



Building Permit Application

City of Portland, Oregon - Portland Permitting & Development

1900 SW 4th Avenue, Portland, Oregon 97201 • 503-823-7300 • TTY 503-823-6868 • www.portland.gov/ppd

Required Fields Highlighted

Type of work (REQUIRED)

- ☒ New construction ☐ Addition ☐ Alteration
☐ Demolition ☐ Other:

Category of construction (REQUIRED)

- ☒ Residential: 1 & 2 Family Dwellings ☐ Commercial: Apartments/Condos ☐ Commercial: Other
☐ Residential: Other ☐ Commercial: Business/Industrial

Job site information and location

Job Address: 1416 SE 53rd Ave

City/State/ZIP: Portland, OR 97215

Suite/bldg./apt. no.: Project name: New Driveway

Tax map/parcel no. R#

Provide Land Use or associated Permit Number (if applicable)

Description of work (REQUIRED)

This is a new driveway to accommodate the need to charge an el

☐ Property owner or ☐ Tenant (REQUIRED)

Name: Martha Brooke Phone: 503 453 7419

Address: 1416 SE 53rd Ave

City/State/ZIP: Portland OR 97215

Email: marthab@interactionMetrics.com

Owner installation: This installation is being made on property that I own.

trust_976c8b1d-c195-40dd-
Owner signature: ae7f-170521f573dd Digitally signed by trust_976c8b1d-
c195-40dd-ae7f-170521f573dd
Date: 2024.08.30 11:07:05 -07'00'

Date: 8-30-2024

☐ Contractor

Business name: TBD Phone: 503 453 7419

Address: Still Reviewing Contractors

City/State/ZIP:

Email:

CCB lic. no.

Authorized signature:

Print name: Date:

☐ Applicant or ☐ Contact Person (REQUIRED)

Business name: SAME AS OWNER INFO

Contact name:

Address:

City/State/ZIP:

Phone:

Email:

Authorized signature:

Print name: Date:

Office Use Only

24-086531-000-00-RS

Required Data: One and Two Family Dwelling

Permit fees are based on the value of the work performed. Indicate the value (rounded to the nearest dollar) of all equipment, materials, labor, overhead, and the profit for the work indicated on this application.

Valuation (REQUIRED):	\$30 000
Number of bedrooms:	
Number of bathrooms:	
Total number of floors:	
New dwelling area:	square feet
Garage/carport area:	200 square feet
Covered porch area:	square feet
Deck area:	square feet
Other structure area:	square feet

Required Data: Commercial Use

Permit fees* are based on the value of the work performed. Indicate the value (rounded to the nearest dollar) of all equipment, materials, labor, overhead, and the profit for the work indicated on this application.

Valuation (REQUIRED):	
Existing building area:	square feet
New building area:	square feet
Number of stories:	
Type of construction:	
Occupancy groups	
Existing:	
New:	

Notice

Work related to this Building Permit may be subject to regulations governing the removal, handling, and/or disposal of asbestos and/or lead-based paint. For asbestos concerns, contact DEQ at 1-888-997-7888 For lead-base paint concerns, contact Oregon Health Authority at 971-673-0440.

All contractors and subcontractors are required to be licensed with the Oregon Construction Contractors Board under ORS 701 and may be required to be licensed in the jurisdiction in which work is being performed.

This permit application expires if a permit is not obtained within 180 days after it has been accepted as complete.

Disclaimer: By signing this application, the permit applicant acknowledges and agrees that they have obtained any required permission for the proposed work from the property owner. Refer to the policy of this jurisdiction if it discovers that a dispute regarding the proposed work exists between the applicant and the property owner or any other party with a legal interest in the property.



Request an inspection call: 503-823-7000 for automated inspection request line. TTY: 503-823-6868

Residential Inspection Record Card

DO NOT POUR ANY CONCRETE UNTIL THE NEEDED INSPECTIONS BELOW HAVE BEEN SIGNED

Building	IVR#	App by	Date	Inspector's Notes	App By	Date	Plbg/Elec/Mech/Spec	IVR#
Tree Preservation	507						Grounding Electrode	227
Erosion Control	200						Radon Mitigation	238
Setbacks	215						Waterproofing	245
Footings	220						Reinforcing/Masonry	250
Foundation Wall	225						Underslab Plumbing	305
Reinforcing/Concrete	230						Oil Tank Pad	670
Concrete Slab	235						Electrical Temp. Service	115
BES Storm Eval	487							

For Demolition Permits - below inspections must be signed before Demo Permit can be Finaled

Demolition	288						Decomm. Septic Sys.	842
Sewer Cap	360						Other	295

POST & BEAM - Do not install sub floor until the needed inspections have been Approved and Signed

Post & Beam Struct.	240						Post & Beam Plbg.	300
Other	295						Post & Beam Mec.	600

Rough Inspections must be inspected and approved prior to Framing Inspection requested

Interim EC	205						Perm. Electrical Service	120
Shearwall	260						Rough Electrical	105
Firewall	265						Rough Plumbing	310
Fire Sprinklers	320						Shower Pan	315
Framing	270			<input type="checkbox"/> M.C.			Gas Line	605
Fireplace	255						Green Tag	615
Roofing	285						Rough Mech.	620

Insulation - Do not cover until Insulation is Approved and Signed

Insulation	280							
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Ground Utilities

Sanitary Sewer	350						Storm Sewer	355
Water Service	345						Rain Drains	365
Backflow Device	335						Other	295

Final Inspections - Have all other Final Inspections approved and signed prior to requesting 999

Permanent EC	210						Mechanical Final	699
Electrical Final	199						Grading Final	990
Structural Final	299			<input type="checkbox"/> H.E.L			Final Permit	999
Plumbing Final	399							

☐ Okay to Occupy ☐ Do Not Occupy until the needed inspections above have been approved and signed



POST IN CLEAR VIEW AND IN ACCESSIBLE LOCATION

Request an inspection call: 503-823-7000 for automated inspection request line. TTY: 503-823-6868

IVR #:

Address:

Notes:

Development Services Approval:

For a **Stormwater Treatment Facility** inspection call 503-823-7761 or use IVR # 487.

Contact Us:

1900 SW 4th Avenue
Portland, OR 97201

Phone: 503-823-7300
TTY: 503-823-6868

www.portland.gov/ppd

Residential Inspections: 503-823-7388

Urban Forestry: 503-823-8733

Permitting Services: 503-823-7357

Planning and Zoning: 503-823-7526

Mechanical, Electrical, Plumbing
Sign Permits: 503-823-7363

Permit Status via voicemail: 503-823-7000 (4)

Work related to this Building Permit may be subject to regulations governing the removal, handling, and/or disposal of asbestos and/or lead-based paint. For Asbestos concerns: Contact DEQ: **1-888-997-7888**; Lead-base paint concerns: Contact Oregon Health Authority: **971-673-0440**.

BEFORE YOU DIG

ATTENTION: Oregon law requires you to follow rules adopted by the Oregon Utility Notification Center. Those rules are set forth in OAR 952-001-0010 through OAR 952-001-0090. Call 1-800-332-2344 for locates.

Homeowner:

This is your Record of Permits and Inspections and should be kept with your permanent records.

This permit will expire if 180 days pass without an approved inspection. A permit can be extended one time only. Call for questions 503-823-7388.

If Special Inspections (i.e. adhesive anchors, soils, concrete construction) are required, a Special Inspection Final Summary Report must be submitted and approved prior to requesting a Final Permit Inspection #999.

To help ensure equal access to City programs, services and activities, the City of Portland will provide translation, reasonably modify policies/procedures and provide auxiliary aids/services/alternative formats to persons with disabilities. For accommodations, translations, complaints, and information, call 503-823-7300, TTY 503-823-6868, use Oregon Relay Service: 711, come to 1900 SW 4th Ave, 5th Floor, Portland, OR 97201, or email ppd@portlandoregon.gov.

Subcontractor Permit Information Process

A Message to the Home Owner and General Contractor about Trade Work Associated with this Project:

As of February 1, 2016 if residential building permit applicants do not have completed/signed trade permit applications (mechanical, electrical, plumbing) for sub-contractors when submitting their building permit application, the trade work will not be included under that permit number and is not eligible to be added to the permit at a later date. The required trade permits must be applied for separately when sub-contractors are hired.

If this is the case for your project BDS recommends you use the space below to record the trade permit number(s) obtained in association with the project. You may also show this card to the BDS inspector who comes to inspect these trade permits and request they note on this record inspection results.

Permit Number	Issued Date	Approved by (Inspector name & date)	Notes

This record of permits and inspection should be kept with your permanent records.

Instructions about the following are available at www.portlandoregon.gov/bds/67391

1. How to request an inspection using the (IVR) system.

2. Accessing and viewing daily on-line Residential Inspection Route slips.

Inspection Request (IVR) Pocket Reference

Dial: 503-823-7000 TTY: 503-823-6868 Press:
1 Schedule an Inspection
2 Cancel or Reschedule an Inspection
(1 & 2 Don't hang up without a confirmation number)
3 Obtain Inspection Results
4 Obtain Plan Review Status via FAX
5 Obtain Fax Back Documents
6 Obtain a List of Scheduled Inspections by IVR Number
0 Speak with Inspection Section regarding your inspection or to obtain your IVR number
* Listen to General Information
Hang Up

If tree preservation is required on your approved plans, approval of inspection #507 is required before requesting further inspections.

Inspection #200 must be in place prior to any ground disturbance activities, and must be requested first when requesting inspection for setbacks, footings and foundation inspections.

Inspection #210 must be approved before permit final approval.

Building	
507	Tree Preservation
200	Pre-Construction Erosion Control
205	Interim Erosion Control
210	Permanent Erosion Control Measures
215	Setbacks
220	Footings
225	Foundation
226	Foundation Drain
227	Grounding Electrode (RS only)
230	Concrete/Reinforcing
235	Slab/Flatwork
238	Radon Mitigation
240	Underfloor/Post & Beam
245	Waterproofing (RS Only)
250	Masonry/Reinforcing
255	Masonry Fireplace
260	Shearwalls (use 270 for CO permits)
261	Reinspection Shearwall (RS Only)
265	Firewall Nailing (use 275 for CO permits)
270	Framing
271	Reinspection Framing (CO & MG Only)
275	Wallboard Attachment
277	Ceiling Grid
280	Insulation/Vapor Barrier
285	Roofing
288	Demolition
290	Temporary Occupancy
295	Other/Consultation
299	Final - Structural (RS Only)
487	BES On-Site Stormwater Facility Eval
510	Tree Preservation/Env Zone
990	Final - Grading (RS Only)
992	Final - Subsurface (RS Only)
999	Final Permits (CO, RS - to final job)

Development Review	
507	Tree Preservation
200	Pre-Construction Erosion Control
210	Permanent EC Measures
487	BES ON-Site Stormwater Facility Eval
555	Code Compliance Inspection
842	Decommission System (Pumped & Filled)
999	Final Permit

Electrical	
105	Rough-in - Electrical
107	Cover Electric In-Floor Heat
110	Underground-Electrical

Electrical, continued	
111	Electrical Service Reconnect
115	Temporary Electrical Service
120	Permanent Electrical Service
125	Low Voltage/Alarm
135	Hot Tub/Spa/Swimming Pool
140	Industrial Plant
145	Circuits/Feeders
150	Generator/Transfer Switch
155	Other/Consultation - Electrical
199	Final - Electrical

Mechanical	
600	Underfloor/Post & Beam, Mechanical
605	New Gas Piping/Pressure Test
610	Extend Gas Piping/Pressure Test
615	Gas Line Tag
617	Hydronic Piping (Closed/Open Loop)
620	Rough-in Mechanical
625	Wood Stove/Pellet Stove/Decorative Appl
630	AC/Furnace/Heat Pump/HVAC
635	Kitchen Exhaust/Commercial Hood
640	Oil Tank
645	Vent/Chimney Liner
650	Other/Consultation- Mechanical
670	Oil Tank Pad
699	Final - Mechanical

Plumbing (RS and PT Permits only)	
300	Post and Beam - Plumbing
305	Underslab/Ground Work - Plumbing
310	Rough-In/Top Out Plumbing
312	Hydronic Piping (Open Loop Only)
315	Shower Pan/Bathtub Test
320	Fire Sprinklers
325	Fixture Cap
330	Drain Reversal
335	Backflow Device (Water Supply)
337	Backwater Valve (Drainage)
340	Water Heater
345	Water Service
350	Sanitary Sewer
355	Storm Sewer
360	Sewer Cap
365	Rain Drains
370	Catch Basin
375	Manhole
380	Detention Facility
390	Dry Well
392	Sewer Connection
395	Soakage Trench
396	Medical Gas/Vacuum System
397	Other/Consultation-Plbg
399	Final - Plumbing

Sanitation Permits

On-Site Sewage Disposal Permit	
800	Initial Advanced Treatment Technology
802	Secondary Adv. Treatment Technology
804	Final Advanced Treatment Technology
806	Alternative System
808	Initial Capping Fill
810	Secondary Capping Fill
812	Final Capping Fill
814	Drainfield
816	Gray Water Sump
818	Initial Holding Tank
820	Secondary Holding Tank
822	Final Holding Tank
824	Pressure Distribution
826	Pumping System
828	Redundant System
830	Initial Sand Filter
832	Secondary Sand Filter
834	Final Sand Filter
836	Septic Tank
838	Steep Slope System/Disposal
840	Tile Dewatering
842	Decommission System (Pumped & Filled)
999	Final Permit

On-Site Sewage Evaluation/Services	
842	Decommission System (Pumped & Filled)
844	Sep. Sys. Pumped/Drain Lines Staked
846	Septic System Staked
848	Test Pits Dug and Flagged

Sewer Permits (UC)	
350	Sanitary Sewer
842	Decommission System (pumped & filled)
399	Final Plumbing

Site Development Permits	
507	Tree Preservation
200	Pre-Construction Erosion Control
205	Interim Erosion Control Inspection
210	Permanent Erosion Control Inspections
487	BES On-Site Stormwater Facility Eval
500	Site Development Inspection
510	Tree Preservation/Env Zone
512	Clearing Limits
514	Landscape Mitigation/Env. Zone Planting
516	Pedestrian Pathway/Trail
518	Retaining Wall Footing
520	Retaining Wall Forms/Reinforcing
522	Site Grading
524	Stormwater Culvert/Riprap
526	Trench Backfill Compaction
530	Private Street Curb Setback
532	Private Street Subgrade
534	Private Street Base Rock
536	Private Street Base Lift
538	Private Street Top Lift
540	Private Street Sidewalk/ADA Ramps
542	Private Street Signage
544	Street Light Base
546	Street Light Pole
550	Private Street Final Inspection
990	Final - Grading
999	Final Permit

Manufactured Homes	
120	Permanent Electrical Service
200	Pre-Construction Erosion Control
210	Permanent Erosion Control measures
227	Grounding Electrode
337	Backwater Valve (Drainage)
487	BES On-Site Stormwater Facility Eval
605	New Gas Piping/Pressure Test
625	Wood Stove/Pellet Stove/Decorative Appl
630	AC/Furnace/Heat Pump/HVAC
700	Footing Form/Okay to Pour
706	Foundation Blocking
708	Tie Downs
710	Sewer Connection Outside
714	Water Service
716	Electrical Feeder
722	Heating Duct
728	Enclose/Install Perimeter Foundation
730	Perimeter Foundation
740	Rain Drain System
742	Stormwater Disposal
756	Garage/Carport Final
299	Final - Building
199	Final - Electrical
699	Final - Mechanical
399	Final - Plumbing
999	Final Permit

Zoning (ZP Permits)	
487	BES On-Site Stormwater Facility Eval
555	Final - Code Compliance Inspection

Sign Permits	
400	Sign Footings
405	Electrical Service - Sign
410	Sign Structure
999	Final Permit

Miscellaneous	
440	Adult Care License



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2023 OREGON RESIDENTIAL SPECIALTY CODE GENERAL NOTES AND SUPPLEMENTAL INFORMATION FOR RESIDENTIAL ALTERATIONS AND ADDITIONS

Date: October 11, 2024

Permit number: 24-086531-000-00-RS

Project Address: 1416 SE 53RD AVE

The following "General Notes and Supplemental Information" are now **part of your approved plans**.

- It is the **responsibility of the builder to comply** with these requirements during construction.
- Where there is a conflict between a general note and the plans, **the more restrictive shall apply**.

FRAMING

- R302.11 FIREBLOCKING.** In combustible construction fireblocking shall be provided to cut off all concealed draft openings (both horizontal and vertical) and to form an effective fire barrier between stories, and between a top story and the roof space. Fireblocking shall be provided in wood-framed construction in the following locations:
- Concealed spaces of wall studs and partitions, including furred spaces and parallel rows of studs or staggered studs vertically at the ceiling and floor levels and horizontally at intervals not to exceed 10'.
 - All interconnections of vertical and horizontal spaces (i.e., soffits, drop ceilings, cove ceilings).
 - Concealed spaces between stair stringers at the top and bottom of the run.
 - Openings around vents, pipes, ducts, cables, and wires at ceiling and floor level with an approved material to resist free passage of flame and products of combustion.
- R302.11.1 FIREBLOCKING MATERIAL.** Fireblocking shall consist of one of the following (except at openings around vents, pipes, ducts, cables, and wires at ceiling and floor level):
- One layer of 2" nominal lumber
 - Two thicknesses of 1" nominal lumber with broken lap joints
 - One thickness of 23/32" wood structural panels with joints backed by 23/32" wood structural panels
 - One thickness of 3/4" particleboard with joints backed by 3/4" particleboard
 - One layer of 1/2" gypsum board
 - One layer of 1/4" cement-based millboard
 - Batts or blankets of mineral wool or glass fiber or other approved materials installed in such a manner as to be securely retained in place.
 - Cellulose insulation installed as tested in accordance with ASTM E119 or UL 263, for the specific application.
- R302.12 DRAFTSTOPPING.** Draftstopping shall be installed in concealed floor-ceiling construction parallel to the framing members so that the area does not exceed 1,000 square feet
- R317.3 FASTENERS AND CONNECTORS IN CONTACT WITH TREATED WOOD.** Fasteners and connectors in contact with treated wood shall comply with one of the following:
- **Preservative-treated wood:** Fasteners shall be hot dipped zinc-coated galvanized steel, stainless steel, silicone bronze or copper. Connectors shall be in accordance with the connector's manufacturer's specifications (ASTM A653 type G185 zinc-coated galvanized steel or equivalent shall be used in the absence of manufacturer's specifications (minimum)).
 - **Fire-retardant-treated wood used in exterior applications or wet or damp locations:** Fasteners shall be hot dipped zinc-coated galvanized steel, stainless steel, silicone bronze or copper. Fasteners other than nails and timber rivets shall be permitted to be of mechanically deposited zinc-coated steel with coating weights in accordance with ASTM B 695, Class 55 minimum.
 - **Fire-retardant-treated wood used in interior applications:** Fasteners shall be in accordance with the manufacturer's recommendations or per ORSC Section R317.3.3 in the absence of manufacturer's specifications.

R502.8.1	DRILLING AND NOTCHING OF SAWN LUMBER. Drilling and notching of sawn lumber joists, rafters and beams shall comply with the following requirements <ul style="list-style-type: none"> • Notches shall not exceed 1/6 of the depth of the member • Notches shall not be longer than 1/3 the depth of the member • Notches shall not be located in the middle 1/3 of the member's span • Notches at ends shall not exceed 1/4 of the member's depth • Tension side of members 4" or greater in nominal thickness shall not be notched except at the ends • Hole diameters shall not exceed 1/3 of the member's depth • Holes shall not be closer than 2" to the top or bottom of the member, or to any other hole or notch
R502.8.2	DRILLING AND NOTCHING OF ENGINEERED WOOD PRODUCTS. Cuts, notches and holes bored in trusses, structural composite lumber, structural glu-laminated members, cross-laminated timber members, or I-joists are prohibited except where permitted by the manufacturer's recommendations or where the effects of such alterations are specifically considered in the design of the member by a registered design professional.
R602.6.1	DRILLING AND NOTCHING OF TOP PLATES. When the top plate of an exterior wall or interior load-bearing wall requires cutting, drilling or notching by more than 50% of its width, a galvanized metal tie not less than 0.054" thick (16 gauge) and 1-1/2" wide shall be fastened across and to the top plate at each side of the opening with not less than (8) 10d nails having a minimum length of 1-1/2" at each side or equivalent. The metal tie must extend a minimum of 6" past the opening.
R807.1	ATTIC ACCESS OPENING. 22" x 30" minimum attic access is required to all attic areas > 30 square foot in area and with 30" or more clear height and shall be located in a hallway or other location with ready access.
<u>GARAGES</u>	
R302.5.1.1	DWELLING / GARAGE OPENING PROTECTION. Openings shall be equipped with solid wood doors not less than 1-3/8" in thickness, solid or honeycomb core steel doors not less than 1-3/8" thick or 20-minute fire rated doors.
R302.5.2	DUCT PENETRATION. Ducts in the garage and ducts penetrating the walls or ceiling separating the dwelling from the garage shall be constructed of a minimum 26 gauge sheet steel or other approved material and shall have no openings into the garage.
R302.5.3	OTHER PENETRATIONS. Penetrations through the dwelling / garage fire separation required by Section R302.6, shall be protected by filling openings with an approved material to resist free passage of flame and products of combustion (per R302.11 item 4).
R302.6	DWELLING / GARAGE FIRE SEPARATION. The garage shall be separated from the dwelling as follows: <ul style="list-style-type: none"> • From the residence and attics: Minimum 1/2" gypsum board or equivalent applied to the garage side. • From all habitable rooms above the garage: Not less than 5/8" type-X gypsum board or equivalent, attached per Table R702.3.5. • Walls and structural elements supporting floor-ceiling assemblies used for fire separation under this section: Minimum 1/2" gypsum board or equivalent applied to the garage side.
M1307.2	ANCHORAGE OF APPLIANCES. Water heaters shall be anchored and strapped to resist displacement caused by earthquake motion in accordance with the Plumbing Code.
M1307.3	ELEVATION OF IGNITION SOURCE. Appliances having an ignition source (generate a glow, spark or flame) shall be elevated such that the source of ignition is not less than 18" above the floor in garages.
M1307.3.1	PROTECTION FROM IMPACT. Appliances shall not be installed in a location subject to vehicle damage except where protected by approved barriers. Code approved barrier examples include: <ol style="list-style-type: none"> 1. Minimum 2" diameter schedule 40 iron pipe filled with concrete extending 36" minimum above the finished slab and embedded 12" minimum below the finished slab in a minimum 6" diameter concrete filled hole. 2. Minimum 6" high wheel barrier bolted to the slab per Figure M1307.3.1 3. Minimum 2" diameter schedule 40 iron pipe with a steel base plate secured to the slab with anchors defined within Figure M1307.3.1.
<u>DWELLING UNIT</u>	
R303.1 M1505.4	HABITABLE ROOM LIGHT AND VENTILATION. All habitable rooms shall have an aggregate glazing area of not less than 8 percent of the floor area of the room with a minimum natural ventilation operable area of 4 percent of the floor area of the room. Code defined exceptions allow provisions via artificial light and mechanical ventilation.

R303.3.1
M1505.2
M1505.5
M1504.2

VENTILATION OF ROOMS WITH BATHING OR SPA FACILITIES. Any room with a bathtub, shower or spa facility shall be provided with mechanical ventilation meeting all of the following criteria:

- Controlled by a de-humidistat, timer, or other approved means of automatic control; and
- Minimum 80 cfm intermittent or 20 cfm continuous exhaust rate; and
- Use of 4" diameter, smooth ducts are limited to 20' in length with 3 elbows maximum; and
- Exhaust directly to the outdoors (may not terminate in an attic or crawl space).

R303.3.2
M1505.2
M1505.5

VENTILATION OF ROOMS WITHOUT BATHING OR SPA FACILITIES. Water closet compartments or toilet rooms without bathtub, shower or spa facilities shall be provided with ventilation meeting one of the following:

- Aggregate glazing of not less than 3 square feet, one half of which must be operable; or
- Mechanical ventilation meeting all of the following:
 - Minimum 50 cfm exhaust rate
 - Exhaust directly to the outdoors (may not terminate in an attic or crawl space).

R303.4
M1505.4

MECHANICAL VENTILATION. When a new dwelling unit is added, the new dwelling unit shall be provided with continuously-operating, whole-house mechanical ventilation that is balanced, or with another approved means of ventilation.

M1503
M1505.5

VENTILATION OF KITCHEN RANGE HOODS. Domestic kitchen cooking appliances shall be equipped with a ducted range hood or down-draft exhaust system meeting all of the following criteria:

- Minimum 150 cfm intermittent exhaust rate (>400 cfm exhaust rate requires makeup air); and
- Single-wall ducting with a smooth interior surface; and
- Air-tight ducting equipped with a backdraft damper; and
- Exhaust directly to the outdoors (may not terminate in an attic or crawl space).

M1502

CLOTHES DRYER EXHAUST. Dryer exhaust systems shall be independent of all other systems and shall meet all of the following criteria:

- Convey the moisture to the outdoors
- Nominal 4" diameter, minimum 0.0157" thick (No. 28 gage) ducting, supported and secured at 4' intervals
- Duct length shall meet one of the following:
 - Maximum of 35' from dryer to exhaust with fitting reductions per Table M1502.4.5.1; or
 - As determined by the dryer manufacturer's installation instructions. The code official shall be provided with a copy of the installation instructions for the make and model of the dryer at the concealment inspection.
- Makeup air shall be provided for exhaust rates greater than 200 cfm. Where a closet is designed for the installation of a clothes dryer, an opening having an area not less than 100 square inches shall be provided in the closet enclosure.

R308.4

SAFETY GLAZING. Safety glazing shall be provided at hazardous locations such as:

- When the sill is less than 60" above the floor or walking surface and it meets either of the following:
 - Within 24" of either side of the door in the plane of the door in a closed position; or
 - Is on a wall less than 180 degrees from the plane of the door in a closed position and within 24" of the hinge side of an in-swinging door.
- When all of the following conditions are met:
 - Exposed area of an individual pane is larger than 9 square feet; and
 - The bottom edge is less than 18" above the floor; and
 - The top edge is more than 36" above the floor; and
 - One or more walking surfaces are within 36", measured horizontally and in a straight line, of the glazing.
- **Glazing and wet surfaces.** Glazing in walls, enclosures or fences containing or facing hot tubs, spas, whirlpools, saunas, steam rooms, bathtubs, showers and indoor or outdoor swimming pools where the bottom exposed edge of the glazing is less than 60" measured vertically above any standing or walking surface and within 60" measured horizontally and in a straight line from the water's edge shall be considered to be a hazardous location. This shall apply to single glazing and each pane in multiple glazing.
- **Glazing adjacent to stairs and ramps.** Glazing where the bottom exposed edge of the glazing is less than 36" above the plane of the adjacent walking surface and less than 36" measured horizontally from the walking surface of stairways, landings between flights of stairs and ramps shall be considered to be a hazardous location.
- **Glazing adjacent to the bottom stair landing.** Glazing adjacent to the landing at the bottom of a stairway where the glazing is less than 36" above the landing and within a 60" horizontal arc less than 180 degrees from the bottom tread nosing shall be considered to be a hazardous location unless the glazing is protected by a guard complying with Section R312 and the plane of the glass is more than 18" from the guard.

R310.1
R310.2
R310.7

EMERGENCY ESCAPE AND RESCUE OPENINGS (EERO's). Basements and every sleeping room shall have not less than one operable emergency escape and rescue opening meeting all of the following criteria:

- Net clear opening of 5.7 square feet (5 square feet for grade floor windows); and
- Minimum clear opening height of 24"; and
- Minimum clear opening width of 20"; and
- Maximum sill height of 44" measured from the finished floor to the bottom of the clear opening; and
- Opening leads directly to a public way, or to a min. 36" wide yard or unobstructed path that opens to a public way.

REPLACEMENT WINDOWS FOR EEROs. Replacement windows not part of a change of use or occupancy need not meet current Code's size requirements provided the replacement window is the manufacturer's largest size window that will fit within the existing frame or existing rough opening, and the replacement is of the same operating style as the existing or a style that provides for an equal or greater window opening area than the existing.

EEROs in ADDITIONS. A full-size EERO is required in each new sleeping room in a non-basement addition. In new basement additions, the EERO in that new sleeping room can also serve as the EERO for the new basement.

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R312.2
R310.2.1

WINDOW FALL PROTECTION. In dwelling units, where the bottom of the clear opening of an operable window opening is located less than 24" above the finished floor and the finished grade or flat surface not less than 36" in width below on the exterior of the building, the operable window shall comply with one of the following:

- Operable windows with openings that will not allow a 4" diameter sphere to pass through the opening where the opening is in its largest opened position.
- Operable windows are provided with window fall prevention devices that comply with ASTM F2090.
- Operable windows are provided with window opening control devices that comply with R312.2.2.
- Where an operable window serves as an emergency escape and rescue opening, a window opening control device, after operation to release the control device or fall prevention device allowing the window to fully open, shall not reduce the net clear opening of the window unit to less than the area required by Sections R310.2.1.

R311.3

FLOOR ELEVATIONS AT EXTERIOR DOORS. There shall be a landing or floor on each side of each exterior door. The width of each landing shall not be less than the door served and a minimum dimension of 36" in the direction of travel. Landings or floors at the required egress door shall not be more than 1-1/2" lower than the top of the threshold, except the exterior landing may be not more than 8" below the top of the threshold where the door does not swing over the landing or floor (except exterior storm or screen doors).

R314	<p>SMOKE ALARMS. Where alterations, repairs or additions requiring a permit occur, the individual dwelling unit shall be equipped with smoke alarms located as required for new dwellings. Smoke alarms shall comply with NFPA 72 and be listed in accordance with UL 217, and be installed as follows:</p> <p>Required locations. Within dwelling units, smoke alarms shall be installed:</p> <ul style="list-style-type: none"> • in each sleeping room; and • outside each separate sleeping area, within 21' of any door to a sleeping room measured along the path of travel; and • on each additional story of the dwelling, including basements and habitable attics; and • in the hallway and in the room open to the hallway in dwelling units where the ceiling height of a room open to a hallway serving sleeping rooms exceeds that of the hallway by 24" or more. <p>Interconnection. Where more than one smoke alarm is required to be installed within an individual dwelling unit in accordance with Section R314.3, the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual dwelling unit. Physical interconnection of smoke alarms shall not be required where listed wireless alarms are installed and all alarms sound upon activation of one alarm.</p> <p>Installation near cooking appliances. Smoke alarms shall <u>not</u> be installed in the following locations unless this would prevent placement of a smoke alarm in a location required by Section R314.3:</p> <ul style="list-style-type: none"> • Ionization smoke alarms shall not be installed less than 20' horizontally from a permanently installed cooking appliance. • Ionization smoke alarms with an alarm-silencing switch shall not be installed less than 10' horizontally from a permanently installed cooking appliance. • Photoelectric smoke alarms shall not be installed less than 6' horizontally from a permanently installed cooking appliance. • Smoke alarms listed and marked "helps reduce cooking nuisance alarms" shall not be installed less than 6' horizontally from a permanently installed cooking appliance. <p>Combination alarms. Combination smoke and carbon monoxide alarms shall be permitted to be used in lieu of smoke alarms. Combination smoke alarms shall be listed in accordance with UL 268 and UL 2075.</p> <p>Power source. Smoke alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and, where primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than those required for overcurrent protection.</p> <p>Exception: Smoke alarms shall be permitted to be battery operated where installed in buildings without commercial power.</p> <p>Fire alarm systems. Fire alarm systems shall be permitted to be used in lieu of smoke alarms and shall comply with Sections R314.7.1 through R314.7.4.</p>
R315	<p>CARBON MONOXIDE ALARMS. Where a new carbon monoxide source is introduced or work requiring a structural permit occurs in existing dwellings, carbon monoxide alarms shall be provided in accordance with this section. Carbon monoxide alarms shall be listed in accordance with UL 2034, and be installed as follows:</p> <p>Required locations. Within dwelling units, carbon monoxide alarms shall be located in each sleeping room or within 15' outside of each sleeping room door. Sleeping rooms on separate floor levels in a structure consisting of two or more stories shall have separate carbon monoxide alarms serving each story. Where a fuel-burning appliance is located within a sleeping room or its attached bathroom, a carbon monoxide alarm shall be installed within the sleeping room.</p> <p>Combination alarms. Combination carbon monoxide and smoke alarms shall be permitted to be used in lieu of carbon monoxide alarms. Combination carbon monoxide and smoke alarms shall be listed in accordance with UL 2034 and UL 217.</p> <p>Power source. Carbon monoxide alarms shall receive their primary power from the building wiring where such wiring is served from a commercial source and, where primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than those required for overcurrent protection.</p> <p>Exception: Carbon monoxide alarms shall be permitted to be battery operated where installed in buildings without commercial power.</p> <p>Carbon monoxide detection systems. Carbon monoxide detection systems shall be permitted to be used in lieu of carbon monoxide alarms and shall comply with Sections R315.7.1 through R315.7.4.</p>
2023 OPSC P408.6	<p>SHOWERS. The clear opening width at shower doors shall be at least 22". Showers shall have a minimum finished interior of 1,024 square inches and shall also be capable of encompassing a 30" diameter circle measured at the top of the threshold maintained to a height of 70" above the drain outlet.</p>
R703.1.1	<p>EXTERIOR WALL ENVELOPE. The exterior wall envelope shall be installed in a manner such that water entering the assembly can drain to the exterior. The envelope shall consist of an exterior veneer, a water-resistant barrier per R703.2, a minimum 1/8" space between the water-resistive barrier and the exterior</p>

<p>OESC 210.12(A) & 210.12(B)</p>	<p>veneer, and integrated flashings per R703.4. The 1/8" space is not required where the exterior wall covering is installed over a water-resistive barrier per R703.2 and complies with ASTM E2273, or the drawings include details of pan flashings that drain to the exterior surface of the wall covering in a through wall fashion. Self-adhering membrane flashing shall be covered by trim or other measures to protect from sunlight.</p> <p>ARC-FAULT CIRCUIT INTERRUPTER PROTECTION. Arc-Fault Circuit Interrupter circuits are required for all 120 Volt 15-20 amp circuits supplying outlets or devices in dwelling unit kitchens, family rooms, dining rooms, living rooms, parlors, libraries, sunrooms, recreation rooms, closets, hallways, alcoves, laundry areas, or similar rooms or areas.</p> <p>Exceptions:</p> <ul style="list-style-type: none"> • GFCI protected receptacles in dining rooms • Optional receptacles on dedicated circuits that supply equipment known to cause unwanted tripping • Branch circuits supplying receptacles or appliances in hallway, kitchens, laundry areas • Branch circuit extensions / modifications • Panel replacements
	<p style="text-align: center;"><u>STAIRS & GUARDRAILS</u></p>
<p>R303.7 R303.8 N1107.3</p>	<p>STAIRWAY ILLUMINATION. All interior and exterior stairways shall be provided with illumination as follows:</p> <p>Interior stairway illumination. Interior stairways shall be provided with an artificial light source to illuminate the landings and treads. The light source shall be capable of illuminating treads and landings to levels of not less than 1 foot-candle as measured at the center of treads and landings. There shall be a wall switch at each floor level to control the light source where the stairway has six or more risers. A switch is not required where remote, central or automatic control of lighting is provided.</p> <p>Exterior stairway illumination. Exterior stairways shall be provided with an artificial light source located at the top landing of the stairway. Exterior stairways providing access to a basement from the outdoor grade level shall be provided with an artificial light source located at the bottom landing of the stairway. All exterior lighting fixtures affixed to the exterior of the building shall be high-efficiency light sources.</p>
<p>R302.7</p>	<p>UNDER-STAIR PROTECTION. Enclosed space under stairs that is accessible by a door or access panel shall have walls, under-stair surface and any soffits protected on the enclosed side with 1/2" gypsum board.</p>
<p>R311.7</p>	<p>STAIRWAYS. Stairs must comply with the following dimensions:</p>
<p>R311.7.6</p>	<ul style="list-style-type: none"> • Minimum 36" clear width at all points above the permitted handrail height • Minimum 6'-8" headroom height measured vertically from the sloped line adjoining the tread nosing • Maximum 8" riser height with 3/8" maximum variation between the smallest and largest • Minimum 9" tread depth, with 3/8" maximum variation between the smallest and largest <p>LANDINGS FOR STAIRWAYS. There shall be a floor or landing at the top and bottom of each stairway. The width perpendicular to the direction of travel shall be not less than the width of the flight served. For landings of shapes other than square or rectangular, the depth at the walk line and the total area shall be not less than that of a quarter circle with a radius equal to the required landing width. Where the stairway has a straight run, the depth in the direction of travel shall be not less than 36".</p> <p>Exception: A floor or landing is not required at the top of an interior flight of stairs, including stairs in an enclosed garage, provided that a door does not swing over the stairs.</p>
<p>R311.7.8</p>	<p>HANDRAILS. Stairways with 4 or more risers shall have handrails meeting the following criteria:</p> <ul style="list-style-type: none"> • Height of not less than 30" and not more than 38" above the sloped plane adjoining tread nosing • Continuity maintained along at least one side of the stairway, shall be returned or shall terminate in newel posts or safety terminals, and if adjacent to a wall shall have not less than a 1-1/2" space between the handrail and the wall. The handrail required for winders shall be located on the side of the stairway where the treads are narrower. • Grip-size shall meet <u>one</u> of the following types or provide equivalent graspability: <ul style="list-style-type: none"> ○ Type I. Handrails with a circular cross section with an outside diameter not less than 1-1/4" and not greater than 2". If handrail is not circular, it shall have a perimeter dimension of not less than 4" and not greater than 6-1/4" with a maximum cross section of dimension of not more than 2-1/4". ○ Type II. Handrails with a perimeter greater than 6-1/4" with minimum 5/16" deep graspable finger recess areas on both sides of the profile. The finger recesses shall start not more than 3/4" below the top of the rail. The width of the handrail above the recess shall be 1-1/4" minimum and not more than 2-3/4".
<p>R301.5 R312.1</p>	<p>GUARDS. Guards shall be located along open-sided walking surfaces, including stairs, ramps, and landings, that are located more than 30" measured vertically to the floor or grade below at any point within 36" horizontally to the edge of the open side. Insect screening shall not be considered as a guard. Guards shall comply with the following:</p>

- **Height** shall not be less than 36" high measured vertically above the adjacent walking surface or the line connecting the nosings.
- **Opening limitations** along required guards shall prevent passage of a 4" diameter sphere. Along stairs, the triangular opening formed by the riser, tread and bottom of the guard shall prevent passage of a 6" diameter sphere. Guards along the open sides of stairs shall prevent passage of a 5" diameter sphere (applicable above the second riser of the stair).
- **Resistance** of a 200# concentrated point load applied in any direction at any point along the top shall be provided.

ENERGY EFFICIENCY

N1107.2

HIGH-EFFICIENCY INTERIOR LIGHTING. All permanently installed lighting fixtures shall be high efficiency light sources. Screw-in compact fluorescent and LED lamps comply with this requirement, see ORSC definition of "high-efficiency light source" for more options.

**Table
N1101.2**

EXISTING BUILDING COMPONENT REQUIREMENTS

These component requirements shall be used to the maximum extent technically practical due to existing constraints, which may include but are not limited to the available cavity depth, matching existing features, and similar constraints.

Wall insulation: R-15

Flat ceiling (<2:12 slope): R-49

Vaulted ceiling > 10" nominal rafter depth: R-25

Vaulted ceiling <= 10" nominal rafter depth: R-21

Underfloor > 10" nominal joist depth: R-30

Underfloor <= 10" nominal joist depth: R-25

Slab-edge perimeter: NA

Windows and glazed doors: U-0.30

Skylights: U-0.50

Exterior doors: R-5

N1101.2.3.1

CHANGE OF USE. Changes of use that are greater than 30% of the existing building heated floor area or more than 400 square feet in area, whichever is less, shall be required to select one measure from Table N1101.3.2.

N1101.3

LARGE ADDITIONS. Additions equal to or more than 600 square feet in area shall comply with one Additional Measure from Table N1101.1(2).

SMALL ADDITIONS. Additions equal to or more than 225 square feet but less than 600 square feet shall comply with one measure from Table N1101.1(2) or one from Table N1101.3.2.

VERY SMALL ADDITIONS. Additions less than 225 square feet do not need to comply with Table N1101.1(2) or Table N1101.3.2.

N1101.2.3.2

CHANGE OF OCCUPANCY. Alteration and repair of conditioned nonresidential buildings, such as a small church or school, that are changing occupancy to residential dwellings shall use Table N1101.2 to the greatest extent practical and select one measure from Table N1101.1(2) or N1101.3.2.

Exception. The minimum component requirements shall be disregarded when thermal performance calculations are completed for change of use to Group R-3 occupancy, when such calculations demonstrate similar performance to the requirements of Table N1101.2.