

How to Regulate
Assembly
Characteristics
Market
About

What's the best way to regulate Missing Middle Housing?

Hint: Conventional Zoning Doesn't Work

Conventional (Euclidean) zoning practice regulates primarily by land use or allowed activities, dividing neighborhoods into single-family residential, multifamily residential, commercial, office, etc. This separation of uses is the antithesis of mixed-use walkable neighborhoods. Along with use, the zones are often defined and controlled by unpredictable numeric values, such as floor area ratio (FAR) and density, which create all sorts of barriers to Missing Middle Housing.

For starters, Missing Middle Housing (MMH) is intended to be part of low-rise residential neighborhoods, which are typically zoned as "single-family residential"

in conventional zoning. However, because MMH contains multiple units, it is, by definition, not allowed in single-family zones. On the other hand, most multifamily zones in conventional codes allow much bigger buildings (taller and wider) and also typically encourage lot aggregation and large suburban garden apartment buildings. The environments created by these zones are not what Missing Middle Housing is intended for.

In addition, density-based zoning doesn't work with the blended densities that are typical in neighborhoods where Missing Middle Housing thrives. MMH are similar in form and scale to detached single-family homes, but because they include more units, they often vary dramatically in their densities, making them impossible to regulate with a density-based system. For example, a bungalow court can have densities of up to 35 dwelling units per acre even though the buildings are only one story tall, because the size of each cottage is only 25 feet by 30 feet. So if a zoning district sets a maximum density of 20 dwelling units per acre, it would not allow the bungalow court type. On the other hand, if the zoning district has a maximum density of 35 dwelling units per acre with few or no additional form standards, every builder/developer will max out a lot with a large, out-of-scale apartment building, rather than building the bungalow court the neighborhood would prefer.

And one more thing: density-based zoning treats all units the same regardless of size. This means that a 3,500-square-foot unit is considered the same as a 600-square-foot unit for calculations such as density, parking and open space, thus discouraging much-needed smaller units. For example, a fourplex with four 600sf units would require four times the parking and open space as a 2,400sf detached single-family home, even though the size of the building is the same, typically making the fourplex infeasible to fit on a typical lot.





This Alameda, CA neighborhood has several Missing Middle housing types on each block.

The Alternative: Form-Based Coding

Form-Based Coding is a proven alternative to conventional zoning that effectively regulates Missing Middle Housing. Form-Based Codes (FBCs) remove barriers and incentivize Missing Middle Housing in appropriate locations in a community.

FBCs represent a paradigm shift in the way that we regulate the built environment, using physical form rather than a separation of uses as the organizing principal, to create predictable, built results and a high-quality public realm.

The Form-Based Approach to Regulating Missing Middle Housing

Regulating Missing Middle Housing starts by defining a range of housing types

appropriate for the community based on the community's existing physical patterns, climate, and other considerations, as part of the early Community Character Analysis phase of a planning and Form-Based Coding project.

able 1703-3.30.A: Building Types General	7	Table 1703-3.30.A: Building Types General (continued)	
uilding Type Carriage House. This Building Type is an accessory structure typically located at the rear of a lot. It typically provides either a small residential unit, home office space, or other small commer or service use that may be above a garage or at ground level. Thi Type is important for providing affordable housing opportunities and incubating small businesses within walkable neighborhoods.	S T5MS T5N.LS	Building Type Rowhouse. This Building Type is a small- to mediu attached structure that consists of 2–8 Rowhouses by-side. In a feature unique to Cincinnait, this Type occasionally be detached with minimal separations buildings. This Type is typically located within medii neighborhoods or in a location that transitions from single-family neighborhood into a neighborhood mu Type enables appropriately-scaled, well-designed hi and is important for providing a broad choice of ho	placed side- may also between the T5MS T5N.LS um-density T5N.SS T5F in street. This gher densities
Detached House: Medium. This Building Type is a medium-size detached structure on a medium-sized lot that incorporates one detached structure on a medium-sized lot that incorporates one neighborhood in a walkable urban setting, potentially near a neighborhood main street.		Promoting walkability. Syn: Townhouse Multi-plex: Small. This Building Type is a medium consists of 3–6 side-by-side and/or stacked dwelling with one shared entry or individual entries along the Type has the appearance of a medium-sized family ha appropriately scaled to fit sparingly within primarily neighborhoods or into medium-density neighborhood enables appropriately-scaled, well-designed higher de	units, typically front. This T4N.MF T4N.MF T4N.SF T5MS T5MS T5MLS T5MLS T5F constraints T5F T5F T5F
Detached House: Compact. This Building Type is a small stached structure on a small lot that incorporates one unit. It is typically located within a primarily single-family residential neighborhood in a walkable urban setting, potentially near a neighborhood in an sultakable urban setting, potentially near a neighborhood min street. This Type enables appropriately-scale well-designed higher densities and is important for providing a broad choice of housing types and promoting walkability.	T6C	Image: Signature of the second sec	- to large-sized stacked dwelling typropriately ds or sparingly rhoods. This gher densities
Cottage Court. This Building Type consists of a series of small, a shared court takes the place of a private rear yard and becomes a shared court takes the place of a private rear yard and becomes a shared court takes the place of a private rear yard and becomes a sporportate community-enhancing element of this Type. This Type is appropriately-scaled to fit within primarily single-family or medium density neighborhoods. It enables appropriately-scaled, well-design higher densities and is important for providing a broad choice of housing types and promoting walkability.	T5N.SS T5F	Stacked Flats. This Building Type is a medium- to structure that consists of multiple dwelling units acca a courtyard or series of courtyards. Each unit may h individual entry, or may share a common entry. This appropriately scaled to fit adapcent to neighborhood streets and walkable urban neighborhoods. It enable scaled, well-designed higher densities and is importa	assed from ave its own T4N.MF T4N.MF T4N.SF T5MS T5N.LS T5N.LS T5F to providing a
Duplex. This Building Type is a small- to medium-sized structure that consists of two side-by-side or stacked dwelling units, both facing the street and within a single building massing. This Type has the appearance of a medium to large single-family home and is appropriately scaled to fit within primarily single-family neighborhoods or medium-density neighborhoods. It enables appropriately-scaled, well-designed higher densities and is import walkability. ey The Allowed	TIN. TIN. SF TSMS TSN.LS TSN.SS TSF	 broad choice of housing types and promoting wakate type may include a courtyard. Live/Work. This Building Type is a small to mediul or detached structure that consists of one dwelling ad/or behind a flexible ground floor space that car residential, service, or retail uses. Both the ground and the unit above are owned by one entity. This T it crastitions from a neighborhood sor it transitions from a neighborhood into a neighborhood main so as the market demands. 	m-sized attached unit above be used for floor flex space rain.street. It of desrving et al do asrving retail

A building types page from Cincinnati's Form-Based Code

Then for each form-based zone, a specific range of housing types is allowed based on the intention for the neighborhood. For example, in a walkable neighborhood, single-family-detached homes, bungalow courts, and side-by-side duplexes may be allowed, or in a slightly more urban walkable neighborhood, bungalow courts, side-by-side duplexes, stacked duplexes, fourplexes, and small multiplexes might be allowed. 1703-2.70 1703-2.70

T4 Neighborhood Small Footprint (T4N.SF)

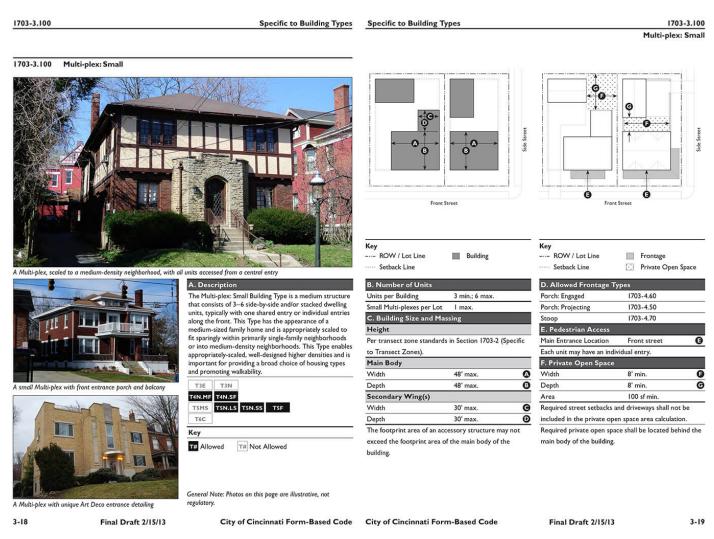
	all Footprint (T4N.SF) Small Footprint (T4N.SF)				_[1	
				Street	→ ← €	side Street		G O Row Line	Stre
- WEST			Key				Кеу		
PA ST			ROW / Lot Li	ne			ROW Line		
			C. Allowed Buil	ding Turner			D. Building Form		
- Flow			C. Allowed Bull		Lot	100 A. A.	Height	_	_
	and the first		Building Type	-	Depth 🖸	- Standards	Main Building		
1 at			Carriage House	n/a	n/a	1703-3.40	Stories	2½ stories max.	
111			Detached House:	1000038	75' min.	1703-3.60	To Eave/Parapet	24' max.	
	times 1		Compact	50' max.			Overall	35' max.	
			Cottage Court	75' min.; 100' max.	100' min.	1703-3.70	Accessory Structure(s) Accessory Dwellings	2 stories max.	
			Duplex	40' min.; 75' max.	100' min.	1703-3.80	Other Ground Floor Finish Level	l story max. 18" min.	
			Rowhouse	18' min.;	80' min.	1703-3.90	above Sidewalk	18 min.	
			Kownouse	35' max.	00 mm.	1703-3.70	Ground Floor Ceiling		-
			Multi-Plex: Small	50' min.;	100' min.	1703-3.100	Service or Retail	12' min.	10
	27		Trate-Trex. official	100' max.		1105-51100	Upper Floor(s) Ceiling	8' min.	
			Live/Work	18' min.;	80' min.	1703-3.130	Ground floor lobbies and com		
. Intent		B. Sub-Zone(s)			35' max.	100000000	buildings may have a 0" to 6" ground floor finish level.		
o provide variety of urban	Detached or Attached	T4N.SF-Open Zone (T4N.SF-O)					Footprint		
ousing choices, in small-to- edium footprint, medium-to-	Narrow-to-Medium Lot Width	The open sub-zone provides the					Depth, Ground-Floor Space	24' min.	(
gh density building types, which	Small-to-Medium Footprint	same building form but allows for a more diverse mix of uses.					Accessory Structure(s)		
inforce the walkable nature	Building at or Close to ROW	more diverse mix of uses.					Width	24' max.	
f the neighborhood, support eighborhood-serving retail and	Small to No Side Setbacks						Depth	32' max.	
ervice uses adjacent to this Zone,	Up to 21/2 Stories						Miscellaneous		
ind support public transportation	Elevated Ground Floor	General note: The drawing above is					Loading docks, overhead door	s, and other service	
Iternatives. The following are generally appropriate form elements n this Zone:	Primarily with Stoops and Porches	intended to provide a brief overview of this Transect Zone and is illustrative only.					entries shall be screened and r street facades.	not be located on pri	ımar
		CM 4557500 49450 (1947) (1010) #005							

A zone from the Cincinnati's Form-Based Code

In addition for each type, there are typically supplemental form standards that are regulated to allow some of the individual aspects of certain MMH types while preventing overbuilding in terms of height and bulk. For example, a bungalow court type typically allows for more units, but has a maximum height of 1–1.5 stories, a maximum building footprint/unit size of around 800 square feet and a minimum size of courtyard. A Form-Based Code can regulate these fine-grained details, such that on a 100' by 100' lot, two fourplexes or a bungalow court with eight small, one-story units could be allowed, but not a single, larger eight-unit apartment building.

For these reasons and more, Form-Based Coding is the most effective way to enable Missing Middle Housing.

Next: The Types of Missing Middle Housing...



The small multiplex building type from Cincinnati's Form-Based Code

"I want to thank you for your great work on Missing Middle Housing! It has been useful in my current research on policy reforms to support more affordable infill development in Victoria, B.C., and informing my report 'Affordable Accessible Housing in a Dynamic City."

- Todd Litman, Victoria Transport Policy Institute

For more information about Form-Based Codes, see:

- Form-Based Codes: A Guide to Planners, Urban Designers, Municipalities, and Developers, by Daniel Parolek, Karen Parolek, and Paul C. Crawford
- Form-Based Codes Institute

Form-Based Codes with Building Types to Reference:

- Cincinnati, OH (And read this blog post about the project)
- Mesa, AZ (Article 6: Form-Based Code)
- Livermore, CA

Or find out about our Form-Based Coding services

