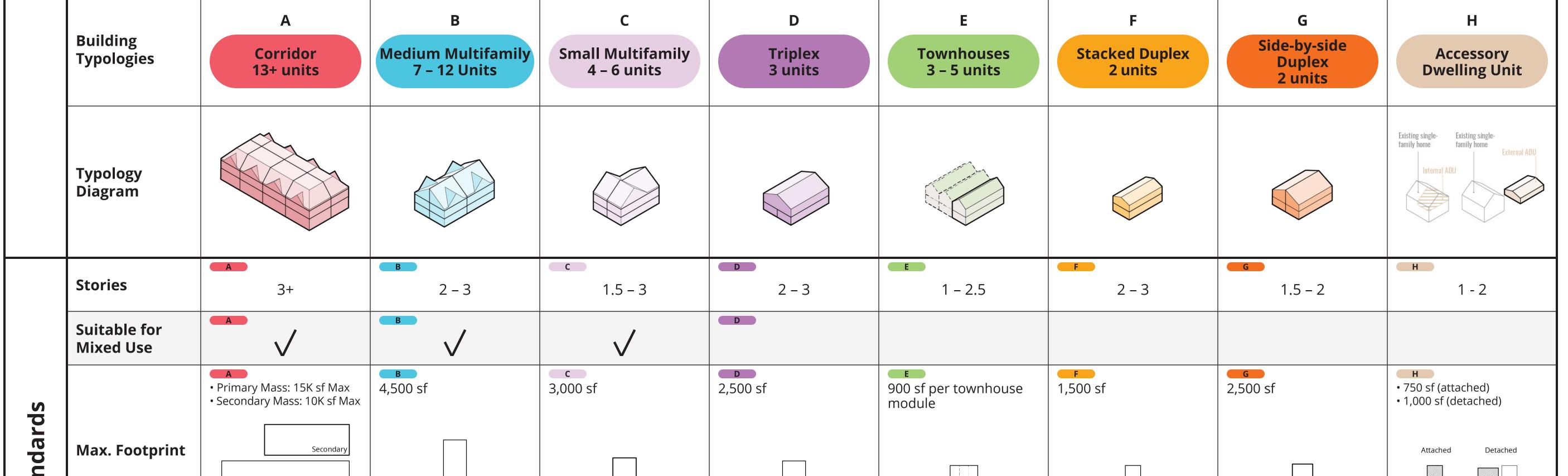
Cape Cod Multifamily Housing Design Guidelines Building Typologies

These Design Guidelines are meant to extend the unique cultural landscape of Cape Cod into the future, ensure healthy and vibrant spaces, make the Cape more resilient and a contributor to the State's carbon emissions reduction goals, and inspire more predictable built-form outcomes, helping to build support for new housing.

This matrix includes columns for each building type: corridor building, medium and small multifamily, triplex, townhouses, duplexes, and accessory dwelling units. Rows include building dimensional and sustainability standards, and general design guidelines for building attributes, and building placement and landscape.

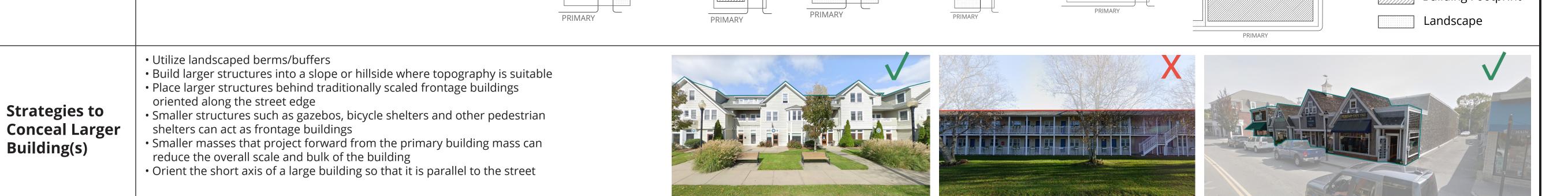


l Stan		Primary Primary Street	Primary Street	Primary Street	Primary Street	Primary Street	Primary Street	Primary Street	
ilding Dimensiona	Max. Facade Length	 The facade must be divided vertically by a recess or offset at least 7' deep and 10' wide and The corresponding roof form must be changed in at least one way below: Roof form type (e.g., pitched, hip, etc.) Roof ridge orientation Roof ridge height of at least 5' Roof ridge alignment of at least 7' 	cade and roof form articulation combined	p 55 Mat 7' deep offset	Facade offset + Change in roof form type (pitched to hip) Facade offset + Change in roof form type (pitched to hip)	Image: Second state		Image: constraint of the second sec	
B	Roof Form/ Pitch	 A B C D E F G F Pitched roofs with a slope less than 12:12, greater than 7:12 are encouraged (Figure 1) Flat roofs are discouraged; they may be appropriate in areas where existing development includes flat-roofed, row-house style structures, or on some portions of a building If a third floor is created, it should be set back (Figure 2) or within a roof form (Figure 3) to maintain a traditional scale to the building 	12:12	Figure 1	 The slope of a pitch unoccupied attic sp least 5:12. Roof dormers shoul more than 75% of r setbacks from all side. Roof dormers shoul than 12' each and s each other by at lead 	bace must be at ald cover no coof slope with 3' des ald be no wider separated from	Figure 2	Figure 3	
Building Istainability	Building Efficiency	 A B C D E F G H Buildings should meet or exceed MA Residential Stretch Code standard (HERS or Passive House compliance pathways) Designs should prioritize envelope efficiency through air sealing, high performance windows, and continuous insulation (preferably using low embodied carbon materials like cellulose, wood fiber, or mineral wool). 							
	Mechanical Systems	 A B Meet or exceed MA Residential Stretch Code standards All-electric systems, including cold-climate heat pumps for climate control are encouraged Pre-wiring for electrification is encouraged for any remaining fossil-fuel based systems 	 C D E F G H Systems should meet or exceed MA Residential Stretch Code standards All-electric systems, including cold-climate heat pumps for space conditioning and hybrid heat pump water heaters for domestic hot water are encouraged Balanced energy recovery ventilation is also highly encouraged Pre-wiring for electrification is encouraged for any remaining fossil-fuel based systems 						
Su	Solar Orientation	 A B Roof design should enable maximum solar PV coverage Mechanical equipment on low slope roofs should be consolidated to maximize PV area 	 C D E F G H Building orientation with roofs facing south encouraged for optimal solar PV A higher window-wall ratio on south facades relative to north, east, and west orientations is encouraged to yield favorable outcomes for heating and cooling loads and solar control 						

General Design Guidelines

Building

Pla		Utilize landscaped berms/buffers Build larger structures into a slope or hillside where topography is suitable							
cement and l	Parking Lots	 Landscaped islands should be 20% of parking field, 8 – 10' in width Place parking to side or rear Screen parking from view New curb cuts on existing public ways should be minimized Use permeable or pervious pavement Design parking lots to accommodate average, not peak, volume Side parking should be at least 10 feet behind front facade line 	-						
Land	Landscaping	 Expansive areas (> 700 sf) of paving should be broken up Minimize impervious surfaces Use low-water, native plants Use low-water, native plants 	as						
scap	Stormwater	On-site retention and treatment of stormwater							
e B	Setbacks	See Place Types Matrix for setback requirements							
Building	Window Types and Sizes	 Double-hung windows are preferred Simulated Divided Lites (SDL's) provide high energy efficiency, thermal comfort, and durability. SDL's should look regionally appropriate by requiring snap-in muntins placed on top of the glass (Figure 3), rather than only between the glass. Casement (Figure 1) and tilt/turn windows (Figure 2) which provide more airtight seals are permitted as energy-efficient alternatives to double-hung windows. These windows should be fitted with SDL's to appear regionally appropriate. Sliding doors should not be allowed in front facades Highly reflective and dark-tinted glass is discouraged Regionally appropriate windows are vertically proportioned (at least 1.5 times taller than they are wide) Glass panes that measure 6" wide by 8" high are quintessential, but larger window pane sizes are not uncommon in newer Cape Cod style homes 	Figure 3						
Attri	Window to Wall Ratio	See Place Types Matrix for window to wall ratio guidelines							
butes	Cladding Materials	 High quality natural materials such as wood, stone and brick are encouraged Cedar shakes and clapboards are preferred materials for most residential structures Allow cementitious wood fiber for clapboards/ shingles/trim on non-historic buildings Siding materials such as aluminum or vinyl siding are discouraged Avoid the use of faux materials 							





Cape Cod Multifamily Housing Design Guidelines Place Types

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This matrix includes rows for each place type including community activity centers, historic, suburban, rural and maritime areas, and columns with building typologies, setbacks, and front facade window-to-wall ratios that are appropriate for the different place types to encourage pedestrian-focused buildings. Historic buildings don't need to change to meet setbacks or window-to-wall ratios.

		Sub-categories		Characteristics	teristics Examples Building Typologies		Setbacks Following desired setback pattern		Front Facade Window-to-wall Ratio This ratio is meant for facades along main streets in commercial/mixed use	
		Most dense	 / /	Characterized by	Downtown Provincetown		0' min		areas	
	ters			shared building walls and zero setbacks	 Falmouth Hyannis Chatham Mashpee 	Corridor Medium Multifamily 7 - 12 Units Townhouses 3 - 5 units	Front0 min15' maxSide0' min		Upper Stories	15% min
	Cen						Rear 0' min	Front max	Ground Floor	70% min
	nity Activity (<text></text>	Characterized by space between structures and some suburban forms	 Downtown Orleans Harwich Port Dennis Port West Dennis South Yarmouth Woods Hole Buzzards Bay 	Medium Multifamily 7 - 12 Units Small Multifamily 4 - 6 units Townhouses 3 - 5 units	Front 2' min 15' max	Fide	Upper Stories	15% min	
						Side7' minRear7' min	Side	Ground Floor	60% min	
	nmmo	Less dense		Characterized by front and side yards and a more residential feel	 Wellfleet Village Dennis Village Barnstable Village Sandwich Village 	Small Multifamily 4 – 6 units Townhouses 3 – 5 units	Front10' min 20' maxSide10' min	Side + Side	Upper Stories	
	Ŭ			• Osterville		Rear 10' min	Front max Front min	Ground Floor		
		Most dense		Characterized by shared building walls, zero setbacks, and historic door/	 Downtown Provincetown Downtown Hyannis Chatham 	Medium Multifamily 7 – 12 Units Small Multifamily 4 – 6 units	Front0' min 10' maxSide0' min		Upper Stories	15% min
		Moderate		window patterns Characterized by small	• Harwich Port		Rear0' min2' min	Front max	Ground Floor	60% min
		density		groups of attached buildings surrounded by residential scale structures	 Wellfleet Main Street Harwich Center Sandwich Village 	Small Multifamily 4 - 6 unitsTownhouses 3 - 5 unitsTriplex	Front215' maxSide7' min	Side ++ Side	Upper Stories	15% min
	oric			scale structures			Rear 7' min	Front max.↑ ↓ \$Front min	Ground Floor	60% min
	Histo	Small lot residential		Characterized by modest size structures with smaller back	 South Yarmouth/ Bass River Chatham Old Village 	Small Multifamily 4 - 6 unitsTriplexSide-by-sideStacked duplex	Front 10' min 20' max	Rear	Upper Stories	
Place Types			lot structures and small yards		Side-by-side Stacked duplex Duplex Stacked duplex Accessory Dwelling Unit	Side10' minRear15' min	Side	Ground Floor		
		Large lot residential		Characterized by large yards and wooded areas between buildings	 Spring Hill in Sandwich West Falmouth South Dennis 	TriplexStacked duplexSide-by-side DuplexAccessory Dwelling Unit	Front15' min 50' maxSide20' min	Side Front max Front min	Upper Stories	
						Small Multifamily 4 – 6 units	Rear 20' min		Ground Floor	
	Suburban	Commercial		Areas with large linear buildings and parking areas	 Route 28 in Yarmouth Route 134 in Dennis Teaticket area of Route 28 in Falmouth 	Corridor Medium Multifamily 7 – 12 Units	Front15' min 30' maxSide10' min	Side + Side	Upper Stories	15% min
							Rear 10' min	Front max Front min	Ground Floor	60% min
		Residential Image: Constraint of the second sec		Areas with small scale repetitive building forms and prominent yards	 Dennis area around Setucket Road Pitcher's Way area in Barnstable 	TriplexStacked duplexSide-by-side DuplexAccessory Dwelling Unit	Front15' min 50' maxSide20' min	Side	Upper Stories	
						Rear 20' min	Front max Front min	Ground Floor		
	Rural	Wooded		Areas surrounded by wooded landscapes	 West Barnstable Spring Hill area in Sandwich 	Small Multifamily 4 - 6 unitsTriplexSide-by-sideStacked duplex	Front 10' min	Rear	Upper Stories	
					 Cape Cod National Seashore 	Side-by-side Duplex Stacked duplex Accessory Dwelling Unit Stacked duplex	Side15' minRear15' min	Side	Ground Floor	
		i i i i i i i i i i i i i i i i i i i		Areas surrounded by open fields or areas of low height vegetation	 Hatchville area in Falmouth Cape Cod National 	TriplexSide-by-side DuplexStacked duplexAccessory Dwelling Unit	Front15' minSide20' min	Rear Side	Upper Stories	
			such as heathlands/ grasslands or marshes	Seashore	Dwelling Unit	Rear 20' min	Front min	Ground Floor		
		Most dense	sh	Characterized by shared building walls and zero setbacks	• Provincetown	Corridor Medium Multifamily 7 – 12 Units	Front 0' min 15' max		Upper Stories	15% min
						Townhouses 3 – 5 units	Side0' minRear0' min	Front max	Ground Floor	60% min
	time	Moderate density		Characterized by space between structures and some suburban forms	• Hyannis • Woods Hole	Medium Multifamily 7 – 12 Units Small Multifamily 4 – 6 units	Front 7' min 15' max	Rear\$	Upper Stories	15% min
	Marit					Townhouses 3 – 5 units	Side7' minRear7' min	Side	Ground Floor	60% min

