



NOTICE TO BUYER: SELLER-PROCURED INSPECTION REPORT

The following notice is given with respect to the Purchase and Sale Agreement dated _____
between _____ ("Buyer")
and **Yuan Ping** **Yue Zhang** ("Seller")
concerning **17507 Ne 142nd St Redmond WA 98052** ("the Property").

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

- ☒ Whole House Inspection
- ☐ Sewer Inspection
- ☐ Pest Inspection
- ☐ Other: _____

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

Authentisign
Yuan Ping 03/20/25
Seller DATE

Authentisign
Yue Zhang 03/20/25
Seller DATE

Buyer's Acknowledgment of Receipt

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

Buyer DATE

Buyer DATE

Yuan Ping and Yue Zhang
17507 NE 142nd St
Redmond, WA 98052

Per the seller, the following items listed on the pre-sale inspection summary dated March 14, 2025 are being corrected by the seller as part of preparation for sale in good faith.

1) The following actions items have been completed by seller as of March 25, 2025

Garage

- Fire Separation: repaired – the voids are patched with fire retardant caulk
- Passage Door: repaired – new self-closing hinge is installed

Electrical System

- Receptacles in family room: repaired – the missing receptacle is replaced

Kitchen

- Air Gap: alternate solution of a high loop is installed as there is no space to install an air gap
- Garbage Disposal: repaired – the conduit protecting the cable to the garbage disposal is repaired
- Receptacles: repaired – the receptacle above the sink is replaced with a GFCI protected receptacle

Plumbing System

- Main Water Shutoff Valve: non-issue – the valve is in the front yard near the sewer

Fireplace

- Gas Stove Insert: non-issue – the gas invert needs to be operated with a controller which was in the cabinet surrounding the water heater in the garage.

Building Exterior

- Soffits and Overhangs: gaps fixed

Bathrooms

- Glass Enclosure of the Primary Bedroom Bathroom: repaired – resealing is done
- Tub Walls of Upper Floor Hallway Bathroom: repaired – tile sealer is reapplied

Interior

- Windows: repaired – the window is operational in normal ways

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

Seller will engage White Glove Home Improvement to address all items on their attached estimate #3000 dated March 24th, 2025.



White Glove Home Improvement

17725 Northeast 65th Street | Suite A-135 | Redmond,
Washington 98052
425.765.5856 | sales@whitegloveteam.com |
<http://www.whitegloveteam.com/>

RECIPIENT:

Ian Ping

17507 Northeast 142nd Street
Redmond, Washington 98052

Estimate #3000

Sent on Mar 24, 2025

Total **\$2,123.28**

Product/Service	Description	Qty.	Unit Price	Total
SKYLIGHTS	The seal between the glass panes has failed in the skylight above the primary bedroom bathroom. Repairs should be made as necessary. - New skylight needed - typical 2'x4' 3 hours plus parts	3	\$110.00	\$330.00
CHIMNEYS	The chimney crown is cracked and deteriorated. The mortar chimney crown prevents water from entering and damaging the masonry. Repairing or replacing the chimney crown will extend the service life of the chimney.	5	\$110.00	\$550.00
FIRE SEPERATION	There is a void 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.	0.5	\$110.00	\$55.00
ELECTRICAL SYSTEM	The Romex cable is not clamped where it enters the junction box in the attic. This could result in a short circuit or fire. A Romex clamp should be installed at the point where the cable enters the light fixture.	1	\$110.00	\$110.00
GARBAGE DISPOSAL	The flex conduit protecting the cable to the garbage disposal is damaged. This could result in damage to the cable and is a potential hazard. The cable should be protected by metal conduit in accordance with industry standards.	1	\$110.00	\$110.00
MECHANICAL VENTILATION SYSTEMS	Flexible plastic duct is used to direct air from the vent fans to the exterior. This type of material is unreliable. Replacing the plastic duct with 4" smooth-wall sheet metal duct is recommended	3	\$0.00	\$0.00



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Product/Service	Description	Qty.	Unit Price	Total
PEST CONTROL	There is evidence of rodent activity in the attic. 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. - Although we do not eradicate rodents, we try and find entry points and cover, no guaranty they wont find another way in. There is evidence of rodent activity in the crawlspace. The first step in eliminating rodents from the crawlspace is to seal all possible entry points using wire mesh, caulking, wood, stainless steel wool, aerosol foam or mortar. Careful work sealing cracks, holes, gaps, and covering ground water drain inlets will discourage rodent 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. - Although we do not eradicate rodents, we try and find entry points and cover, no guaranty they wont find another way in.	6	\$110.00	\$660.00
LAUNDRY ROOM	Improper, non-conforming material has been used for the drain pipe fitting. This material will not function reliably. Replacement with industry standard fittings is recommended.	1	\$110.00	\$110.00
Materials	TBD	1	\$0.00	\$0.00
Credit card fee 3.5% (disregard if paying cash or check)		1	\$0.00	\$0.00

Subtotal	\$1,925.00
Redmond - 1724 (10.3%)	\$198.28
Total	\$2,123.28

This quote is subject to change, and payment is due at time of service.
Due to natural elements, aging, and other factors, paint touch ups are not guaranteed to match. We recommend painting full walls.
Material cost is always 'estimated' until delivered as an invoice.

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Washington 98052

425.765.5856 | sales@whitegloveteam.com |

<http://www.whitegloveteam.com/>

Signature: _____ Date: _____

March 14, 2025

Mr. Ian Ping & Ms. Jenny Zhang
17507 NE 142nd St.
Redmond, Wa.

Re: 17507 NE 142nd St.
Redmond, WA.

Dear Ian & Jenny;

At your request, a visual inspection of the above referenced property was conducted on 03/13/2025. 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 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 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

ROOF

SKYLIGHTS

The seal between the glass panes has failed in the skylight above the primary bedroom bathroom. Repairs should be made as necessary.



CHIMNEYS

Moss/vegetation was observed in several areas around portions of the east chimney above the roof line. This will lead to accelerated deterioration of the brick masonry mortar. We recommend removal of all organic growth. Damaged areas can be repaired by filling in cutout or defective mortar joints with fresh mortar. (Tuck pointing)

The chimney crown is cracked and deteriorated. The mortar chimney crown prevents water from entering and damaging the masonry. Repairing or replacing the chimney crown will extend the service life of the chimney.

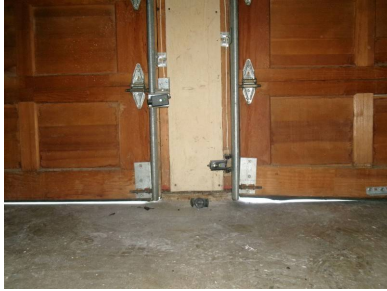


GARAGE

ATTACHED GARAGE

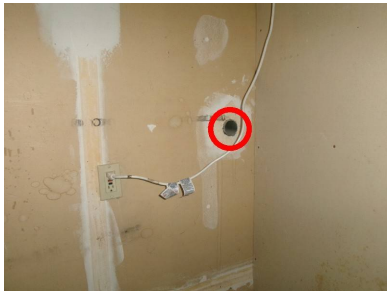
GARAGE DOOR OPENER

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 is a void 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.

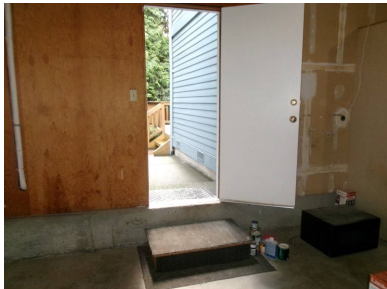


PASSAGE DOOR

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

EXTERIOR DOOR(S)

The landing for the door is missing. This is a hazard. Each side of every exterior door (including egress and non-egress doors) needs a landing or floor. The landing must have a minimum dimension of 36 inches (914 mm) measured in the direction of travel.



STAIRS

The garage steps are non-conforming due to the variable rise. Stair design standards require that stair risers do not exceed 8" and that the variation in rise not exceed 3/8" in order to reduce falls from tripping. To increase the margin of safety, consideration should be given to reconfiguring the stairs so that rise and run do not vary by more than 3/8". If this proves to be too impractical or expensive, then we recommend exercising caution when

using these stairs.



ELECTRICAL SYSTEM

WIRING

The Romex cable is not clamped where it enters the junction box in the attic. This could result in a short circuit or fire. A Romex clamp should be installed at the point where the cable enters the light fixture.



RECEPTACLES

The cover plate is missing from a receptacle in the family room. This is a shock and fire hazard. The installation of a cover plate is recommended.

AIR CONDITIONER/ HEAT PUMP

GENERAL COMMENTS

Testing the air conditioner/heat pump in cold weather when the compressor has not been run for a weeks or months could damage the compressor. Therefore the air conditioner/heat pump was not tested. You should review the maintenance records. Having the air conditioner/heat pump serviced before the start of the next cooling season 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.



GARBAGE DISPOSAL

The flex conduit protecting the cable to the garbage disposal is damaged. This could result in damage to the cable and is a potential hazard. The cable should be protected by metal conduit in accordance with industry standards.



RECEPTACLES

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

PLUMBING SYSTEM

MAIN WATER SHUTOFF VALVE

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

INTERIOR

SMOKE DETECTORS

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

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

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

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

FIREPLACES, WOOD STOVES AND SPACE HEATERS

GAS STOVE INSERT

The pilot light was not working and the gas insert was not tested. The operation of the gas appliance was not verified.

The condition of the fireplace in which the insert is placed was not visible for inspection and its condition was not determined. The smoke pipe should extend from the top of the insert, through the smoke chamber and into the

flue. This portion of the installation is not visible for inspection. You should have a chimney sweep examine this component when the chimney flue is cleaned.

The gas supply for the fireplace is located on the floor adjacent to the hearth and another is located on the side of the appliance. The key that turns on this valve should be kept out of the reach of children.



2nd gas shut off

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

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

BUILDING SITE

DRIVEWAY

Cracks were observed in the concrete surface of the driveway. Minor cracks can be sealed to minimize moisture entry and further settlement of the concrete. Minor cracks are common and do not affect the serviceability of the concrete.



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.



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.



ATTIC

MECHANICAL VENTILATION SYSTEMS

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



PEST CONTROL

There is evidence of rodent activity in the attic. 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

ATTACHED GARAGE

PEST CONTROL

The garage doors are not rodent proof. The installation of weatherstripping around the door is recommended to exclude rodents from the garage.

HEATING SYSTEM

FORCED AIR HEATING SYSTEM

AIR FILTER

The air filters behind the return air grilles are redundant. Removal of one, of the two filters is recommended.

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

PRIMARY BEDROOM BATHROOM

GLASS ENCLOSURE

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



UPPER FLOOR HALLWAY BATHROOM

TUB WALLS

Penetrating grout and tile sealers are recommended for preserving the condition of the grout. Grout sealer keeps stains from seeping into and setting in grout. Also, mold and mildew are kept from growing into the grout and the grout stays cleaner for a longer period of time and it will decrease the amount of maintenance that is required to keep it looking good and well maintained. For maximum protection, the sealer should be reapplied at least once.

LAUNDRY ROOM

DRAINS, TRAPS AND TRAP ARMS

Improper, non-conforming material has been used for the drain pipe fitting. This material will not function reliably. Replacement with industry standard fittings is recommended.



INTERIOR

DOORS

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

WINDOWS

One of the windows is stuck. The window should be adjusted or repaired as necessary to restore proper operation.



CRAWLSPACE

VAPOR RETARDER

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

There is evidence of rodent activity in the crawlspace. The first step in eliminating rodents from the crawlspace is to seal all possible entry points using wire mesh, caulking, wood, stainless steel wool, aerosol foam or mortar. Careful work sealing cracks, holes, gaps, and covering ground water drain inlets will discourage rodent 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.

Cellulose forms were left in place on the pier footings. This cellulose is conducive to the infestation of various wood destroying organisms.

Scrap-wood and other cellulose debris was observed on the crawl floor. This wood debris creates conducive conditions for wood boring insects. The removal of all cellulose debris is recommended.



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 home.

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

Sincerely,

Terry Clark
206-660-9200
Clark Inspections

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

Page 1

Report: Ian Ping & Jenny Zhang

Confidential Inspection Report
17507 NE 142nd St.
Redmond, WA 98052

March 13, 2025

Prepared for: Ian & Jenny Ping & Zhang

This report is the exclusive property of the inspection company and the client whose name appears herewith and its use by any unauthorized persons is prohibited.

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GENERAL INFORMATION

CLIENT & SITE INFORMATION:

DATE OF INSPECTION: 3/13/2025.
INSPECTOR'S NAME: Terry Clark.
CLIENT NAME: Mr. Ian Ping & Ms. Jenny Zhang.
MAILING ADDRESS: 17507 NE 142nd St.
Redmond Wa.
CLIENT E-MAIL ADDRESS: ggtdddgg@gmail.com; doule2024@outlook.com.
ADDRESS OF PROPERTY INSPECTED: 17507 NE 142nd St.
Redmond, WA.



North elevation



South elevation

CLIMATIC CONDITIONS:

WEATHER: Partly Cloudy. Rain Showers.
APPROXIMATE OUTSIDE TEMPERATURE: 43 degrees.

BUILDING CHARACTERISTICS:

MAIN ENTRY FACES: North.
ESTIMATED AGE OF BUILDING: The building is approximately 40 years old.
BUILDING TYPE: Two story single family residence.
SPACE BELOW GRADE: Crawlspce.

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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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 its 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 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.

Cracks were observed in the concrete surface of the driveway. Minor cracks can be sealed to minimize moisture entry and further settlement of the concrete. Minor cracks are common and do not affect the serviceability of the concrete.



PATIO There are minor cracks in the patio but it remains in serviceable condition.

WALKWAY The concrete walkway is properly installed and is performing its intended function.

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

FENCES AND GATES

The fences are properly installed and are performing their intended function. 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 CLADDING Cedar lap siding is used as an exterior wall cladding. Cedar is a wood that is durable and moderately resistant to decay. Maintaining the finish on the exposed siding will maximize its service life. The siding has been properly installed and is functioning as intended.

SECONDARY EXTERIOR WALL CLADDING 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.

FLASHINGS The exterior wall flashings have been properly installed and are performing their intended function.

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.



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

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



PAINT

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

DECK

The deck is installed close to the ground making it more vulnerable to deterioration. The proximity of the deck to the ground also prevented an inspection of the deck framing. The visible portions of the deck are in good condition.

PORCH

The front porch is in good condition.

EXTERIOR DOORS

The exterior doors are properly installed and are functioning as intended.

EXTERIOR WINDOWS

The wood windows used in this home are vulnerable to deterioration if they get wet. Protecting the windows from exposure to moisture is essential. This can be accomplished by maintaining gutters and downspouts, protecting lower windows from 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 medium in some areas and steep in others. Metal gutters are used to collect the roof water drainage. The roof is approximately 20 years old.

INSPECTION METHOD

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

SKYLIGHTS

The skylight is properly installed and there was no evidence of leakage underneath.

The seal between the glass panes has failed in the skylight above the primary bedroom bathroom. Repairs should be made as necessary.



CHIMNEYS

The visible portion of the west masonry chimney is properly constructed and is in good condition.

Moss/vegetation was observed in several areas around portions of the east chimney above the roof line. This will lead to accelerated deterioration of the brick masonry mortar. We recommend removal of all organic growth. Damaged areas can be repaired by filling in cutout or defective mortar joints with fresh mortar. (Tuck pointing)

The chimney crown is cracked and deteriorated. The mortar chimney crown prevents water from entering and damaging the masonry. Repairing or replacing the chimney crown will extend the service life of the chimney.



GAS APPLIANCE VENTS

The visible portion of the gas appliance type B vent is properly installed and in good condition.

FLASHINGS

Metal flashings are used to seal around chimneys, vents and roof to wall intersections. The flashings appear to be performing their intended function.

GENERAL COMMENTS

The roofing material was properly installed and is in serviceable condition. With proper

care and maintenance this roof should remain serviceable for up to 15 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 primary bedroom closet. The attic was entered and inspected from within.

VENTILATION

The attic is adequately vented. There are two types of ventilation systems that are typically used in today's design and construction. Natural (passive) and Mechanical (pressure). Passive attic ventilation allows for moisture laden air, that migrates into the attic from the living space below to move out into the atmosphere without forming condensation on cool surfaces within the attic. This method used in design and construction is the most efficient and time tested.

The following are just a few of the conditions that may develop if soffit vents, roof and ridge vents are either missing, obstructed, inadequate, or simply not installed:

When water vapor comes in contact with cold surfaces of the roof sheathing and framing it condenses and remains as water. This water can drip down on the insulation and decrease it's effectiveness, will rot or deteriorate roof sheathing, cause mold and mildew growth, cause plaster or wall board to crack, paint to peel and will reduce the serviceable life of the roofing material.

Pressure induced attic ventilation ie: attic fans, solar fans or other systems that mitigate moisture amounts may be necessary due to certain conditions found within some buildings. However the pressure increase or decrease of the ambient air of the living space may affect the performance of and/or venting of gas appliances or fireplaces when in use creating conditions may be hazardous to your health. These are designed systems that should be installed by a qualified contractor.

MECHANICAL SYSTEMS

VENTILATION

The visible portions of the air ducts for the bathroom fans are performing their intended function.

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



PEST CONTROL

There is evidence of rodent activity in the attic. 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

The garage is fitted with a pair of roll-up doors. The garage doors are properly installed and are performing their intended function.

GARAGE DOOR OPENER

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 too 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

The fire resistive barrier between the garage and the living space is properly installed and in serviceable condition.

There is a void 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.



PASSAGE DOOR

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

EXTERIOR DOOR(S)

The exterior doors are properly installed and are functioning as intended except where noted below.

The landing for the door is missing. This is a hazard. Each side of every exterior door (including egress and non-egress doors) needs a landing or floor. The landing must have a minimum dimension of 36 inches (914 mm) measured in the direction of travel.



STAIRS

The garage steps are non-conforming due to the variable rise. Stair design standards require that stair risers do not exceed 8" and that the variation in rise not exceed 3/8" in order to reduce falls from tripping. To increase the margin of safety, consideration should be given to reconfiguring the stairs so that rise and run do not vary by more than 3/8". If this proves to be too impractical or expensive, then we recommend exercising caution when using these stairs.



PEST CONTROL

The garage doors are not rodent proof. The installation of weatherstripping around the door is recommended to exclude rodents from the garage.

ELECTRICAL SYSTEM

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

The following components were inspected:

<i>ELECTRICAL SPECIFICATIONS</i>	<i>SYSTEM</i>	The voltage is 120/240 single phase three wire service. The power is delivered to this building via an underground service lateral. The amperage rating of this service is 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.
<i>UNDERGROUND LATERAL</i>	<i>SERVICE</i>	The underground service lateral was not visible for inspection. However, there was 120/240 volt power to the building which suggests that it is functioning as intended.
<i>SERVICE PANEL LOCATION</i>		The service panel is located in the garage.
<i>MAIN DISCONNECT LOCATION</i>		The main disconnect is an integral part of the service panel. The ampacity of the main disconnect is 200 amps.
<i>SERVICE CONDUCTORS/CABLES/RACEWAY</i>	<i>ENTRANCE</i>	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.
<i>AYS</i>		
<i>SERVICE AMPACITY</i>		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.
<i>SERVICE BONDING</i>	<i>GROUNDING AND</i>	The service grounding electrode conductor attachment point was not visible for inspection. The adequacy of the service ground was not determined. The evaluation of this connection may require removal of finish materials and is beyond the scope of this inspection.
<i>SERVICE PANEL</i>		The electrical service panel is properly installed and in serviceable condition.
<i>OVER CURRENT PROTECTION</i>		The circuits are labeled. The accuracy of the labeling was not verified. Do not assume the labeled circuit is off unless it has been checked with a voltage tester. Circuit breakers are used for over current protection. The circuit breakers are properly installed and the ampacity of the connected wires is compatible with that of the circuit breakers. The circuit breakers were not tested.
<i>WIRING</i>		The visible portions of the wiring are properly installed except where noted below.
		The Romex cable is not clamped where it enters the junction box in the attic. This could result in a short circuit or fire. A Romex clamp should be installed at the point where the cable enters the light fixture.
		The flex conduit protecting the cable to the garbage disposal is damaged. This could result in damage to the cable and is a potential hazard. The cable should be protected by metal conduit in accordance with industry standards.



ALUMINUM WIRING

This house uses stranded aluminum wire for service entrance conductors and for dedicated major appliance circuits. This type of aluminum wire circuitry is typically found

RECEPTACLES

in most houses and is considered safe and reliable when installed correctly.

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

GFCI RECEPTACLES

The cover plate is missing from a receptacle in the family room. This is a shock and fire hazard. The installation of a cover plate is recommended.

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

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

AFCI RECEPTACLES

The reset button for the GFCI protected receptacles is located in the garage.

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

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

LUMINARIES

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

SWITCHES

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

HEATING SYSTEM

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

FORCED AIR HEATING SYSTEM - The following components were inspected:

<i>GENERAL INFORMATION</i>	Heat is provided by a natural gas fired forced air furnace. The furnace is located in the garage. The furnace is approximately one year old. The input rating of the furnace is 66,000 BTU. This BTU rating is typical of a home of this size and age.
<i>GAS PIPING</i>	The flex connector is properly installed and is performing its intended function.
<i>AUTOMATIC GAS VALVE</i>	The automatic gas valve or safety valve is designed to prevent the emission of fuel into the furnace if it does not detect heat for ignition. These valves are generally very reliable. The automatic gas valve was functioning as intended.
<i>IGNITION</i>	The furnace uses an electronic spark ignition. This component was functioning as intended.
<i>BURNERS</i>	The gas burners are properly installed and are functioning as intended.
<i>COMBUSTION AIR</i>	The combustion air provides the oxygen for the fuel burning appliances. Combustion air also aids in the movement of combustion gases up the flue. Adequate ventilation around all fuel burning appliances is vital for their safe operation. The air can come from inside the house or from outside providing that the amount of air reaching the appliance is sufficient to maintain efficient combustion and draft. The combustion air supply is adequate.
<i>ELEVATION ABOVE GARAGE FLOOR</i>	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.
<i>HEAT EXCHANGER</i>	The heat exchanger is not visible without disassembling and removing it from the furnace. Cracks typically develop in heat exchangers after 10-20 years. Have your gas furnace technician check the heat exchanger during the next major service.
<i>DRAFT INDUCER</i>	The draft inducer pulls the combustion gases through the heat exchanger and pushes them up the vent connector into the flue. The draft inducer was functioning as intended.
<i>VENT</i>	The PVC plastic vent pipe for the condensing furnace is properly installed and is functioning as intended.
<i>BLOWER</i>	The blower draws air from the return air ducts and pushes it over the heat exchanger where it is heated. The air is then pushed through the distribution ducts into the rooms. The blower was tested and was functioning as intended.
<i>AIR FILTER</i>	The air filters are located behind the return air grilles. The air filters should be cleaned or replaced at least 2-3 times during the heating season.
	The air filters behind the return air grilles are redundant. Removal of one, of the two filters is recommended.
<i>DUCTS</i>	The ducts are constructed out of sheet metal. The ducts are properly installed and are performing their intended function.
<i>THERMOSTAT</i>	The thermostat is properly installed and the unit responded to the basic controls. This is a programmable device with options for automatic temperature settings (up and down). Testing the automatic operations of this thermostat is beyond the scope of this inspection.
<i>CONDENSATE DRAIN/PUMP</i>	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.
<i>GENERAL COMMENTS</i>	The furnace responded to the thermostats call for heat and all major components were functional. This type of furnace should be serviced annually.

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.

The following components were inspected.:

GENERAL INFORMATION

Unit Type - Heat Pump, Location of condenser - The condenser is located on the south side of the house.

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.

REFRIGERANT LINES

The accessible refrigerant lines appear to be in good condition.

CONDENSATE PUMP-DRAIN

Air conditioners produce condensate water inside 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 building. The pump is located in the garage. This pump was not tested.

AIR HANDLER

The furnace contains the blower and backup heat. The furnace blower was tested and was functioning as intended.

ELECTRICAL DISCONNECT

An electrical disconnect is installed in back of the condenser.

GENERAL COMMENTS

Testing the air conditioner/heat pump in cold weather when the compressor has not been run for a weeks or months could damage the compressor. Therefore the air conditioner/heat pump was not tested. You should review the maintenance records. Having the air conditioner/heat pump serviced before the start of the next cooling season is recommended.



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 garage.
GENERAL INFORMATION	The water heater fuel is natural gas. The capacity of the water heater is 50 gallons. The input rating of the burner is approximately 40,000 BTU. The water heater is approximately 4 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 AT TANK	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 vent connector from the water heater to 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.
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.
ELEVATION ABOVE GARAGE FLOOR	This is a sealed unit that prevents ignition of gasoline fumes that might leak from cars, lawn mowers, gas cans, etc. The burner of the water heater is elevated above the garage floor in accordance with industry standards.
GENERAL COMMENTS	The water heater is properly installed and is performing its intended function.

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:

COUNTERTOPS

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

CABINETS

The kitchen cabinets are properly installed and are in good condition.

FLOORING MATERIAL

The floor is covered with plastic laminated strip flooring. The floor is properly installed and is in good condition.

VENTILATION

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 FAUCET

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

SINK

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

DRAINS, TRAPS AND TRAP ARMS

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

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.



OVEN

The oven was tested and was functioning as intended.

COOKTOP

The cooktop elements were tested and were functioning as intended.

DISHWASHER

The dishwasher was tested and was functioning as intended.

GARBAGE DISPOSAL

The garbage disposal was tested and was functioning as intended.

The flex conduit protecting the cable to the garbage disposal is damaged. This could result in damage to the cable and is a potential hazard. The cable should be protected by metal conduit in accordance with industry standards.



REFRIGERATOR

The refrigerator is functioning as intended.

RECEPTACLES

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

BATHROOMS

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

BATHROOM

LOCATION	Main Floor, Powder Room.
FLOORING MATERIAL	The floor is covered with plastic laminated strip flooring. 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.
DRAINS, TRAPS AND TRAP ARMS	The sink drain is properly installed and is performing its intended function.
FAUCET FIXTURES	The faucet fixture was tested and was functioning as intended.
CABINETS	The finish on the bathroom cabinet is slightly worn. The cabinet is otherwise in good condition.
COUNTERTOP	The countertop is a manufactured acrylic material. The countertop is properly installed and in good condition.
VENTILATION	Ventilation in this bathroom is provided by a ceiling fan. This fan was operated and was found to be working satisfactorily.
GFCI RECEPTACLES	GFCI protected receptacles were found in this bathroom.

BATHROOM

LOCATION	Primary Bedroom.
SHOWER	Penetrating grout and tile sealers are recommended for preserving the condition of the grout. Grout sealer keeps stains from seeping into and setting in grout. Also, mold and mildew are kept from growing into the grout and the grout stays cleaner for a longer period of time and it will decrease the amount of maintenance that is required to keep it looking good and well maintained. For maximum protection, the sealer should be reapplied at least once.
	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.
BATHTUB	The bathtub is properly installed and is in good condition.
GLASS ENCLOSURE	The glass shower enclosure is labeled as tempered safety glass, is properly installed and in serviceable condition.



FLOORING MATERIAL	The floor is covered with ceramic tile. The tile is properly installed and is in good condition.
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<i>TOILET</i>	The toilet was flushed and was functioning as intended.
<i>SINK</i>	The bathroom sinks are properly installed and are in good condition.
<i>DRAINS, TRAPS AND TRAP ARMS</i>	The sink drains are properly installed and are performing their intended function.
<i>FAUCET FIXTURES</i>	The faucet fixtures were tested and were functioning as intended.
<i>CABINETS</i>	The bathroom cabinets are properly installed and are in good condition.
<i>COUNTERTOP</i>	The countertops are covered with slab quartz. The counter tops are properly installed and are in good condition.
<i>VENTILATION</i>	Ventilation in this bathroom is provided by a ceiling fan. This fan was operated and was found to be working satisfactorily.
<i>GFCI RECEPTACLES</i>	GFCI protected receptacles were found in this bathroom.

BATHROOM

<i>LOCATION</i>	Upper Floor Hallway.
<i>BATHTUB</i>	The bathtub is properly installed and is in good condition.
<i>TUB WALLS</i>	The tub walls are properly installed and are in serviceable condition.
	Penetrating grout and tile sealers are recommended for preserving the condition of the grout. Grout sealer keeps stains from seeping into and setting in grout. Also, mold and mildew are kept from growing into the grout and the grout stays cleaner for a longer period of time and it will decrease the amount of maintenance that is required to keep it looking good and well maintained. For maximum protection, the sealer should be reapplied at least once.
<i>FLOORING MATERIAL</i>	The floor is covered with ceramic tile. The tile is properly installed and is in good condition.
<i>TOILET</i>	The toilet was flushed and was functioning as intended.
<i>SINK</i>	The bathroom sink is properly installed and is in good condition.
<i>DRAINS, TRAPS AND TRAP ARMS</i>	The sink drain is properly installed and is performing its intended function.
<i>FAUCET FIXTURES</i>	The faucet fixtures were tested and were functioning as intended.
<i>CABINETS</i>	The bathroom cabinet is properly installed and is in good condition.
<i>COUNTERTOP</i>	The countertops are covered with slab quartz. The counter tops are properly installed and are in good condition.
<i>VENTILATION</i>	Ventilation in this bathroom is provided by a ceiling fan. This fan was operated and was found to be working satisfactorily.
<i>GFCI RECEPTACLES</i>	GFCI protected receptacles were found in this bathroom.

LAUNDRY ROOM

Appliances are tested when present and when circumstances allow.

The following components were inspected:

<i>CABINETS</i>	The laundry room cabinets are properly installed and are in good condition.
<i>COUNTERTOP</i>	The countertops are covered with slab quartz. The counter tops are properly installed and are in good condition.
<i>FLOORING MATERIAL</i>	The floor is covered with plastic laminated strip flooring. The floor is properly installed and is in good condition.
<i>VENTILATION</i>	Ventilation in this laundry room is provided by a ceiling fan. This fan was operated and was found to be working satisfactorily.
<i>SINK</i>	The laundry sink is properly installed and is in good condition.
<i>SINK FAUCET</i>	The sink faucet is properly installed and is in good condition.
<i>DRAINS, TRAPS AND TRAP ARMS</i>	The sink drain is performing its intended function.

Improper, non-conforming material has been used for the drain pipe fitting. This material will not function reliably. Replacement with industry standard fittings is recommended.



<i>APPLIANCES</i>	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 confirm the complete operation of the cycle timer. 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.
<i>DRYER VENT</i>	The visible portions of the dryer vent are properly installed and in serviceable condition. Dryer ducts should be cleaned annually as part of routine home maintenance. A dryer duct that is clogged with lint is a fire hazard.

PLUMBING SYSTEM

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

The following components were inspected:

<i>PLUMBING SPECIFICATIONS</i>	<i>SYSTEM</i>	The building is on a public water supply system. The building is connected to the municipal sewer system. Copper tubing is used for the water supply piping. ABS plastic is used for the drain, waste and vent pipes.
<i>MAIN WATER SHUTOFF VALVE</i>		The location of the main water shutoff valve was not determined. You should query the seller as to the location of the valve.
<i>MAIN WATER LINE</i>		The main water line is buried underground and was not visible for inspection. The flow indicator on the water meter was checked with all the water shut off in the house. There was no movement of the flow indicator. This suggests that there are no leaks in the main water line. You should check the meter periodically (2-4 times a year) with all the water in the house shut off. Movement of the flow indicator on the meter means that there is a leak either inside the house or in the main line underground.
<i>INTERIOR WATER SUPPLY PIPES</i>		The visible portions of the copper water supply pipes are properly installed and functional. Copper is considered one of the most desirable materials for interior supply pipes and is expected to last the lifetime of the building.
<i>WATER PRESSURE</i>		The water pressure is 50 PSI. This is in the normal range of 30-80 PSI.
<i>DRAIN AND WASTE PIPES</i>		ABS plastic is used for drain, waste and vent pipes. All of the visible drain pipes were properly installed and functional. ABS is a durable, reliable material and should last the lifetime of the building. All drain, waste and vent pipes were stress tested by filling bathtubs and fixtures to the overflow and then draining them while simultaneously flushing the toilet and running the sinks and showers. No leaks were observed and all fixtures emptied in a reasonable amount of time with no fluctuation in the rate of flow down the drain. This is commonly referred to as "functional drainage".
<i>VENT PIPES</i>		The visible portions of the vent pipes are properly installed and are performing their intended function.
<i>FAUCET FIXTURES</i>		All faucet fixtures were tested and were functioning as intended.
<i>HOSE BIBBS AND EXTERIOR SUPPLY PIPES</i>		The hose bibbs on this building are the frost free type. These hose bibbs typically will not freeze as long as the hoses are removed. Failure to remove hoses during freezing weather could result in a cracked pipe and leakage. The bibbs were tested and were functioning as intended.
<i>GAS PIPING</i>		The visible portions of the gas piping were properly installed and are performing their intended function. There was no odor of gas leakage at the time of the inspection.
<i>GAS METER</i>		The gas meter is located on the 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.

INTERIOR

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

The following items were inspected:

GENERAL COMMENTS

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

STAIRS

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.

GUARD RAILINGS

The guard railing is properly installed and is functioning as intended.

WALLS AND CEILINGS

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

DOORS

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

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

CLOSET DOORS

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

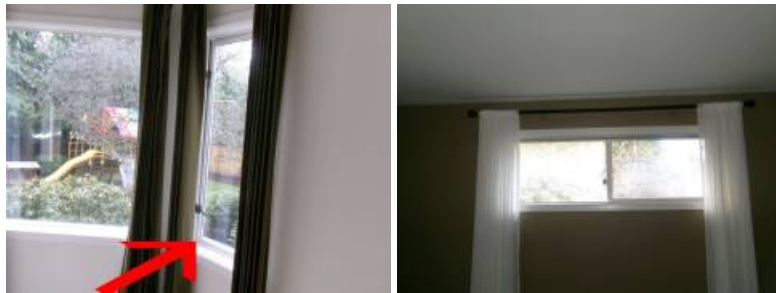
WINDOWS

The window frames are constructed from wood and have insulated glass in them. All of the windows were tested and/or inspected.

The windows are in good condition and are functioning as intended except where noted below.

One of the windows is stuck. The window should be adjusted or repaired as necessary to restore proper operation.

There is condensation or mineral deposits between the panes of glass in one of the insulated glass window panes. This indicates a failed seal. The glass assembly should be replaced, which is the only method for correcting this deficiency.



SMOKE DETECTORS

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

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

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

Photoelectric technology is generally more sensitive than ionization technology at

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

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

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

DOOR BELL

The doorbell was functioning as intended.

FIREPLACES, WOOD STOVES AND SPACE HEATERS

The following components were inspected:

GAS STOVE INSERT

The fireplace is a factory built 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 above the roof.

The pilot light was not working and the gas insert was not tested. The operation of the gas appliance was not verified.

The condition of the fireplace in which the insert is placed was not visible for inspection and its condition was not determined. The smoke pipe should extend from the top of the insert, through the smoke chamber and into the flue. This portion of the installation is not visible for inspection. You should have a chimney sweep examine this component when the chimney flue is cleaned.

The gas supply for the fireplace is located on the floor adjacent to the hearth and another is located on the side of the appliance. The key that turns on this valve should be kept out of the reach of children.



ENVIRONMENTAL ISSUES

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

The following items may exist in this building:

CARBON MONOXIDE

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

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

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

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

FORMALDEHYDE

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

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

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

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

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

ASBESTOS

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

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

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

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

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

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

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

INSULATION

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

The following items were inspected:

ATTIC INSULATION

The attic is insulated with blown in fiberglass insulation. The approximate R value of this insulation is 27. 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 3-1/2" R-11 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:

<i>GENERAL INFORMATION</i>	The foundation is constructed from poured in place concrete. A perimeter foundation wall supports the exterior walls of the building. Interior load bearing components are supported by pier footings and/or continuous spread footings. The 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 manufactured trusses. The roof sheathing is plywood installed over a layer of open sheathing.
<i>FOUNDATION</i>	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.
<i>MUDSILL</i>	The mudsill is typically a 2x4 or 2x6 member that is laid flat directly on the top of or cast into the top of the foundation wall. The mudsill is usually bolted to the foundation wall and serves as a base for the rest of the floor framing. In this building, the mudsill is inaccessible and cannot be evaluated. There was no evidence present that would suggest that there are defects in this component.
<i>ANCHOR BOLTS</i>	Anchor bolts are bolts that are cast into the top of the concrete foundation and retain the mudsill. The anchor bolts primary function, 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. Anchor bolts are installed and are performing their intended function.
<i>BEAMS AND POSTS</i>	The beams and posts are properly installed and are performing their intended function.
<i>FLOOR JOISTS</i>	The visible portions of the floor joists are properly installed and are performing their intended function.
<i>SUBFLOORING</i>	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.
<i>WALLS</i>	The walls are covered with finished surfaces and therefore were not visible for inspection. No evidence of defects or deficiencies was observed.
<i>ROOF STRUCTURE</i>	The roof structure is constructed from factory-built, engineered trusses. The trusses are installed in a manner consistent with buildings of this type and are performing their intended function. No defects or deficiencies were observed.
<i>ROOF SHEATHING</i>	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 in the closet under the stairs. The crawlspace was entered and all accessible areas were inspected.

MOISTURE

The soil was damp under the vapor barrier, however, no evidence of water intrusion or standing water problems was observed.

VENTILATION

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.

VAPOR RETARDER

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 improperly installed. (see below)

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

There is evidence of rodent activity in the crawlspace. The first step in eliminating rodents from the crawlspace is to seal all possible entry points using wire mesh, caulking, wood, stainless steel wool, aerosol foam or mortar. Careful work sealing cracks, holes, gaps, and covering ground water drain inlets will discourage rodent 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.

Cellulose forms were left in place on the pier footings. This cellulose is conducive to the infestation of various wood destroying organisms.

Scrap-wood and other cellulose debris was observed on the crawl floor. This wood debris creates conducive conditions for wood boring insects. The removal of all cellulose debris is recommended.

