Alterations Work	sheet 2015 Washington St	ate Energy Code			
Project Information	Contact Inform	Contact Information Architect: TCA Architecture			
Lawler Residence Remodel & Addition					
Site Address: 8456 N. Mercer Way			6211 Roosevelt Way NE Seattle, WA 98115		
Mercer Island, V	VA 98040	(206) 522	2-3830 (attn: 3	Stephen Rising)	
	state Energy Code requiremendels) do not need to obtain			-	
	et the requirements for new or conditioned space.	construction. This in	ncludes nonco	nditioned space being	
Will the wall cavit	ties be exposed?	es 🗆 No			
If yes:		be insulated - equire R-15 insulation equire R-21 insulation			
Will the roof/ceiling	ng framing cavities or attic	be exposed?	X Yes	□ No	
If yes:	Exposed roof/ceiling assemb	blies must be insula	ted -		
	Vaulted ceilings:	Insulate to the full of while allowing for the			
	Flat ceilings:	Install R-49 insulati accommodate base		·	
Will the floor framing cavities be exposed?		X Yes		No	
If yes:	Exposed floor cavities must	be insulated to R-30)		
Are the windows and/or doors being replaced? (includes both window or door and frames)		ed? X Yes		No	
If yes:	New windows and doors mu	st have an area wei	ghted average	e U-factor of ≤0.30	
Will the heating o	r cooling system be replac	ed?	IX	No	
If yes:	New equipment m ducts need to be to	ust meet current red ested	quirements ar	nd	
Will the hot water	system be altered?	X Yes	□ No		
If yes:	New water heating	g equipment must m	eet current co	de requirements	
Are more than 50	% of the light fixtures being	g changed?	X Yes	□ No	
If yes:	75% of all lamps n (LED or	nust be high efficacy CFL)	/		

R503.1.1 Building envelope. Building envelope assemblies that are part of the alteration shall comply with Section R402.1.1 or R402.1.4, Sections R402.2.1 through R402.2.11, R402.3.1, R402.3.2, R402.4.3 and R402.4.4.

Exception: The following alterations need not comply with the requirements for new construction provided the energy use of the building is not increased:

- 1. Storm windows installed over existing fenestration.
- 2. Existing ceiling, wall or floor cavities exposed during construction provided that these cavities are filled with insulation. 2x4 framed walls shall be insulated to a minimum of R-15 and 2x6 framed walls shall be insulated to a minimum of R-21
- 3. Construction where the existing roof, wall or floor cavity is not exposed.
- 4. Roof recover.
- 5. Roofs without insulation in the cavity and where the sheathing or insulation is exposed during reroofing shall be insulated either above or below the sheathing.
- 6. Surface-applied window film installed on existing single pane fenestration assemblies to reduce solar heat gain provided the code does not require the glazing fenestration to be replaced.

R503.1.1.1 Replacement fenestration. Where some or all of an existing fenestration unit is replaced with a new fenestration product, including sash and glazing, the replacement fenestration unit shall meet the applicable requirements for U-factor and SHGC in Table R402.1.1.

R502.1.1.2 Heating and cooling systems. New heating, cooling and duct systems that are part of the addition shall comply with Sections R403.1, R403.2, R403.3, R403.5 and R403.6.

Exception: The following need not comply with the testing requirements of Section R403.3.3:

- 1. Additions of less than 750 square feet.
- 2. Duct systems that are documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in WSU RS-33.
- 3. Ducts with less than 40 linear feet in unconditioned spaces.
- 4. Existing duct systems constructed, insulated or sealed with asbestos.

R503.1.3 Service hot water systems. New service hot water systems that are part of the alteration shall comply with Section R403.4.

R503.1.4 Lighting. New lighting systems that are part of the alteration shall comply with Section R404.1.

Exception: Alterations that replace less than 50 percent of the luminaires in a space, provided that such alterations do not increase the installed interior lighting power.

R503.2 Change in space conditioning. Any nonconditioned or low-energy space that is altered to become *conditioned space* shall be required to be brought into full compliance with this code.