QUALITY ASSURANCE PROGRAM
INSPECTION CHECKLIST

BUILDING DIVISION
COMMUNITY DEVELOPMENT DEPARTMENT
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2017 OREGON RESIDENTIAL SPECIALTY CODE
NEW SINGLE-FAMILY HOMES

This checklist is applicable for new detached single-family homes built under the Oregon Residential Specialty Code (ORSC). This checklist includes the requirements that are generally applicable to most projects. As this checklist is not all inclusive, please refer to the adopted code for all applicable requirements.

This checklist is intended to:

- Promote consistency in the application of the building code and standard practices.
- Provide customers a tool to prepare for required inspections.
- Provide guidance for inspectors to verify code requirements are achieved in an efficient manner.

Responsibility of the Permit Applicant

The permit holder is responsible for the following:

- Have the address posted on site (**R105.3, R110.3.3, AMC 18.08.010**)
- Provide safe access to perform all inspections (**R109.1, AMC 18.08.010**)
- Ensure all work remains exposed and open for inspection until approved. **(R109.1, AMC 18.08.080)**
- All works shall be completed prior to the requested inspection (**R109.1, R109.3, AMC 18.08.010**)
- Request all inspections online through www.cityofalbany.net/inspections **(R109.3, AMC 18.08.020)** Each discipline inspection shall be requested separately and on the appropriate permit.
- All approved plans, documents, and revisions to plans must be maintained on site and available for review at all times the building is under construction (**R106.3.1, R106.5, AMC 18.06.060**)
- All work shall be installed in accordance with the approved plans. Any changes from the approved plans shall be resubmitted for review and approved prior to proceeding **(R106.4, AMC18.06.040)**
- If ladders or equipment are necessary to perform inspections, all ladders and equipment shall meet minimum OSHA standards. Inspectors are not responsible for setting up or moving ladders from one location to another, within or to other buildings or structures (**R109.1, AMC 18.08.030**)

Required Inspections

The following are the required inspections for a typical new single-family home. **(R109)** Additional inspection could be required based on the individual design **(R109.1.5)**:

Structural:

- Foundation
- Underfloor framing or slab on grade
- Framing
  - Exterior Shear, if not completed as part of the framing inspection
- Insulation
- Drywall
- Structural Final

Mechanical:

- Under floor/slab mechanical, if applicable
- Mechanical rough
  - Garage plenum, if not done with the mechanical rough inspection
- Mechanical Final

Required Inspections Continued:

Plumbing:

- Underground services
- Under floor/slab plumbing
- Plumbing Top out
- Plumbing Final

Electrical:

- Electrical Service
- Electrical underground, when applicable
- Rough Electrical
- Electrical Final

If only a portion of the work for an inspection is complete and needs to be inspected for cover, request the appropriate inspection and in the request comments, request a partial inspection and staff will inspect only that element.

Inspection Results

Inspection results are provided via email to the applicant on record and can be also reviewed at http://www.cityofalbany.net/permits by searching the permit number.

The following are the common inspection results and the required actions needed:

Approved- The *inspection passed and is approved to cover the scope of the inspection and proceed to the next phase.*

Conditionally Approved- *This result is an approval, with corrections that are required. In this result, read the notes as there may be specific instructions to proceed, and we will verify at a future inspection. When this result is used, you do not need to request a reinspection.*

Partial Approval- *This result is for when only a portion of the project is ready for the requested inspection and was inspected. In this case only the portion noted in the inspection is approved and can be covered. The remaining portion will need to be inspected when ready and approved prior to cover.*

Corrections Required- *This result is a disapproval and will be accompanied with a list of elements that need to be corrected prior to requesting the next inspection. Unless otherwise stated in the inspection result, all work must stay exposed until the reinspection is completed and approved.*

Not Ready- *The scope of the inspection is not ready at the time of inspection. For example, a foundation inspection is requested but the installers are still installing the steel and/or installing forms.*

No Access- *This result is used when access to the property or building is not granted or no one is home.*

Cancelled- *Generally this result is when the inspection is cancelled by the applicant's request or administratively in our office.*

Information- *This result is used rarely for information about a future inspection, such as AAV are being used at the kitchen island and staff want to make a separate note about it for the final. The use of this result is purely for information and does not constitute a completed inspection or approval.*

It is important to review all emailed inspection results for corrections required and/or approvals prior to proceeding. Any result other than approved or conditionally approved will require the work to remain open and a new inspection requested as discussed above. Work covered prior to approval will be required to be exposed to conduct required inspections, as specified in **AMC 18.08.100**.

Structural Inspections

(References are to the 2017 Oregon Residential Specialty Code unless otherwise noted.)

Structural- Foundation Inspection (ORSC R109.1.1)

- ☐ All property corner pins located and exposed. Strings are in place on all sides of the property **(AMC 18.08.010)**
- ☐ Underlying ground suitable to support loads (fill compacted, free of debris, etc.) **(R403.1)**
- ☐ Geotechnical report has been submitted for review and a copy onsite to verify compliance with its recommendations **(R401.4)**
- ☐ Forms installed and depth & width to plans **(R106.4, R403.1.1, R403.1.2, R403.1.3)**
- ☐ Verify the location of interior footings or isolated pads **(R106.4, R403.1.3.4)**
- ☐ Reinforcing placed and secured per approved plans for footings and walls **(R404.1.3.2, R403.1.3.5.2)**
- ☐ Hold down anchors installed as per approved plans and manufacturers installation instructions **(R106.4)**
- ☐ Grounding electrode installed and secured per code **(R403.1.8)**
- ☐ Verify size and length of anchor bolts on site (**R403.1.6, R403.1.6.1)**
- ☐ Foundation venting is installed as required (**R408.1, R408.2)**
- ☐ Low point drain or sleave for future installation is installed to provide drainage of the crawlspace **(R408.6)**

Structural- Underfloor Framing Inspection (R109.1.1.1)

- ☐ **The mechanical, electrical, and plumbing underfloor inspections are approved prior or are requested the same day as the structural inspection (R109.1.1.1)**
- ☐ Engineered wood flooring layout or joist layout on site (**R106.1.2)**
- ☐ Floor joists and beams: verify sizes, spacing and clearances per approved plans **(R106.4, R317.1)**
- ☐ Floor joists/girder: connections and bearing; check for over notching and boring (**R502.6, R502.8, Fig 502.8)**
- ☐ Posts: verify locations, connections and clearances (**R502.6, R502.9, Fig R502.9)**
- ☐ Load Path: verify blocking under point loads, holdowns … etc **(R301.2.2.2.5, R401.2, R502.2.1)**
- ☐ Sill plate is in place with sill sealer and bolted, 3" washers where required. **(R317.1, R403.1.6.1, R602.11.1)**
- ☐ Locate the underfloor access: verify size **(R408.4)**
- ☐ Crawl space areas graded to drain & low point drain installed **(R408.6, R405.1)**
- ☐ Moisture barrier in place **(R408.1, R506.2.3, N1104.9.2)**
- ☐ Where required by the geotechnical report or design: Perimeter foundation drain in place **(R405.1)**

Structural- Framing Inspection (R109.1.4)

General

- ☐ **The mechanical, electrical, and plumbing rough inspections are approved prior or are requested the same day as the structural inspection (R109.1.4)**
- ☐ The building is to be enclosed with roof and windows installed. (**R109.1.4)**
- ☐ Engineered truss shop drawings and details have been submitted (3) days prior to the inspection for review and a copy is onsite for inspection **(R802.10.1, R106.4)**
- ☐ Engineered wood flooring layout or joist layout. **(R502.1.2 thru R502.1.7)**

Load Path

- ☐ Verify point loads: truss girder, columns, beams, posts, etc. **(R106.4, R301.1, R802.10.1)**
- ☐ Verify the supports of point loads and connections **(R106.4, ORSC R301.1, R802.10.1)**

Floor and Roof framing systems

- ☐ Verify sizes and spacing per approved plans **(R106.4, R502, R802)**
- ☐ Verify supports and connections (truss clips, hangers, bracing, and nailing per approved plans or engineering) (**R502.9, R802.10, R802.11)**
- ☐ Check for over notching and boring (**R502.8, R802.7)**
- ☐ Verify fire blocking/draft stop **(R302.11, R302.12)**
- ☐ Floor system is fire protected as required in **R302.13**, unless exempted. ***(Often exempted)***
- ☐ Decks are installed as per approved plans and the requirements of **R507.**

Shear walls (May be a separate inspection to allow for siding to commence)

- ☐ Verify nailing, spacing, straps, ties per approved plans and engineering **(R106.4, R602.10)**
- ☐ Verify braced wall panels are blocked as required in **R602.10.8**
- ☐ Verify holdowns' sizes, size of structural member attached to holdowns, and connections to the framing systems per Manufactures installation instructions and engineering **(R106.4, R106.1.2)**

Wall Construction

- ☐ Locate bearing walls: check support system (**R106.4, R602.10, R602.10.8)**
- ☐ Verify studs' sizes and spacing **(R106.4, R602.3)**
- ☐ Verify headers' sizes and support system **(R106.4, R602.7, R602.7.5)**
- ☐ Verify top plate splices are offset 24" **(R602.3.2)**
- ☐ Check for over notching and boring **(R602.6)**
- ☐ Verify fire blocking/draft stop **(R302.11, R302.12)**
- ☐ Verify the framing size at windows **(R106.4, R310.2)**

Windows & doors

- ☐ Egress Windows: check sizes and sill height **(ORSC R310)**
- ☐ Verify openable window area as required in R303.1 **(R303.1, R303.4, R303.5)**
- ☐ Identify if windows will require fall protection systems **(R312.2)**
- ☐ Verify required egress door size, location and termination. **(R311.1)**
- ☐ Safety glazing **(R308.4)**

Miscellaneous

- ☐ Stairs: Verify head room, landing, width, rises and runs **(R311.7)**
- ☐ Verify minimum ceiling heights **(R305)**
- ☐ Verify minimum room areas and dimensions **(R304)**
- ☐ Verify minimum bathroom fixture clearances **(Figure R307.1)**
- ☐ Attic Access **(R807.1)**
- ☐ Smoke alarm and carbon monoxide alarm locations **(R314 and R315)**
- ☐ Interior and exterior stairway illumination **(R303.6, R303.7)**

Structural- Insulation Inspection (R109.1.5.2)

- ☐ Material meets the required R-value **(R106.4, Table N1101.1(1), N1101.1.(2))**
- ☐ Vapor barrier installed where required **(N1104.9, R408)**
- ☐ Vent baffles installed to code **(N1104.2.5)**
- ☐ Air barriers are installed, where required in **N1104.2.6.**
- ☐ Fire Smoke Barrier behind the tubs, shower enclosure and other concealed spaces **(R302.11, R302.12)**
- ☐ Air sealing is installed between condition and unconditioned spaces and penetration thereof. **(N1104.8)**

Structural- Drywall Inspection (R109.1.5)

- ☐ Interior brace panel: verify fasteners' size and spacing **(R106.4, R602.10.5)**
- ☐ 5/8" type X sheetrock on lid of garage with living space above and ½" at wall separations **(Table R302.6)**
- ☐ Fire rated wall, Exterior fire-rated wall, where applicable **(R106.4, Table R302.1, R302.2, R302.3)**
- ☐ Under stairs sheathing for storage space **(R302.7)**

Structural- Final Inspection

- ☐ **The mechanical, electrical, and plumbing final inspections are approved prior or are requested the same day as the structural inspection (R109.1.6)**
- ☐ Installation instructions for equipment and appliances shall be available on site and remain attached to equipment **(R106.1.2, M1307.1, G2407.1)**
- ☐ Stairs: Verify head room, landing, width, rises and runs **(R311.7)**
- ☐ Verify minimum ceiling heights **(R305)**
- ☐ Verify minimum room areas and dimensions **(R304)**
- ☐ Working smoke detectors and carbon monoxide alarms (All covers removed) **(R314 and R315)**
- ☐ Egress window operation **(R310)**
- ☐ Window fall protection devices are installed, where required **(R312.2)**
- ☐ Safety glazing **(R308.4)**
- ☐ Verify required egress door size, location and termination. **(R311.1)**
- ☐ Handrails are installed and comply with the height and return requirements **(R311.7.8)**
- ☐ Confirm guardrails are installed at stairs, decks, and where required **(R312.1.1)**
- ☐ Fire door between the dwelling and the garage **(R302.5)**
- ☐ Verify shower areas have a non-absorbent surface not less than 6' above the floor **(R307.2)**
- ☐ Verify required heat source(s) is provided **(R303.9)**
- ☐ Check attic & crawl accesses **(R408.4, R807)**
- ☐ Verify crawl space moisture barrier **(R408, N1104.9.2)**
- ☐ Crawlspace is free of debris and organic material **(R408.5)**
- ☐ Attic & underfloor insulation **(Tables N1101.1(1) and N1101.1 (2))**
- ☐ Bathroom fixture clearances are maintained **(R307.1)**
- ☐ Plumbing fixtures meet energy code requirements **(N1108)**
- ☐ Verify water heater is seismically anchored **(M1307.2)**
- ☐ Verify wall and roof flashings are installed **(R703.4, R903.2)**
- ☐ Solar Ready provisions installed **(N1107.4)**
- ☐ Verify garage and carport floor is a non-combustible surface and sloped to the doorway **(R309.1)**
- ☐ Verify garage door openers, if equipped, comply with UL 325 **(R309.4)**
- ☐ Driveways poured min 20' from the street facing property line **(ADC 12.100 (1))**
- ☐ Driveway width is a min 10' and does not exceed 24' **(R106.4, ADC 12.100 (2))**
- ☐ Porches, decks, guardrails and handrails in place **(R311 and R312)**
- ☐ Weather strip on all exterior doors **(N1104.8.2)**
- ☐ Address numbers as required and installed. Flag lots shall have the address posted at the street. **(R319)**
- ☐ Grade sloped away from building **(R401.3)**
- ☐ Landscape and retaining walls per approved plans **(R106.4, R404.4, AMC 18.04.040)**
- ☐ Landscaping trees and ground cover per planning requirements **(R106.4, ADC 9.140 (1))**

Mechanical Inspections

(References are to the 2017 Oregon Residential Specialty Code unless otherwise noted.)

Mechanical- Underfloor Inspection

- ☐ Appliances located under floor:
  - Verify access and clearances of the manufacturer, **M1305.1.4, and G2409.4**
  - Verify electrical requirements are provided for outlet, switch, and luminaire **(M1305.1.4.3)**
- ☐ HVAC Ducting:
  - Verify 1" min clearance to duct work to vapor barrier. **(M1601.4.8)**
  - Verify duct insulation **(M1601.3, N1101.1)**
  - Verify joints are sealed with an approved listed tape or mastic **(M1601.4)**
  - Verify duct support **(M1601.4.40)**
  - Underground plenums are isolated by a Class 1 vapor barrier **(R506.2.3, N1104.9.20)**
- ☐ Dryer Ducts:
  - Verify dryer ducts are independent **(M1502.2)**
  - Verify dryer duct termination and proximity to openings and intakes **(M1502.3)**
  - Verify duct is 4" nominal 28-gauge metal **(M1502.4.1)**
  - Verify maximum length of dryer ducts **(M1502.4.5)**
  - Verify duct is supported at 4' intervals and joints are in the direction of flow **(M1502.4.2)**
  - Verify ducts are sealed and screws have not been used **(M1502.4.2)**
- ☐ Gas Piping:
  - Verify proper size of gas piping **(G2414.3)**
  - Verify approved pipe material and methods are used **(G2415.1, G2416.1, G2417.1)**
  - Verify proper support for gas piping **(G2419)**
  - Verify piping is not installed in a prohibited location **(G2416.3)**
  - Verify piping entering occupiable spaces are rodent proofed **(G2504.7)**
- ☐ Verify drilling and notching are within code requirements **(M1308.1)**
- ☐ Verify protection of piping located in concealed spaces **(M1308.2)**
- ☐ Verify piping is supported for the type of material. **(Table M1309.4)**
- ☐ Verify the 3/4" condensate line has 1/8" inch slope per foot to an approved disposal location **(M1411.3)**

Mechanical- Rough Inspection

- ☐ HVAC Ducting:
  - Verify duct insulation **(M1601.3, N1101.1)**
  - Verify joints are sealed with an approved listed tape or mastic **(M1601.4)**
  - Verify duct support **(M1601.4.40)**
  - Underground plenums are isolated by a Class 1 vapor barrier **(R506.2.3, N1104.9.20)**
- ☐ Dryer Ducts:
  - Verify dryer ducts are independent **(M1502.2)**
  - Verify dryer duct termination and proximity to openings and intakes **(M1502.3)**
  - Verify duct is 4" nominal 28-gauge metal **(M1502.4.1)**
  - Verify maximum length of dryer ducts **(M1502.4.5)**
  - Verify duct is supported at 4' intervals and joints are in the direction of flow **(M1502.4.2)**
  - Verify ducts are sealed and screws have not been used **(M1502.4.2)**

- ☐ Gas Piping:
    - Verify proper size of gas piping **(G2414.3)**
    - Verify approved pipe material and methods are used **(G2415.1, G2416.1, G2417.1)**
    - CSST piping requires installation per installation instructions **(G2416.2)**
    - Verify proper support for gas piping **(G2419)**
    - Verify piping is not installed in a prohibited location **(G2416.3)**
    - Verify piping entering occupiable spaces are rodent proofed **(G2504.7)**
    - Witness pressure test (10 lbs. for 15 minutes) **(G2418.4.1)**
- ☐ Bathroom Exhaust:
    - Verify proper size of bath fans **(Table M1507.4)**
    - Verify bathroom duct sizing and max length **(Table M1506.2)**
    - Verify sone rating of fans **(M1507.4.1)**
    - Verify bath fans vent to outside in an approved location **(ORSC M1507.2, M1506.3)**
    - Verify automated controls for bath fans in rooms with a bathtub, shower, or tub **(M1507.5)**
- ☐ Kitchen Exhaust:
    - Verify system is independent **(M1503.1)**
    - Verify duct sizing and max length **(Table M1506.2)**
    - Verify duct material is galvanized or stainless steel or copper **(M1503.2)**
    - Verify duct terminates to the outdoors with a back-draft damper **(M1503.1, M1506.3)**
    - Where required, verify makeup air system and location **(M1503.5)**
- ☐ Appliance Vents:
    - Verify insulation shield/gap to maintain 1 inch clearance to B-Vents **(G2427.4)**
    - Verify clearances to gas/wood fireplace vents and terminations per manual or specs **(G2407.1)**
    - Verify B-Vent termination through roof **(G2428.6.5)**
- ☐ Verify access and clearances of the manufacturer, **M1305.1, and G2409.4**
- ☐ Verify combustion air requirements for gas fueled appliances **(G2408.1)**
- ☐ Gas appliance not allowed in bedrooms, bathrooms and/or closets. **(G2407.2)** *(see exceptions)*
- ☐ Verify drilling and notching are within code requirements **(M1308.1)**
- ☐ Verify protection of piping located in concealed spaces **(M1308.2)**
- ☐ Verify piping is supported for the type of material. **(Table M1309.4)**
- ☐ Verify the 3/4" condensate line has 1/8" inch slope per foot to an approved disposal location **(M1411.3)**

<u>Mechanical- Final Inspection</u>

- ☐ Appliance installation instructions shall be on site at time of inspection. **(G2409.1)**
- ☐ Verify appliances are installed per their installation instructions (M1307.1)
- ☐ Verify protection of all appliances in the garage or subject to vehicle impact **(G2409.3, M1307.3)**
- ☐ Verify appliance ignition sources to be 18" above floor or an approved arrestor **(M1307.3, G2409.2)**
- ☐ Verify 26-gauge duct though the garage separation wall **(R302.5.2)**
- ☐ Verify seismic bracing at water heater **(M1307.2)**
- ☐ Verify clearances to combustibles **(M1306.1)**
- ☐ Dryer Ducts:
    - Verify dryer duct termination and proximity to openings and intakes **(M1502.3)**
    - Verify transition duct will be 8' or less and transition ducts are not concealed **(M1502.4.3)**
    - Verify the duct length is labeled when the developed length exceeds 35' **(M1502.4.6)**

- If the dryer is not installed at final, the duct shall be capped and marked for "future use" **(M1502.4.7)**

- ☐ Gas Piping:
  - Verify proper size of gas piping **(G2414.3)**
  - Verify approved pipe material and methods are used **(G2415.1, G2416.1, G2417.1)**
  - Verify drip leg and sediment traps are installed, per **Figure G2420.4**
  - Verify shut off valves are installed **(G2421.1)**
  - Verify flex connector length **(G2423.1.2)**
  - Verify piping entering occupiable spaces are rodent proofed **(G2504.7)**
- ☐ Bathroom Exhaust:
  - Verify proper size of bath fans **(Table M1507.4)**
  - Verify sone rating of fans **(M1507.4.1)**
  - Verify bath fans vent to outside in an approved location **(ORSC M1507.2, M1506.3)**
  - Verify automated controls for bath fans in rooms with a bathtub, shower, or tub **(M1507.5)**
- ☐ Kitchen Exhaust:
  - Verify duct terminates to the outdoors with a back-draft damper **(M1503.1, M1506.3)**
  - Where required, verify makeup air system and location **(M1503.5)**
- ☐ Verify combustion air is provided. **(G2408)**
- ☐ Verify Heat Pumps/Air Conditioners on approved base and level **(M1305.1.4.1)**
- ☐ Verify electrical requirements have been met. (Outlet located within 25' of unit, light and receptacle located adjacent to unit in attic or underfloor) **(M1305.1.3.1 OR M1305.1.4.3)**
- ☐ Verify appliance access and working clearances **(M1305.1)**
- ☐ Verify hard pipe or sleeve though shroud of gas fireplace and shut off valve **(G2423.1.2.3, G2423.1.2.4)**
- ☐ Verify condensate disposal **(M1411.3)**

Plumbing Inspections

(References are to the 2021 Oregon Plumbing Specialty Code unless otherwise noted.)

General Inspection Requirements

- ☐ No plumbing system or component may be covered prior to inspection **(105.2.1, AMC 18.08.080)**
- ☐ Materials used must be listed and approved for the specific application **(301)**
- ☐ All fixtures and drainage piping must be connected to an approved point of disposal **(304.1)**
- ☐ Valves, pipes, and fittings must be installed in correct relation to flow **(310.7)**
- ☐ Proper support required for DWV and water piping **(313.3)**
- ☐ All pipes passing through walls or floors must be protected from breakage and voids around pipes must be sealed. No plumbing piping shall be directly embedded in concrete **(312.1, 312.2, 312.10)**

Plumbing- Underground Service Inspection

- ☐ Tracer wire required for water and drainage plastic pipes, **(14 AWG) (604.10.1, 718.4, 1101.6.2(7))**
- ☐ Water Service:
  - Proper water line materials and sizing **(604.1, 610, Tables 604.1, 610.3, 610.4)**
  - Water pipe required depth of 12" below frost depth **(609.1)**
  - Pressure reducing valve required where static water pressure exceeds 80 psi **(608.2)**
  - Water line valve requirements **(606)**
  - Water supply test **(609.4)**
  - Required backflow prevention assembly not installed or not accessible **(602.3)**
- ☐ Sanitary and Storm Sewer
  - Grade for drainage piping as per code **(718.1)**
  - Proper materials and sizing of drainage pipe **(701.2, 702, 703, Table 701.2, 702.1, 703.2 717, 1101.4)**
  - Proper fittings for changes in direction of drainage flow **(706)**
  - Required cleanouts as per code **(719)**
  - Drainage piping installed on a firm bed for entire length **(718.2)**
  - Clearance of drainage piping and water pipes on the same trench and at crossings **(609.2, 720.1)**
  - Building drainage (storm and sanitary) sewer tests **(712, 723)**
- ☐ Required footing drains as per code **(1101.6.2)**
- ☐ Required backwater valve not installed or not accessible **(1101.6.2(3))**

Plumbing- Underfloor/Underslab Inspection

- ☐ Potable Water:
  - Proper water line materials and sizing **(604.1, 610, Tables 604.1, 610.3, 610.4)**
  - Freeze protection for water lines **(312.6)**
  - Pressure reducing valve required where static water pressure exceeds 80 psi **(608.2)**
- ☐ Sanitary Drains:
  - Proper materials and sizing of drainage pipe **(701.2, 702, 703, Table 701.2, 702.1, 703.2)**
  - Grade for drainage piping as per code **(708)**
  - Proper fittings for changes in direction of drainage flow **(706)**
  - Required cleanouts as per code **(707)**
- ☐ Vents:
  - Vent requirements **(901.2)**
  - Size of vents **(904.1, Table 703.2)**
  - Horizontal wet vent **(908.2)**
  - Trap arm length **(1002.2)**

- ☐ Sewage pump and ejectors **(710)**
- ☐ DWV piping test for under slab elements **(712)**
- ☐ Storm drainage pump and ejector **(1101.6.2)**
- ☐ Required backwater valve not installed or not accessible **(1101.6.2(3))**

Plumbing- Top Out Inspection

- ☐ Potable Walter:
  - Proper water line materials and sizing **(604.1, 610, Tables 604.1, 610.3, 610.4)**
  - Shutoff valve **(606)**
  - Water piping test **(609.4)**
  - Freeze protection for water and drainage lines **(312.6)**
  - Pressure reducing valve required where static water pressure exceeds 80 psi **(608.2)**
- ☐ Sanitary Drains:
  - Proper materials and sizing of drainage pipe **(701.2, 702, 703, Table 701.2, 702.1, 703.2)**
  - Grade for drainage piping as per code **(708)**
  - Proper fittings for changes in direction of drainage flow **(706)**
  - Required cleanouts as per code or plans **(707)**
- ☐ Vents:
  - Trap arm length **(1002.2)**
  - Vent requirements **(901.2)**
  - Size of vents **(904.1, Table 703.2)**
  - Vertical wet vent **(908.1)**
  - Horizontal wet vent **(908.2)**
- ☐ Support required for DWV and water piping **(313.3)**
- ☐ DWV piping test **(712)**
- ☐ Required spacing and clearance of fixtures **(402.5)** ***(Also see ORSC R307.1 and R305.1)***
- ☐ Weakening of structural members **(312.11)**
- ☐ Nail plates as required **(312.9)**

Plumbing- Shower Pan Inspection

- ☐ Shower pan minimum specifications **(408.6)**
- ☐ Shower slope and lining requirements **(408.7)**
- ☐ Shower pan test **(408.7.5)**

Plumbing- Final Inspection

- ☐ Water pressure, minimum and maximum **(608.1, 608.2)**
- ☐ Water line valve requirement **(606)**
- ☐ Rodent proofing **(312.12)**
- ☐ Joints between fixtures and wall or floor shall be watertight **(402.2)**
- ☐ Energy efficient shower and water closets **(408.2, 411.2) (Also see ORSC N1108.1)**
- ☐ Trap arm length and change of direction **(1002.2, 1002.3)**
- ☐ Dishwater drainage connection **(414.3)**
- ☐ Installation of air admittance valves (AAV) **(Statewide Alternate Method 07-01)**
- ☐ Maximum water temperature of 120 degrees F for showers and bathtubs **(408.3, 409.4)**
- ☐ Separate controls for hot and cold water **(417.5)**
- ☐ Water heater size requirement **(501.1)**
- ☐ Unions or approved similar installed on water heater as per code **(501.1, 609.5)**
- ☐ Clearance of connectors, metallic or plastic, from water heaters **(604.13)**

- ☐ Expansion tanks and Temperature & Pressure relief valve **(608.3, 505.4, 505.5, 505.6)**
- ☐ Water heater seismic provisions **(507.2)**
- ☐ Water heater drainage pan **(507.4)**
- ☐ Required elevation and protective barriers on water heater **(507.6, 507.6.1)**
- ☐ Sediment trap on water heater installation as per manufacturer's instructions **(501.1)**
- ☐ Water heater installation instructions must be readily available **(507.8)**
- ☐ Hose bibb installation and backflow device **(402.8)**
- ☐ Required backflow prevention assembly installation and testing report **(603.2 Table 603.2, 603.4)**

Electrical Inspections

(References are to the 2021 Oregon Electrical Specialty Code unless otherwise noted)

Underground Inspection

- ☐ Is material rated for installation and use in a damp or wet location? **(110.3, 110.11, 300.6, 300.9)**
- ☐ Does burial depth meet requirements of Table 300.5 or utility requirements if on utility side of meter?
- ☐ Raceways exposed to different temperatures or emerging from below grade must be sealed. **(300.5, 300.7)**
- ☐ Are conduit runs continuous and connected by approved means? **(110.3, 300.12, chap. 3 materials)**
- ☐ Backfill materials must not be capable of damaging cables or raceway being covered. **(300.5(F))**
- ☐ Are cables or raceways emerging from grade protected from physical damage? **(300.4, 300.10, 300.12)**

Service Inspection

- ☐ Panel and meter shall be the same size - 100amp, 125amp, 150amp, 200amp **(310.15)**
- ☐ Verify meter working height **(110.26)**
- ☐ All conductors of a circuit are installed in the same raceway. **(300.3)**
- ☐ Terminations meeting manufacturers specs. **(110.3, 110.14)**
- ☐ Service conductor size. Verify conductor is sized for the load **(310.15, 230.31, 230.42, 230.79)**
- ☐ Grounding electrode, grounding electrode conductor, and bonding jumper size and installation **(250.50 thru 250.70, 250.66 Tables)**
- ☐ Proper conductor size to the "concrete encased electrode" (#4 solid copper min) **(250.66 B)**
- ☐ Proper attachment to "concrete encased electrode" and accessible **(250.52 (3))**
- ☐ Ground rods, Physical protection required of grounding conductor **(250.52(5), 250.64B)**
- ☐ Bonding conductor size. Is bonding required? Water needed? **(250.66)**
- ☐ All applications of "Grounding" fulfilled? **(Article 250)**
- ☐ Riser pipe size or Overhead raceway properly sized and supported **(230.28)**
- ☐ Service Provider's requirements standards and OESC Clearance **(230.9, 230.24)**

Rough Electrical Inspection

- ☐ Verify the number of required circuits and 20-amp circuits. Range, Dryer, AC, Kitchen circuits, Laundry circuits, Bathroom circuit, porches/decks, proper number of bedroom circuits **(210.52 A-I, 250.52(e))**
- ☐ Wiring protected? 1-1/4" from face of framing **(300.4)**
- ☐ NM below 8' protected from damage by framing or sheathing?; NM entering panel and below 8' protected by 1/2" plywood or gypsum board. **(OESC 334.15)**
- ☐ NM secured/supported every 4-1/2 feet and within 12" of every box. **(300.11, 334.30)**
- ☐ NM uses permitted/not permitted. **(OESC 334.10, 334.12)**
- ☐ NM cable protected when within 6' of the attic access **(334.23)**
- ☐ Connector installed at box (besides plastic with stab in tabs for NM) for transition from raceway/cable. **(300.15, 300.16, 334.40)**
- ☐ Minimum 6" of conductor at each junction box. **(300.14)**
- ☐ Raceways or cable continuous between boxes. **(300.10, 300.12, 300.13)**
- ☐ Water heater circuit, Sump pump **(210.11)**
- ☐ Location of device boxes. Verify proper spacing of receptacles and switches. Is there 5 or more steps? Is a 3-way required for staircase? **(210.52 A1 & A2, 210.70 A2)**
- ☐ Are all of the required lighting devices or boxes installed? (**210.70 A-C**)
- ☐ All wiring made up? Switches and outlets to be stripped out and grounds made up **(250.148)**
- ☐ Solar Ready provisions of the **ORSC N1107.4** are installed.

Final inspection

- ☐ Check panel for identification **(408.4)**
- ☐ Check all GFCI's including hydro-massage tub (minimum ampacity of circuit and breaker met?) **(210.8A-8C)**
- ☐ Verify receptacles in wet or damp locations are WR rated. **(406.9(B))**
- ☐ Check all Arc Fault devices and verify correct sizing of breakers **(210.12A, 240.4)**
- ☐ Verify all smoke detectors are installed and working, battery tabs removed (**ORSC R314& 315**)
- ☐ All appliances installed and working. If not, are all wires or devices properly terminated? **(110.27)**
- ☐ All remaining boxes closed off properly **(314.20, 314.21, 110.27)**
- ☐ Spread of fire or products of combustion **(300.21)**
- ☐ Tamper Resistant receptacles required. **406.12**
- ☐ Connect receptacle grounding terminal to box or circuit equipment grounding conductor. **(250.146, 406.10, 406.11)**
- ☐ All exterior devices in and working properly, weatherproof outlets, AC disconnects, lights **(110.11, 210.8, 300.6, 404.4, 406.9)**
- ☐ Verify extension rings are installed on devices in cabinets **(300.21)**