tank and provide potable water in the event of an earthquake.



#### 9.13 GENERAL COMMENTS

The water heater is nearing the end of its service life. The need for water heater replacement should be anticipated.

#### **KITCHEN**

#### 10.8 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 is recommended or connection to the Johnson Tee that is installed in the kitchen wall. This air gap protects the dishwasher from contamination caused by a backflow of waste water.



#### LAUNDRY ROOM

#### 12.2 DRYER VENT

Improper material has been used for the dryer vent duct. This material tends to clog with lint and will lengthen the drying time for clothes. A new duct system should be installed that complies with present building standards. Present standards for dryer vents require a 4 inch, smooth wall duct, no longer than 35 feet, with a hooded damper at the exterior termination. A flexible duct (6 ft max) can only be used between the dryer and floor or wall inlet.



#### **INTERIOR**

14.2 STAIRS

The stair railing baluster spacing is too wide. This is a hazard for small children. The baluster spacing should be reduced as a safety upgrade. Current standards require that a 4" sphere not pass through the railing.





### 14.3 GUARD RAILINGS

The spacing between the balusters is too wide. This is a hazard to small children. The balusters should be spaced close enough together so that a 4" sphere cannot pass through. Upgrading the guard railing is recommended if small children are present.

#### 14.7 WINDOWS

The lift assist mechanism for the window in the bedroom room is in need of repair. The window should not be used until repairs are completed.

#### 14.8 SMOKE DETECTORS

There is a smoke detector in the hallway outside of the bedrooms. Additional smoke detectors should be installed inside the bedrooms near the door.

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.

## FIREPLACES, WOOD STOVES AND SPACE HEATERS

#### 15.3 GAS STOVE INSERT

The gas stove insert was not tested. The operation of the gas appliance was not verified. The condition of the fireplace in which the insert is placed was not visible for inspection and its condition was not determined. The smoke pipe should extend from the top of the insert, through the smoke chamber and into the flue. This portion of the installation is not visible for inspection.

#### 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 SITE**

## 2.5 WALKWAY

Minor cracks observed in the concrete surface of the walkway can be sealed to minimize moisture entry and further settlement of the concrete.



### **BUILDING EXTERIOR**

#### 3.3 SOFFITS AND OVERHANGS

There are openings at the intersection between the overhang and the roof through which birds and rodents can enter into the attic. These openings should be covered with wood, wire mesh or filled with aerosol foam.



There are large gaps over 1/4" in size adjacent the soffit vent blocks. These gaps allow insects and rodents to enter the attic. Covering the gaps with screening, a strip of wood and/or caulking is recommended.



#### **ROOF**

### 4.5 FLASHINGS

There is no kick out flashing at the roof edge to wall intersection. This will allow water to enter the wall behind the siding. The installation of a kick-out flashing is recommended.



#### **ATTIC**

#### 5.3 MECHANICAL VENTILATION SYSTEMS

Flexible plastic duct is used to direct air from the vent fan to the exterior. This type of material is unreliable. Replacing the plastic duct with 4" smooth-wall sheet metal duct is recommended.



## 5.4 PEST CONTROL

There is a birds nest in the attic. We recommend sealing holes and gaps using wire mesh, caulking, wood or aerosol foam to prevent further activity.





## **KITCHEN**

## 10.1 COUNTERTOPS

The backsplash is not caulked. This allows water and food to enter the gap between the back splash and counter and is difficult to clean. Caulking should be installed at this location.

#### **BATHROOMS**

## UPPER FLOOR HALLWAY BATHROOM

## 11.9 BATHTUB

The drain stop is missing. Drain stop replacement is recommended.

### 11.13 SINK

The drain stop is not operational. It should be repaired or replaced.

#### 11.15 FAUCET FIXTURES

The tub spout is not mounted flush to the wall. This can result in leaks. The spout should be made flush to the

wall in accordance with industry standards.



### LAUNDRY ROOM

12.1 APPLIANCES

Upgrading the washer connections to high pressure (steel braided) lines is recommended.



## **PLUMBING SYSTEM**

13.9 HOSE BIBBS AND EXTERIOR SUPPLY PIPES

The hose bibb on the rear of the house is loose. This could result in damage to the water pipe and leakage. The bibb should be securely fastened to the wall.

## **INTERIOR**

14.5 DOORS

Some of the doors are missing their door stops. This condition will lead to damage of the wall surfaces. Door stops should be installed where necessary.

## **INSULATION**

17.1 ATTIC INSULATION

The attic is insulated with blown in fiberglass insulation. The attic insulation has been unevenly distributed to allow for storage. The attic insulation should be evenly distributed throughout the attic.

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

Leinenwever

Clark Inspections Inc.

## **Confidential Inspection Report**

13715 180th Ave. NE Redmond, WA

March 22, 2021

Prepared for: Mark & Karen Leinenwever

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.

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3/24/2021

Mr. & Mrs. Mark & Karen Leinenwever 13715 180th Ave. NE Redmond,WA

Dear Mark & Karen,

Thank you for inviting Clark Inspections to inspect for you. We appreciate having the opportunity to perform this home inspection and are happy to help with all of your inspection needs. Enclosed is our report for the property located at;

#### 13715 180th Ave. NE

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.

This inspection report is designed to be easy to understand. Please take time to review it carefully. If you have any questions regarding this inspection, or receive information from another building inspection professional, contractor, or tradesperson, that is in conflict with this report, or any major defect in your home or building that was not described in your verbal or written reports, please call our office immediately. We are happy to answer any questions you may have.

Thank you for the opportunity to be of service.

Sincerely,

Terry Clark

**Clark Inspections** 

## **GENERAL INFORMATION**

**CLIENT & SITE INFORMATION:** 

#### 1.1 DATE OF INSPECTION:

3/22/2021.

## 1.2 INSPECTOR'S NAME:

Terry Clark.

## **1.3 CLIENT NAME:**

Mr. & Mrs. Mark & Karen Leinenwever.

## **1.4 MAILING ADDRESS:**

13715 180th Ave. NE Redmond WA.

## 1.5 CLIENT E-MAIL ADDRESS

karen.len@hotmail.com.

#### 1.6 ADDRESS OF PROPERTY INSPECTED

13715 180th Ave. NE Redmond WA.





**CLIMATIC CONDITIONS:** 

## 1.7 WEATHER:

Partly Cloudy.

## 1.8 APPROXIMATE OUTSIDE TEMPERATURE:

48 degrees.

BUILDING CHARACTERISTICS:

#### 1.9 MAIN ENTRY FACES:

East.

#### 1.10 ESTIMATED AGE OF BUILDING:

The building is approximately 49 years old.

#### 1.11 BUILDING TYPE:

Two story single family residence.

#### 1.12 SPACE BELOW GRADE:

Slab on grade.

SCOPE, PURPOSE AND LIMITATIONS

#### 1.13 RESIDENTIAL

The purpose of this inspection was to discover and evaluate major defects, deficiencies and deferred maintenance found in the main components of the house and in the building site immediately around the building inspected. 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 it's 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 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 the verbal and written reports.

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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.

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

#### 1.14 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.

#### 1.15 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:

## 2.1 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.

Representative samples of the roof water drain system were tested by inserting a hose into the drain inlet and then letting it run for 10 minutes. There was no water back-up or overflow from the drain line inlets tested.

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.

#### 2.2 GRADING

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

## 2.3 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.

#### 2.4 DRIVEWAY

The driveway has cracked and settled differentially. This was probably caused by inadequate preparation of the soil prior to the placement of the concrete. This condition can be repaired by pressure grouting the sunken portion of the driveway or by removing and replacing it. The driveway remains functional despite this condition.





#### 2.5 WALKWAY

The walkway has cracked and settled differentially. The walkway remains functional despite this condition. However, the raised edges of the concrete can be a trip hazard for some people. Grinding down the raised edges of the concrete will mitigate the hazard. Repairs should be made as necessary.

The wooden divider(s) separating the concrete walkway sections were infested by wood destroying organisms and have deteriorated to a point where they are becoming a trip hazard. Replacement with mortar is recommended.

Minor cracks observed in the concrete surface of the walkway can be sealed to minimize moisture entry and further settlement of the concrete.



### 2.6 FENCES AND GATES

The fences are properly installed and are performing their intended function. The gate is properly installed and is performing its intended function.

## **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:

#### 3.1 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.

The bottom of the fireplace chase walls at the north side are rotted where they have had chronic contact with moisture. Rot damaged material should be repaired and protected from chronic contact with moisture.



## 3.2 PEST CONTROL

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. These minimum standards should be maintained throughout the building exterior.

#### 3.3 SOFFITS AND OVERHANGS

The building has adequate overhangs. Overhangs protect the exterior walls, windows, doors, siding and exterior finish from the ravages of direct rain fall. Buildings with adequately sized overhangs will generally require less frequent exterior maintenance and are less likely to suffer from moisture related problems on the exterior walls.

There are openings at the intersection between the overhang and the roof through which birds and rodents can enter into the attic. These openings should be covered with wood, wire mesh or filled with aerosol foam.

There are large gaps over 1/4" in size adjacent the soffit vent blocks. These gaps allow insects and rodents to enter the attic. Covering the gaps with screening, a strip of wood and/or caulking is recommended.



#### 3.4 GUTTERS AND DOWNSPOUTS

Gutters are missing from the upper roof runoff of the building. Gutters should be installed to prevent water splash on the siding and saturated soils adjacent building components.

The lower 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. The downspouts are properly installed and are functioning as intended.



## **3.5 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.

#### 3.6 EXTERIOR DOORS

The exterior doors are properly installed and are 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:

#### **4.1 GENERAL INFORMATION**

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 from the lower roof. The roof is approximately 15 years old.

#### **4.2 INSPECTION METHOD**

The inspection of this roof was conducted from the roof surface. The inspector walked on the lower roof and made a visual inspection of the components listed below.

#### 4.3 CHIMNEYS

The visible portion of the metal, factory-built chimney is properly installed and in good condition.

#### 4.4 GAS APPLIANCE VENTS

The visible portions of the gas appliance type B vents are properly installed and in good condition.

## 4.5 FLASHINGS

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.

There is no kick out flashing at the roof edge to wall intersection. This will allow water to enter the wall behind the siding. The installation of a kick-out flashing is recommended.

#### **4.6 GENERAL COMMENTS**

The roofing material was properly installed and is in serviceable condition. With proper care and maintenance this roof should remain serviceable for up to 10 more years.

## **ATTIC**

The attic contains the roof framing and serves as a raceway for components of the plumbing, electrical and mechanical systems. There are often heating ducts, bathroom vent ducts, electrical wiring, chimneys and gas appliance vents in the attic. We examine the visible portions of the various systems and components for proper function, excessive or unusual wear, general state of repair, roof leakage, attic venting and misguided improvements. When low clearance and/or deep insulation prohibit walking in an unfinished attic, inspection will be performed from the access opening only. *The following components were inspected:* 

## **5.1 ACCESS**

The attic access is located in the master bedroom closet.

#### **5.2 VENTILATION**

The attic is adequately vented.

#### 5.3 MECHANICAL VENTILATION SYSTEMS

Flexible plastic duct is used to direct air from the vent fan to the exterior. This type of material is unreliable. Replacing the plastic duct with 4" smooth-wall sheet metal duct is recommended.



#### **5.4 PEST CONTROL**

The first step in preventing rodents from entering the attic is to seal all possible entry points using wire mesh, caulking, wood, stainless steel wool, or aerosol foam. Careful work sealing cracks, holes and gaps over 1/4" in size will discourage rodent activity.

There is a birds nest in the attic. We recommend sealing holes and gaps using wire mesh, caulking, wood or aerosol foam to prevent further activity.





## **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:

#### **6.1 GARAGE FLOOR**

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.

#### **6.2 OVERHEAD GARAGE DOORS**

The garage is fitted with a pair of roll-up doors. The south garage door is properly installed and is performing its intended function.

Safeties are cables run through the center of the garage door springs that prevent broken springs from becoming projectiles that can cause injury. There are no safeties installed. The installation of safeties is recommended.

The north garage door was inoperative. Repairs are recommended.



#### **6.3 GARAGE DOOR OPENER**

The garage door opener was tested and was functional. The auto stop reverse safety switch was functioning as intended.

There was no photo-eye sensor installed for the garage door to offer protection for small children and/or pets. We recommend that a photo-eye sensor be installed for the garage door at a height of within 4-6" of the floor.

#### **6.4 FIRE SEPARATION**

The pull down ladder is a breech in the fire resistive barrier in the garage. This is a safety concern. The gypsum barrier on the ceiling slows the spread of a fire from the garage to the attic. The installation of a layer of 5/8" gypsum type X board over the 1/4" plywood is recommended.

The cover for the attic access is a breech in the fire resistive barrier in the garage. This is a safety concern. The gypsum barrier on the ceiling slows the spread of a fire from the garage to the attic. The installation of a layer of 5/8" gypsum type X board over the exposed wood is recommended.

The installation of a furnace vent thimble is recommended to prevent flames to spread to the structure.

There are voids in the fire resistive barrier between the living space and garage that will allow flames to penetrate. The gypsum barrier slows the spread of a fire from the garage to the structure and/or living space. Patching the voids with a fire retardant caulk is recommended.

Several of the joints are not taped. Consideration should be given to "fire taping" the drywall as a safety upgrade.







#### **6.5 PASSAGE DOOR**

The door between the garage and living space is a solid core door with a self closing hinge. The door is properly installed and is in good condition.

## 6.6 EXTERIOR DOOR(S)

The exterior door to the garage has been properly installed and is in good condition.

#### **6.7 RECEPTACLES**

The receptacle in the garage was not observed.

## **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.

#### 7.1 ELECTRICAL SYSTEM SPECIFICATIONS

The following components were inspected:

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 125. 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.

#### 7.2 UNDERGROUND SERVICE LATERAL

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.

#### 7.3 SERVICE PANEL LOCATION

The service panel is located in the garage. Access to the electrical panel is blocked by shelving. Shelves should be removed or modified so that there is a 30" wide by 36" deep by 7' tall clearance in front of the panel.



#### 7.4 MAIN DISCONNECT LOCATION

The main disconnect is an integral part of the service panel. The ampacity of the main disconnect is 125 amps.

#### 7.5 SERVICE ENTRANCE CONDUCTORS/CABLES/RACEWAYS

The service entrance conductors are 1/0 aluminum and have an ampacity of 125 amps. The service entrance conductors are properly installed and in serviceable condition.

#### 7.6 SERVICE AMPACITY

The capacity of the electrical service is 125 amps. A 125 amp service is adequate for this house with the existing electrical equipment. There is also room to add additional circuits if necessary.

#### 7.7 SERVICE GROUNDING AND BONDING

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.

#### 7.8 SERVICE PANEL

The electrical service panel is properly installed and in serviceable condition. The circuits are labeled. The accuracy of the labeling was not verified. Do not assume the labeled circuit is off unless it has been checked with a voltage tester.

#### 7.9 OVER CURRENT PROTECTION

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.

## **7.10 WIRING**

The visible portions of the wiring are properly installed except where noted below.

Loose electrical cables were observed in the garage attic. Loose cables are vulnerable to damage. All loose cables should be secured at 4' intervals using approved cable staples.

Loose junction boxes were observed in the garage attic. This is a hazard. The junction boxes should be attached and secured to the framing. Loose cables are vulnerable to damage. All loose cables should be secured at 4' intervals using approved cable staples.





#### 7.11 ALUMINUM WIRING

This house uses stranded aluminum wire for service entrance conductors and for 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.

#### 7.12 RECEPTACLES

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

There are several loose receptacles throughout the home. This is a potential shock and a fire hazard. All loose receptacles should be repaired as necessary.

#### 7.13 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.

The installation of additional GFCI protection in the garage and kitchen receptacles is recommended.

The GFCI receptacles in the upper bathrooms do not reset when a ground fault is introduced. This is caused by a redundant GFCI. The installation of just one GFCI outlet for protection of each circuit is recommended.

#### 7.14 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.

#### 7.15 LUMINARIES

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

#### 7.16 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:

#### **8.1 GENERAL INFORMATION**

Heat is provided by a natural gas fired forced air furnace. The furnace is located in the garage. The furnace is approximately 13 years old. The input rating of the furnace is 59,000 BTU. This BTU rating is typical of a home of this size and age.

## **8.2 GAS PIPING**

The flex connector is properly installed and is performing its intended function.

### 8.3 AUTOMATIC GAS VALVE

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.

## 8.4 IGNITION

The furnace uses an electronic hot surface ignition. This component was functioning as intended.

#### 8.5 BURNERS

The gas burners are properly installed and are functioning as intended.

#### **8.6 COMBUSTION AIR**

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.

#### 8.7 ELEVATION ABOVE GARAGE FLOOR

The burners in the furnace are elevated at least 18" above the garage floor in accordance with industry standards. This elevation prevents ignition of gasoline fumes that might leak from cars, lawn mowers, gas cans, etc.

#### **8.8 HEAT EXCHANGER**

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.

#### **8.9 DRAFT INDUCER**

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.

#### **8.10 VENT**

The furnace uses a type B vent from the top of the furnace to the exterior. The visible portion of the B vent is functioning as intended.

The furnace vent connector is too close to a combustible material. This is a hazard. A minimum clearance of 6" is required between the single wall vent connector and the combustible material. The double wall type B vent requires only 1" of clearance. Repairs are recommended.



#### **8.11 BLOWER**

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.

#### 8.12 AIR FILTER

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.

## **8.13 DUCTS**

The ductwork was inaccessible and was not inspected except to determine that air flow was adequate at the accessible registers.

#### **8.14 THERMOSTAT**

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.

## **8.15 GENERAL COMMENTS**

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:

### 9.1 LOCATION OF UNIT

The water heater is located in the garage.

#### 9.2 GENERAL INFORMATION

The water heater fuel is natural gas. The capacity of the water heater is 50 gallons. The input rating of the burner is approximately 40,000 BTU. The water heater is approximately 18 years old. Water heaters of this type typically last about 10-15 years.

## 9.3 PRESSURE RELIEF VALVE

The pressure relief valve is properly installed. The valve was not tested, as this could cause the valve to leak.

The pressure relief valve lacks a drain pipe. This is a scald hazard. The installation of a 3/4" copper, CPVC plastic or galvanized steel drain pipe is recommended. Ideally, the drain should be routed to the exterior. However, running the pipe straight down to the floor eliminates the scald hazard.



### 9.4 SHUTOFF VALVE

The shutoff valve for the water supply to the water heater is properly installed and is functioning as intended.

### 9.5 WATER CONNECTIONS AT TANK

The nipples sticking out of the top of the water heater are corroded and may start to leak. The nipples should be monitored for leakage and replaced as necessary. Installing brass nipples will eliminate the corrosion that occurs when two dissimilar metals are joined together in the presence of water.



## 9.6 AUTOMATIC GAS VALVE

The automatic gas valve or safety valve is designed to prevent the emission of fuel into the appliance if it does not detect heat for ignition. These valves are generally very reliable. The automatic gas valve was functioning as intended.

#### 9.7 BURNER

The gas burner is properly installed and is functioning as intended.

#### 9.8 GAS PIPING

The flex connector is properly installed and is performing its intended function.

#### **9.9 VENT**

The water heater uses a type B vent from the top of the draft hood to the exterior. The visible portion of the B vent is properly installed and is functioning as intended.

#### 9.10 COMBUSTION AIR

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.

#### 9.11 SEISMIC RESTRAINT

The seismic restraint for the water heater was minimal. Proper strapping is recommended to adequately secure the tank and provide potable water in the event of an earthquake.



#### 9.12 ELEVATION ABOVE GARAGE FLOOR

The burner of the water heater is elevated at least 18" above the garage floor in accordance with industry standards. This elevation prevents ignition of gasoline fumes that might leak from cars, lawn mowers, gas cans, etc.

## 9.13 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:* 

### **10.1 COUNTERTOPS**

The countertops are covered with slab granite. The counter tops are properly installed and are in good condition.

The backsplash is not caulked. This allows water and food to enter the gap between the back splash and counter and is difficult to clean. Caulking should be installed at this location.

#### **10.2 CABINETS**

The finish on the kitchen cabinets is slightly worn. The cabinets are otherwise in good condition.

### **10.3 FLOORING MATERIAL**

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

#### **10.4 VENTILATION**

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.

#### **10.5 SINK FAUCET**

The sink faucet is properly installed and is in good condition.

#### **10.6 SINK**

The kitchen sink is properly installed and is in good condition.

## 10.7 DRAINS, TRAPS AND TRAP ARMS

The sink drain is properly installed and is performing its intended function.

### **10.8 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 is recommended or connection to the Johnson Tee that is installed in the kitchen wall. This air gap protects the dishwasher from contamination caused by a backflow of waste water.





### **10.9 OVEN**

The oven was tested and was functioning as intended.

#### **10.10 COOKTOP**

The cooktop elements were tested and was functioning as intended.

## **10.11 DISHWASHER**

The dishwasher was tested and was functioning as intended.

### 10.12 GARBAGE DISPOSAL

The garbage disposal was tested and was functioning as intended.

### **10.13 REFRIGERATOR**

The refrigerator is functioning as intended.

### **10.14 RECEPTACLES**

There are no GFCI protected receptacles in the kitchen. The installation of GFCI protection is recommended.

## **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

#### 11.1 LOCATION

Master Bedroom.

#### 11.2 BATHTUB

The bathtub is properly installed and is in good condition.

The drain stop is missing. Drain stop replacement is recommended.

#### 11.3 TUB WALLS

The tub walls are properly installed and are in good condition.

#### 11.4 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.

#### **11.5 TOILET**

The toilet was flushed and was functioning as intended.

#### 11.6 VENTILATION

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

#### 11.7 GFCI RECEPTACLES

GFCI protected receptacles were found in this bathroom. BATHROOM

## 11.8 LOCATION

Upper Floor Hallway.

### **11.9 BATHTUB**

The bathtub is properly installed and is in good condition.

The drain stop is missing. Drain stop replacement is recommended.

#### **11.10 TUB WALLS**

The tub walls are properly installed and are in good condition.

#### 11.11 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.

## **11.12 TOILET**

The toilet was flushed and was functioning as intended.

#### 11.13 SINK

The bathroom sink is properly installed and is in good condition.

The drain stop is not operational. It should be repaired or replaced.

#### 11.14 DRAINS, TRAPS AND TRAP ARMS

The sink drains are properly installed and are performing their intended function.

#### 11.15 FAUCET FIXTURES

The faucet fixtures were tested and were functioning as intended.

The tub spout is not mounted flush to the wall. This can result in leaks. The spout should be made flush to the wall in accordance with industry standards.



#### 11.16 CABINETS

The finish on the bathroom cabinet is slightly worn. The cabinet is otherwise in good condition.

#### 11.17 COUNTERTOP

The countertop is covered with slab granite. The countertop is properly installed and in good condition.

## 11.18 VENTILATION

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

## 11.19 GFCI RECEPTACLES

GFCI protected receptacles were found in this bathroom. BATHROOM

#### 11.20 LOCATION

Main Floor, Powder Room.

## 11.21 FLOORING MATERIAL

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

#### **11.22 TOILET**

The toilet was flushed and was functioning as intended.

#### 11.23 SINK

The bathroom sink is properly installed and is in good condition.

#### 11.24 DRAINS, TRAPS AND TRAP ARMS

The sink drain is properly installed and is performing its intended function.

#### 11.25 FAUCET FIXTURES

The faucet fixture was tested and was functioning as intended.

## **11.26 VENTILATION**

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

#### 11.27 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.

## LAUNDRY ROOM

Appliances are tested when present and when circumstances allow. *The following components were inspected:* 

#### 12.1 APPLIANCES

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

Upgrading the washer connections to high pressure (steel braided) lines is recommended.



### 12.2 DRYER VENT

Improper material has been used for the dryer vent duct. This material tends to clog with lint and will lengthen the drying time for clothes. A new duct system should be installed that complies with present building standards. Present standards for dryer vents require a 4 inch, smooth wall duct, no longer than 35 feet, with a hooded damper at the exterior termination. A flexible duct (6 ft max) can only be used between the dryer and floor or wall inlet.



## **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:

#### 13.1 PLUMBING SYSTEM SPECIFICATIONS

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.

#### 13.2 MAIN WATER SHUTOFF VALVE

The main water supply shutoff valve is located in the garage. It was tested and was functional.

#### **13.3 MAIN WATER LINE**

The main water line is buried underground and was not visible for inspection. The flow indicator on the water meter was checked with all the water shut off in the house. There was no movement of the flow indicator. This suggests that there are no leaks in the main water line. You should check the meter periodically (2-4 times a year) with all the water in the house shut off. Movement of the flow indicator on the meter means that there is a leak either inside the house or in the main line underground.

#### 13.4 INTERIOR WATER SUPPLY PIPES

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.

#### 13.5 WATER PRESSURE

The water pressure is 80 PSI This is in the normal range of 30-80 PSI.

#### 13.6 DRAIN AND WASTE PIPES

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".

#### **13.7 VENT PIPES**

The visible portions of the vent pipes are properly installed and are performing their intended function.

#### **13.8 FAUCET FIXTURES**

All faucet fixtures were tested and were functioning as intended.

### 13.9 HOSE BIBBS AND EXTERIOR SUPPLY PIPES

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.

The hose bibb on the rear of the house is loose. This could result in damage to the water pipe and leakage. The bibb should be securely fastened to the wall.



#### 13.10 GAS PIPING

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.

#### **13.11 GAS METER**

The gas meter is located on the north 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:

#### 14.1 GENERAL COMMENTS

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

## **14.2 STAIRS**

The stairs were used several times during the inspection. The stair components are properly installed and no deficiencies were noted during use.

The stair railing baluster spacing is too wide. This is a hazard for small children. The baluster spacing should be reduced as a safety upgrade. Current standards require that a 4" sphere not pass through the railing.



#### 14.3 GUARD RAILINGS

The spacing between the balusters is too wide. This is a hazard to small children. The balusters should be spaced close enough together so that a 4" sphere cannot pass through. Upgrading the guard railing is recommended if small children are present.



### 14.4 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.

#### **14.5 DOORS**

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

Some of the doors are missing their door stops. This condition will lead to damage of the wall surfaces. Door stops should be installed where necessary.

#### 14.6 CLOSET DOORS

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

#### **14.7 WINDOWS**

The window frames are constructed from PVC and have insulated glass in them. All of the windows were tested and/or inspected. The windows are in good condition and are functioning as intended except where noted below.

The lift assist mechanism for the window in the bedroom room is in need of repair. The window should not be used until repairs are completed.

## 14.8 SMOKE DETECTORS

There is a smoke detector in the hallway outside of the bedrooms. Additional smoke detectors should be installed inside the bedrooms near the door.

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.

lonization 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.

#### **14.9 DOOR BELL**

The doorbell was functioning as intended.

## FIREPLACES, WOOD STOVES AND SPACE HEATERS

The following components were inspected:

#### 15.1 METAL FIREPLACES

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

#### 15.2 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.

#### **15.3 GAS STOVE INSERT**

The gas stove insert was not tested. The operation of the gas appliance was not verified. The condition of the fireplace in which the insert is placed was not visible for inspection and its condition was not determined. The smoke pipe should extend from the top of the insert, through the smoke chamber and into the flue. This portion of the installation is not visible for inspection.

An evaluation of the installation of a fireplace insert, along with an evaluation of the fire box, damper and smoke chamber, cannot be made without removing the unit from the fireplace. The removal of the insert is beyond the scope of this inspection. The services of a certified chimney sweep should be retained to remove the insert and clean and inspect the smoke chamber and flue.

## **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:* 

#### **16.1 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).

#### **16.2 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, 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.

#### **16.3 ASBESTOS**

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:

#### 17.1 ATTIC INSULATION

The attic is insulated with blown in fiberglass insulation. The attic insulation has been unevenly distributed to allow for storage. The attic insulation should be evenly distributed throughout the attic.

#### 17.2 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:

### **18.1 GENERAL INFORMATION**

The lower floor is a concrete slab. The upper floors are constructed out of wood joists. The subflooring is plywood. The stud walls are constructed from 2 X 6 dimensional lumber. The exterior wall sheathing is plywood. The roof structure is constructed out of a combination of manufactured trusses and conventional stick framing. The roof sheathing is oriented strand board (OSB) installed over a layer of open sheathing.

#### **18.2 FOUNDATION**

The foundation is constructed in a manner typical of buildings of this type and age. There are minor shrinkage cracks in the foundation. Shrinkage cracks are common in poured concrete foundation walls. They do not affect the performance of the foundation. No action is indicated.

#### **18.3 MUDSILL**

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.

#### **18.4 ANCHOR BOLTS**

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.

#### 18.5 FLOOR JOISTS

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.

## **18.6 SUBFLOORING**

The subfloor was covered with insulation and finished surfaces and was not visible for inspection. There was no evidence present suggesting that defects or deficiencies are present.

#### **18.7 WALLS**

The walls are covered with finished surfaces and therefore were not visible for inspection. No evidence of defects or deficiencies was observed.

#### **18.8 ROOF STRUCTURE**

The roof structure is constructed from a combination of factory-built, engineered trusses and site cut and assembled dimensional lumber. The roof structure is constructed in a manner consistent with buildings of this type and is performing its intended function. No defects or deficiencies were observed.

## **18.9 ROOF SHEATHING**

The roof sheathing is installed in a manner consistent with buildings of this type and is performing its intended function. No defects or deficiencies were observed.