WRE Form 42 Rev. 01/2020

## Windermere REAL ESTATE

#### NOTICE TO BUYER: SELLER-PROCURED INSPECTION REPORT

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: Septic Inspection

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.

Authentisics DeAnna Paddleford

DATE

John Paddleford 01/27/24

Seller

DATE

#### **Buyer's Acknowledgment of Receipt**

01/27/24

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

Seller

### Paddleford (Seller) 17249 NE 125<sup>th</sup> Street, Redmond, WA 98052

The home pre-sale inspection was completed on March 20, 2024 by Terry Clark with Clark Inspections. The following items listed on the pre-sale inspection report summary dated March 21, 2024 have been corrected by the seller as part of preparation for sale in good faith.

#### DISPUTED

#### HEATING SYSTEM

• The electronic air filter was evaluated by B&C Comfort on March 25th date. The technician found the circuit was off (due to electrical testing during the inspection) hence why the air filter was not operating at time of inspection. The circuit was turned on by the technician and the system was found to be in proper working condition.

#### ATTIC

• Pest control. Adaptive Environment technician checked the attic on March 28, 2024 and found no evidence of rodent activity. Minor bits of debris found on insulation were from the installation of the roof March 2024.

FIXED		

#### GARAGE DOOR OPENER

- Lowered photo eye beams on doors 2 and 3 within 4-6" of the floor. Unable to adjust eye beam on door 1 as the steps into the house are in the way.
- Fire separation: Patched all voids in fire resistive barrier with a fire-retardant foam (orange).
- Receptacles: Installed GFCI protection for all the garage receptacles.

#### GUARD RAILINGS

• The guard railings were secured to fix the lateral instability.

#### AIR CONDITIONER

• A/C unit was releveled.

#### HEATING SYSTEM

• Cleaned the pre-filters and filter cartridges.

#### ELECTRICAL SYSTEM

- Replaced missing screws in the panel box cover in garage.
- Repaired open grounds in kitchen.
- Installed additional GFCI protection in all the garage, kitchen and laundry room receptacles.

#### BATHROOMS

- Ensured master bathroom toilet is securely mounted to the floor.
- Repair drain stop in jack-n-jill bathroom.
- Caulked master bathroom shower glass enclosure to prevent water leakage.
- Replace master bathroom caulk at the intersection between the tub/shower.

#### SMOKE DETECTORS

• Smoke detectors are installed in all sleeping rooms.

#### ROOF

• Flashings. Installation of flashing where pieces were missing.

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

#### GARAGE

• Wiring: Romex cable in the garage wall and ceiling is from the shop light above the work-bench. Seller will remove the lights and receptacles that utilize the romex cable.

#### DISHWASHER AIR GAP

• The dishwasher currently utilizes a high loop which prevents wastewater flowing from sink to the dishwasher, as well it protects against mild cases of back siphoning. Seller can remove the instant hot water tap and replace it with an air gap.



Customer Information	Service Pro Information	Service Information	
John Paddleford	Dominique Ford	Date	03/28/2024
17249 NE 125TH ST REDMOND, WA 98052-2282	Supervisor: Pierce Baldwin	Service Type	Pro Plus
(425) 785-9365	Supervisor Lic.# WA 106925	Service Time	08:00 AM - 08:00 PM
Customer ID: 2509492		Time In	10:55 AM
Account# 2509492		Time Out	11:52 AM
Invoice# 32447302		Wind Speed	4 MPH
		Wind Direction	SE
		Temperature	48°F
Products Used			
PROVOKE MOUSE MONITORING GEL		Diluted Amount:	2 Bait Pla
EPA REG. # FIFRA 25(b) Exempt		Concentrated Amount:	2 ml
EPA Lot # N/A		Dilution Rate:	100%
		Mix Ratio:	0 / 0
		Active Ingredient:	
<b>Target Issues:</b> Mice / Rats		Method:	Bait Placed on Rodent Trap
farget Areas: Attic		Square Feet:	1000 square feet
Label Link: https://labelsds.com/images/user_	uploads/Provoke%20Mouse%20Label%2010-25-21.pdf	Application Rate:	0.5 ml/placement
BLUEMAX MINI BLOCKS		Diluted Amount:	15 each
EPA REG. # 7173-288		Concentrated Amount:	15 each
EPA Lot # N/A		Dilution Rate:	100%
		Mix Ratio:	0 / 0
		Active Ingredient:	0.0025%
Target Issues: Rats		Method:	Bait Station
Farget Areas: Exterior Foundations		Application Rate:	6-23 Blocks/Placement
abel Link: https://labelsds.com/images/use	r unloads/Gen%20BlueMax%20Mini%20Blocks%20Label%20	18-3-	

Label Link: https://labelsds.com/images/user\_uploads/Gen%20BlueMax%20Mini%20Blocks%20Label%208-3-20.pdf

#### **Technician notes**

APPOINTMENT NOTES Treated the foundation of the home to protect from ants, spiders, and any other crawling insects. I also treated the eaves, doors, windows, light fixtures, yard and any entry points. Applied granular to yard/flower/frock/mulch beds Swept eaves/ entry ways/ garage/shed. Replaced any applicable bait stations and glue boards. Checked attic for rodent activity, none found. Placed baited traps.



#### Service Pro Signature

Aptive Environmental is committed to the safety of our customers and our environment. All materials used by Aptive Environmental have been registered by the Environmental Protection Agency. \*\*\*PLEASE AVOID UNNECESSARY CONTACT WITH MATERIALS, STAY OFF TREATED AREAS UNTIL DRY, and comply with all instructions and recommendations from our technicians\*\*\* Thanks for your patronage! National Emergency Poison Control: (800)222-1222

Physical Office Location 941 Industry Dr, Tukwila, WA 98188 Supervisor Information

Pierson Ryan Baldwin: Commercial Applicator #106925



White Glove Home Improvement 19522 NE 181st Street | Woodinville, Washington 98077 425.765.5856 | info@whitegloveteam.com | http://www.whitegloveteam.com/

RECIPIENT:	Invoice #14003	
John Paddleford *	Issued	Apr 04, 2024
17249 Northeast 125th Street Redmond, Washington 98052	Due	Apr 04, 2024
	Paid	Apr 04, 2024
	Total	\$1,829.06

### **For Services Rendered**

Product/Service	Description	Qty.	Unit Price	Total
Apr 04, 2024 Labor - priority	Hourly labor charge Missing flashing over front bump out - add as	5	\$110.00	\$550.00
	needed - paint old flashing			
Labor- priority	Hourly labor charge Guest bathroom - reinstall glass shower door	3	\$110.00	\$330.00
Labor	Hourly labor charge Kitchen - open ground x2 / replace GFCI Bathroom - redundant GFCI Garage - 6 total GFCI - Add as needed Laundry room - add GFCI as needed	4.5	\$110.00	\$495.00
Labor	Hourly labor charge Garage door sensors - move all down except for the one by the steps	0.5	\$110.00	\$55.00
Materials	Sanded caulk, black caulk, two outlets, flashings, miscellaneous truck supplies	1	\$119.76	\$119.76
Labor	Hourly labor charge	1	\$110.00	\$110.00
	caulking my shower, just the edge where the wall meets the floor – here's a picture. Its ~42" wide by ~52" long – if I removed the existing caulking and just needed someone to add the caulking			



# White Glove Home Improvement 19522 NE 181st Street | Woodinville, Washington 98077 425.765.5856 | info@whitegloveteam.com |

http://www.whitegloveteam.com/

Thank you for your business. Please contact us with any questions regarding this invoice.	Subtotal	\$1,659.76
	1700 (10.2%)	\$169.30
	Total	\$1,829.06
	Paid	- \$1,829.06

Invoice balance \$0.00



March 21, 2024

Mr. & Mrs. John & Deanna Paddleford 17249 NE 125th St. Redmond, WA.

#### Re: 17249 NE 125th St. Redmond, WA.

Dear John & Deanna;

At your request, a visual inspection of the above referenced property was conducted on 03/20/2024. 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

#### ATTACHED GARAGE:

GARAGE DOOR OPENER

The Photo-eye beam was installed to high above the floor of the garage to adequately offer protection for small children and/or pets. We recommend that the photo-eye be lowered to within 4-6" of the floor.



#### FIRE SEPARATION

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.



#### Paddleford



#### RECEPTACLES

There are unprotected receptacles in the garage. The installation of GFCI protection for all of the garage receptacles is recommended.

#### **ELECTRICAL SYSTEM**

SERVICE PANEL

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.



#### WIRING

There is Romex cable in the garage that is run over the surfaces of the wall and ceiling. This cable is vulnerable to damage. The cable should be relocated or protected in conduit.



#### RECEPTACLES

Testing revealed open grounds (ungrounded receptacles) in the kitchen. Open grounds are a potential hazard and could damage some electronic equipment. All receptacles with open grounds should be repaired in accordance with applicable electrical codes.

#### GFCI RECEPTACLES

The installation of additional GFCI protection in the all of the garage, kitchen and laundry room receptacles is recommended.

#### HEATING SYSTEM FORCED AIR HEATING SYSTEM

#### AIR FILTER

The electronic air filter is not working. It should be repaired or replaced as necessary.

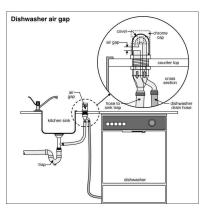
The pre-filters are dirty. Removal and cleaning the pre-filters and filter cartridges is recommended.

#### 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.





#### BATHROOMS

#### PRIMARY BEDROOM BATHROOM

#### TOILET

The toilet is loose where it mounts to the floor. A loose toilet will eventually start to leak and will damage the flooring material, underlayment and subfloor. The most reliable fix for this condition is to remove the toilet and install a new wax seal. The toilet should then be securely mounted to the floor.

#### INTERIOR

#### **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.



The guard railing lacks lateral stability. The installation of additional lateral supports is recommended.



#### WINDOWS

The glass adjacent the entry door is not tempered safety glass. Tempered glass can be identified by the etched emblem in one corner of each pane. A higher margin of safety could be achieved if the glass was approved safety glass. Consideration should be given to protecting or replacing the glass as a safety upgrade.



#### SMOKE DETECTORS

There is a smoke detector in the hallway outside of the bedrooms and in some bedrooms, additional smoke detectors should be installed inside all of the sleeping rooms near the door.

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**

#### SOFFITS AND OVERHANGS

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.

#### Paddleford



#### 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.



#### ROOF

#### FLASHINGS

A section of counter flashing is missing at the roof to masonry wall intersection. This is allowing leakage to occur. The installation of counter flashings is recommended.



#### ATTIC

#### PEST CONTROL

There is evidence of rodent activity in the attic. (rodent trails in the insulation)The first step in eliminating rodents

from 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 further activity. Once this work is completed, snap traps baited with peanut butter should be installed and monitored. The absence of rodents in the traps typically means that the rodents have been excluded from the area.

#### **AIR CONDITIONER/ HEAT PUMP**

#### CONDENSER

The pad supporting the outdoor condensing unit has settled, leaving it out of level. The connections can be stressed and accelerated wear of the bearings and other components may occur. The unit should be releveled.



#### 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.



#### BATHROOMS

JACK AND JILL BATHROOM

SINK

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

#### PRIMARY BEDROOM BATHROOM

GLASS ENCLOSURE

The glass enclosure has been leaking at the lower corner. No damage was visible, but resealing or repairing the enclosure is recommended as preventive maintenance.



#### FLOORING MATERIAL

The caulking is cracked at the intersection between the tub/shower and floor. This can lead to water damage to the flooring and substrate. Caulking this area with a flexible caulk is recommended.

#### LAUNDRY ROOM

APPLIANCES

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



#### INTERIOR

DOORS

Doors are equipped with hinge mounted door stops can damage the door skin, tear out hinge screws, and damage the door trim and frame. The removal and replacement with wall or floor mounted door stops is recommended.



#### CRAWLSPACE

#### VAPOR RETARDER

Several of the support post concrete piers are covered with the plastic vapor retarder. This allows the transmission of water vapor from the soil up and into the floor framing. The plastic vapor retarder should be removed from the pier so that it covers at least 85% of the entire surface of the soil only.



#### PEST CONTROL

Soil is in contact with the bottom of the wood crawl space access frame. Replacing the wood frame with ground contact lumber is optional. Ground-contact lumber is pressure treated with chemicals to withstand the effects of being close to the ground, in contact with the ground and/or exposed to continuous moisture.



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 Report: John & Deanna Paddleford

### Confidential Inspection Report 17249 NE 125th St. Redmond, WA 98052

March 20, 2024

### Prepared for: John & Deanna Paddleford

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.

## **Inspection Table of Contents**

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### **GENERAL INFORMATION**

#### **CLIENT & SITE INFORMATION:**

DATE OF INSPECTION:	3/20/2024.
INSPECTOR'S NAME:	Terry Clark.
CLIENT NAME:	Mr. & Mrs. John & Deanna Paddleford.
MAILING ADDRESS:	17249 NE 125th St. Redmond Wa.
CLIENT E-MAIL ADDRESS	jpaddle@hotmail.com; dpaddleford@hotmail.com.
ADDRESS OF PROPERTY INSPECTED	17249 NE 125th St. Redmond, WA.





#### **CLIMATIC CONDITIONS:**

WFATHER: APPROXIMATE OUTSIDE 49 degrees. **TEMPERATURE:** 

#### **BUILDING CHARACTERISTICS:**

MAIN ENTRY FACES: North. ESTIMATED AGE OF BUILDING: The building is approximately 41 years old. BUILDING TYPE: Two story single family residence. SPACE BELOW GRADE: Crawlspace.

Overcast.

#### SCOPE, PURPOSE AND LIMITATIONS

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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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.

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 house. 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 is paved with concrete. The concrete was properly installed and is performing its intended function.
WALKWAY	There are minor cracks in the walkway, however, they do not affect it's functionality and it remains in serviceable condition.
FENCES AND GATES	The gates are properly installed and are performing their 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:

PRIMARY EXTERIOR WALL	L Cedar channel 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.
SECONDARY EXTERIOR WALI CLADDING	L The front of the building is partially clad in brick. Brick is one of the oldest and most durable of all wall claddings. It does not burn, rot, or dent. It does not require painting. It will generally last the lifetime of the building. However, brick is susceptible to earthquake damage. The brick is a veneer installed over the wood wall structure. It is not a structural component of the wall. The brick has been properly installed and is functioning as intended.
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.
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 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.



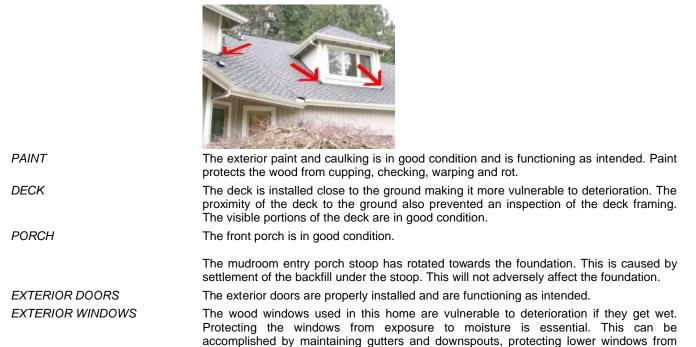
Roof runoff is collected and channeled into the downspouts by aluminum gutters fastened to the rafter tails. The gutters and downspouts are properly installed and are performing their intended function. Gutters should be cleaned regularly to prevent clogging and overflow.

Downspouts draining directly onto the asphalt shingle surface causes excessive wear of

**GUTTERS AND DOWNSPOUTS** 

the roofing material. Downspout extensions to the lower gutters should be installed to prevent excessive wear and tear of the roofing.

garden sprinklers and by maintaining the paint and caulk on and around the windows.



### 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:

GENERAL INFORMATION	The roofing material is asphalt composition shingles. The slope or pitch of the roof is steep. Metal gutters are used to collect the roof water drainage. The roofing material was just recently installed.
INSPECTION METHOD	The roof was too steep to walk on safely. Therefore the inspector examined the roof from the edge and from windows.
CHIMNEYS	The visible portion of the masonry chimney is properly constructed and is in good condition.
GAS APPLIANCE VENTS	The visible portion of the gas appliance type B vent is properly installed and in good condition.
FLASHINGS	An inspection of the roof flashings revealed the following defects:
	A section of the counter flashing is missing at the roof to masonry wall intersection. This

A section of the counter flashing is missing at the roof to masonry wall intersection. This is allowing leakage to occur. The installation of counter flashings is recommended.



GENERAL COMMENTS

The roofing material was properly installed and is in like new condition. With proper care and maintenance this roof should remain serviceable for up to 35 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:

ACCESS	The attic access is located in the laundry room. The attic was inspected from the access hole only.
VENTILATION	The attic is adequately vented.
MECHANICAL SYSTEMS	VENTILATION The visible portions of the air ducts for the bathroom fans are properly installed and are performing their intended function.
PEST CONTROL	There is evidence of rodent activity in the attic. (rodent trails in the insulation)The first step in eliminating rodents from 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 further activity. Once this work is completed, snap traps baited with peanut butter should be installed and monitored. The absence of rodents in the traps typically means that the rodents have been excluded from the area.

### 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:

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.

OVERHEAD GARAGE DOORS GARAGE DOOR OPENER

2S The garage is fitted with three roll-up doors.

*R* The garage door openers were tested and were functional. The auto stop reverse safety switches were functioning as intended.

The Photo-eye beam was installed to high above the floor of the garage to adequately offer protection for small children and/or pets. We recommend that the photo-eye be lowered to within 4-6" of the floor.



FIRE SEPARATION

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.



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.

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

There are unprotected receptacles in the garage. The installation of GFCI protection for all of the garage receptacles is recommended.

PASSAGE DOOR

EXTERIOR DOOR(S) RECEPTACLES

### **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:

ELECTRICAL SPECIFICATIONS	SYSTEM	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 200. 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.
UNDERGROUND LATERAL	SERVICE	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.
SERVICE PANEL LOCA	ATION	The service panel is located in the garage.
MAIN DISCONNECT LC	OCATION	The main disconnect is an integral part of the service panel. The ampacity of the main disconnect is 200 amps.
		The service entrance conductors are 4/0 aluminum and have an ampacity of 200 amps. The service entrance conductors are properly installed and in serviceable condition.
SERVICE AMPACITY		The capacity of the electrical service is 200 amps. A 200 amp service is adequate for this house with the existing electrical equipment. There is also room to add additional circuits if necessary.
SERVICE GROUNDI BONDING	ING AND	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.
SERVICE PANEL		The electrical service panel is properly installed and in serviceable condition except where noted below.
		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.

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.

WIRING

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

There is Romex cable in the garage that is run over the surfaces of the wall and ceiling. This cable is vulnerable to damage. The cable should be relocated or protected in conduit.



## **ELECTRIC HEATING**

Heat is provided by electric resistance heaters. Electric heat is 100% efficient as there is no waste heat of combustion gases as in fossil fuel burning furnaces. However, electric heaters are more expensive to operate than gas or oil fired heaters because electrical energy is more expensive per therm (i.e., unit of energy equal to 100,000 Btu). Each heating unit and/or heating zone is tested using existing operator controls. Information on heating uits is outlined below.

#### **ELECTRIC HEATING - The following components were inspected:**

ELECTRIC FAN ASSISTED WALL Electric wall heaters are used for space heating in the room above the garage. The heaters have small fans in them to circulate the air over an electric heating element. Each heater was inspected and tested. The heaters are properly installed and are functional.

These heaters must be cleaned annually. An accumulation of dust inside this type of heater is a fire hazard. To clean the heaters, turn off the power at the circuit breaker panel then remove the cover from the front of the heater. Use a paint brush to loosen the dirt and then vacuum it up.

### **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:

GENERAL INFORMATION	Heat is provided by a natural gas fired forced air furnace. The furnace is located in the garage. The furnace is approximately 19 years old. The input rating of the furnace is 80,000 BTU. This BTU rating is typical of a home of this size and age.
GAS PIPING	The flex connector is properly installed and is performing its intended function.
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.
IGNITION	The furnace uses an electronic spark ignition. This component was functioning as intended.
BURNERS	The gas burners are properly installed and are functioning as intended.
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.
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.
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.
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.
VENT	The PVC plastic vent pipe for the condensing furnace is properly installed and is functioning as intended.
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.
AIR FILTER	An electronic air filter is used to remove dust. Electronic air filters remove dust and microscopic particles such as smoke and pollen from the air. Microscopic dust particles are forced to adhere to collector plates because of the electric charges imparted by the filter. These filters are typically found on high quality heating systems.
	There are typically four removable parts that require cleaning; two prefilters and two electronic filter cartridges. These components should be cleaned once or twice a year. More often in dusty or smoky environments. They can be placed in the dishwasher or soaked in a hot soapy water solution in a laundry sink or bathtub. They should be rinsed and dried before reinstallation.
	Most filters have an on and off switch and a test button on the front of the unit. Turn off the switch on the unit for 5-10 minutes before removal of filters. After cleaning and reassembly, the switch should be turned back on and the test button pushed. An arcing sound means the unit is functioning.
	The electronic air filter is not working. It should be repaired or replaced as necessary.
	The pre-filters are dirty. Removal and cleaning the pre-filters and filter cartridges is

	recommended.
DUCTS	The ducts are constructed out of sheet metal and flex duct. The ducts are properly installed and are performing their intended function.
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.
CONDENSATE DRAIN/PUMP	High efficiency furnaces like this one produce condensate water inside the furnace that must be collected and disposed of. A small vessel with an automatic pump is installed to receive the condensate water and pump it to the exterior of the house. This pump is properly installed and is functioning as intended.
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.

### **AIR CONDITIONER/ HEAT PUMP**

Heat pump and air conditioning systems consist of the condenser located outside, the air handler or furnace on the inside, refrigerant lines, ducts, air filters, thermostat, condensate drains and condensate pump. These items are visually examined for proper function, excessive or unusual wear, and general state of repair. The heat pump or air conditioner is tested whenever possible. Air conditioning systems are not tested if the outside temperature is too cool for proper operation. Detailed testing of the many components of the heat pump or air conditioning equipment or predicting their life expectancy requires special equipment and training and is beyond the scope of this inspection.

Heat pumps are air conditioners designed to operate "in either direction". When heating, air is cooled and exhausted to the outside, while the "waste" heat is distributed through the living space by a blower and ducts. Heat pumps operate most efficiently in moderate to hot climates where winter temperatures are not extreme and where there is a need for air conditioning. Additional electric strip heaters are generally installed when winter capability is marginal. The cost of operating the supplemental strip heaters is significantly higher than operating the heat pump in its regular mode. Limiting changes of the temperature setting on the thermostat to two degrees will usually prevent the strip heater from coming on. Insulation, weather stripping and other energy saving steps can help minimize the need for the back-up capability.

Heat pumps and air conditioners are technically complex pieces of equipment. Detailed analysis of all components of the system is beyond the scope of this inspection. For greatest efficiency and service life, we recommend regular annual maintenance by an HVAC contractor.

was tested and was functioning as intended.

#### The following components were inspected.: GENERAL INFORMATION Unit Type -

Unit Type - Air Conditioner, Age - The air conditioner is approximately 19 years old, Location of condenser - The condenser is located on the south side of the house.

CONDENSER

Location of condenser - The condenser is located on the south side of the house. The condenser contains all the equipment necessary to reclaim the refrigerant gas and convert it back to a liquid. It consists of a compressor, condenser, hot gas discharge line, condenser fan, electrical panel box, and some accessory components. The condenser

The air conditioner condenser contains many different parts and pieces. Many of these pieces are quite heavy and a condenser can weigh several hundred pounds. The weight of the unit is mostly caused by the copper coil that runs along one or several sides of the AC unit. Copper is quite dense and weighs about 559 pounds per square foot. While only a fraction of this amount of copper is held inside the condenser, a little bit of the metal can add up to a lot of weight. This weight causes the side of the unit where the condenser coil is located to be heavy. If the unit is not level, then this uneven weight can cause the unit to sink into the ground. The unit can then tip or rip free from the coolant line that feeds into your home.

Also, if the condenser is not level, then the air conditioner will not work correctly. Specifically, the pump may not work the way it is supposed to. The condenser pump contains some oil that travels with the cooling fluid and then redeposits itself back into the pump. This helps to keep the device well lubricated. Sometimes the oil can separate from the coolant and pool in one area of the condenser. For example, a good deal of the oil can end up in the condenser coil. This is the case if the unit were tipped towards the coil. When this happens, the pump no longer has the lubrication it needs. The result is a pump that can wear out more quickly and also overheat.

One of the only ways to make sure that the condenser oil stays moves smoothly and mostly deposits in the compressor is to keep the unit upright and level.

The pad supporting the outdoor condensing unit has settled, leaving it out of level. The connections can be stressed and accelerated wear of the bearings and other components may occur. The unit should be releveled.



REFRIGERANT LINES	The accessible refrigerant lines appear to be in good condition.
CONDENSATE PUMP-DRAIN	Air conditioners produce condensate water inside the furnace that must be collected and disposed of. A small vessel with an automatic pump is installed to receive the condensate water and pump it out to the exterior of the house. This pump is properly installed and is functioning as intended.
AIR HANDLER	The furnace contains the blower and backup heat. The furnace blower was tested and was functioning as intended.
BLOWER	The blower draws air from the return air ducts and pushes it over the AC coils where it is cooled. The air is then pushed through the distribution ducts into the rooms. The blower was tested and was functioning as intended.
AIR FILTER	An electronic or electrostatic air filter is used to remove dust. Electronic air filters remove dust and microscopic particles such as smoke and pollen from the air. Microscopic dust particles are forced to adhere to collector plates because of the electric charges imparted by the filter. These filters are typically found on high end heating systems.
	There are typically four removable parts that require cleaning; two prefilters and two electronic filter cartridges. These components should be cleaned once of twice a year. More often in dusty or smoky environments. They can be placed in the dishwasher or soaked in a hot soapy water solution in a laundry tray or bathtub. They should be rinsed and dried before reinstallation.
	Most filters have a on and off switch and a test button on the front of the unit. After cleaning and reassembly, the switch should be turned back on and the test button pushed. An arcing sound means the unit is functioning.
	The electronic air filter is not working. It should be repaired or replaced as necessary. The filters are dirty. Removal and cleaning the prefilters and filter cartridges is recommended.
DUCTS	The ducts are constructed from sheet metal and flex duct. The ducts are properly installed and are performing their intended function.
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.
ELECTRICAL DISCONNECT	An electrical disconnect is installed in back of the condenser.
GENERAL COMMENTS	Testing of the air conditioner revealed an air temperature differential within the normal range and suggests that the air conditioner is functioning as intended.
	Air conditioners and heat pumps last an average of 12 to 15 years. If your equipment is within those ranges, expect more repairs in the near future. Any repairs made beyond the 10-year mark may cost you more than what you could potentially save with a new air conditioner or heat pump.

### 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:

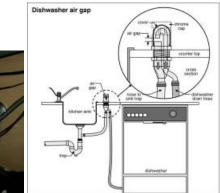
LOCATION OF UNIT	The water heater is located in the hall closet.
GENERAL INFORMATION	The water heater fuel is natural gas. The capacity of the water heater is 50 gallons. The input rating of the burner is approximately 38,000 BTU. The water heater is approximately 2 years old. Water heaters of this type 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.
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.
BURNER	The gas burner is properly installed and is functioning as intended.
GAS PIPING	The flex connector is properly installed and is performing its intended function.
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.
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.
	adequate.
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.

### **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:				
COUNT	ERTOPS			The countertops are covered with slab granite. The counter tops are properly installed and are in good condition.
CABINETS				The finish on the kitchen cabinets is slightly worn. The cabinets are otherwise in good condition.
FLOORI	NG MATER	IAL		The floor is covered with hardwood. The floor is properly installed and is in good condition.
VENTIL	ATION			Ventilation in the kitchen is provided by a down draft vent system that is an integral part of the cooktop unit. The vent is ducted to the exterior. The vent fan is properly installed and is performing its intended function.
SINK FA	UCET			The sink faucet is properly installed and is in good condition.
SINK				The kitchen sink is properly installed and is in good condition.
DRAINS ARMS	, TRAPS	AND	TRAP	The sink drain is properly installed and is performing its intended function.
AIR GAI	0			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.





OVEN COOKTOP DISHWASHER GARBAGE DISPOSAL REFRIGERATOR RECEPTACLES

The oven was tested and was functioning as intended.

The cooktop was tested and was functioning as intended.

The dishwasher was tested and was functioning as intended.

The garbage disposal was tested and was functioning as intended.

The refrigerator is functioning as intended.

There are unprotected receptacles in the kitchen. The installation of GFCI protection for all of the kitchen receptacles is recommended.

Testing revealed open grounds (ungrounded receptacles) in the kitchen. Open grounds are a potential hazard and could damage some electronic equipment. All receptacles with open grounds should be repaired in accordance with applicable electrical codes.

### 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.

BATH	ROOM	
	LOCATION	Main Floor, Hallway.
	SHOWER	The shower walls are properly installed and are in good condition. Most ceramic tile is applied directly over gypsum board rather than on a concrete board such as "Durock" or "Wonder Board". Where the tile is applied directly over the gypsum board, it is critical that the tile grout be maintained to prevent water intrusion behind the tile. Missing or cracked grout should be repaired. Inside corners, and penetrations in the tile should be kept sealed with a high quality caulk.
	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 hardwood. The floor is properly installed and is in good condition.
	TOILET	The toilet was flushed and was functioning as intended.
	SINK	The bathroom sink is properly installed and is in good condition.
		The drain stop is not operational. It should be repaired or replaced.
	DRAINS, TRAPS AND TRAF 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 bathroom cabinet is properly installed and is in good condition.
	COUNTERTOP	The countertops are covered with slab quartz. The counter tops are properly installed and are 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.
BATH	ROOM	
	LOCATION	Jack And Jill Bathroom.
	BATHTUB	The bottom of the hydromassage tub is not supported in accordance with the manufacturer's specifications. This could result in cracking of the tub. The tub should be supported in a bed of grout or aerosol foam.
	TUB WALLS	The tub walls are properly installed and are in good condition. Most ceramic tile is applied directly over gypsum board rather than on a concrete board such as "Durock" or "Wonder Board". Where the tile is applied directly over the gypsum board, it is critical that the tile grout be maintained to prevent water intrusion behind the tile. Missing or cracked grout should be repaired. Inside corners, and penetrations in the tile should be kept sealed with a high quality caulk.
	FLOORING MATERIAL	The floor is covered with ceramic tile. The tile is properly installed and is in good condition.
	TOILET	The toilet was flushed and was functioning as intended.
	SINK	The bathroom sinks are properly installed and are in good condition.
		? 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 countertops are covered with slab quartz. The counter tops are properly installed and are 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	GFCI protected receptacles were found in this bathroom.
BATH	ROOM	
	LOCATION	Primary Bedroom.
	SHOWER	The shower walls are properly installed and are in good condition. Most ceramic tile is applied directly over gypsum board rather than on a concrete board such as "Durock" or "Wonder Board". Where the tile is applied directly over the gypsum board, it is critical that the tile grout be maintained to prevent water intrusion behind the tile. Missing or cracked grout should be repaired. Inside corners, and penetrations in the tile should be kept sealed with a high quality caulk.
		The shower pan was tested by filling it with water and letting it stand for 20 minutes. There was no evidence of leakage underneath.
	BATHTUB	The bathtub is properly installed and is in good condition.
	TUB WALLS	The tile around the bathtub is in good condition.
	GLASS ENCLOSURE	The glass shower enclosure is labeled as tempered safety glass, is properly installed and in serviceable condition.
		The glass enclosure has been leaking at the lower corner. No damage was visible, but resealing or repairing the enclosure is recommended as preventive maintenance.



FLOORING MATERIAL

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

The caulking is cracked at the intersection between the tub/shower and floor. This can lead to water damage to the flooring and substrate. Caulking this area with a flexible caulk is recommended.



TOILET

SINK

The toilet is loose where it mounts to the floor. A loose toilet will eventually start to leak and will damage the flooring material, underlayment and subfloor. The most reliable fix for this condition is to remove the toilet and install a new wax seal. The toilet should then be securely mounted to the floor.

The bathroom sinks are properly installed and are in good condition.

DRAINS, TRAPS AND TRAP The sink drains are properly installed and are performing their intended function. ARMS

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 countertops are covered with slab quartz. The counter tops are properly installed and are 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

Upper.

# LAUNDRY ROOM

### Appliances are tested when present and when circumstances allow.

The following components were in	nspected:
CABINĒTS	The finish on the laundry room cabinets is slightly worn. The cabinets are otherwise in good condition.
COUNTERTOP	The countertop is a manufactured acrylic material. The countertop is properly installed and in good condition.
FLOORING MATERIAL	The floor is covered with ceramic tile. The tile 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.
SINK	The laundry sink is properly installed and is in good condition.
SINK FAUCET	The sink faucet is properly installed and is in good condition.
DRAINS, TRAPS AND TRAF ARMS	P The sink drain is properly installed and is performing its intended function.
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.

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.



DRYER VENT

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:

PLUMBING SPECIFICATIONS	SYSTEM	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.
MAIN WATER SHUTOFF	VALVE	The main water supply shutoff valve was observed within the cabinet.
MAIN WATER LINE		The main water line is buried underground and was not visible for inspection.
INTERIOR WATER PIPES	SUPPLY	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.
WATER PRESSURE		The water pressure is 60 PSI. This is in the normal range of 30-80 PSI.
DRAIN AND WASTE PIP	PES	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".
VENT PIPES		The visible portions of the vent pipes are properly installed and are performing their intended function.
FAUCET FIXTURES		All faucet fixtures were tested and were functioning as intended.
HOSE BIBBS AND E. SUPPLY PIPES	XTERIOR	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.
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.
GAS METER		The gas meter is located on the west 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.
SEPTIC SYSTEM		The house uses a private (septic) sewage disposal system. The septic system was not inspected. Our general house inspection will sometimes reveal major defects in the septic system (e.g., complete blockage, complete drain field failure), providing that it is not raining and the ground is dry. However, we still recommend that you have the septic tank pumped out and the septic system inspected by a qualified septic system service company, prior to the closing of the sale. Ask for a "Septic Tank Operational Report". It is also recommended that you have the tank pumped out every four years and avoid introducing grease and non-biodegradable foreign matter into the septic system.
		The pump tank is equipped with an alarm that will be activated if the pump fails. If you hear the alarm sound, do not introduce any additional sewage into the septic tank and call a septic systems contractor for repair.

### 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

**GUARD RAILINGS** 

STAIRS

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

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

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.

The guard railing lacks lateral stability. The installation of additional lateral supports is recommended.



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.

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

Doors are equipped with hinge mounted door stops can damage the door skin, tear out hinge screws, and damage the door trim and frame. The removal and replacement with wall or floor mounted door stops is recommended.



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

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

The glass adjacent the entry door is not tempered safety glass. Tempered glass can be identified by the etched emblem in one corner of each pane. A higher margin of safety could be achieved if the glass was approved safety glass. Consideration should be given to protecting or replacing the glass as a safety upgrade.

WALLS AND CEILINGS

DOORS

CLOSET DOORS WINDOWS



The doorbell was functioning as intended.

#### SMOKE DETECTORS

There is a smoke detector in the hallway outside of the bedrooms and in some bedrooms, additional smoke detectors should be installed inside all of the sleeping rooms near the door.

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 lonization 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

# FIREPLACES, WOOD STOVES AND SPACE HEATERS

### The following components were inspected:

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

METAL FIREPLACES The fireplace is a factory built, direct vent, gas appliance. The firebox is sealed from the home interior which makes it more efficient and prevents combustion gases from spilling into the building. The vent for this type of fireplace is mounted on the exterior wall in back of the appliance. The gas valve and piezo ignition is located underneath behind a removable panel. Instructions for lighting the pilot are located in this area. Testing revealed that the direct vent fireplace was functioning properly.

# **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:

Many of us encounter CO regularly and never know it because it's invisible and odorless. CARBON MONOXIDE 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 fatique, 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, a colorless gas with a pungent odor, is so commonly used today that FORMALDEHYDE 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.

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 insp	ected:
ATTIC INSULATION	The attic is insulated with batt and blown in fiberglass insulation. The approximate R value of this insulation is 41. This provides good resistance to heat transfer.
WALL INSULATION	The walls are insulated with fiberglass batt insulation. The 2x4 walls suggest that it is 3-1/2" R-11 fiberglass.
FLOOR INSULATION	The floors are insulated with 10" R-25 fiberglass batt insulation. The floor insulation has been properly installed and is in good condition.
DUCT INSULATION	The duct insulation has been properly installed and is performing its intended function.

# 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:

GENERAL INFORMATION	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 floor structure is constructed out of wood joists. The subflooring is plywood. The stud walls are constructed from 2 X 4 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 plywood installed over a layer of open sheathing.
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.
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.
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.
BEAMS AND POSTS	The beams and posts are properly installed and are performing their intended function.
FLOOR JOISTS	The visible portions of the floor joists are properly installed and are performing their intended function.
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.
WALLS	The walls are covered with finished surfaces and therefore were not visible for inspection. No evidence of defects or deficiencies was observed.
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.
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.

# CRAWLSPACE

The crawl space is where some of the building's structural elements and portions of its mechanical systems are located. These include foundation, structural framing, electrical, plumbing and heating. The visible portions of accessible systems and components are examined for proper function, excessive or unusual wear and general state of repair. Some items observed in the crawlspace will be discussed under the individual systems to which they belong. It is not unusual to find occasional moisture and dampness in crawl spaces. However, significant and/or frequent water accumulation can adversely affect the building foundation and support system and creates conditions conducive to various types of wood destroying organisms. We check for signs of excessive moisture and water entry. Unfortunately, water entry is often seasonal and therefore evidence may not be present at the time of the inspection.

### The following components were inspected:

CRAWLSPACE ACCESS	The crawlspace access is located outside at the rear of the building. The crawlspace was entered and all accessible areas were inspected.
MOISTURE	A sump pump has been installed to remove incoming ground water. The sump pump was tested and was operational.

The crawlspace is adequately ventilated. Vents should be kept unobstructed and clear of leaves and other organic debris. Screens should be maintained to prevent rodent entry.

The soil under the house is covered with a polyethylene plastic vapor retarder. This component is typically referred to as a "vapor barrier". While not a true vapor barrier, it does reduce the transmission of water vapor from the soil to the air. The vapor retarder is properly installed and is performing its intended function. The vapor retarder should be maintained so that it covers at least 85% of the entire surface of the soil.

Several of the support post concrete piers are covered with the plastic vapor retarder. This allows the transmission of water vapor from the soil up and into the floor framing. The plastic vapor retarder should be removed from the pier so that it covers at least 85% of the entire surface of the soil only.



Soil is in contact with the bottom of the wood crawl space access frame. 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.

Replacing the wood frame with ground contact lumber is optional. Ground-contact lumber is pressure treated with chemicals to withstand the effects of being close to the ground, in contact with the ground and/or exposed to continuous moisture.

Wood boring insect activity in the Puget Sound area usually does not occur unless there is a ventilation problem inside or underneath the structure, a water leakage/rotting condition in the house 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.

PEST CONTROL

VENTILATION

VAPOR RETARDER

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

 ${\bf x}$  Good construction practices which exclude water and prevent high moisture conditions.

 ${\bf x}$  Removal of wood debris and form wood from the crawlspace and around the building exterior.

- × Maintaining the roof water drain system.
  - Maintaining good yard drainage away from the foundation wall.

× Avoiding wood-soil contact in the crawlspace or around the house exterior.

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, should 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 such as 30 lb. asphalt impregnated felt installed between the concrete and wood. For additional information and treatment options, you should retain the services of a qualified pest control operator.

