

# 

# Places of value. *Value of place*.

# Strategies for Encouraging Smart Growth and More Affordable Housing

Presented to the

**RI State Land Use Committee – March 28, 2022** 

Presented by Donald Powers, President Union Studio Architecture & Community Design





Part 1

# Impediments to Affordability





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# Costs of Development

 Land Cost • Design Costs Costs of Approvals • time, • legal, • subconsultant, • etc.

 Materials Cost • Labor Cost Other soft costs: • Marketing • Broker fees • Etc.



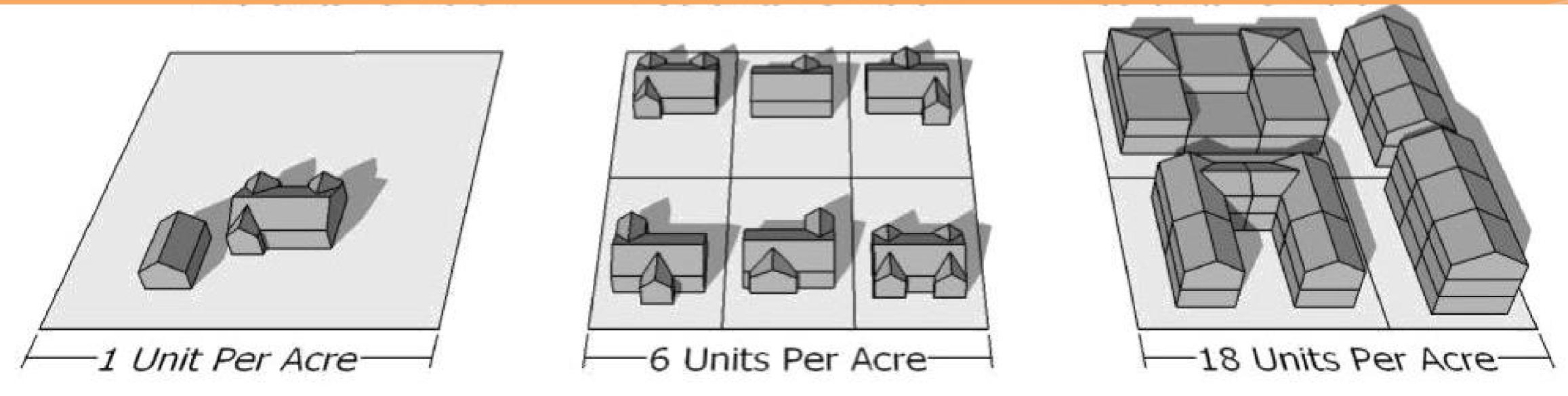
# Costs of Development

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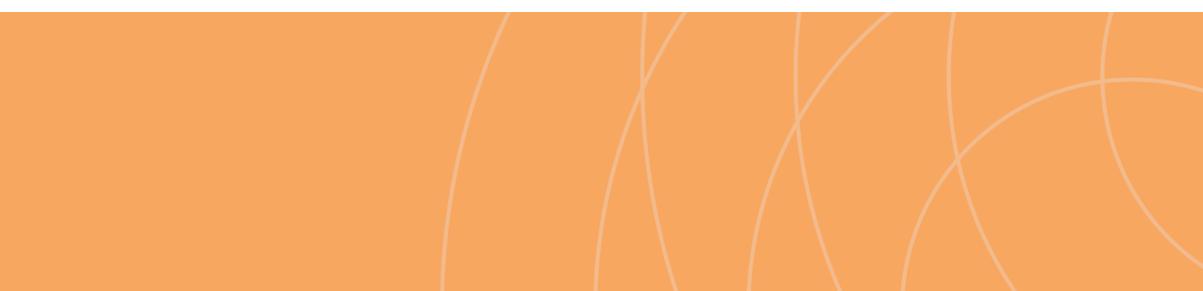
# Materials Cost • Labor Cost Other soft costs: • Marketing • Broker fees • Etc./



# Land cost as component of DU cost can only be lowered by allowing more density (less land cost per unit).





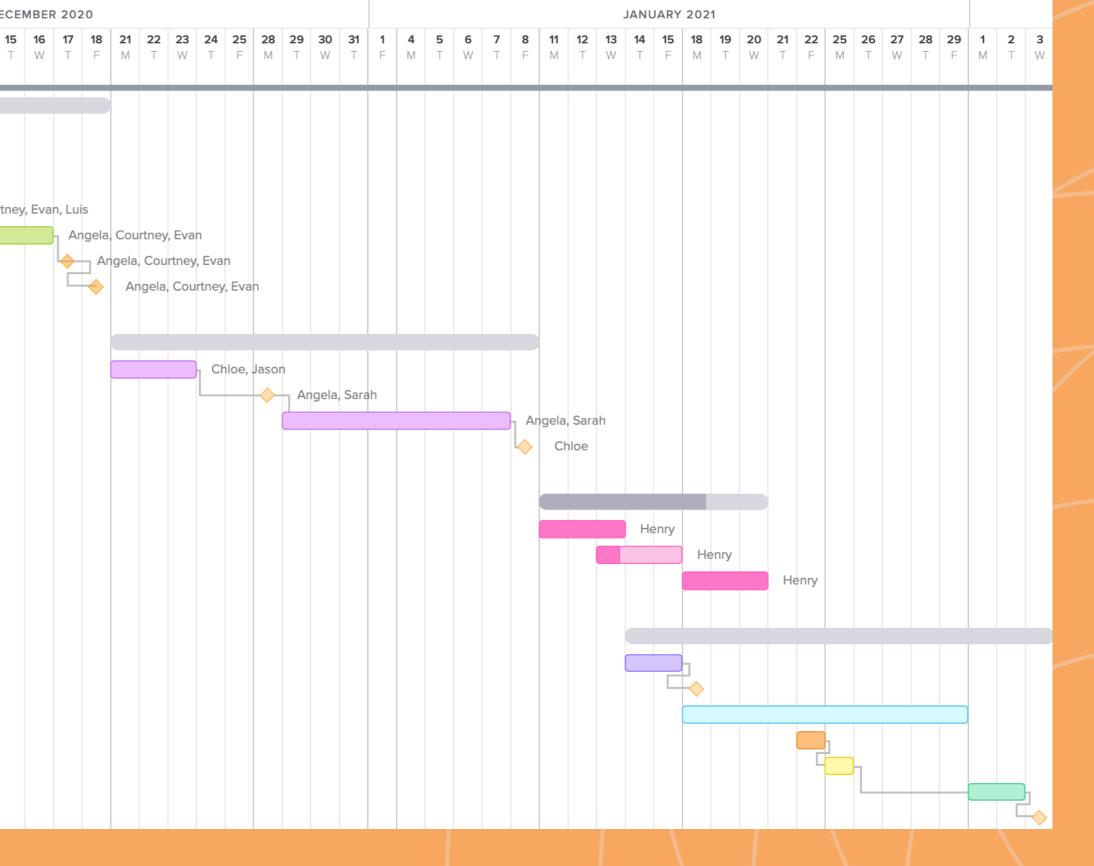




# Cost of approvals and entitlement as a component of DU cost can only be lowered by making them more predictable and less time consuming.

|                                       | Progress     | 202       | 0 |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                | D              | EC  |
|---------------------------------------|--------------|-----------|---|-----------|----------------|-----------|---------|-----------|-----------|----------------|--------|--------|---------------|---------------|--------|--------|--------|-----------|----------------|----------------|-----|
|                                       |              | 7 18<br>W |   | <b>20</b> | <b>23</b><br>M | <b>24</b> | 25<br>W | <b>26</b> | <b>27</b> | <b>30</b><br>M | 1<br>T | 2<br>W | <b>3</b><br>⊤ | <b>4</b><br>F | 7<br>M | 8<br>T | 9<br>W | <b>10</b> | <b>11</b><br>F | <b>14</b><br>M | 1   |
| Software Development Plan             | 18%          |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Research + Discovery                  | 80%          |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Define project scope                  | 100%         |           |   |           |                |           |         | A         | ngela     | , Cou          | irtney | , Evai | n             |               |        |        |        |           |                |                |     |
| Conduct stakeholder interviews        | 100%         |           |   |           |                |           |         |           |           |                |        |        | Ar            | ngela         | Cou    | Irtney | , Eva  | n, Lui    | is             |                |     |
| Scope finalized                       | $\checkmark$ |           |   |           |                |           |         |           |           |                |        |        | •             | Ar            | igela  | , Cou  | rtney  | , Eva     | n, Lui         | s              |     |
| Conduct user research                 | 100%         |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        | Ar        | ngela          | Cou            | rtn |
| Gather requirements                   | 0%           |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Requirements finalized                | $\checkmark$ |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Kickoff meeting                       | $\checkmark$ |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Task Milestone Group of Tasks         |              |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| ▼ Design                              | 0%           |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| High-level design / flow charts       | 0%           |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Design check-in                       |              |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Design period                         | 0%           |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Deliver final design                  |              |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Task Milestone Group of Tasks         |              |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| <ul> <li>Environment Setup</li> </ul> | 73%          |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Staging environment                   | 100%         |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Production environment                | 25%          |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| QA environment                        | 100%         |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Task Milestone Group of Tasks         |              |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Sprint 1                              | 0%           |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Sprint planning                       | 0%           |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Sprint 1 start                        |              |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Sprint period                         | 0%           |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Testing                               | 0%           |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Stakeholder review / check-in         | 0%           |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Fix period                            | 0%           |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |
| Deploy / Sprint 1 end                 |              |           |   |           |                |           |         |           |           |                |        |        |               |               |        |        |        |           |                |                |     |







Lower land cost (density) and lower cost of approvals (predictability) are both encouraged through better design :







Why do Municipalities and neighbors resist "density" (and development generally)?







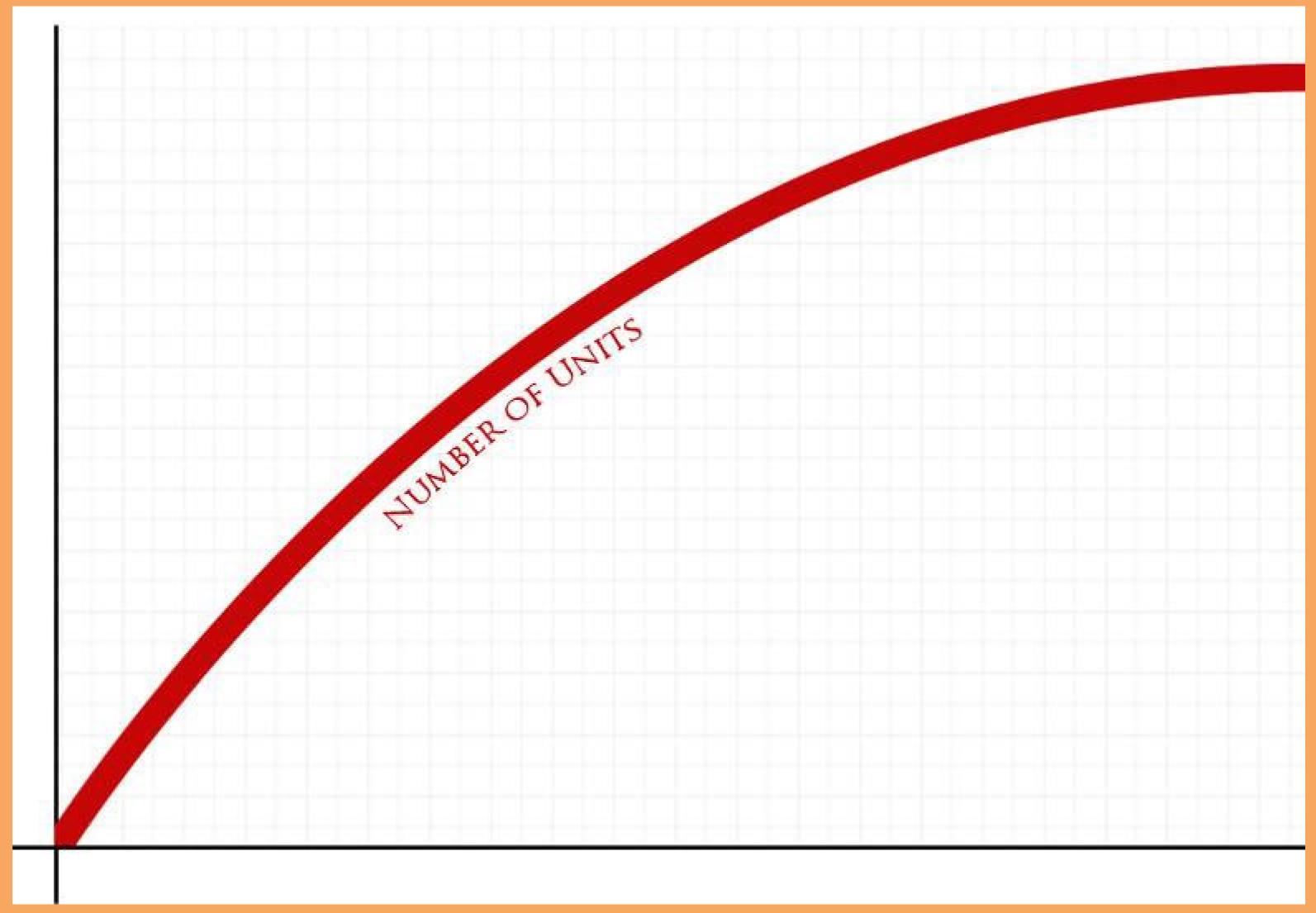
Most recent experience suggests their life will not be better with whatever development is being proposed.

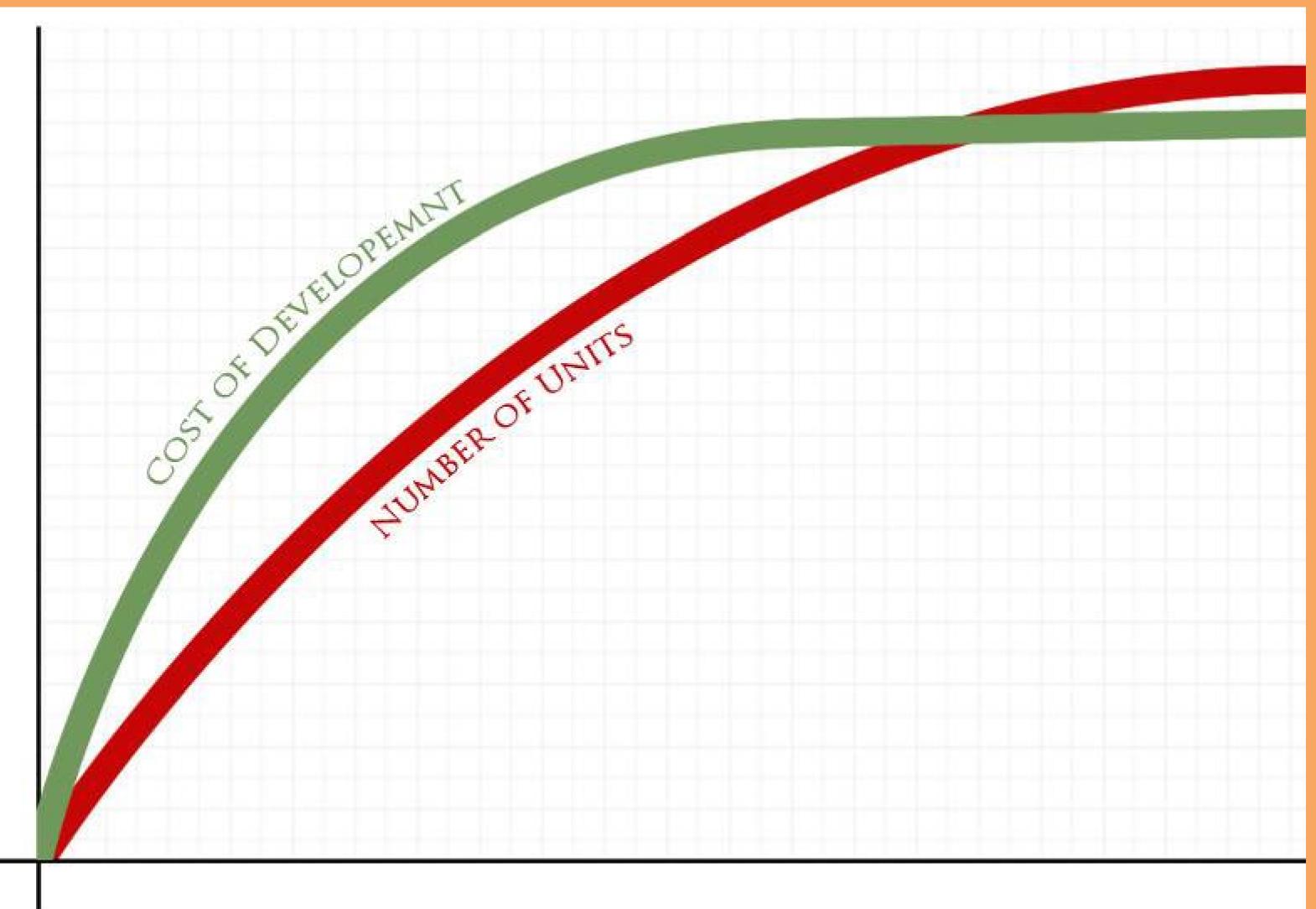
Not a fair trade.

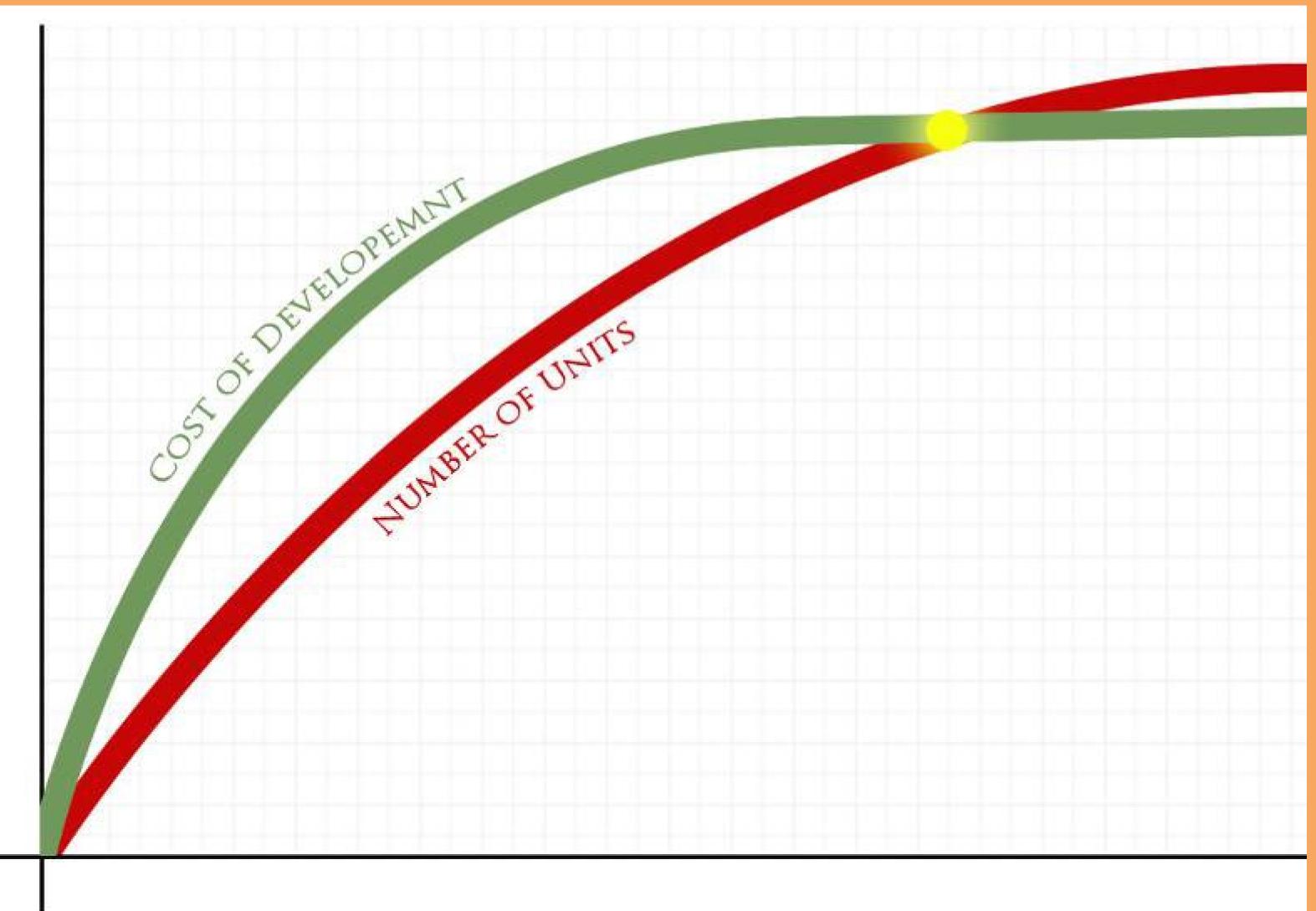












Better design often can overcome residents' fears and speed up approval.





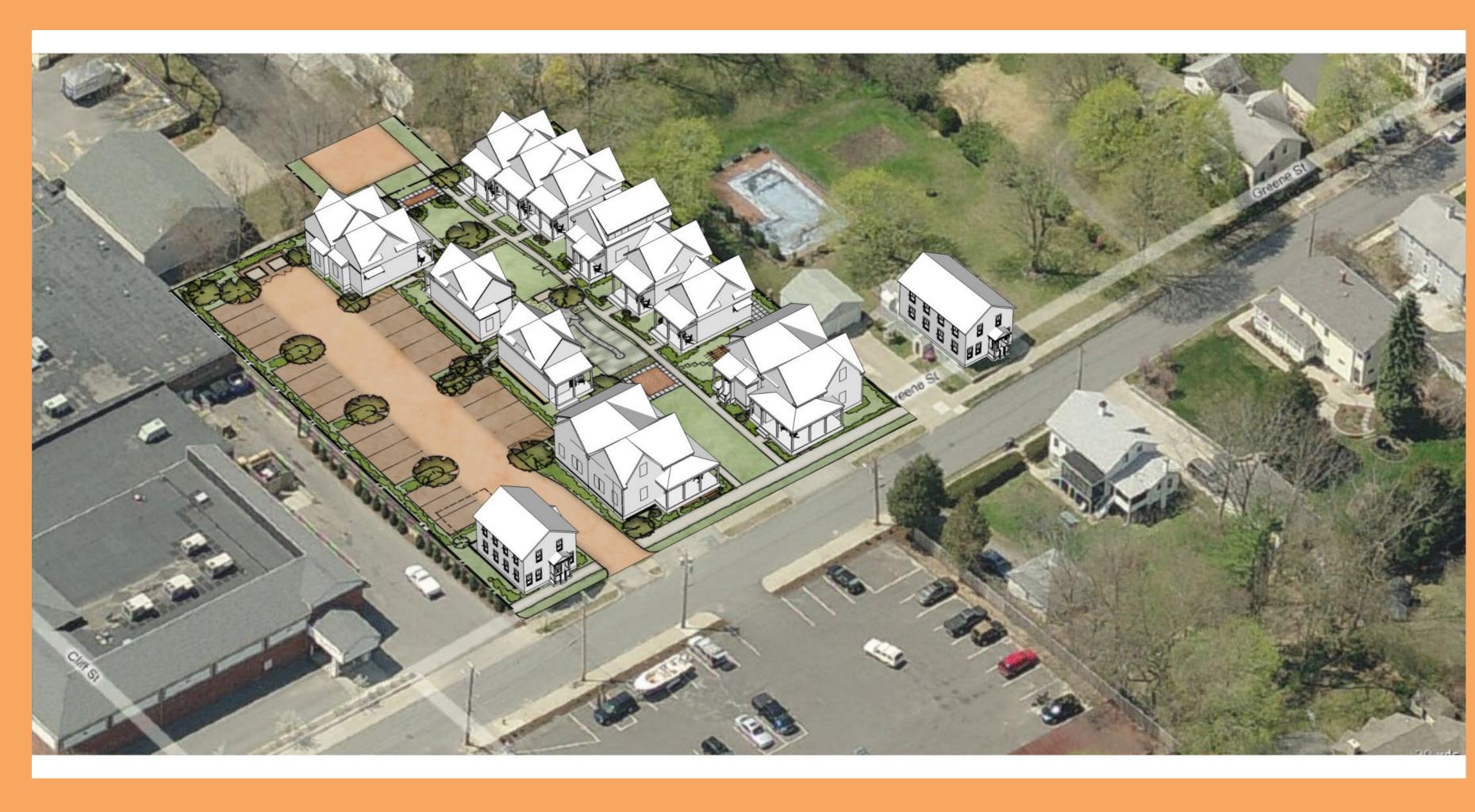
Comprehensive plan and zoning called for "high density housing".

15 Units/.9 acres



## 15 units is not just 15 units

## 15 Units/.9 acres



## 15 units is not just 15 units

## 15 Units/.9 acres

















# What they had feared:



# What they were shown:





# What they got:



#### CASE STUDY: HOUSING ON CAPE COD

# MISSING MIDDLE

(mail)



unionstudioarch.com

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#### UNION STUDIO

#### UNION STUDIO



ZONING



MARKET



Figure 3-1. Major causes of Cape Cod's housing shortage

Source: Quinn and Coxe, "Housing on Cape Cod: The High Cost of Doing Nothing." Housing Assistance Corporation. 2018.

## Can Missing Middle Housing Save the day?

According to a 2017 report by the Cape Cod Commission, there is a need for an additional 4,441 rental units.<sup>51</sup>

#### THE MULTI-FACETED ROLE OF MISSING MIDDLE HOUSING

Missing Middle housing can provide several benefits to a region, including the addition of housing choice. Housing choice is crucial in providing ample housing for diverse communities with a range of income and familial compositions. Missing Middle housing is not synonymous with affordable housing but it can help alleviate an affordable housing shortage by increasing supply and providing a myriad of building types. The following section explores the role of Missing Middle housing in an affordable context, but keep in mind that Missing Middle housing is most successful when it is able to support a mixedincome community. Although Cape Cod is currently experiencing an affordable housing crisis, the cost

of housing is steadily increasing, affecting more households every year and creating a greater urgency for housing choice.

#### CONVENTIONAL ZONING AND VACATION RENTALS HAVE EXASPERATED CAPE COD'S AFFORDABLE HOUSING CRISIS

The forces behind Cape Cod's affordable housing shortage are multifarious, interdisciplinary, and undeniably complex. However, there are two factors that are recognized to have had a significant impact on the lack of affordable housing on Cape Cod traditional and outdated euclidean zoning combined with the region's seasonal vacation culture.<sup>52</sup>



## Our Approach to Missing Middle Housing

The following diagram illustrates the local range of Missing Middle housing types that Union Studio developed for the New England region. The types range in scale and density and can be used individually or in combination, depending on the size of the project. Here, the types are ordered approximately by dwelling units per acre. Types can additionally be clustered together, like with the cottage court, to achieve higher density. Each type is discussed in more detail on the following pages.

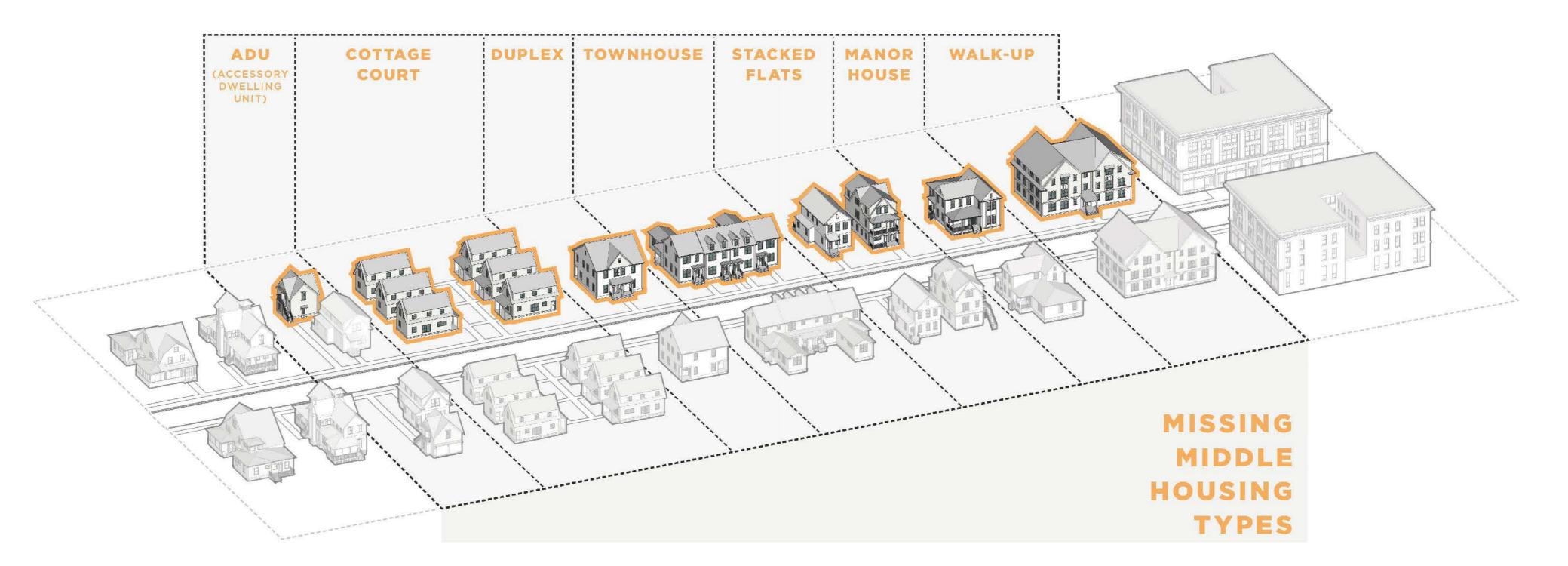




Figure 6-3. Missing Middle Housing Types



# But "good design" is very hard to regulate or mandate.

Hammetts Hotel Newport, RI



Possible Approaches

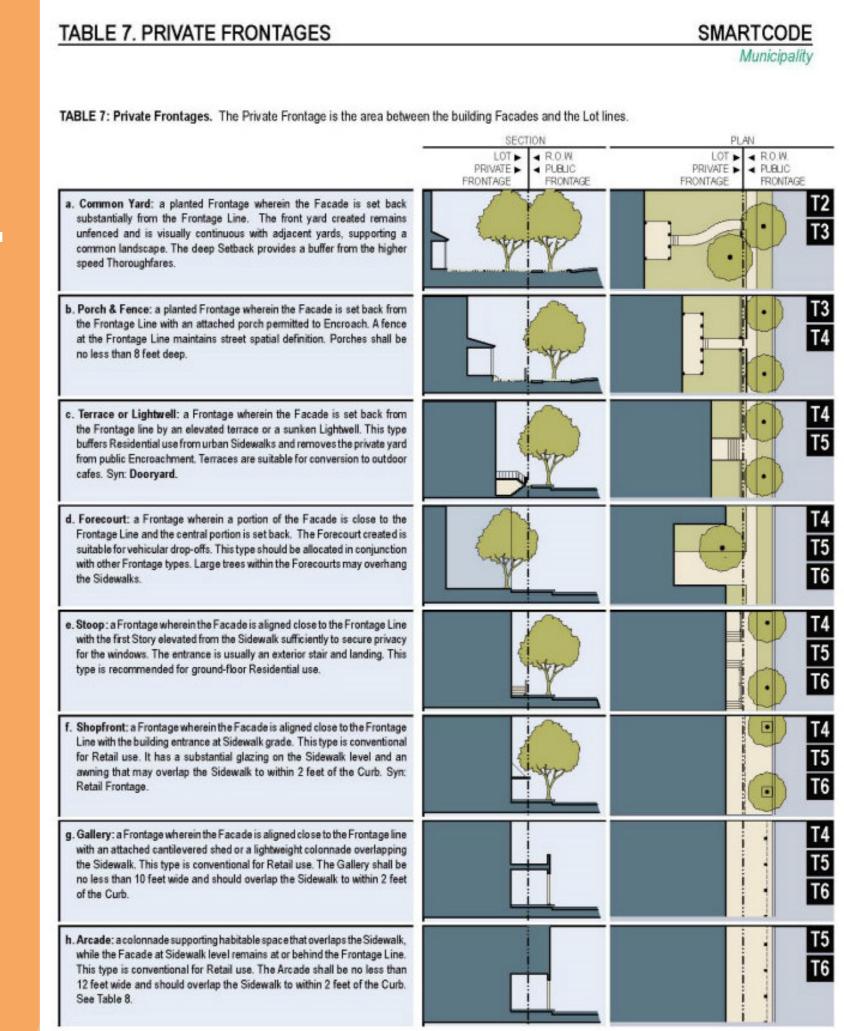




# Form-Based Codes seem to promise a way of getting appropriate design, but often too vague – and hard to implement.









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Design Guidelines can be effective if written correctly

**Difficult to** legally implement.

Can be a "soft ordinance" which enourages improved design

## SHANNOCK HISTORIC MILL VILLAGE



Photo: Aerial circa 1942 (The Hartford Courant, 1984)

DESIGN GUIDELINES FOR BUILDING IN THE VILLAGE

OCTOBER 30, 2010



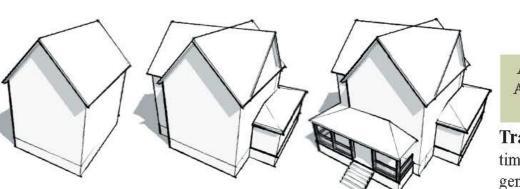
Horsley Witten Group ustainable Environmental Solutions Route 6A - Sandwich, MA 02563 - 508-833-6600 - fax-508-833-3150 Green Street • Newburyport, MA 01950 • 978-499-0601 • fax-978-499-0602 n Street • Newburyport, MA 01950 • 978-499-0601 • Tax-978-499-06 s Street • Providence, RI 02906 • 401-272-1717 • fax-401-439-8368



#### Shannock Historic Mill Village District



PROVIDENCE, RHODE ISLAND 02903-1714 T 401.272.4724 F 401.272.4825



The transformation of a simple primary volume with a succession of secondary elements.



Historic homes in the village have a variety of additions, including new porches, wings and dormers. The new spaces provide room for growth of the changing inhabitants or trends in residential amenities.

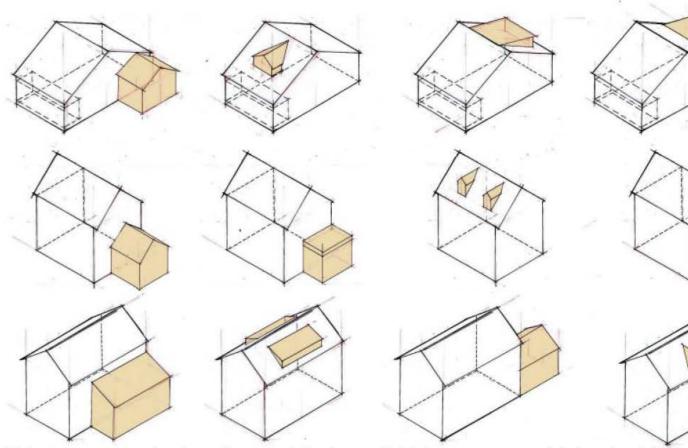
#### **SECONDARY** MASSING

#### ADDITIONAL FORMS CAN ADD INTEREST AND SPACE TO A SIMPLE BUILDING.

Traditional buildings change over time to accommodate the needs of new generations. Additions may provide for an expanding family, but always defer to the mass of the original home.

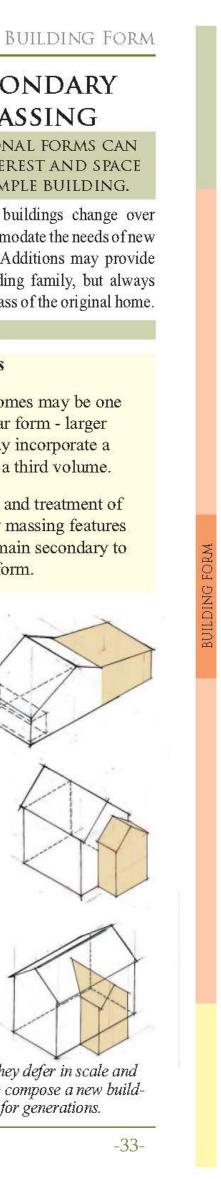
#### **Key Points**

- Smaller homes may be one single clear form - larger homes may incorporate a second or a third volume.
- The scale and treatment of secondary massing features should remain secondary to the main form.



Various ways to expand and transform an existing home. Additions are most successful when they defer in scale and proportion to the primary form of the original building. Secondary masses may also be used to compose a new building to create a modern structure with the character of a traditional home that has been around for generations.

DESIGN GUIDELINES



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Pre-designed, pre-approved building plans.

Helps empower small increment development.

More developers = more housing

#### South Bend Neighborhood Infill | Stacked Duplex

#### The Stacked Duplex

The Stacked Duplex provides two identical 2-bedroom units that support a slight increase of density and the development on the city's most narrow infill lots with affordable housing options. The massing and elevation options fit within the scale and vernacular character of South Bend's oldest urban neighborhoods. An optional basement could provide storage or expansion of the ground floor unit.

















Option C

| Building Type Overview                  |                       |
|-----------------------------------------|-----------------------|
| Building Dimensions                     |                       |
| Building Height                         | 2 story               |
| Building Width                          | 22                    |
| Building Depth (incl. porch)            | 48                    |
| Program                                 |                       |
| Unit Configuration                      | 2 bed / 1             |
| Unit Size (finished gross)              | 1,760 sq.             |
| Basement (unfinished)                   | 880 sq. ft            |
| Porch (unconditioned)                   | 176 sq. ft.           |
| 1st Floor                               | 880 sq. ft            |
| 2nd Floor                               | 880 sq. ft            |
| Lot Standards                           |                       |
| Lot Width (min.)                        | 32'                   |
| Lot Width (max.)                        | 70'                   |
| Cost Assumptions                        |                       |
| Preliminary Construction<br>Estimates ' | \$320,000<br>\$370,00 |
| Financing Options                       | 30-yr mo              |
| Numbers shown are for basic estimat     | on pupcies o          |

Pricing is based on Pall 2021 cost assumptions and are subject to future market variation



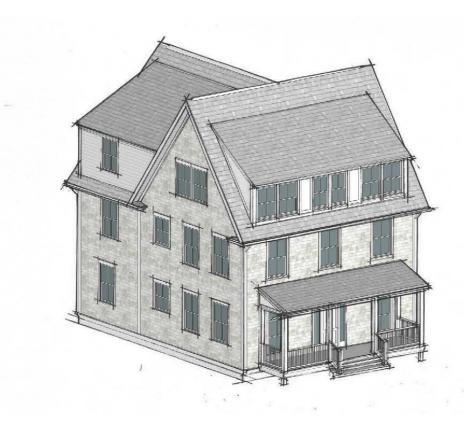




Pre-designed, pre-approved building plans.

Appropriate for accessory structures and single-family infill to small multi-family. UNION STUDIO

BUILDING TYPE:





#### Manor House

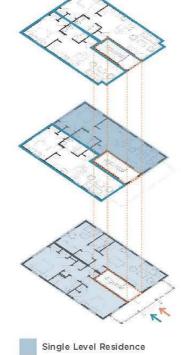
A manor house is a small-scale multi-family that looks like a large home.

- Typical Size: Usually 1.5 to 3 stories
- **Considerations:** Usually a large family home converted to smaller units.
- **Density:** 4 to 6 units per building / 5 to 12 dwelling units per acre









Multi Level Residence

#### UNION STUDIO

#### BUILDING TYPE:

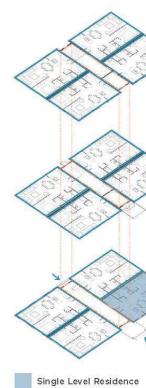




Walk-Up

Walk-ups are small scale multi-family buildings, which are commonly comprised of a series of flats with shared circulation

- Typical Size: Usually 2 to 3 stories
- **Considerations:** Typically comprised of studio and 1-bedroom units. Can be comprised of single-room occupancy or micro-units to achieve higher density.
- **Density:** 8 to 12 units per building / 5 to 25 dwelling units per acre



Multi Level Residence

64 MISSING MIDDLE

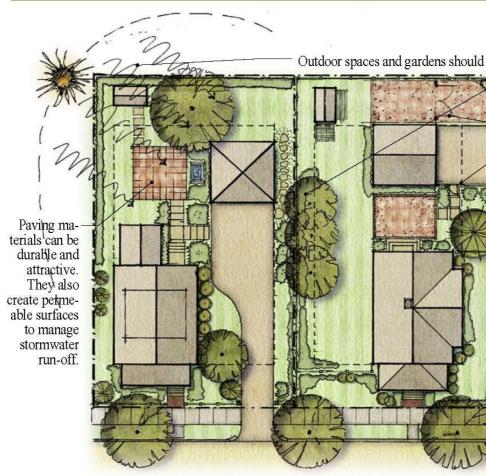
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Construction documents, combined with pre-approved generic site placement this would drastically simplify small scale new construction

Jamestown Vision Pattern Book





6.1 Simple fences, plantings and walls create small or large sanctuaries outside. A brick wall of a garage can be utilized as a backdrop for gardens. While an attractive masonry wall acts as an edge between neighbors, a well placed gate invites visitors inside.

#### AVOID

6.2 The lack of landscaping, both hard and vegetated, is visually unappealing and creates ill-defined spaces where nothing really takes place.





**Residential Design Guidelines** 



#### SITE CONFIGURATION

#### LANDSCAPING

#### Outdoor spaces and gardens should take full advantage of solar orientation.

Smaller trees provide visual screening between neighbors.

Fences and gates offer more opaque screenings and can help define outdoor areas.

A hedge defines an edge between the public and private realms.

#### Discussion

 Traditional neighborhood patterns in the United States rely heavily on the landscape to connect the edges and to define a satisfying public realm. Vegetation, walls, fencing and paving materials, and light constructions (i.e., trellises) can define edges, carve out outdoor spaces and enhance privacy.



#### JAMESTOWN VISION PATTERN BOOK

#### 4 Three structures frame backyard for privacy. Garage set back from front facade to prevent it from becoming dominant element along the streetscape. Se me

4.1 Auxiliary structures, although small, can be elegantly constructed and placed in a yard to complement the landscaping and other structures of the property. The garden shed (above right) was designed to complement the principal building since it was in a visible location from a busy sidewalk.

#### AVOID

4.2 Locating the garage doors in the same plane as the principal structure creates a very uninviting presence. The garages and homes become indistinguishable from one another.



**RESIDENTIAL DESIGN GUIDELINES** 

#### LOCATING STRUCTURES

Easy access to shed and utility area.

Courtyard between house and garage.

At corner lots, principal building anchors street corner.

#### Legend

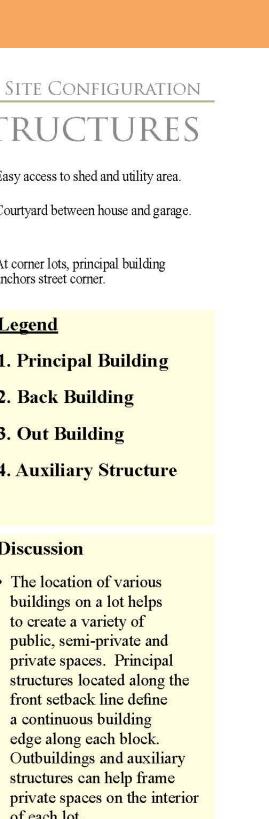
- **1. Principal Building**
- 2. Back Building
- 3. Out Building
- 4. Auxiliary Structure

#### Discussion

 The location of various buildings on a lot helps to create a variety of public, semi-private and private spaces. Principal structures located along the front setback line define a continuous building edge along each block. Outbuildings and auxiliary structures can help frame private spaces on the interior of each lot.

4.3 Conversely, the lack of structures on lots can create large voids and exposures between dwellings. Without these smaller structures, the lot may lack the sense of privacy that well-placed outbuildings can provide.







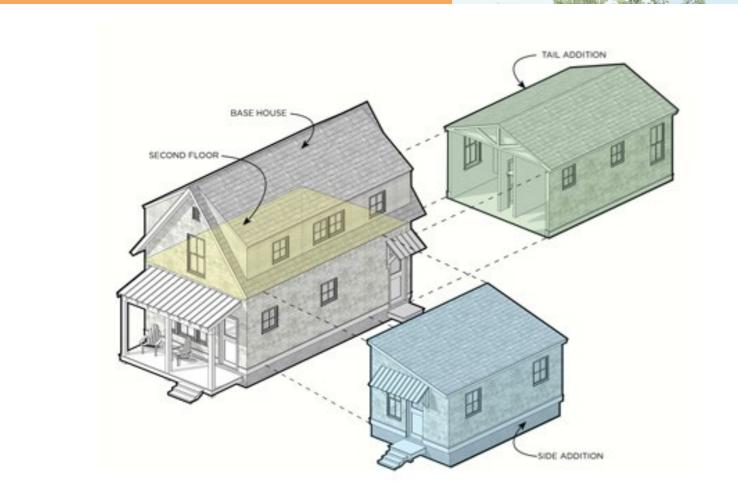


## Combine preapproval with additional uses.

## SIDE HUSTLE HOUSE

#### Eastham, MA

Buying your first house used to be a rite of passage, but it is no longer a realistic option for many Americans. There are many things causing the current housing crisis; the Side Hustle House was created so that design isn't one of them.



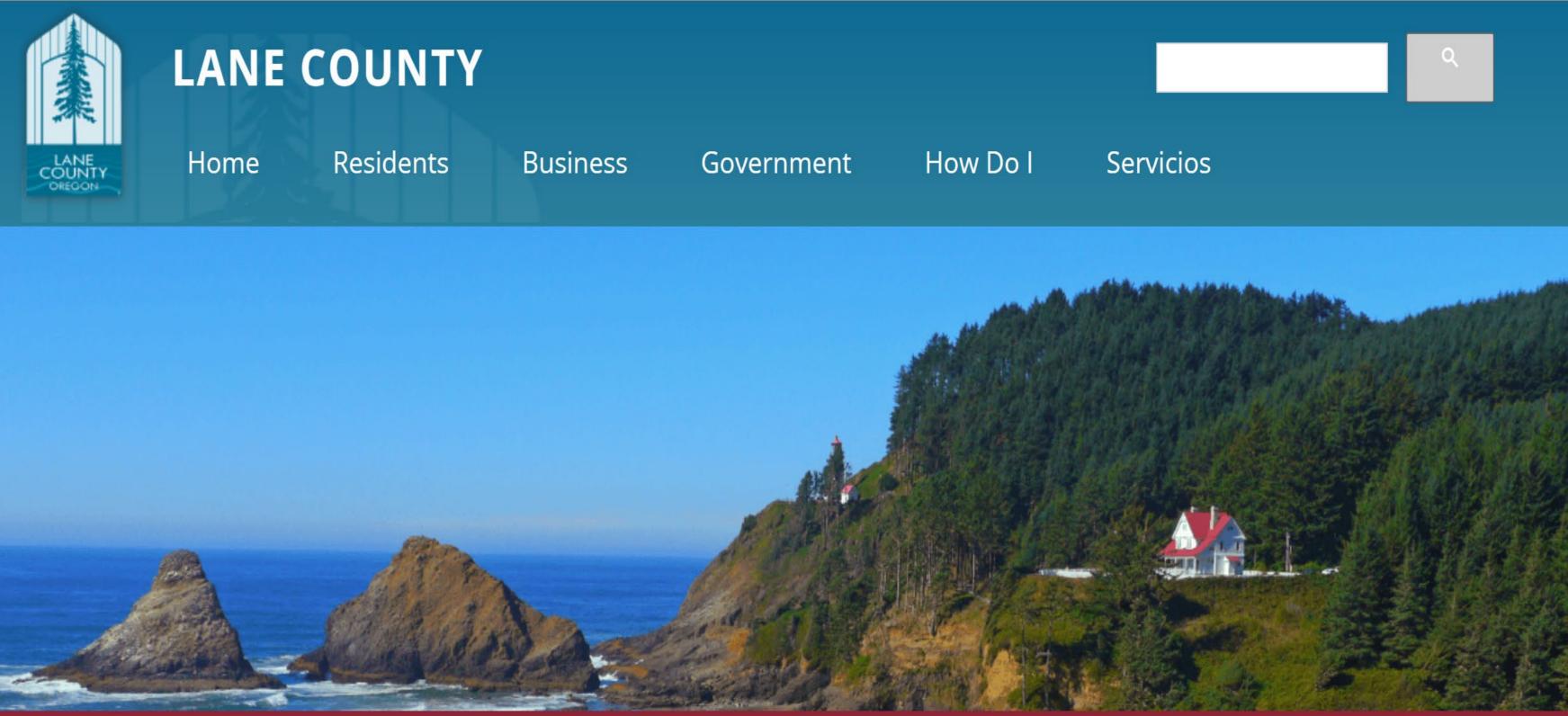
## Income increases affordability

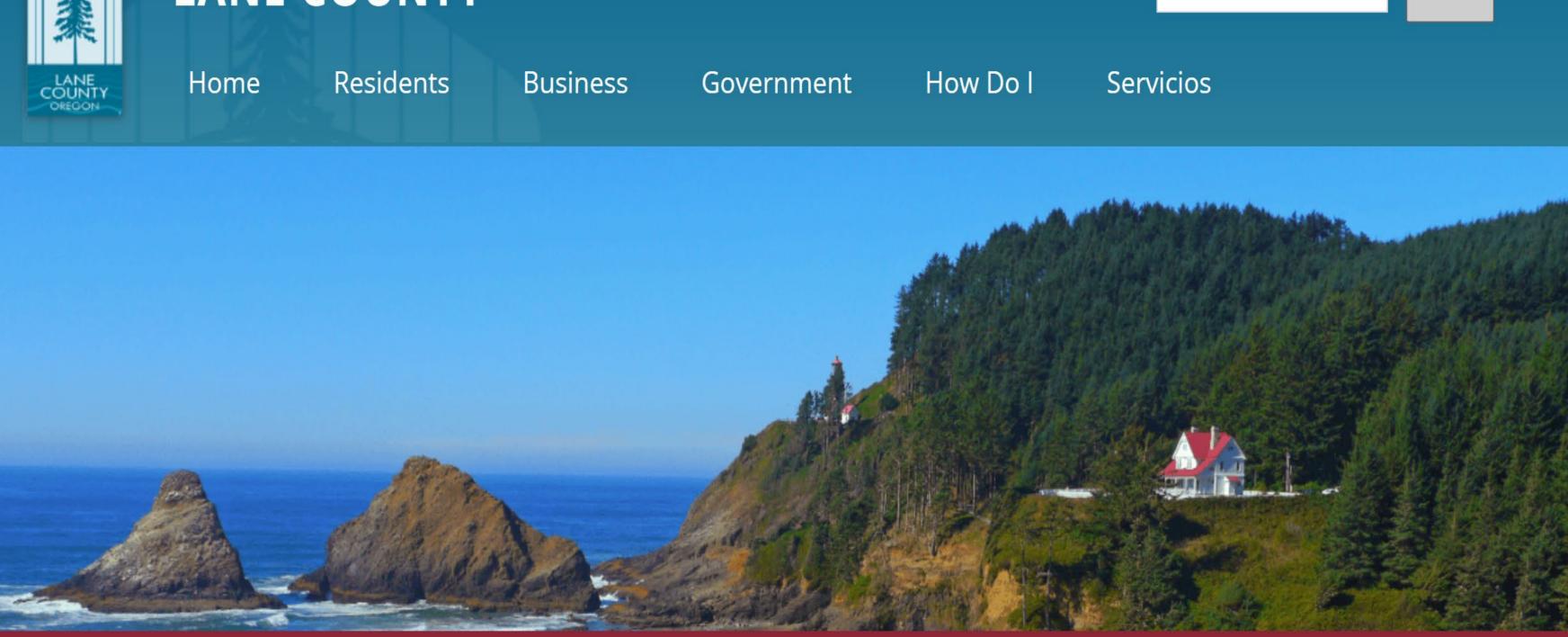






# **Pre-Approved** Infill Housing





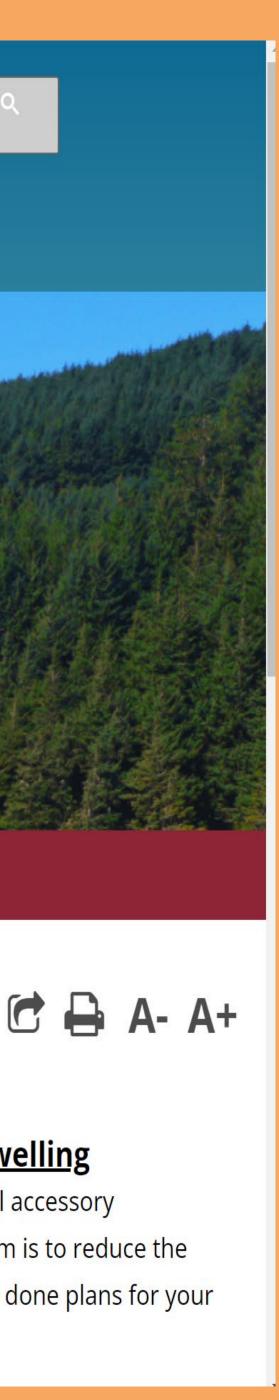
#### **BUILDING SAFETY**

Ready-Build Plans



Lane County / Government / County Departments / Public Works / Land Management / Building Safety / Ready-Build Plans

### **READY-BUILD PLANS**



#### <u>Pre-approved Plans for Residential Accessory Structures & a Single Family Dwelling</u>

As part of Oregon's Ready-Build Plans Program, you can download pre-approved plans for a residential accessory structures such as garages, carports, decks, patios and a single family dwelling. The goal of this program is to reduce the time it takes to issues these permits and the time it takes to have plans prepared by offering these pre done plans for your convenience.

"Predevelopment" of the community's most important sites.

Cocheco Waterfront, Dover, NH







# "Predevelopment" of the community's most important sites.



## SITE LAYOUT

MAY 19, 2017 SCALE: 1"=100'-0"





PAGE 3





The City intends to construct the public improvements themselves to add value and lock in the vision.



MAY 19, 2017 NOT TO SCALE





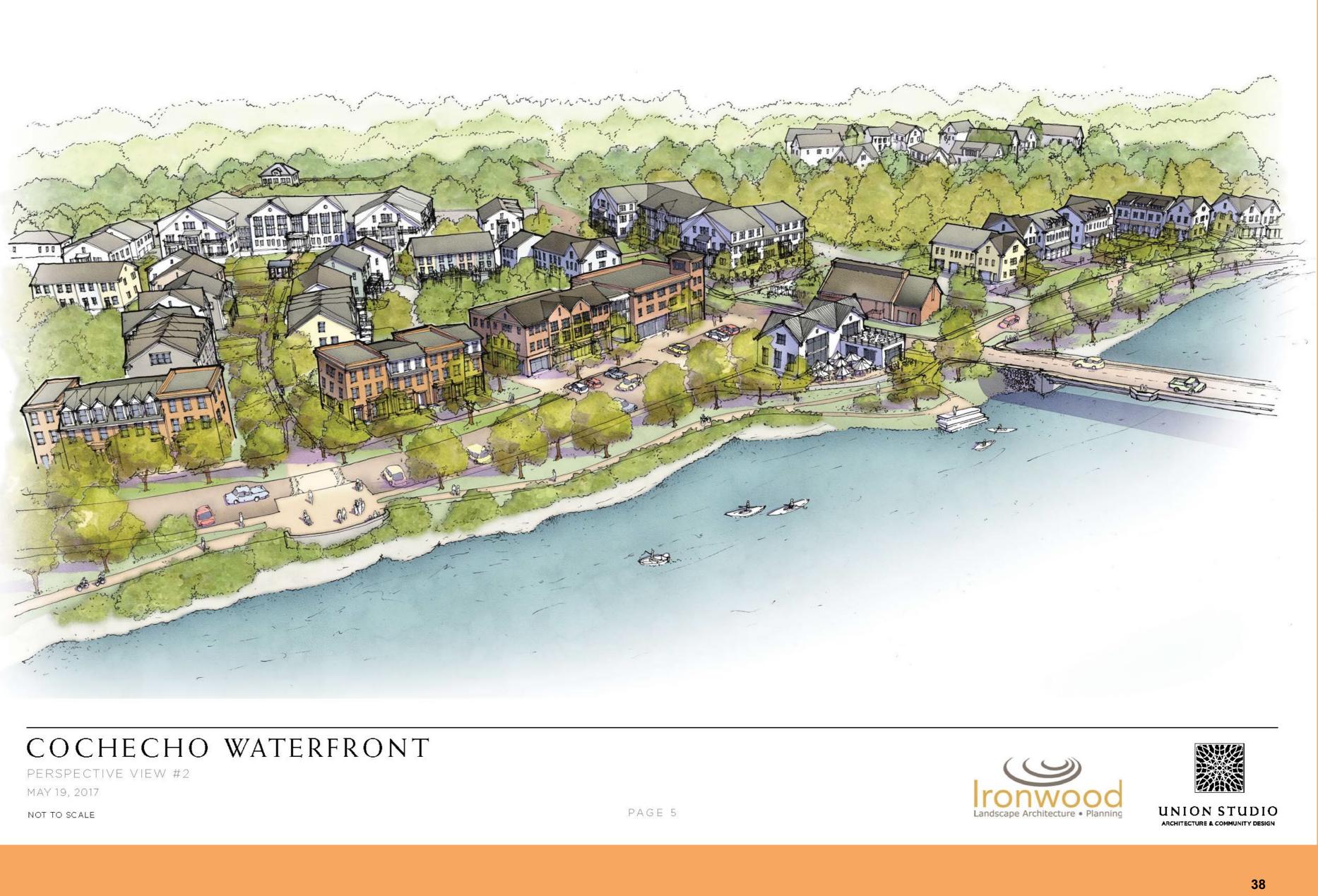
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Extensive public process at community expense.

Less risk and cost to developer, more consensus on result.









Public comment and review happens without the developer at the table.

More public confidence in the output.







Public comment and review happens without the developer at the table.

More public confidence in the output.





**But:** Must prove its economical feasibility with realistic cost assumptions and development proforma

#### SUMMARY PUBLIC IMPROVEMENT COST ESTIMATES - 3/22/17

|                                                      | Phase 1 & 1A (2)                         | Phase 3           | <u>Total</u>            | <u>P</u>                                                | Phase 1 & 1A (2)                 | Phase 3                                | Tota                           |
|------------------------------------------------------|------------------------------------------|-------------------|-------------------------|---------------------------------------------------------|----------------------------------|----------------------------------------|--------------------------------|
| PARK IMPROVEMENTS                                    | \$3,056,000                              | \$1,502,000       | \$4,558,000             | PARK IMPROVEMENTS                                       |                                  |                                        |                                |
|                                                      |                                          |                   |                         | ADA ACCESSIBLE PADDLE BOAT DOCK*                        | \$0                              | \$0                                    | \$150                          |
| NON-PARK IMPROVEMENTS                                | \$5,947,000                              | \$1,915,000       | \$7,862,000             | BOAT DOCKS                                              | \$128,500                        | \$194,800                              | \$323                          |
|                                                      | <i>t</i> • <i>j</i> • • <i>j</i> • • • • | +-,,              |                         | PARK INFRASTRUCTURE                                     | \$1,909,950                      | \$0                                    | \$1,909                        |
|                                                      | ¢ 400,000                                | ¢o                | ¢ 400,000               | PARK AMENITIES                                          | \$0                              | \$335,000                              | \$335                          |
| DREDGE CELL CLOSURE                                  | \$400,000                                | \$0               | \$400,000               | PARK BUILDINGS                                          | \$440,000                        | \$246,400                              | \$686                          |
|                                                      |                                          |                   |                         | MAGLARAS PARK CONNECTOR                                 | \$0<br>\$00.050                  | \$362,000                              | \$362                          |
| TOTAL PUBLIC IMPROVEMENTS                            | \$9,403,000                              | \$3,417,000       | \$12,820,000            | SOUTH PARK ELEMENTS                                     | <u>\$26,250</u>                  | <u>\$0</u>                             | \$26                           |
|                                                      |                                          |                   |                         | SUB TOTAL<br>7% DESIGN AND CONSTRUCTION OVERSIGHT       | \$2,504,700<br>\$175,220         | \$1,138,200<br>\$70,674                | \$3,792<br>\$255               |
| Note: All costs in unescalated 2017 dollars          |                                          |                   |                         | 15% CONTINGENT                                          | \$175,329<br>\$275,705           | \$79,674<br>\$170,720                  | \$255<br>\$546                 |
| Does not include costs of E-W Internal Mid-Block     | k Park, South Bluff-top land i           | improvements,     |                         | 12% PHASING PREMIUM (DESIGN AND MOBILIZATION)           | \$375,705<br>\$0                 | \$170,730<br>\$113 820                 | \$546<br>\$113                 |
| assumed to be borne by developer(s)                  |                                          |                   |                         | TOTAL PARK IMPROVEMENTS                                 | <u>\$0</u><br>\$3 055 734        | <u>\$113,820</u><br><b>\$1,502,424</b> | <u>\$113</u><br><b>\$4,708</b> |
| * Cost of paddle boat dock offset by grant = \$15    | 0,000                                    |                   |                         | less Grant Funding for Paddle Boat Dock                 | \$3,055,734<br>\$0               |                                        | <b>,4,700</b><br><u>-\$150</u> |
| ** Pre-construction Engineering & Soft Cost factor n | ot applied to South Riverfror            | nt Earthwork & W  | alls (Bluff Excavation) | TOTAL PARK NET OF GRANT                                 | <u>\$0</u><br><b>\$3,055,734</b> | <u>\$0</u><br>\$1,502,424              | <u>-9150</u><br>\$4,558        |
|                                                      |                                          |                   |                         |                                                         | ψ <b>0,000,70</b> <del>4</del>   | ψ1,302,424                             | ψ <del>4</del> ,000            |
| Public Improvements Bo                               | and Financir                             | ισ (in inf        | lated future            | NON-PARK IMPROVEMENTS                                   |                                  |                                        |                                |
| year \$)                                             |                                          | 18 (11 11)        | luteu juture            | NORTH                                                   |                                  |                                        |                                |
|                                                      | TT                                       |                   | Vaar                    | Streets & Utilities: Riverfront Street                  | \$1,585,000                      |                                        | \$1,585                        |
|                                                      | Union contra                             |                   | Y 2017,                 | Streets & Utilities: Washington Street Extension        | \$755,000                        | \$0                                    | \$755                          |
| Addtl Engineering/Soft Cos                           | -                                        |                   |                         | Streets & Utilities: Hillside Street                    | <i></i>                          | \$701,000                              | \$701                          |
|                                                      | O Addtl Engin                            | eering/So         | oft Costs,              | Parking Lot                                             | \$35,000                         | \$258,000                              | \$293                          |
| Ongoing South Earthwork                              |                                          |                   |                         | Shoreline Improvements                                  | \$180,000                        | \$60,000                               | \$240                          |
|                                                      |                                          |                   |                         | Earthwork & Walls                                       | <u>\$643,000</u>                 | <u>\$258,750</u>                       | <u>\$901</u>                   |
| • FY 2020 \$8,740,000                                | 0 Phase 1 &                              | 1A(2) (Riu        | er St N & S,            | North Subtotal                                          | \$3,198,000                      | \$1,277,750                            | \$4,475                        |
| Washington St), S. Earthwor                          |                                          |                   |                         | Pre-construction Engineering & Soft Costs (10%)         | \$319,800                        | \$127,775                              | \$447                          |
|                                                      | к, 2/31 ur к 1mpr                        | ovententis        |                         | Contingency (25%)                                       | \$799,500                        | \$319,438                              | \$1,118                        |
| $\mathbf{EV}$                                        |                                          | 1 1· <del>•</del> |                         | Phasing Premium (12%)                                   | . ,                              | <u>\$153,330</u>                       | <u>\$153</u>                   |
| • <u>FY 2025</u> \$4,330,000                         | <u>)</u> Phase 3 Pi                      | ublic Imp         | rovements               | Total with Soft Costs and Contingencies - North         | \$4,318,000                      | \$1,879,000                            | \$6,197                        |
| – Hillside St, parking lot, 1/                       | /3 Park Improv                           | ements            |                         |                                                         |                                  |                                        | ·                              |
| • Total \$14,870,000                                 |                                          |                   |                         | SOUTH RIVERFRONT                                        |                                  |                                        |                                |
|                                                      |                                          | ,                 |                         | Streets & Utilities: River Street Rebuild               | \$497,000                        |                                        | \$497                          |
| Private Development de                               | livered FY 2                             | 021 thr           | u FY                    | Shoreline Improvements                                  | \$70,500                         | \$23,500                               | \$94                           |
| 2027                                                 |                                          |                   |                         | Earthwork & Walls                                       | <u>\$862,000</u>                 |                                        | <u>\$862</u>                   |
| ,                                                    |                                          |                   |                         | South Subtotal Riverfront                               | \$1,430,000                      | \$24,000                               | \$1,454                        |
| TIF Analysis                                         |                                          |                   |                         | Pre-construction Engineering & Soft Costs (10%)**       | \$56,800                         | \$2,400                                | \$59                           |
| <ul> <li>Transfers from Gener</li> </ul>             | al Fund FY 2                             | 018 th            | 'll 2022                | Contingency (25%)*                                      | \$142,000                        | \$6,000                                | \$148                          |
| estimated to total \$96                              |                                          |                   | u 2022                  | Phasing Premium (12%)                                   |                                  | <u>\$2,880</u>                         | <u>\$2</u>                     |
|                                                      |                                          | · · · 1           | 11 1                    | Total with Soft Costs and Contingencies - South Riverfr | \$1,629,000                      | \$36,000                               | \$1,665                        |
| • Est. TIF revenues FY                               |                                          |                   | a bona                  |                                                         |                                  |                                        |                                |
| coverage ratio of appr                               | 0X. 1.8 - 2.0                            | )                 |                         | TOTAL NON-PARK IMPROVEMENTS                             | \$5,947,000                      | \$1,915,000                            | \$7,862                        |
| • Thereafter, coverage r                             | atio increases                           | by 0.04           | - 0.05 per              |                                                         |                                  |                                        |                                |
| • Thereafter, coverage r<br>year thru FY 2042, the   | en dramaticall                           | v as bong         | ls retire               | DREDGE CELL CLOSURE                                     | \$400,000                        | <b>\$0</b>                             | \$400                          |
| <ul> <li>Bluff-top developmen</li> </ul>             | t (not includ                            | led aboy          | ve) could               |                                                         |                                  |                                        |                                |
|                                                      |                                          |                   |                         | TOTAL PUBLIC IMPROVEMENTS                               | \$9,402,734                      | \$3,417,424                            | \$12,820                       |
| increase coverage by a                               | approx. 0.2                              |                   |                         |                                                         |                                  |                                        |                                |

- Land sales will provide additional revenues



#### **PUBLIC IMPROVEMENT COST ESTIMATES - 3/22/17**

#### Note: All costs in unescalated 2017 dollars

Does not include costs of E-W Internal Mid-Block Park, South Bluff-top land improvements, assumed to be borne by developer(s)

\* Cost of paddle boat dock offset by grant = \$150,000

\*\* Pre-construction Engineering & Soft Cost factor not applied to South Riverfront Earthwork & Walls (Bluff Excavation)

otal 50,000 323,300 909,950 335,000 686,400 362,000 <u>\$26,250</u> 792,900 255,003 546,435 113,820 708,158 50,000 558,158 585,000 755,000 701,000 293,000 240,000 <u>901,750</u> 475,750 447,575 18,938 53,330 97,000 497,000 694,000 362,000 454,000 \$59,200 148,000 <u>\$2,880</u> 65,000 362,000 00,000 20,158

# Thank You





