



Helping You Manage Your Real Estate Risk

Inspection Report by	: Gregory J. V	ishey, 1	254 Hawthorne Rd., G	rosse Pte Wds, MI 48236
Customer: (removed))			
Inspected address: (re	emoved)			
Approx sq ft: 1500	oprox sq ft: 1500 Est. yr. built: 1968 Email: (removed)			
Services: Pre-purchas	Temp.	. 30-40 deg. F	# of Stories: 1	
Style: Ranch	Garag	e: attached	Today's Date: 1/6/08	
Front generally faces: North		Weath	ner: Light rain	Foundation: basement and
				slab

If you have not signed the Pre-Inspection Contract, your acceptance of report and payment of fee constitutes full acceptance of all Pre-Inspection Contract terms and conditions. If any term of our contract is

deemed unacceptable to you, return all copies of your report within 2 days for a full refund.

1. Purpose, Scope & Applicable Standards for this Inspection - This report summarizes significant findings at the time of the inspection. Photo images may also be enclosed. All enclosures combine to create a complete report; so please read your entire report. Except when identified differently, this inspection fulfills the latest National Association of Home Inspection (NAHI) Standards of Practice. These standards clarify the purpose, limitations, exclusions, and terms of the inspection.

Expected Constraints - The limited duration of the inspection and use of sampling methods reasonably causes some conditions to be missed by an inspector. Past repairs or deliberate attempts to hide defects may conceal them from detection. Weather accentuates certain conditions while concealing others. These risks are the customer's responsibility and additional inspection time and scope can be secured at added cost to offset these risks. Note: An inspector may recommend that added inspections or testing be conducted. The choice to perform or to not perform these is always the responsibility of the customer.

Scope: You have contracted a general, NAHI inspection. This is different from a specialist inspection which can be very costly and lengthy; possibly taking days to disassemble test and inspect the many attributes of a home. Specialist inspections often involve fiber-optic inspection of sealed cavities, video inspection of sewers and lab testing of samples. A general inspection is done on site without lab equipment. It is neither intrusive nor destructive. As a result of its limited scope, general inspections offer substantial cost savings compared to specialist inspections. The goal of a general inspection is to identify major defects or conditions that could result in injury or reasonably affect your evaluation of a property or decision to buy/sell.

Inspectors will reasonably ignore minor irregularities or defects that would be apparent to an average person not qualified as a home inspector, where these do not clearly indicate larger problems with major home systems. Minor settling cracks, broken tile or a stuck window for example, are all part of a home's routine maintenance. Such defects would typically not be addressed in the inspection report. If there are questions regarding the inspection scope, please refer to the enclosed NAHI standards.

The following systems are <u>will not be inspected</u> unless specifically quoted and included in the inspection contract: sprinklers, alarm, boat hoist, fire suppression, intercom, counter-top appliances, pool, entertainment, secondary structures, septic field, underground drains, pipes, sewers and wells. Any mention of these systems or their components in the report is to be interpreted as casual and observational only. These are not major systems of the home and your inspector prioritizes the other systems over these. You should call upon other skilled trades to inspect those systems if you want them checked.

Amendments/Disputes - If any report findings, conclusions or recommendations are unclear - or if there is a dispute regarding the inspection or report, please contact Greg Vishey immediately. Inspections are conducted under narrow time constraints in order to offer the customer a valuable, cost-effective service. Within the first four days after report delivery, if you consider this report to be unsatisfactory, you may request (in email or letter) an amendment, or a full refund upon your return of the complete report. To protect you, this inspection fulfills the National Standards of NAHI. Greg Vishey is a NAHI, CRI member.

Escrow: Nearly all terms of transactions are negotiable. The terms of an escrow reserve are changeable by you. Your risks will be reduced by fully understanding the inspection findings before the terms of the sale and escrow are closed. Any recommendation for repairs, or for a second opinion should be conducted before the close of sale & escrow because a specialist could reveal added defects or recommend upgrades that affect your evaluation of the property.

Repair Costs: Note that any repair cost estimate in this report is provided only as a general aid to the customer's understanding of certain significant findings. Such estimates are not comprehensive or complete and are only offered as "typical" costs for "like" repairs. All estimates will reasonably be expected to not match the true costs for repairs. The customer is always responsible for securing accurate and actionable estimates for any deficiency that is noted in this report. Any decision to transact on, or to abandon a property should be based on factual quotes provided by competitively bidding from qualified contractors. Be aware that defects can always be more or less severe than they outwardly appear. Your

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inspector cannot be held responsible if any estimate proves to be low, high or in any way inaccurate. Also, some communities demand certain unrelated home repairs or upgrades as a result of city inspections or permit applications. Because these vary by community, they cannot be predicted and the inspector bears no responsibility for those costs.

- 2 Significant Findings Safety, Risk or High Cost systems in need of attention. Note that these items may appear to be minor defects or normal maintenance while others may be improvements. Failure to address these could reasonably place occupants at-risk of injury or cause future, more expensive home repairs. Often, such findings are a hint that more serious defects may exist and you are advised to consult with skilled trades to determine the full scope of the defects that might hide in that area. Please place these items on your "to-do" schedule as you start prioritizing your maintenance and repairs. I strongly recommend that you attend to all safety issues immediately.
 - 2.1 Environmental / Hazardous Materials & Information (Possible Safety Concerns)

Cost	Item	Description
Watch:	Mold	Basement: There was no apparent water/fungus damage. No fungus growth was
		observed. Attic: No visible surfaces or materials were at risk.
Watch:	Radon	1 in 9 Michigan homes has high radon. Brighton, Rochester, Waterford,
		Commerce Twp & Royal Oak homes often test unsafe. Testing is advised for all
		new homes. A test was not conducted - this is optional.
Watch:	Lead	Lead is a health risk to children. <i>Plumbing</i> : Lead water pipes were used until
		~1930 and pipe solder until ~1980. <i>Paint</i> : Lead paints were used into the
		1970's. Note: Michigan requires paint testing be done by a licensed Lead Paint
		Inspector (it can also be done by the buyer). I do not test for lead paint.

2.2 Brick Mason/Cement/Asphalt

Cost	Item	Description
\$75	Driveway	Implement crack repairs in the asphalt driveway as needed (photo 5).
\$250	Masonry	The exterior veneer has cracked masonry, needing tuck pointing (photo 36).
\$340	Chimney	The large chimney cap is cracked, has a spalled fire tile needing replacement or removal, and both chimneys need hoods with wildlife screens on each open fire tile (photos 21, 25).

2.3 Handyman/General Contractor Repairs – (by area of the house)

	2.3.1 Exterior Handy Man/Contractor Repairs			
Cost	Item	Description		
\$1000	Landscape & Grade	Trees are contacting power and/or utility lines. (Tree trimming is needed). Grading: does not remove water from the foundation area. Maintain grading near the home's sides, down spouts and extensions to maximize water shed from the foundation. Grade soil around the home to achieve a 6" slope per 10' Install drain pipes to carry water from downspouts to a point 10-15 feet off the foundation before discharging the water to soil (photos 6, 10, 14, 15).		
\$100	Caulk	Maintain caulk at outer trim to seal off water entry points behind trim and into wall panels; particularly at windows and doors. The power main from the meter to the main panel needs sealant renewal at the outer foundation. This can prevent water from entering the electrical service box (photos 12, 13).		
Note:	Soffits	Ventilation is obstructed at soffit vents to the attic. I recommend installing full-length edge vents during the next roof replacement.		
\$275	Garage	Safety: The current garage door opener does not reverse when obstructed. The door opener does not have child safety-trip lights and is regarded to be child-unsafe. I recommend that this older unit be replaced (photo 8).		
\$40	Trim	Wood trim on the garage door (side door) is original finish and needs repainting (photo 9).		
\$20	Garage	The current hatch from the garage to the attic is a masonite board. For fire safety, this needs to be upgraded to at least 5/8" drywall since there is a common attic above the garage and house without a secondary fire wall.		

2.3.2 Handy Man/Contractor BASEMENT Repairs

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Cost	Item	Description
\$250	Dryer vent	I recommend that a 4" dryer vent be installed to carry dryer exhaust to the exterior. If vented to the house interior (as it is set up), this could cause paint, wall and ceiling damage due to excessive moisture.

2	2.3.3 Handy Man/Contractor INTERIOR Repairs				
Cost	Item	Description			
Note:	Windows	I recommend repairing the cracked basement casement window (laundry room). Main floor windows are thin, older, Aluminum-framed models with poor energy conservation performance and should be upgraded. Note that Pella (brand) casement windows are the best made energy-saving models to install. Plan roughly on \$475-500/window as a replacement cost estimate.			
\$75	Walls, Ceilings	Repair the spot of water damage on the kitchen ceiling. The gap above the half bathroom switch plate needs filling and repair (photo 49).			
\$200	Dryer vent	Safety: The basement dryer vent discharges humidity directly to the basement. This needs to be routed through the foundation to the outside.			
\$500	Kitchen/ Bath	Tile and fixtures require re-caulking (photo 44). Install and properly vent a bathroom vent fan to the exterior. For loose shower head pipes: Inject Redifoam into the wall cavity, along the shower head tube to secure it (photo 45).			

	2.3.4 Handy Man/Contractor ATTIC & ROOF Repairs				
Cost	Item	Description			
\$75	Roof, Attic, Ventilation	Remove insulation from soffit areas (photo 28). "Can vents" on the roof require large apertures to work and current vents are improperly cut in at least one location (east end)- photo 35). Note that a plastic container in the N-E corner of the attic may have been used for a past roof leak but this area was dry at the time of the inspection and no water was visible in the container when viewed from the ridge area (photo 33). Note that the use of a can vent for the kitchen range vent may be an incorrect application for this product and should be discussed during your next roof installation.			
\$75	Roof	The roof is in the last third of its life. A new roof should be planned in 5-8 years. Seal all exposed shingle damage, nail heads and any gaps in flashings as found. Plan on the new roof costing \$3800-\$4500. Repairs are needed now to nail pops (photo 15), flashings (photo 11) and gouges. Bolts that attach the satellite dish to the roof need to be sealed (photo 23).			
\$130	Gutters	The rear gutters are loose and drooping near the center chimney. One front gutter is incorrectly pitched and accumulates water above the front entrance. The front gutters need cleaning.			

2.4 Electrician

2	2.4.1 Electrical - Service Panel - Electrician Repairs			
Cost	Item	Description		
\$750	Panel	Safety: A fuse service panel design life is approximately 30 yrs. This panel is considered beyond its design life. (photo 38 – partial view) (Note that two new ground rods and a ground wire across the meter will also be needed		
\$25	Breakers & Panel Wire	with a new service panel). Safety: Small gage wires on high current fuses are a fire and safety hazard. Circuit #13 has a 15 amp wire on a 20 amp fuse and needs to have a 15 amp fuse installed.		

2	2.4.2 Wiring, Junctions, Switches, Outlets, Boxes - Electrician Repairs				
Cost	Item	Description			
\$500	Temporary	Safety: Temporary hanging lights (in the garage) need repair to be permanent electrical installations – or they should be removed. The extension cord to the water softener needs to be replaced with permanent wiring (or remove it). The outlet doubler under the basement steps is temporary electrical splitter (photo 42) and needs to be removed or replaced with hard-wired outlets. The Romex wire from the dishwashes plugs into an outlet above the laundry area and needs to be			

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		replaced with permanent electrical attachment to the home (photo 39) Romex is solid wire and is not permitted to be connected to temporary plugs for appliances.
\$30	Boxes &	Safety: Open boxes require covers. (see the loose, open outlet box above the
	Outlets	microwave – photo 48) Secure loose boxes to the walls. (same)
\$90	GFCI	Safety: Install GFCI outlets. Outlets near moisture need to be GFCI protected.
\$125	Water	Safety: The water meter is unbonded and nod grounded to the electrical panel –
	meter	this will need to be done during future electrical repairs.
\$45	Outlet	Safety: One burned outlet at the laundry area needs replacing (photo 53). Note
		that this 2-outlet receptacle cannot serve the sump, washer and dryer
		simultaneously and additional outlets are needed.

2.5 Heating/Cooling/Water Heater

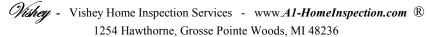
Cost	Item	Description
Note:	Furnace	A furnace has a 30-35-year design life. Schedule its eventual replacement. The
		current furnace is 20 years old and is regarded to be fouled with rust, in need of
		cleaning, but serviceable. Clean mixing tubes fouled with dust. (photo 37)
\$400	Exhaust	Safety: Furnace - Re-cement the vent to the chimney. (there are minor gaps). Note also that this vent will need to be upgraded to a flue liner system during the next furnace or water heater replacement. Secure the loose vent with screws to the water heater.
\$175	H/C system	Install a humidifier to add stability to dryness. (use Honeywell, ArilAire, or General brands)
\$15	A/C	Clean the A/C condenser in the near term. Ensure it is kept level, clean and unobstructed. It must drain water properly. Keep lines running through the foundation properly sealed.

2.6 Plumber

Cost	Item	Description
\$10	W. meter	One water main valve frozen - requires repair. (I loosened it slightly – the right valve needs more work)
\$45	Toilet	Repair incorrectly filling/flushing toilet. (1) - Runs-on. (I recommend using American Standard Cadet-III models).
\$60	Sump	The sump pump assembly is adrift in the sump well and needs to be better secured. The check valve on the sump is inoperative and needs repair or replacement (photos 41, 42).
\$300	Laundry	The laundry basin sump pump pressure switch is inoperative. When the tub was filled, the pump would not actuate. After manually actuating the hand switch, the pump would not turn off until unplugged from the wall. This pump needs repair or replacement. A second unit (used) was resting on the floor next to this unit. The leaking pipe coupling under the sink requires repair.
\$250	Hose bibs	I recommend upgrading outside hose bibs to frost-proof models (photo 13).
\$80	Water	The abandoned water softener should be removed and plumbing by-passed.
	Softener	Older plumbing from the previous well system should also be removed (photo 40).
\$TBD	Pipe	One L-shaped pipe on the front face of the house (basement side) needs to be evaluated for function and removal. There are minor water stains around this pipe and its joints are loose.
\$100	Drains	The bath tub drain and the kitchen sink drain are inexpensive flexible couplings that are not durable. These should be upgraded to prevent furute leaks.
\$475	Water Htr	The 15 year old water heater is regarded to be beyond its design life of 6-10 years. This unit was incorrectly vented, is missing its drip tube and has no dielectric isolators to protect against interior tank corrosion. I recommend that this unit be replaced in the short term.
\$10	Hall bath	The sink in the half bath is missing its aerator and needs to be replaced.

General Cleaning & Wildlife Control

Description Cost Item







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\$40	Exterior	Debris left in the garage attic needs to be removed (photos 27, 29). No yard
	debris	debris was present needing removal.
\$430	Duct work	House heating duct cleaning – The ducts have dust and debris and you would
		benefit from cleaning them. (I recommend the teams that use a truck with large
		vacuum systems). Clean ducts after your move-in is complete.
\$20	Wildlife	Mice observed in the attic need to be removed with old-fashioned mouse traps
		each year around October-November when mice enter attics (photo 34).
		Poisoned bait traps are hazardous to cats and can result in mystery odors as mice
		eat them and go off to strange places to die.

2.8 Inspection Limitations & Adverso	e Conditions:							
Inspection was constrained	☐ No water service							
Radon: A test was not conducted - this	s is optional.							
Roofs are not inspected in dangerous conditions (snow-covered areas)								
Finished foundation walls are not inspectable								
Covered basement ceilings are no	t inspectable							
Inaccessible spaces below floors not inspected (addition).								
☐ Inaccessible attic areas & like spaces are not inspectable								
Outside bibs are untested in low t	emperatures							
A/C systems cannot be fully opera	ated below 50 degrees F							

3. Site & Grounds

The interaction of a home and its site is critical to the health and stability of a home. *Ideally: A home is positioned on firm soil* and water from the roof is collects in gutters then channels to downspouts that discharge into passageways that carry the water far away from the foundation to where it does not return. Any water striking the soil near the home is carried away by a suitable slope that prevents seepage to the foundation. An elevated living space floor keeps water from entering there. The outer shell of the home prevents water entry to the more vulnerable, interior materials.

Water is destructive and is often the cause of most home defects. It gets into tiny cracks and expands under freezing with large forces. The home's ability to shed, extract and eject moisture is critical to a healthy home. Poor moisture handling makes the house vulnerable to damage. Rot, mold, masonry deterioration and insect infestation are symptoms of water damage.

Most home systems are judged by their handling of moisture; from foundations to attic insulation and ventilation. One focus of this inspection is to understand how this home is achieving, or failing its designed objectives relative to moisture handling.

A review of these grounds was conducted for water shed. The slope of the earth around the structure does not remove water from the foundation area. Good grading is at least a 6" drop per 6, away from the foundation. Water should never wash toward the foundation or pool near the foundation. Grading was away from the foundation on 1 side (favorable), flat on 1 side of the property (unfavorable) and the neighboring properties drain toward this foundation on 2 sides.

Trees and vegetation: do not crowd the home or grounds. Trees are contacting power and/or utility lines. Branch condition appears good. The house is in the fall zone of one or more trees. No yard debris was present needing removal. As your landscaping grows, trees should never overhang a roof and large trees should never be closer than 20 feet to the foundation. Large trees can damage a foundation, sewer pipes and interrupt water drainage from the foundation. No large trees require removal.

The driveway is made of asphalt, the surface is graded properly and it is generally in good, serviceable condition. Near the home, the driveway sheds water away from the house. This is favorable. Needed driveway repairs: Masonry needs minor crack sealing. The driveway apron is serviceable.

Where a driveway or walkway has seams or runs along a foundation, low-cost sealants can be used to seal out the water and prevent its entry to the foundation. The best sealing compounds are self-leveling elastomeric compounds (like those seen between cement sections at the city pool i.e. gray, soft rubber sealants). Many of these are found at building supply yards.

Sidewalk repair criteria differ from city to city but typically run between 3/8" and 3/4" maximum mismatch at seams with no cracking. Sidewalks are often reviewed in 7 to 10 year cycles and the home owner is responsible for needed repairs (\$45-\$100 per section). Here, sidewalks were not present. Note: Heaving walkway sections can be trip hazards.

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If retaining walls, landscaping structures or fences are present, they are inspected to verify apparent condition and the material they are constructed with. Note that a properly designed retaining wall will often incorporate structural components that are hidden below the soil surface that support against the pressure of the soil. These cannot be seen without excavation and no opinion regarding the strength or longevity of a retaining wall can be offered. On this property, retaining walls are not present. A fence is not present on this property. Trees are contacting power and/or utility lines. Generally, the ground cover and vegetation around the home is best described as in need of reasonable maintenance. No major landscaping features were present.

4. Exterior Foundation Structure

The foundation construction was block/mortar construction. Vertical supports to the center house structure were steel columns and placement relative to the vertical load was in line with the load direction (favorable). All vertical supports were centered and locked on the main beam and their bedding in the foundation appears to be concrete. The main beam is a single steel "I-Beam."

Foundations are inspected to determine if there is heavy water leakage through them or apparent softening/deterioration of concrete, brick, block, mortar, steel or wood components. On this structure, the inspection of the inside foundation indicates that the foundation is serviceable. Because foundations hold back pressure from the surrounding soil, support the weight of the house AND a heavy burden of roof-top snow, a sound, structural foundation is needed for the long-term stability of the home.

Settling: All homes "settle" over time as the weight of the home makes it sink into the ground. Appropriate footer design and dry foundation soil will best preserve the integrity of a home. Since mud cannot support any weight, keeping the foundation dry is imperative. Water that enters a foundation at any one point can distribute around the home and cause settling at another point (not just where it enters). Over time, trees extract large amounts of moisture, clay swells when wetted; and roots swell and push on foundation walls. A home inspection reviews these effects as they are apparent at one point in time. Settling can be sudden and unequal around a home due to factors unforeseen and beyond the control of the inspector or home owner. Typically, the perimeter of a home weighs more than its center and the outer walls sink faster; usually causing the center beam to "crown." One general relationship is consistent: If water continues to be present on a foundation, then settling is reasonably expected to continue along the path of least resistance until a structural compromise (failure) occurs. Drying a foundation can arrest this damage but will typically not reverse it. This foundation was intact - no visible damage.

At key sites, the wooden understructure tested solid when probed w/a metal scratch awl. I typically probe areas near the home perimeter or bathrooms where water exposure is likely. Softness can indicate structural problems as well as water damage.

4.1 Sumps, Water extraction systems, Slab, Crawl Space and Basement Walls & Flooring:

Homes with crawl spaces and basements are inspected for the presence and operation of sump pumps. In this home, a single sump was found. When tested, the sump operated normally. Water was present in sump while tested. No back-up system was present. If basement finishing is planned (or present), the best protection involves redundant water protection systems. For example, a water-powered or battery powered back-up sump system is advised in addition to a primary sump system.

When accessible, basement and slab footings and floors are inspected for condition and stability. In this home, the floor was painted concrete and was flat and well laid.

During the inspection, basement and slab walls were found to be dry but exhibited past water stains. Wall and floor surfaces are inspected for significant damage. Damage can range from surface stains that are remedied through cleaning to structural damage. During the inspection, the basement and slab floor was dry. Water entry at the floor-foundation joint is a common finding in most homes and was not present at the time of inspection. No water stains were found- leakage is low risk. In this location and with this type of construction, this finding is considered normal. There was no evidence of past flooding evidence of past, extensive flooding (typically evidenced by more extensive wall or floor damage or water rings around walls). Past, repeated water seepage through walls is often evidenced by moist surfaces or an accumulation of salts and efflorescence (leaching cement, salt, calcium and lime crystals). Traces of efflorescence were found on the walls.

Below-grade storage: I recommend keeping storage 6"-8" off the floor and 12" away from the walls. This promotes air circulation at the likely source for water seepage (and where humidity promotes fungus growth). There are rare cases where basement and slab flooding can result in deep water on the floor. Clogged city pipes, malfunctioning city pumps or construction damage can each cause a basement and slab to flood when it has not done so before. These types of events are





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unforeseeable. While infrequent, basement and slab flooding is a risk that all homes have, and protection of basement and slab storage is advised.

The construction for the first floor understructure was covered in areas preventing inspection. The design was typically a 2 x 10, 16" center, wood. This structure was judged to be serviceable.

4.2 Fungus Growth (Fungus = Mold)

Much can be told about a home when smelling the air of a basement and slab upon first entry. In this home, the basement and slab smelled dry and clean. The smell of basement and slab air or apparent humidity strongly hints at the prevailing dampness of a foundation. This is an important indicator to the risks for fungus and other risks to owners. Excessive moisture promotes foundation deterioration as well as a breeding environment for nature (bacteria, fungus and insects). Dampness above 50% humidity encourages mold/ fungus growth on most cellulose products. There are thousands of mold types that range in color from red to green to black. Stachybotrys is one of the more dangerous (toxic) fungi that is found in our area; making big news as "black mold." Luckily, this mold is not as common as indicated. More common molds such as Penicillium and Aspergillis can be significant health risks for occupants. During the inspection, basement and slab walls and floors are inspected for stains and apparent fungus growth or damage. There was no apparent water/fungus damage. Note that mold damage can range from surface stains (remedied through cleaning) to structural damage.

There are no government guidelines for fungus exposure and your risk depends on the fungus type and your sensitivity. The EPA recommends that growths over 10 square feet be handled by professional firms. For this report, I use the following scale:

Minor fungus = trace findings to <1 square foot of growth

Moderate fungus = 1 to 5 square foot of growth

Major fungus = 6 to 10 square foot of growth

Major fungus = >10 square foot of growth

While it is important to understand the type of any discovered fungus (because different fungi represent different risks and hazards, the amount of it can also determine if a home's occupants experience health problems. No fungus growth was observed. If needed, an effective method for killing fungus and cleaning it from durable,non-fading, non-absorbing surfaces is with a solution of "acidified bleach" (1 cup laundry bleach + 1 cup white vinegar + 1 gallon of water + 4-5 drops of dish soap). Wipe well, then force-dry the area with a fan. Note: bleach often fails to penetrate to the root of the growth and it may return (bleach typically removes only the surface stain). A longer lasting cleanup follows with a wipe using granular Spic-N-Span in water as a second-step, 4 hour or more, later and more forced drying. The key to eliminating the growth of new fungus is to promote air circulation and to keep humidity below 50%.

Fungus can grow behind walls and in out-of-sight places where a home inspector would not be able or expected to find it. NAHI Inspections will mention when and where significant, apparent growth of fungus is during an inspection, but the apparent absence of fungus should never be interpreted as a confirmation that a property is clean of fungus.

Mold is a sensitive topic for buyers and inspectors. If there are signs of pervasive fungus in a home, the inspector will typically advise that other environmental tests be contracted to further investigate risk and quantify the scope for possible remediation. The discovery of fungus growth in small amounts is very common (fungus is natural in our environment) Additional information can be found in the "Condition Description" section that follows this report and in the CD-ROM Library.

4.3 Basement, Crawl, Foundation Flooding and Water Leakage

A special concern regarding basement and slabs and flooding in general: Even if a basement and slab is perfectly clean and dry at the time of inspection, foundations in our area should be regarded as likely sources of water entry around the base of the foundation or through the floor. It should be regarded as fact that basement and slab are not water-tight vessels and will exhibit some amount of water entry under extreme wet conditions. Foundation walls frequently have cracks and holes that run, weep or leak. The causes for water entry vary and remedies range from collection & extraction systems to ablative coatings. No leakage remedy is fool-proof in all conditions and basement and slab finishing and storage should always be regarded as "at risk." There is a general industry preference for the "Drylok" masonry products made by UGL (see www.UGL.com). Don't use *plain* latex wall paints below grade as fungus grows on most latex. I recommend foundation painting with a mildew/fungus resistant latex, polyurethane or enamel paint over the water-proofing (Drylok) layer. This type of finish reduces moisture ingress by sealing the masonry and provides a cleanable, user-friendly finish. A more complete explanation for finishing foundation walls (and finishing basements) is found in the "General House and Property Conditions" section of this report.

Among other features, water lines, gas lines and sewer pipes perforate the walls and floors and can be water entry sources.

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Drain back-ups can be another. In many cases, the homeowner's best strategy for a dry foundation is to route down spouts six feet off the foundation, having a soil grade of six inches per six feet and if necessary, installing a water extraction system (a sump). Favorable findings at the inspection should never be interpreted as a guarantee that a basement and slab will never leak. In light of soil and home behavior in this area, a typical inspection might regard limited moisture entry as "normal" or "acceptable."

Typical basement and slab water leakage causes: 1. Gutters and downspouts that discharge directly to the foundation. 2. Poor grading around the home's foundation. 3. Gutters and downspouts that discharge into full or clogged storm sewers or drain tile, then back-up. 4. Clogged or incorrect gutters that back water into soffits where it flows down the inside walls. 5. Failed sump extraction systems (failed pump, float, motor or electrical).

5. Exterior (typically evaluated from the ground level, upward)

Masonry - Tuckpointing - Exterior masonry is in need of minor tuck pointing repairs in few areas (low cost).

The structural exterior walls were observed to be constructed of brick or brick veneer over wood framing. The exterior skin of a house keeps the weather (moisture) off the more vulnerable insulation, wood and plaster materials inside the wall. Because a home inspection is non-destructive in nature, it may be impossible to detect certain structural deterioration that is hidden within a wall when outward appearances are normal. Usually, structural elements of the home are concealed behind siding or brick veneer. This outer structure was probed with a scratch awl and tested solid. Since nearly all homes use masonry (i.e. brick or block and mortar) somewhere in their construction, it is important to note that masonry is typically compromised by water entering it and expanding while freezing. The masonry of this home was in need of minor tuck pointing repairs in few areas (low cost).

The window, door, edge and soffit trim were a combination of vinyl siding and aluminum siding in serviceable condition.

Window Exterior Condition:

Window condition (viewed from the ground, outside) was clear and serviceable, with glazing (the material that holds the glass in the frame) intact and serviceable. Note that dirty windows can obscure the presence of interior stains from failed weather seals. The integrity of weather seals is not an inspected feature (it is cosmetic) and a failed weather seal does not render a window unserviceable. The caulking around the windows was in need of replacement in several areas. Caulking reduces drafts and heat loss in the winter and therefore its effectiveness is important to your comfort and lower heating bills. Newer, upgraded window designs can dramatically lower noise from outside, reduce heating bills and keep a house cooler in the summer. This home would benefit from an upgrade to newer windows. Select windows were missing screens. These windows do not utilize storm windows. Note that window hardware and operation are more completely addressed in the *Interiors* section.

Door Conditions:

Outside doors were inspected for operation, security and function. The front door to the home was constructed of steel, hollow-core door with a weather seal that is serviceable, hardware that is serviceable and its security is good with a serviceable lock. The front doorbell is operational. The stoop below the front door should have enough room to maneuver when opening the door and if there is a 30 inch drop to the ground, a secure railing should protect you. The entry had a small step-up - no railing needed.

Outside trim and surface painting is best accomplished over bare, dry, wood with oil-based primers and polyurethane topcoats. Note that when paint peels, it fails at the base coating to the wood. Local scraping solves a local problem and adjacent areas will fail next. Effective correction of peeling paint requires removal of the paint and the old base coat and refinishing.

6. Roof Coverings, Flashings, Gutters and Downspouts

This roof design is a Hip roof (1 long peak). The roof material is asphalt tab shingle and the water shed system manages the roof water run-off by way of aluminum guttersand aluminum downspouts. This roof was walked-on during the inspection.

The surface condition of any roof affects the protection that it offers. This home's roof was in the last third of its life. This estimate is based on the roof material: asphalt tab shingle, its estimated design life: 20-25 years, current condition: curling (unfavorable). The roof was inspected to determine the number of layers used in its present construction and 2 layers are visible at the edge. My estimate of the remaining service: A new roof should be planned in 5-8 years.

This roof deck was inspected for an ice barrier; no ice barrier was visible. (Ice barriers were previously not required). These

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are typically rubber-like membranes that are placed above the gutter areas that seal around the nails that drive through them. A correctly installed ice barrier extends from the drip edge to a point 24 inches inside of the inner (heated) wall of the home.

Drip Edges are L-shaped aluminum, copper, steel or plastic fittings under the shingle edges that keeps water from attacking the underlying wood. This roof was inspected for the presence of a drip edge and a drip edge was not present (one was only present over the front door) in serviceable condition. Note that a roof should have annual inspections and spot repairs. The cost for annual checks and roof repairs with sealant is typically less than \$20 if done by the owner or \$125 if done by a contractor.

Downspouts are aluminum downspouts, in serviceable condition and all drain to the foundation at the home's perimeter. Rerouting downspouts to shed water at least 6-10 feet off the foundation is advised to protect basement and slabs from possible water damage. Water affects a foundation three ways. 1. Chemically -It deterioraes mortar and concrete and leaches salts and chemicals from the ground that can reduce the mortar to sand. 2. Biologically - Bacteria and fungus grow and consume organic media - including the paint on walls 3. Mechanically - Freeze-thaw cycles and clay swell and shrink apply forces.

Flashings act as seals along roof lines where the roof deck mates to walls or chimneys. These prevent water entry to the interior that can be destructive to plaster work and can cause mold/fungus growth or rot. Flashings on this roof were galvanized steel flashings and in serviceable condition. The chimney cap (the top) was observed to be cracked and needing service. The chimney column (below the cap) was observed to be intact.

Roof vents are a key feature to stay warm in the winter and cool in the summer. In winter, vents bring in dry, cold air and remove moisture from the insulation (moisture reduces the ability of insulation to hold heat). Note that just 5% moisture in fiberglass insulation can double your heat loss. Minimum attic ventilation is defined as 1 square foot of ventilation per 300 square feet of roof surface. Based on its size, this home needs approximately 4 sq ft of top-side ventilation for heat rejection in the summer and moisture rejection in the winter...if soffit vents and vapor barriers are properly installed and effective. If not, the needed ventilation could be 2 or 3 times this amount. On this home, soffit ventilation was poor - not supporting the top ventilation needs. Ideally, soffit vents should balance the area of the roof top vents. Note that grills or vent covers decreases the effective vent size and therefore a grill with a 50% opening would double the total soffit ventilation needed to balance airflow under a roof. You should maximize soffit and roof top ventilation to the greatest extent possible and note that power vents (fans) are generally ineffective. Soffits: soffits were serviceable and adequately finished.

Other roof features such as skylights, light pipes and antennae are typically inspected during a roof inspection to the extent that they can compromise the roof or place the home at risk. In this home no special features were present.

7. Roof Structure, Attic and Insulation

The underside of the home's roof is inspected where access to the attic is available. Attic access was through a garage ceiling hatch. All major attic areas were accessible. No attic access limitations were present. The roof "deck" materials (overhead) are 2 x 4 wood joists with 1 x 6" gap boards. The roof framing and deck was dry in all viewable areas. The integrity of the framing and deck was checked for cracks, cuts and other structural risks. This roof was observed to be generally sound in construction and solid. This attic was checked for electrical fixtures; no electrical features were observed in the attic.

Attic insulation was found to be uniformly distributed above the living space. For adequate ventilation, the eaves need to permit airflow into and through the attic. Here, the eaves were observed to be vented and were stuffed excessively with insulation. Ideally, the light of day should penetrate the attic at the soffit areas if airflow there is unobstructed. When inspected, No visible surfaces or materials were at risk. The attic insulation material was primarily treated cotton with added roll/batt fiberglass. Note that the majority of heat loss is through the top of the house. Attic insulation slows down that heat loss. Better insulation means lower utility bills and better comfort.

Insulation effectiveness is measured by an "R-value." A higher "R" means less energy loss. This attic's R-value is estimated to be in the range of 20-26. Construction requirements in our region are for **R19 min.** and **R50+** for new construction.

Attics frequently have evidence of insect, bird or rodent wildlife. In this home bait traps for mice were found

8. Garages/Carports

The garage was attached. The garage had operable electrical. There was no plumbing in the garage. The roof condition was similar to the home's. A working, power garage door opener was in place. The power door system did not have safety trips.

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Note that powered doors should have safety trips installed at the base to reverse it when something breaks the light beam. In addition, the door is supposed to reverse when obstructed with a force of 18# (to protect property & children from harm). The power door does not reverse when obstructed. The garage was unheated.

9. Electrical

Electrical service is evaluated for system type, capacity and serviceability through the use of direct inspection and a sampling of representative outlets and fixtures. These systems can be very complicated and defects can be dangerous to personal and property safety through fire and electrocution risks. I regard all electrical defects to be safety hazards. Electrical products often face recall or service campaigns and their standards and practices change frequently. Many requirements are selectively enforced by communities and your inspector cannot be expected to be a specialist in this field or to know what is expected in each community. It is essential that repair recommendations or upgrades advised here, be completed before the close of escrow since a qualified electrician could reveal additional deficiencies or make other upgrade recommendations.

Electrical service to the home was overhead with adequate ground clearance. Power lines approaching the house were free and clear of trees. Neighboring homes did not have utility lines crossing this property. When present, utility and power lines to neighboring homes can be moved away from your property by making a request to the appropriate utility company.

There is no drip loop on the main wire feed to the circuit distribution box and sealant around the entry point should be maintained to protect the home against corrosion and fire risk. Sealant around the wire entry to the outside wall is inspected and during this inspection, was sealing poorly; needing service. There is evidence of rust in the panel base of past water ingress to the circuit distribution box (i.e. that would cause water stains/corrosion). The design of the circuit distribution box utilizes fuses. The primary (main) electrical service panel was accessible and was located in the basement.

The main circuit box was inspected with the cover removed. The main feed from the house entry was determined to be 4 AWG Copper 100A capacity in a twin circuit distribution (2 power line feeds) with a rated capacity on the main fuse panel of 60 amps. Note that the main feed is allowed to be aluminum or copper material and it was copper in this case. The main fuse is sized appropriately for the main feed (safe). Sub-panels for high-current accessories such as heaters, air conditioners, etc were all inspected and found to be serviceable.

Branch circuits are inspected to verify that only one circuit (one wire) is connected to each fuse. This electrical system needs repairs as noted, and each circuit was visually checked to verify that the wiring had the rated capacity to carry the full current that each fuse was rated to deliver. Wires and fuses were all properly matched (favorable). The appearance of each fuse's condition was good, with no damage evident and wire attachments were loose in areas and tightened. (Loose connections can cause burns on fuses and can lead to house fires).

Older homes are often wired with a simple 2-wire system (hot and return only). Knob & tube wiring was used in into the 1940's and many of these systems have been upgraded for reasons of capacity and safety. Later systems used a type of wiring called "Romex" – this wire consists of a wrapped hot, return and a lower gage, bare ground wire. This wiring was used up to the 1970's and the ground wire, while redundant for safety, was often under-sized. These systems are typically called 2-wire w/ground systems. Today's wiring uses a 3-wire Romex system where the wire bundle has a hot, a return, and a ground wire that are all the same gage. While 2 and 3 wire systems are typically safe to use, the 3-wire construction is more robust in preventing fire and accidental shock. Older homes may have several generations of electrical systems and an electrician may be needed to sort out any needed repairs. This home has a 2-wire system w/o ground.

Main and subpanel wiring may use aluminum supply wires but branch wires (for outlets and lights) should always be copper. Aluminum branch wiring was used in the 1960's and 1970's and is known to cause electrical fires. Branch wiring in this home was observed to be all copper (safe). Insulator condition within the box was intact and serviceable.

Voltage was measured as 120 / 120 Vac and this voltage level is considered normal. A ground strap is intended to run from the electrical box to the plumbing and was visually bonded to the water pipes.

Newer construction uses Ground Fault Circuit Interrupt (GFCI) circuits in the fuse box rather than at sink and exterior locations — either method is considered to be effective. For safety, GFCI protected circuits are needed near all wet areas where electricity is within 6' of moisture (i.e. basement, kitchen, laundry, bath, outside outlets, and garage). A new type of protection device has recently been added to home electrical systems; the "Arc Fault Circuit Interrupt" breaker (AFCI). These devices are required for all bedroom outlets in new construction. AFCI's monitor the wiring and connections for loose





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wires or breaks that could cause a fire. When needed, the AFCI breaker will trip and remove the electrical power (and eliminate the fire potential).

Current requirements specify that all electrical outlets within 6' of moisture are to be GFCI protected and all bedrooms are to have arc-fault protection. At the main service panel, AFCI breakers were not present and GFCI breakers were not present.

10. Plumbing

Plumbing type differs widely. One fact is that fresh water supply and waste water management are critical functions that can affect other home systems. Eliminating or preventing leaks with periodic maintenance is a requirement for home owners. Regardless of the system's construction or complexity, leaks from plumbing are a common problem. The best and most dependable pipes are copper with (non-lead) solder because these resist the accumulation of minerals on the inside surfaces (like galvanized steel pipes suffer from) and they are a very durable product (unlike many plastic pipes). Note that leadbearing solder that was used in copper plumbing in past years, can slightly elevate lead levels in a home's drinking water.

Water Service / Plumbing / Sewer

The fresh water supply system used throughout this house was inspected and visually determined to be copper pipe with solder. The main water supply line to the home was visually checked and found to be copper (favorable). With city water service, there is always a shut-off valve installed on both sides of the water meter (this allows the meter to be removed and serviced). Both of these valves need to be serviceable without leaking any water. In this home, both valves were functional by hand. Note that water leaks do periodically occur at the valve stem and this feature can usually be tightened with a wrench or pliers to adjust the packing material and to stop the leak.

The furnace vent was secure but the chimney seal requires repair. The water heater vent was adrift to the water heater...

Water meters require bonding (a heavy gage jumper wire connects the pipes on both sides of the meter) to ensure that the electrical system is always attached to ground; even if the meter is removed. In this case, the water meter was visually confirmed to be unbonded; creating a safety hazard. Often the water main pipes come out of the basement floor and are unprotected. These should be secured to a nearby wall in order to prevent damage from children or accidental impact.

The waste pipes were visually inspected where they were visible and were found to be cast iron pipe Note that your home inspection cannot offer any opinion regarding possible sewer obstructions or damage below the grade. Since this can happen as a result of owner neglect, age, nearby construction, tree root penetration or other means, you should consider that a video inspection of this pipe can be contracted through most plumbers and that this will reveal the inner integrity of the home's sewer line. Sewer line replacement is typically very disruptive to home life and landscaping, and the cost of replacement is typically over \$2000 (this can become many thousands of dollars depending on depth, distance and number of trees affected). A buyer's decision to have a plumber conduct a video scan of the sewer pipes should be weighed against this cost, the home's age, proximity to trees and/or relation to recent or nearby construction. This is one risk that should also be understood before the closing and release of escrow. From my experience, new sewers are required in 2-5% of real estate transactions within 2 years of sale.

Visible plumbing was inspected for external condition and was judged to be serviceable.

Water Heater:

The hot water heater system was (a single unit) and observed to be hot and operational and with an estimated capacity of 40 gallons and an estimated age of 15-20 years. Water heaters can be expected to last as long as their warranty; typically from five to eight years, but they will generally last longer and water chemistry for an area will be a strong deciding factor on a water heater's life. Water leaks from water heaters are a certainty, given enough time and a water heater should always be installed over a pan with a drain to sewer. A pan under the water heater can also collect condensation, possible water entry from the flue and overflow discharge. This feature will help keep moisture from damaging the home.

On gas-powered heaters, leaks from valve bodies are a frequent finding and these are stated by the gas company to be unallowable at any level. When filled with water, this device can weigh several hundred pounds and it needs to be secure on its foundation. The water heater was a stand-alone design. The outer, metal case on the water heater was intact and considered serviceable. The exhaust vent on gas-fired systems is checked to ensure it is secure to the chimney/discharge point and was found to be adrift to the water heater. (a loose vent pipe can be a Carbon Monoxide leakage source to the living space and vents are expected to be screwed down to the top of the water heater). If water heaters are given an added insulation blanket, that





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blanket cannot cover the safety valve and spill tube. This heater did not have added insulation. The plumbing to and from the water heater was inspected and verified to be correctly plumbed.

Fixtures and Faucets (excluding bathrooms)

Water fixtures and faucets in the kitchen and on the exterior were inspected (note that the bathroom fixtures and faucets are reported separately within this report). Generally, the water valves in the home were operational and did not exhibit leaking. Inspected fixtures had shut-off valves installed. Leaks at valve stems may not occur during an inspection but will typically be noted in the report when they are found. Valve stem drips and leaks can usually be remedied with routine maintenance by changing or tightening the valve seats and/or packings. Water flow at each faucet was adequate. Areas under traps and around the bases of fixtures were inspected to establish if leaks were active. These areas showed past water leaks and were dry. Note that any toilet that has been fitted in place for over 15 years should be removed from its perch and re-fitted with a new wax ring. The toilet base should then be firmly secured to the floor and sealed with caulk to the floor. Review the current home for this and make this a part of your future maintenance plan.

11. Central Heating Systems: Forced Air Heating

A variety of heating systems exist; ranging from floor, wall, and gravity furnaces to newer, forced-air furnaces. A NAHI inspection will not dismantle any portion of the system, nor fully evaluate concealed components such as the heat exchanger, firebox, electronic air-cleaners, humidifiers, or duct motors or dampers. Similarly, we do not check every register at which the airflow may well be uneven. The airflow and the efficiency of any system can be compromised by poor maintenance, filters not being changed regularly, and congested ducts. Note that since 1992, all furnaces that discharge into a chimney column require a flue liner to be installed there. This protects the masonry and allows the exhaust gasses to properly vent.

The sellers are the best judges of how well a system works, and you should ask them about its maintenance history and if they have been satisfied with it. Alternatively, you may choose to conduct a more complete evaluation by a heating & cooling specialist. Most heating systems have a design life of around thirty years, but if a system is over ten years old, or if poor maintenance is suspected, it would be wise to arrange a comprehensive cleaning and testing of the motors, fans, and ducts.

This inspection <u>does not</u> evaluate or endorse any secondary heating devices that utilize gas or oil and are not vented. The presence of these in a residence often indicates an inadequacy in the heating system. Note that all heating devices are potentially hazardous in that they include open flame or heated elements; capable of igniting the many flammable materials found in homes. Also, appliances can produce carbon monoxide (CO), which in a tightly sealed or poorly ventilated home can result in sickness, injury, or death. We are not specialists and cannot see inside ducts.

Heating and Air Handling:

The heating system is described as a newer design, mid-efficiency system that is powered by natural gas. The system operation was checked and found to be serviceable; there was no visible flame disruption (when viewed over 1 cycle) Note that a severely cracked or damaged heat exchangers, outer cases or vent pipes on gas-fired systems can cause flame disruption in the firebox when the system operates. In gas-fired systems, a residential Carbon Monoxide (CO) detector is often used to ensure system safety during my inspection. This test is usually done at a representative duct or a nearby location in the living space. In this home, this test was conducted and measured 0 ppm CO (favorable). On open-burner systems, the outer case and firebox interior is inspected for dust, debris, corrosion and damage. On closed (sealed) high-efficiency systems, the outer case is all that is accessible. This unit exhibited no significant findings and appears serviceable.

The exhaust vent on gas-fired systems is checked to ensure it is secure to the chimney/discharge point and was found to be secure but the chimney seal requires repair (a loose vent pipe can be a Carbon Monoxide leakage source to the living space). The outer case on the heating system was observed to be intact and considered serviceable. The gas supply to the heater appeared and checked serviceable. The blower for the system operated normally.

These findings identify the performance at a point in time and there are no guarantees that the heating system is defect-free or will remain that way for any period of time. This inspection establishes that possible, gross defects are not creating a hazardous condition at the time of the inspection. As a complete heat exchanger inspection can take up to an hour alone to conduct, the buyer is advised to have the system re-inspected by a heating technician if this cursory testing and inspection is inadequate to meet the buyer's needs. Overall, the heating system is considered to be serviceable at this time. There were no supplemental heating systems. The environmental control was via a standard thermostat that was operational during the

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inspection.

12. Air Conditioning Systems - An air conditioner was present on the home.

This inspection does not cover portable air conditioning systems. When present, permanently-installed air conditioning systems are part of a standard home inspection. Since these have oil-bathed motors, manufacturers advise that they not be operated unless temperatures have been above 50 degrees F for the last 12 hours. (Improper operation when cold can burn out the condenser compressor motor). It is important to note that A/C condensers operate at higher efficiency when kept clean and they last longer when mounted flat. Poor locations with bad water handling can rot the base of the unit off or cause the aluminum coils to corrode. Having a slightly elevated pad with good drainage is recommended. Keep all vegetation at least 18" away from an A/C condenser. Vegetation crowds the condenser and needs clearing. This system was untested due to low temperatures and no performance data could be collected. The outside condenser was adequately mounted and sub-panel wiring was in serviceable condition. The service disconnect was verified functional. The A/C disconnect was a Pull-type disconnect.

13. Interior

Interior wall surfaces were typically drywall. Walls were inspected for finish, damage, nail holes, and structure. Generally, the surface finish of the interior walls was good; requiring general cleaning and touch-up. Water damage is typically a serious concern. In this structure, the interior walls did not show signs of water damage.

Home ceilings were inspected for flatness and paint condition. In older homes (typically with wood lath ceilings), the nails securing the heavy plaster to the joists can rust away or back-out. Sagging areas are a warning that the heavy plaster overhead can fall and cause injury. The ceilings in this structure appeared flat and secure. Note that small amounts of past water damage are regarded to be a frequent occurrence in many homes and can be many years old. These will typically not be specified in the report unless regarded to be an active leak or a major risk to the home. Minor water damage in walls and ceilings frequently results in peeling paint. When you paint a damaged or previously repaired surface with latex paint, the water in the paint can re-activate the peeling and cause it to spread. The best remedy is to refinish these areas with only oilbased paints once repairs are complete.

Generally, doors were serviceable; door hardware was generally tight and in good serviceable condition.

Windows: Window construction is described as double pane metal frame, sliding construction. Operation was typically good but some windows need adjusting. Window glass damage was found on at least one window. Since windows are needed for emergency exits in the event of a fire, the owner's ability to open them and climb through them is critical. Your ability to open and exit the master bedroom window should be confirmed for personal safety in case of fire. Window hardware requires repair or replacement in select areas.

Bathrooms: Standards require "greenboard" or water resistant wall panels for walls not directly exposed to moisture. These walls include bath tub surrounds and bathroom walls (shower stalls have direct water exposure and greenboard is not a best choice. Greenboard is water-resistant; it is NOT water proof and it deteriorates in wet conditions. Drywall (a white product) is unacceptable in all damp areas and should never be used in a bathroom. One "best" solution involves the use of "cement board" a.k.a."backer board." Cement/backer board is typically a cement and fiberglass composite with high moisture resistance and matches the properties of tile & grout.

Anything less than cement board/backer board in a bathroom floor, a tub enclosure or a shower stall is a common contributor to early tile failure. A finished bathroom wall does not reveal its inner construction and your inspector cannot determine if the best materials were used in the wall, tub or tile constructions. Generally, rebuilding a shower stall requires stripping the wall surfaces to the studs. A typical cost for this repair would exceed \$2,500. When tub surrounds are re-done with tile, a rebuild with cement board would reasonably cost around \$1500 or more. For this reason, many people place plastic or fiberglass surrounds over damaged tile to lower their repair costs. Bathroom inspection notes are found in the check list in this report.

Fireplaces: Fireplaces are a source of fire damage and hazardous combustion gasses. An inspection of fireplaces and exhaust ducts does not involve disassembly and therefore is based on visual conditions of the openings and does not exhaustively examine the inner passageways or any feature out of the direct line of sight. The Chimney Safety Institute of America (www.CSIA.org) and the National Fire Protection Association (www.NFPA.org) recommend that a chimney inspection be conducted by a certified chimney sweep. This applies to any brick fireplace or fueled appliance (such as a wood





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stove) with an exhaust vent. In this home, a single fireplace was inspected. Water heaters and furnaces often share a common chimney or exhaust vent. The draft through chimneys and vents can sometimes be obstructed by broken masonry, leaves, wasps, bird and squirrel nests, or other debris. Where possible, chimneys are inspected for integrity of the fire liner, damper operation and clear passage to the roof. Fireplace liners were in serviceable condition. Fireplace Dampers were serviceable. Creosote build-up was judged to be light (safe).

Kitchen: Kitchen cabinets were in good condition and their attachment to the wall/soffit was judged by eye and by heft to be secure. The general assessment of kitchen storage area and quality is of adequate storage capacity and good access. The kitchen counter top appeared to be made of a Formica-type material, was securely attached, and was in good condition with minor defects. The kitchen flooring was made of a ceramic tile surface that was in good condition, and is judged to be serviceable.

Kitchen and laundry appliances are sometimes included in Home Inspections; if they are included with the sale. In this inspection, the following were noted: The range was electric; it was inspected and serviceable. The oven was electric; it was inspected and serviceable. The sink disposal was not present. The refrigerator was serviceable and did not contain an icemaker. A garbage compactor was not present. The dishwasher was not inspected. The laundry washing machine was inspected and serviceable. The clothes dryer was electric; it was inspected and serviceable.

Many people incorrectly use flexible vinyl vent material for dryer vents. This creates a <u>serious fire risk</u>. The best material is smooth wall aluminum duct; not corrugated metal or metalized plastic. The rear dryer vent attachment needs to be a specially formed, 90 degree attachment. Dryer ducts produce the best drying, airflow and lint rejection when installed with two 45 degree elbows instead of one 90 degree elbow. Also, fabric softeners cause lint to accumulate inside of the vents. Check vents annually and clean them as often as needed. When a vent plugs, it forces lint into the base of the dryer where fire and heating elements can ignite it. <u>Obstructed dryer vents are a VERY frequent cause of home fires</u>. Dryer vents often exit the home through a full size, 4" fitting but on older homes, many dryer vents use a smaller 3" fittings that need enlargement to 4."

Fire detection: Furnaces are usually placed within living spaces and a Carbon Monoxide detector is recommended. Estimated cost of three smoke alarms plus a CO detector is approximately \$115. This home did have smoke detectors installed.

An effective way of protecting plaster and drywall in damp areas (tub and shower enclosures, ceilings, laundry areas and kitchen splash areas) involves the use of two coats of flat oil based primer or white pigmented shellac. Pigmented shellac is alcohol based and is an effective waterproofing finish. I personally like Zinsser's Primer-Sealer. (I recommend against "Kilz" - a poor performing primer). Zinsser also has oil-based kitchen and bath paint with fungicide that is recommended. Based on years of personal experience, I prefer the Zinsser products.

Note: Peeling paint may need to be repaired without any water-based products to avoid further peeling. I have used automotive fillers (Bondo) and oil paints successfully in these situations. Note that the water in latex ceiling and latex wall paints can re-activate the paint peeling mechanism and cause small affected areas to spread. Peeling paint is sometimes impossible to repair and a new ceiling surface may need to be installed over the original surface.

14. Recommended Reading:

"General House and Property Conditions" (following this report) & "Article Library" (CD ROM)

These contain information about basement and slab wetness, fungus and other areas of your inspection report that might generate questions. Please make these an important part of your report review.

The enclosed CD-ROM contains hundreds of articles on home repair and healthful living that address many of the conditions in this report. I also suggest reviewing the following publications:

- Children & Hazardous Materials, 228pp (found in the 'Hazardous Materials' folder) (EPA)
- Help Yourself to a Healthy Home, 34pp (found in the 'Hazardous Materials' folder) (EPA)
- Guide to Indoor Air Quality, 32pp (found in the 'Indoor Air Quality' folder) (EPA)

15. Conclusion

Thank you for trusting me to inspect your home. I welcome your comments and appreciate suggestions. In the future, you will likely discover other defects in this home. I will gladly answer the questions that arise. Please implement all repairs that are advised in this report and note that the recommended contractors may also identify other deficiencies needing correction. Their





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inputs and suggestions will further reduce your uncertainty and make this home safer and lower-maintenance.

Please consider my services for new designs, commercial or home improvements. I appreciate your referrals to friends, family & associates.

Best Wishes,

Gregory J. Vishey, BSME, MSA, SSBB, CRI H(313)885-4526 C(586)665-0659 <u>www.A1-HomeInspection.com</u> ®



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Major Exter	Major Exterior Features:				Outside bibs					kler system			
☐ Water: (n	o major feat	tures)		Sewe	;	\boxtimes	La	rge	trees				
Driveway, Apron, Sidewalks Driveway material: asphalt													
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Gray brick	•	Direct of			•								
Mortar depth	n: Inset	Mortar	cond	ond.: Hard Masonry drains: n						not pres	sent		
Masonry fini		Siding											
Trim mat'l:		Conditi	on: s	ervicea	ible co	e condition.							
a combinatio	n of vinyl si												
Ext. Awning	s: N/A	Soffits: so	offits	were s	ervice	eable	anc	l ad	leq	uately finishe	ed		
Suspect asbe	stos: (no ext	terior mat	terials	s are su	ispect								
Ext.Paint:			Cracl			eeli				Blisters			
Stucco:	Cracks		Bulge	es		oft s	spot		\boxtimes	Poor caulkin	ıg		
Soffit:	Holes		Sagg	ing	\square S	offit	t rot			Water stains			
Mail box:	⊠ Secure		Loos	e)ama	aged			Missing			
Windows	good cond		Rot i	n wind	ow fr	ame	S			Ice Damage			
☐ Bad weat	her seal fou	nd 🔲	No w	rindow	wells	pre	sent.						
Ea. window	: was clear a	nd servic	eable	e, (Glazir	ıg: i	ntac	t ar	nd :	serviceable.			
House: wou						indo	WS.						
Caulk: in no	eed of replac	ement in	seve	ral area	as.								
Screen: Sele	ct windows	were mis	sings	screens	S.								
Storms: The	se windows	do not ut	ilize	storm	windo	ws.							
Patios & De	cks - (Pres							Out	do	or patio: Cen	nent		
Foundati	on: intact	Servi	ceabl	le			∐ I)ec	k t	op:cement			



Outdoor lights

Electrical n/a

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Structure: Wolmanized

Structural Fast		lace rast II/a		alling. n/a						
Steps: n/a	Grou	und cover: n/a	Spindle sp	acing: n/a						
6.0 Roof (as vie				Surface/Shingle: 20-25 years						
Type: Hip roof (Curl: curling (unfavorable)						
Surface: asphalt		Ridge straigh		Shingle o/hang < ½" (incorrect)						
Roof minor rep				layers are visib	le at the edge					
		ill properly shed wat								
		Good spacing, mino								
		of its life. A new r								
Spalling	Nail pop			orn tabs	Skylights					
Cuts	Missing			oose vent	Sat. dish					
Wasps	Bird nes			ipped tabs	TV antenna					
Edge vent	⊠ Can Ver			idge Vent	Radio ant.					
Rot in chimr		Wildlife screen			Holes					
Damaged co		Chimney saddle			Bare wood					
☐ Height>2' al	ove @10'	Cover missing	Loose m		Fall hazard					
Soffit Vents			ower vent/fan	Est. min. vent	needed: 4 sq ft					
poor - not suppo										
		rip edge was not pre	sent (one was on	ly present over	the front door)					
in serviceable co										
		metal drip edge was		oped edges						
		rs in serviceable co	ondition							
		and need repair.								
		downspouts in ser								
		lashings in services								
Roof: no specia			cap: observed to	be cracked and	l needing service.					
Chimney colum	n: observed to	o be intact.								
8.0 Garage (Pr										
					oing in the garage.					
		on was similar to the			arage roof					
		wer garage door oper		☐ Garage d	loor: Repair					
		n did not have safety								
Reversal load				Garage heat: Th	e garage was unheated.					
	does not reve	erse when obstructed	d.							
# Bays: 2		# Pwr bay doors: 1		ay doors: 0	Adj/lube hardware					
Outside butt				Gutters serviceable Serviceable						
Fire-rated ho		🛚 ½" Gypsum barr		☑ Vent path to house ☐ Old heate						
Open electric	cal found	Temporary electi	rical 🛮 🖾 GFCI	GFCI outlets Gas serv						
			needed							
Cement serv	iceable	Water is pooling	Walls	off plumb	Cut joist(s)					
Exterior Doors:		Front door bell: o		Rear door bell						
Front: steel, holl	ow-core door	r Seal: serviceable.	Hdw serviceabl	e w/ good with	a serviceable lock					
Railing: The ent	ry had a smal	ll step-up - no railing	g needed.							
13.1 Basement/	Crawl/Found	dation/Slab STRUC	CTURE - <mark>** Ba</mark>	sement/Crawl/S	lab: basement and slab					
Foundation:			out is: partitione							
block/mortar cor	nstruction.		•							
✓ Vertical crac		Colu	umn rusted at the	base						
	l w/o vapor b	parrier ther	e is no visible w	all bow						
	ure: Main bea		ts: correct cross-							





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⊠ Be	eam is service	eable		P	oor wall c	onstruction	ı	Joists are	damaged		
Foundation Systems (Interior view)											
Foundation systems (Interior view) Foundation settling: was intact - no visible damage. Settling amt is estimated at < 1/4"											
Vert. supports: steel columns is/are in line with the load direction (favorable). &											
centered and locked on the main beam appear bedded in a foundation of concrete.											
Beam	type: The m	ain beam i	s a single	steel "I-	Beam."			ne foundation i			
Foundation Serviceability: serviceable.											
Joist Access: covered in areas preventing inspection. Joists: 2 x 10, 16" center, wood.											
Subfl.: tested solid when probed w/a metal scratch awl. Odor: smelled dry and clean. Cracked Joist(s)											
Sump: a single sump was found. When tested, the sump operated normally. Water was present in sump while tested. No back-up system was present. The sump assembly was loo											
and th	water was j ne check valv			ie testea	. No baci	k-up syster	n wa	is present. The	sump assemb	iy was ioose	
				concrete	and was	flat and we	-11 1a	id			
Basement floor: the floor was painted concrete and was flat and well laid. Bsmnt WALL: dry but exhibited past water stains. Leakage was not present at the time of inspection.											
	t FLOOR: d		orica past	water st	ams. Eca			this finding is o			
	nent flooding		vidence o	f past flo	ooding N			were found- lea			
	: There was r							th was observe			
Floor	asbest.: (no	floor sur	faces are	suspect)	Efflores	cence	e: (at the uphil	l side of the fo	undation)	
						Traces o	of eff	lorescence wer	e found on the	walls.	
									_		
	nent Ceiling										
	pen electrical				electrical	l 🔀 Inc	orrec	ct wire routing			
	emp electrica	l:	Missir	ng wall p	olates						
wiring	sect infestation	on	M Cailin	a: dryw	all half o	f basement					
	ultiple floor		⊠ Floor					ps- present			
	unipie moor	layers	7 1 1001	drains	V15101C	7 1 100)ı tıtı	ips present			
Craw	l: (n/a - The	re is no C	rawl)	Crav	vl floor: a	ccessible -	flat	dirt		1	
	arrier:service				wl height:			Evidence o	f flooding	Ī	
☐ Cr	awl space in	sulated		Crav	wl contain	s no sump		Incorrect el	ectrical		
\square M	old on crawl	space jois	ts	_ Evic	lence of w	rildlife					
.			NE 4		- TE			F.b. 1			
	Allowable S	ī		0.0		Allowable Span [* needs cross bracing]					
2x	12" OC <10'9"	16" OC <9'9"	24" (<8'6"		Truss	21'3"		16" OC <20'0"	24" OC <18'7"		
8	<14'2"	<12'10"			10" 12"	<24'5"		<23'0"	<21'3"		
10	<18'0"	<16'4"	<14'4		14"	<27'11		<25'9"	<23'2"		
12	<21'11"	<19'11"			16"	<30'4"		<27'9"	<24'10"		
12	\21 11	17 11	17 3		10	130 4		1217	·24 10		
000	lectrical Ser	viao				Drin	loor	o: no drip loop		1	
	loc.: overhea		equate gro	und clea	rance		_	ce required on			
	her seal: was							ruptible A/C pr			
	: were free an			<u> </u>				wire < 12' to 0		1	
	erty: did not			ssing th	is property			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	oor panel mo			_	d rod not v		Sp	liced (un-allow	ved)		
Bı	urned breake	r/fuse hold	ler	Missin	g clamps	@ top] Pa	nel screws inc	orrect		
	Missing/oper				sed Position			# Double-taps	0		
	l/Cu Co-join					eeded on A	Alu. 1	leads			
	Accessibility:										
	l load: 60 am					100A with				4	
	anel: all insp					• `	1	x AFCI: not pr		4	
	wire mat'l.:					,	_	x GFCI: not p	resent	4	
Main	breaker: is s	ized appro	priately fo	or the ma	un teed (s	ate).	2-3	3 Wire:			





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									m w/o ground
Rust: evidence of rust in the									
Wire/brkr match: all prope	erly m	atched	(favorable	e). V	Wire a	ttac	h: loos	e in areas	and tightened.
OK Voltage? A= 120	B= 1	20 V	oltage bala						t and serviceable.
Pipe ground: visually bonded to the water pipes. General wiring: needs repairs as noted.									
1 C									
Wire Gage/Capacity	Cu 1	4 Ga -	· 15A	Cu 1	2 Ga -	- 20	ΙA	Cu 1	0 Ga - 30A
Cu 8 Ga - 40A		Ga - :			Ga - '			Al 10) Ga - 20A
Al 8 Ga - 30A		Ga - 4			Ga - 5				Ga - 70A
			-						
10.0 Water Service / Plus	mbing	/ Sew	er						
Water pipes: copper pipe				supply	. copr	er	(favora	ble)	
Main valves: both valves					. Сорг	Γ		iple wate	er meters
Meter bond: unbonded; cr						G		•	d.: serviceable.
Waste pipes: cast iron pip		_	er cleanout	damac	red				r present
Public water supply			recommer				tic field		i present
Whole house filter			sensor pres					fs presei	nt
Possible lead solder			ondition) for					s support	
Possible lead solder		pipe co	onamon) i	Juna	<u> </u>	vai	er pipe:	support	eu
Gas/Heating:		Μп	ublic natu	ral cac				Coo ni	pe supported
Gas/Heating: Gas line black pipe			Gas leak(s)		a a mara d				ped, open line
			as meter of		serveu				
Copper tubing gas line	;		as meter of	uisiae				_ Meter	sensor present
used									
10.2 Water Heater(s)	1991/	/02	Т	uno: T	ho wo	tor	hootor v	voc o cto	nd-alone design.
10.3 Water Heater(s)				-					nu-aione design.
# Water htrs: (a single uni									5.20
Cover: This heater did not									5-20 years.
Case: intact and considere							40 galle	ons	Stuck valve
Vent pipe: adrift to the wa			Loo			chi		. 1 1	
Spill tube not 6-24" to		<u> </u>	Gaps in v					ater leak	•
Dielectric isolators mis			Gas leak:		alve			andoned	
Water heater has poor	access	3 _	Unstable	perch			Plumb	ed: corre	ectly plumbed.
				0	11.0				
11.0 Main Heating Syste								rviceable	
Heat type: Forced Air Hea									
Htr was checked and four						/1S1t	ole flam	e disrup	tion
Cycle: (when viewed over	1 cycl	le)	'	ent pip					
									res repair
CO test: this test was cond									
Exterior.: no significant findings and appears serviceable. Case.: intact and considered serviceable.									
Gas: appeared and checked serviceable. Blower: The blower for the system operated normally.									
Suppl heater: There were no supplemental heating systems. No Flue liner (req'd 1992 +)									
Thermostat: standard therr					uring	the			
Htr Poor condition	#	<u>Units</u>	in this ho	me: 1		LL		iple zone	
Air filter: Clean		⊠ Bur	ners need	cleanin	g		Roon	ns w/o he	eat
Humidifier Missing			num contac		ace			ed vent g	
Poor flame pattern		Inle	e t <10' to f	irebox			Repla	ace duct	tape w/ H/C tape
□ Ducts are dirty		Wo	odstove in	correct	<36"	or :	18" w/s	teel +1"	air gap
Possible asbestos: (no	fire ba	arriers	are suspec	t)		ļĒ	Pipe	is a trip l	nazard
Possible asbestos: (no						ļ	Heat	ing syste	em wet
Possible asbestos: (no	wrapp	oing m	aterials are	suspe	ct)		Air le	eaks need	d taping/sealant
12. Air Conditioning: (1	unit)			X A	n air co	ond	litioner	was pres	ent on the home.
This system was untested of		low te	emperature						





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The service disconnect was verified functional. The A/C disconnect was a Pull-type disconnect.											
Vegetation crowds the condenser and needs clearing □ Case: Poor exterior cond. □ Base is level □ Subpanel loose □ Noisy (bearing risk) □ Exposed wiring											
Base is level	L S	ubpa	anel loose		Voisy	/ (bea	ring risk)	Exposed wiring			
							I				
13.2 Main Floor Inter											
Walls: drywall - cond											
Wall framing: wood fra							signs of water	r damage.			
Window type: double p				ng op	erat	ion -					
good but some window						-	2 1				
	Hardw. requires repair or replacement in select areas. Damage: found on at least one window.										
General: generally in g								ppeared flat and secure.			
Stairway: wide and sec	cure c	loors	s not open ii	ito sta	ırs	Kaili	ngs: handrails	were present and secure			
T (* El E (Δı	T 1	1		N C 1.1.			
Interior Floor Feature		1.1				wood		Serviceable			
	Servic				1000	pado	ling	Marble tile			
Linoleum	Servic	eabi	e	N (erai	nic ti	le				
12 Intonion Wall Food						Dain	t: Good	M Conding: Cood			
13. Interior Wall Feat Possible structural		so fr	am rama dali				pops	Sanding: Good Poor workmanship			
		_	moke stains	ing	H		ge holes	Water damage			
☐ Wall paper peeling☐ Walls are off-plumb		_	eparating join	inta.	H		se taping	Loose wall trim			
wans are on-plum) _	50	eparating joi	ints		LOO	se taping	Loose wan unn			
Interior Cailing Factu	14001					Sage	ring area	Rough finish			
Interior Ceiling Featu Water stains	ires:	Wat	/water dripp	ina	H		ging area hazard	Peeling paint –			
water stains		wei	water uripp	ing	╽┕	ган	nazaru				
Closs finish do al	kitchen.										
Gloss finish – de-glossing req'd to paint Smoke stained Excessive stucco											
U Gloss Illisii – uc-gi	lossing	g rec	'd to paint			Smo	ke stained	Excessive stucco			
						Smo					
General Water Fixtu	res an	d Fa	nucets:	eaking		Smo	ke stained Flow: adequ				
General Water Fixtur Condition: operationa	res an	d Fa	nucets:				Flow: adequ	nate.			
General Water Fixtur Condition: operationa Shut-offs? Inspected f	res an l and o	d Fa	nucets: not exhibit lo	alves in	nstal	led.	Flow: adequ	nate.			
General Water Fixtur Condition: operationa	res an l and o	d Fa	nucets: not exhibit lo	alves in	nstal	led.	Flow: adequ	nate.			
General Water Fixtun Condition: operationa Shut-offs? Inspected f Stains: These areas sho	res and and a ixtures	d Fa	nucets: not exhibit led d shut-off va water leaks	alves in	nstal ere d	led.	Flow: adequ	d reversed ripping/running – BR			
General Water Fixtur Condition: operationa Shut-offs? Inspected f	res and and a ixtures	d Fa	nucets: not exhibit led d shut-off va water leaks	alves in	nstal ere d	led.	Flow: adequ	d reversed ripping/running – BR			
General Water Fixtur Condition: operationa Shut-offs? Inspected f Stains: These areas sho Operate poorly and	res and and a ixtures	d Fa	nucets: not exhibit led d shut-off va water leaks	alves in	ere d	led. lry.	Flow: adequ	d reversed ripping/running – BR			
General Water Fixtur Condition: operationa Shut-offs? Inspected f Stains: These areas sho Operate poorly and Fireplace:	res an l and d ixture owed p	d Fa	nucets: not exhibit led shut-off vawater leaks	alves in and we	er ve	led. lry. ent is	Flow: adequ Hot-Cole Water dr toilet. inside of cabir	d reversed ripping/running – BR net e was inspected.			
General Water Fixtur Condition: operationa Shut-offs? Inspected f Stains: These areas sho Operate poorly and Fireplace: Damper Fireplace Dam	res an l and d ixture pwed p	d Fadid res had past	nucets: not exhibit led shut-off vawater leaks ervice	alves in and we alvest	er ve	led. lry. ent is	Flow: adequ Hot-Cole Water dr toilet. inside of cabir	d reversed ripping/running – BR net e was inspected.			
General Water Fixtur Condition: operationa Shut-offs? Inspected f Stains: These areas sho Operate poorly and Fireplace: Damper Fireplace Dam Doors Creosote build	res an l and d ixture pwed p	d Fadid res had past re se	nucets: not exhibit led shut-off variater leaks ervice serviceable udged to be	and we and we and we are also and we are also and we are also and a second a second and a second a second and	er ve	led. lry. ent is	Flow: adequence Hot-Cole Water dr toilet. inside of cabir single fireplaceers were in ser	d reversed ripping/running – BR net e was inspected. rviceable condition.			
General Water Fixtur Condition: operationa Shut-offs? Inspected f Stains: These areas sho Operate poorly and Fireplace: Damper Fireplace Dam Doors Creosote build Missing doors	res an l and dixtures pwed prequi	d Fadid response	nucets: not exhibit led shut-off vawater leaks ervice	and we light (n/a)	er ve	led. lry. ent is	Flow: adequence Hot-Cole Water dr toilet. inside of cabir single fireplaceers were in ser	d reversed ripping/running – BR net e was inspected.			
General Water Fixtur Condition: operationa Shut-offs? Inspected f Stains: These areas sho Operate poorly and Fireplace: Damper Fireplace Dam Doors Creosote build	res an l and dixtures pwed prequi	d Fadid response	nucets: not exhibit led shut-off variater leaks ervice serviceable udged to be Attachment:	and we light (n/a)	er ve	led. lry. ent is	Flow: adequence Hot-Cole Water dr toilet. inside of cabir single fireplaceers were in ser	d reversed ripping/running – BR net e was inspected. rviceable condition.			
General Water Fixtur Condition: operationa Shut-offs? Inspected f Stains: These areas sho Operate poorly and Fireplace: Damper Fireplace Dam Doors Creosote built Missing doors Masonry: Loose bri	res an l and dixtures pwed prequi	d Fadid response	nucets: not exhibit led shut-off variater leaks ervice serviceable udged to be Attachment: Missing gas	Heat Fire (n/a) logs	er ve Qt eplac (safe	led. lry. ent is y: a s ce lin	Flow: adequ Hot-Cole Water dr toilet. inside of cabir single fireplace ers were in ser Gas valve	d reversed ripping/running – BR net e was inspected. rviceable condition. 4' (valve not found)			
General Water Fixtur Condition: operationa Shut-offs? Inspected f Stains: These areas sho Operate poorly and Fireplace: Damper Fireplace Dam Doors Creosote built Missing doors Masonry: Loose bri Interior Doors:	res and dixture pwed property with the property of the propert	d Fadid response	nucets: not exhibit led shut-off variater leaks ervice serviceable udged to be Attachment: Missing gas Door hardy	Heat Fire light (n/a) logs	er ve	led. In the second seco	Flow: adequed Hot-Cold Water drivilet. inside of cabir single fireplace ers were in ser	d reversed ripping/running – BR net e was inspected. rviceable condition.			
General Water Fixtur Condition: operationa Shut-offs? Inspected f Stains: These areas sho Operate poorly and Fireplace: Damper Fireplace Dam Doors Creosote built Missing doors Masonry: Loose bri Interior Doors: Interior Doors warp	res and dixture pwed property with the property of the propert	d Fadid response	aucets: not exhibit led shut-off variater leaks ervice serviceable udged to be Attachment: Missing gas Door hardy Damage	Heat Fire light (n/a) logs w: gened bi-f	Ottorial Control of the Control of t	lled. lry. ent is y: a s ce lin y tigh	Flow: adequ Hot-Cole Water dr toilet. inside of cabir single fireplace ers were in ser Gas valve < at and in good Po	d reversed ripping/running – BR net e was inspected. rviceable condition. 4' (valve not found) serviceable condition. oor surface finish			
General Water Fixtur Condition: operationa Shut-offs? Inspected f Stains: These areas sho Operate poorly and Fireplace: Damper Fireplace Dam Doors Creosote built Missing doors Masonry: Loose bri Interior Doors:	res and dixture pwed property with the property of the propert	d Fadid response	nucets: not exhibit led shut-off variater leaks ervice serviceable udged to be Attachment: Missing gas Door hardy	Heat Fire light (n/a) logs w: gened bi-f	Ottorial Control of the Control of t	lled. lry. ent is y: a s ce lin y tigh	Flow: adequ Hot-Cole Water dr toilet. inside of cabir single fireplace ers were in ser Gas valve < at and in good Po	d reversed ripping/running – BR net e was inspected. rviceable condition. 4' (valve not found) serviceable condition.			
General Water Fixtur Condition: operationa Shut-offs? Inspected f Stains: These areas sho Operate poorly and Fireplace: Damper Fireplace Dam Doors Creosote built Missing doors Masonry: Loose bri Interior Doors: Interior Doors warp	res and dixture pwed property with the property of the propert	d Fadid response	aucets: not exhibit led shut-off variater leaks ervice serviceable udged to be Attachment: Missing gas Door hardv Damage Condition:	Heat Heat Heat I He	er ve Qt Qt (safe	led. lry. sent is y: a s ce lin yy tigh door ceable	Flow: adequ Hot-Cole Water dr toilet. inside of cabir single fireplace ers were in ser Gas valve < at and in good Pole Fr	d reversed ripping/running – BR net e was inspected. rviceable condition. 4' (valve not found) serviceable condition. oor surface finish rame off-square			
General Water Fixtur Condition: operationa Shut-offs? Inspected f Stains: These areas sho Operate poorly and Fireplace: Damper Fireplace Dam Doors Creosote build Missing doors Masonry: Loose bri Interior Doors: Interior Doors warp Doors won't latch Kitchen:	res and land of ixtures owed propers volume	d Fadid r s had bast rre see	aucets: not exhibit led shut-off variater leaks ervice serviceable udged to be Attachment: Missing gas Door hardv Damage Condition:	light (n/a) logs Alarm	Qt Qt epplacerall Cold ones: d	led. lry. lry. a see lin y tight	Flow: adequ Hot-Cole Water dr toilet. inside of cabir single fireplace ers were in ser Gas valve < at and in good Pole Fr ve smoke detect	d reversed ripping/running – BR net e was inspected. rviceable condition. 4' (valve not found) serviceable condition. oor surface finish rame off-square ctors installed.			
General Water Fixtur Condition: operationa Shut-offs? Inspected f Stains: These areas sho Operate poorly and Fireplace: Damper Fireplace Dampors Creosote built Missing doors Masonry: Loose bri Interior Doors: Interior Doors warp Doors won't latch	res an l and d ixtures owed p l requi	d Fadid r r s had bast rre se	serviceable udged to be Attachment: Missing gas Door hardy Condition: Smoke tach: secure	. Fire light (n/a) logs w: gened bi-f were: Alarm	Qt Q	led. lry. lry. a sy: a s	Flow: adequ Hot-Cole Water dr toilet. inside of cabir single fireplace ers were in ser Gas valve < t and in good t and in good Fr ve smoke detect e storage capacitations.	d reversed ripping/running – BR net e was inspected. rviceable condition. 4' (valve not found) serviceable condition. or surface finish rame off-square ctors installed. city and good access.			
General Water Fixtur Condition: operationa Shut-offs? Inspected f Stains: These areas sho Operate poorly and Fireplace: Damper Fireplace Dam Doors Creosote build Missing doors Masonry: Loose bri Interior Doors: Interior Doors warp Doors won't latch Kitchen: Kitchen:	res an l and of ixtures owed p requi	d Fadid r r s had bast re see	serviceable udged to be Attachment: Missing gas Door hardy Condition: Smoke tach: secure	Heat Heat Fire light (n/a) logs Were seed bi-fivere seed with	Otto Otto Otto Otto Otto Otto Otto Otto	led. lry. ent is y: a sec lin y tight door ceable id have	Flow: adequ Hot-Cole Water dr toilet. inside of cabir single fireplace ers were in ser Gas valve < t and in good t and in good t and in good e Fr ye smoke detect e storage capac good condition	d reversed ripping/running – BR net e was inspected. rviceable condition. 4' (valve not found) serviceable condition. or surface finish rame off-square ctors installed. city and good access.			
General Water Fixtur Condition: operationa Shut-offs? Inspected f Stains: These areas sho Operate poorly and Fireplace: Damper Fireplace Dampors Creosote build Missing doors Masonry: Loose bri Interior Doors: Interior Doors warp Doors won't latch Kitchen: Kitchen Cabinet cond: Counter Mat'l: a Form	res an l and of ixtures owed p requi	d Fadid r r s had bast re see	serviceable udged to be Attachment: Missing gas Door hardy Condition: Smoke tach: secure	Heat Heat Fire light (n/a) logs Were seed bi-fivere seed with	Ottorial and	led. lry. ent is y: a sec lin y tight door ceable id have	Flow: adequ Hot-Cole Water dr toilet. inside of cabir single fireplace ers were in ser Gas valve < t and in good t and in good t and in good e Fr ye smoke detect e storage capac good condition	d reversed ripping/running – BR net e was inspected. rviceable condition. 4' (valve not found) serviceable condition. or surface finish rame off-square ctors installed. city and good access. n with minor defects.			
General Water Fixtur Condition: operationa Shut-offs? Inspected f Stains: These areas sho Operate poorly and Fireplace: Damper Fireplace Dam Doors Creosote build Missing doors Masonry: Loose bri Interior Doors: Interior Doors warp Doors won't latch Kitchen: Kitchen Cabinet cond: Counter Mat'l: a Form Floor: ceramic tile surf	res an l and of ixtures owed p requi requi requi good good nica-ty ace	d Fadid r s had past re see	serviceable udged to be Attachment: Missing gas Door hardy Condition: Smoke tach: secure naterial secupod condition:	Heat Heat Fire light (n/a) logs W: gened bi-f were: Alarm with urely a on flat	Qt epplace (safe	led. lry. ent is ent is y: a s ce lin y tigh door ceabl id have quat ned § level	Flow: adequence Hot-Cole Water dr toilet. Inside of cabir Single fireplace Gas valve Hot Hot	d reversed ripping/running – BR net e was inspected. rviceable condition. 4' (valve not found) serviceable condition. or surface finish rame off-square ctors installed. city and good access. n with minor defects.			
General Water Fixtur Condition: operationa Shut-offs? Inspected f Stains: These areas sho Operate poorly and Fireplace: Damper Fireplace Dam Doors Creosote build Missing doors Masonry: Loose bri Interior Doors: Interior Doors warp Doors won't latch Kitchen: Kitchen Cabinet cond: Counter Mat'l: a Form Floor: ceramic tile surf Range:	res an l and of ixtures owed p requi requi requi good good nica-ty ace	d Fadid r s had past re see	serviceable Door hardy Condition: Smoke tach: secure naterial secure serviceable Smoke tach: secure naterial secure naterial secure serviceable	Heat Heat Fire light (n/a) logs W: gened bi-f were: Alarm with urely a on flat	Qt epplace (safe	led. lry. ent is ent is y: a s ce lin y tigh door ceabl id have quat ned § level ren: s elece	Flow: adequence Hot-Cole Water dr toilet. Inside of cabir Single fireplace Gas valve Hot Hot	d reversed ripping/running – BR net e was inspected. rviceable condition. 4' (valve not found) serviceable condition. oor surface finish rame off-square ctors installed. city and good access. a with minor defects. d to be serviceable.			





Helping You Manage Your Real Estate Risk

Refrigerator:		A garbage	A garbage compactor was not present.							
serviceable and did not cont										
Dishwasher: The dishwashe	er wa	s not inspected.								
Clothes dryer:				Laundry washing machine:						
electric; it was inspected and			inspected and serviceable.							
☑ Distance to cabinets: 18'	○	: hinges are lo	00	se	Water	damage at sink				
Bathroom #1: Main floor	Bed	room	Outlets			☐ Mold	(mold)			
			not GFCI							
☐ Tub w/tile surround		Shower Stall					Stopper inop			
Free-Standing Tub		Ieater					(unfavorable)			
☐ Chipped/cracked		Steam bath	Bad trap	: [Гub	Vent fa	an needed			
☐ Slow drain: n/a		☐ No shuto				☐ Valve	stem leaks: n/a			
Loose shower head (repa	air)	Water run	s: Toilet			Loose	towel bar			
☐ Floor: Ceramic tile on l	backe	er board with gr	out			Heavy	rot			
Peeling paint: wall		☐ Gaps in c	aulk need rep	ai	r	Warpe	d door			
					•					
Bathroom #2: First floor	Hall		Outlets			Mold	(mold)			
			not GFCI				`			
☐ Tub w/tile surround		Shower Stall				⊠ Sink	☐ Stopper inop			
Free-Standing Tub		Ieater	Possible	Possible drywall under tile (unfavorable)						
☐ Chipped/cracked		Steam bath	Bad trap	: r	n/a	✓ Vent fa	an serviceable			
Slow drain: n/a		☐ No shuto								
Loose shower head (repa	air)	Water drip				=	towel bar			
☐ Floor: Ceramic tile on 1										
Peeling paint: wall			aulk need rep	ai	r	Warpe				
		<u> </u>								
7.0 Attic & Structure		Acces	s: Attic access	s v	was thro	ough a gara	age ceiling hatch.			
Limits: All major attic areas	were			Attic access was through a garage ceiling hatch. attic access limitations were present.						
Vents: Vents were imprope										
Mold: No visible surfaces of										
Fire damage: No fire damag							n was not present.			
Electrical: no electrical feat						Blow 2.5	FG Bat 3.2			
Attic floor: 2 x 4 wood truss		Spacing: 24 incl			_	Wool 2.2	Celulose 3.5			
Joists Off-plumb	<u> </u>	spacing. 2 i mei	Contend		=-	rlite 2.7	Cotton 3.5			
Roof deck: 2 x 4 wood joist	c with	1 v 6" gan boa	rds	H	=-		PolyIso C 6			
Gen. Cond.: generally sound				H		Foil 7	Spray PU 5.9			
Asb. Risk: (no suspect m					m 2.7	~R-val: 20-26				
Insulation Base: treated cot			er: added roll/	ha			14-var. 20-20			
Distribution: uniformly distribution				Ja	iii moci	51433.				
Soffit visual: observed to be				ر 1	v with	inculation				
Light @ soffit: no light was			ariou caccasiv	U 1	y with	mouration.				
Load floor no load floor			ecte: hait tran	c i	for mic	e were fou	nd			
Rafter boards are not pre							deck (favorable)			
Verification at leaving site:		Z IIISui	No moutation	al	pricu t	o the root	deck (lavorable)			
Verification at leaving site.		freezer on (if f	11) M Ela	201	trical o	n				

<end of inspection checklist>