Market to Metacom: Climate Resilience and Economic Development Plan

EC4 June 23, 2022

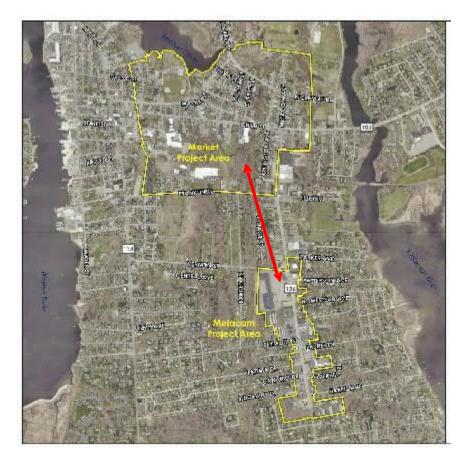
Butch Lombardi

Market to Metacom Project

Grant from Southeast New England Program (SNEP) of Restore America's Estuaries

Explore concept of linking the future of adaptation in Market Street area with redevelopment in Metacom Avenue corridor.





Methodology and Data

- Property/tax data Town of Warren
- GIS data Warren/State of RI
- Climate forecast: NOAA
- Sea level rise and storm data: StormTools
- Disaster impact estimates: FEMA and FloodFactor
- Road/bridge data RIDOT/Statewide Planning/national









RHODE ISLAND DIVISION OF PLANNING





Coastal Flooding Concerns

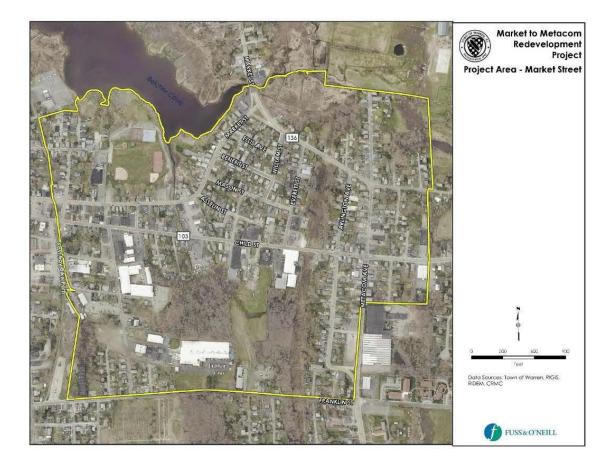
- Why is Warren doing this project at this time?
 - Climate change is bringing
 - rising sea levels
 - stronger storms
 - more intense precipitation events
 - Warren has done forecasting and planning for Town-wide impacts
 - Municipal Resilience Plan
 - Hazard Mitigation Planning
 - URI and UPenn Projects



Market Street - Project Area

Area contains approximately:

- 184 acres
- 400 buildings
- 700 housing units
- 30 businesses



1939 Aerial – Market/Child Streets





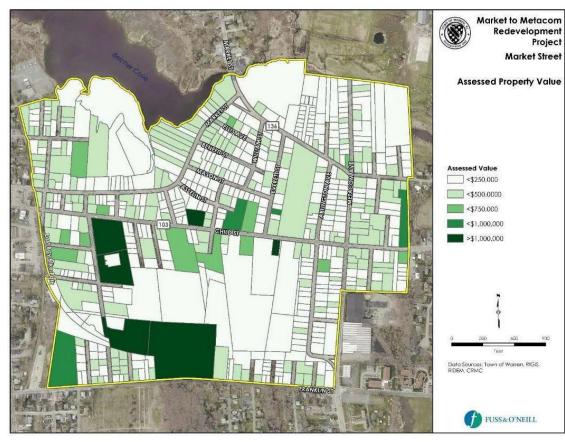
10/8/21@10:30 AM Photos from RI – Sea Grant Belchers Cove

Belchers Cove/Market Street

Market Street – Assessed Property Values

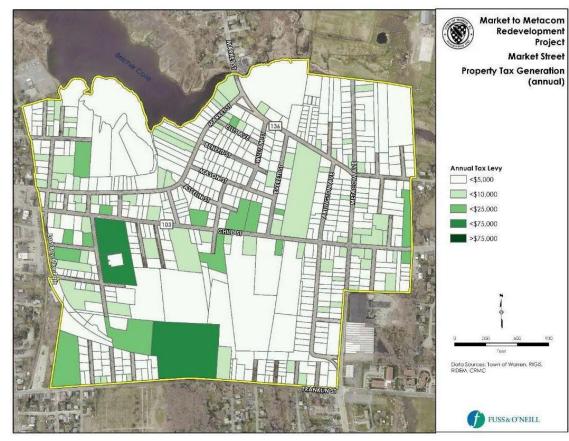
Total Assessed Value: \$138 million

- 586 parcels
- Average parcel value: \$236,000
 (2020 Revaluation)

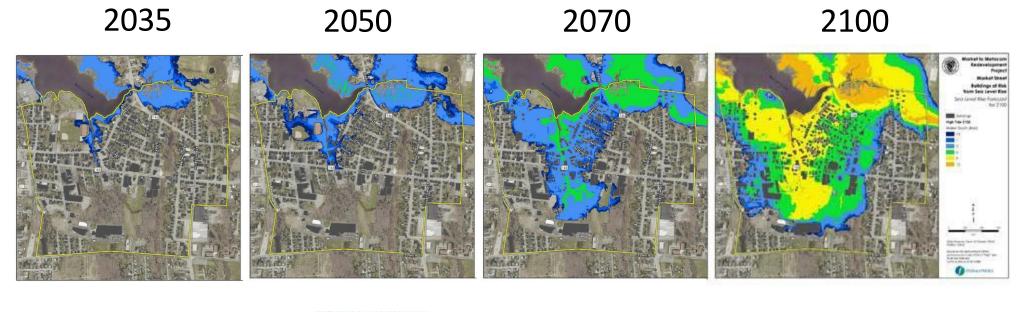


Market Street – Property Tax Generation (annual)

Total Annual Taxes to Town of Warren: \$2,401,000

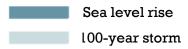


Market Street – High Tide Projections 2035-2100





SLR + 100-YEAR STORM





2035

2050

2100

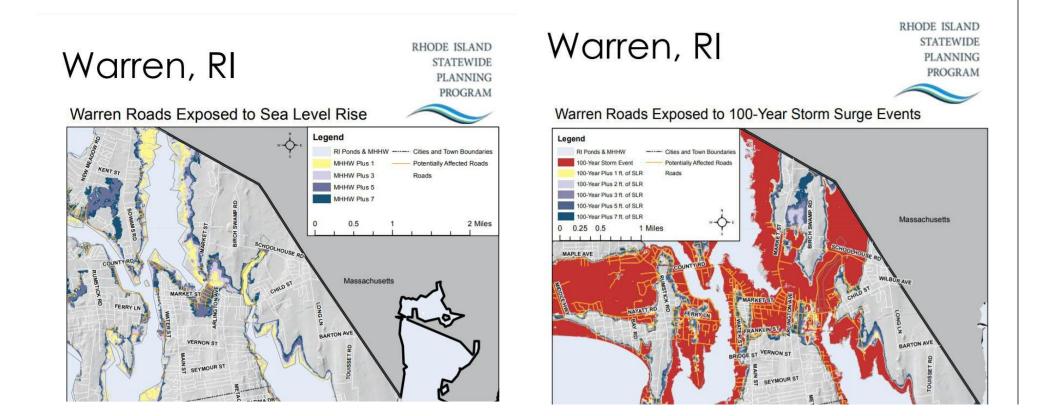
Source: Stormtools

Child Street – Route 103 Flooding

Stormwater flooding from 9/1/21 – Child Street

Impacts to Transportation Assets

CF2



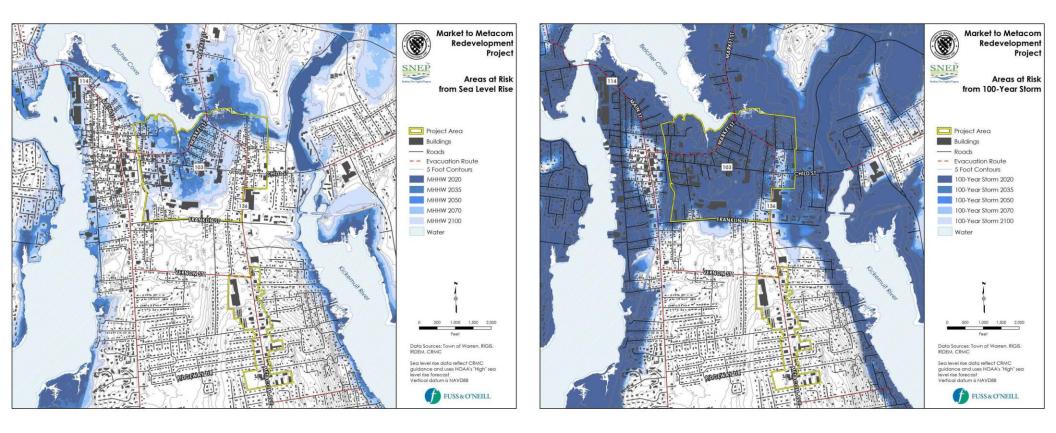
RI DOT and the Town of Warren are developing a road adaptation strategy template that can be replicated throughout the State and the Region.

No Action Scenario - ASSUMPTIONS

- Town of Warren takes no actions to prepare for climate change impacts
- State agencies and utilities take no action to prepare for climate change impacts
- Sea level rise per NOAA forecasts:
 - 1' rise by 2035
 - 3' rise by 2050
 - 6' rise by 2070
- Increase (in frequency and severity) to historical averages of precipitation and storm events
 - Hurricanes
 - Nor'easters
 - Seasonal precipitation



No Action Scenario – FLOODING OVERVIEW



No Action Scenario – 2035

200 400 900 1200 Feet Data Sources: Own of Warten, RIGS, RIDEA: CHINC Sale level file data reflect CRIVC guidance and uses NOAA's High's soa level file forecost Vertical data will use NAVASB	Building Loss Cost	\$8,100,000*
from Sea Level Rise Sea Level Rise Forecast for 2035 Buildings High Tide 2035 Water Depth 6 teet 0 feet	Lost Annual Tax Revenue	\$200,000*
	Residents Displaced	86
	Housing Units Lost	57
	Buildings Flooded	31
Market to Metacom Redevelopment Project Market Street Buildings at Risk	Properties Flooded	58

* Current numbers, not adjusted

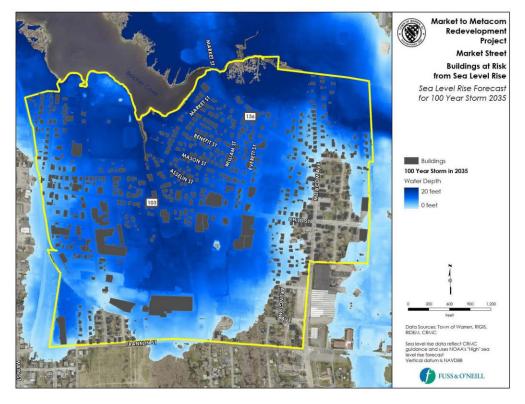
No Action Scenario – 2050

	Market to Metacom Redevelopment Project Market Street Buildings at Risk	Properties Flooded	75
	from Sea Level Rise Sea Level Rise Forecast for 2050	Buildings Flooded	65
	Buildings High Tide 2050 Water Depth 7 feet 0 feet	Housing Units Lost	121
		Residents Displaced	182
		Lost Annual Tax Revenue	\$300,000*
	Data Sources: Town of Warren, RIGS, RIDEN. CRIV.C guidance and uses NOAN's TRyn' iso terminic and uses NOAN's TRyn' iso terminic datum is NAVD88 FOR FUSS & O'NEILL	Building Loss Cost	\$16,600,000*

* Current numbers, not adjusted

CF7

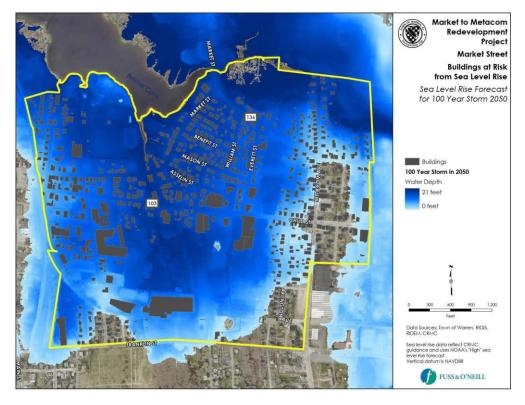
No Action Scenario – 2035 – 100 Year Storm Event



Total Flood Impacts	\$8,900,000*
Lost Business Revenue	\$5,400,000
Damage	\$3,500,000

* Current numbers, not adjusted

No Action Scenario – 2050 – 100 Year Storm Event



Damage	\$8,500,000
Lost Business Revenue	\$3,600,000
Total Flood Impacts	\$12,100,000*

* Current numbers, not adjusted

No Action Scenario – COSTS SUMMARY

Time Period	2025-2035	2035-2050	2050-2070	2070-2100	Total by 2100
Properties Flooded by Sea Level Rise	58	75	113	137	383
Buildings Flooded by Sea Level Rise	31	65	92	118	306
Building Loss Cost	\$8,100,000	\$16,600,000	\$23,000,000	\$38,100,000	\$85,800,000
Damage from 24" Flood Event	\$3,500,000	\$8,500,000	\$13,100,000	\$27,500,000	\$52,700,000
Lost Business Revenue from 24" Flood Event	\$5,400,000	\$3,600,000	\$22,000,000	\$95,200,000	\$126,300,000

No Action Scenario – ROADWAY IMPACTS

- Market, Child and Rte. 136 are flooded during 100-year storm events
- Market Street at Redmond is flooded every day (by 2035)
- Child Street (Rte. 103) is flooded every day (by 2050)
- Rte. 136 at Belcher Cove Bridge is flooded every day (by 2050)

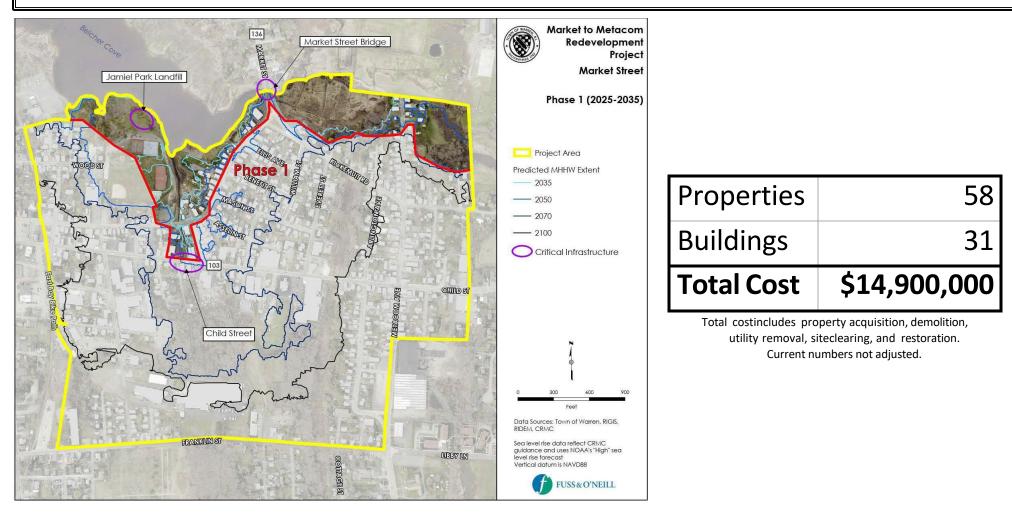


Phased Relocation and Restoration Scenario - ASSUMPTIONS

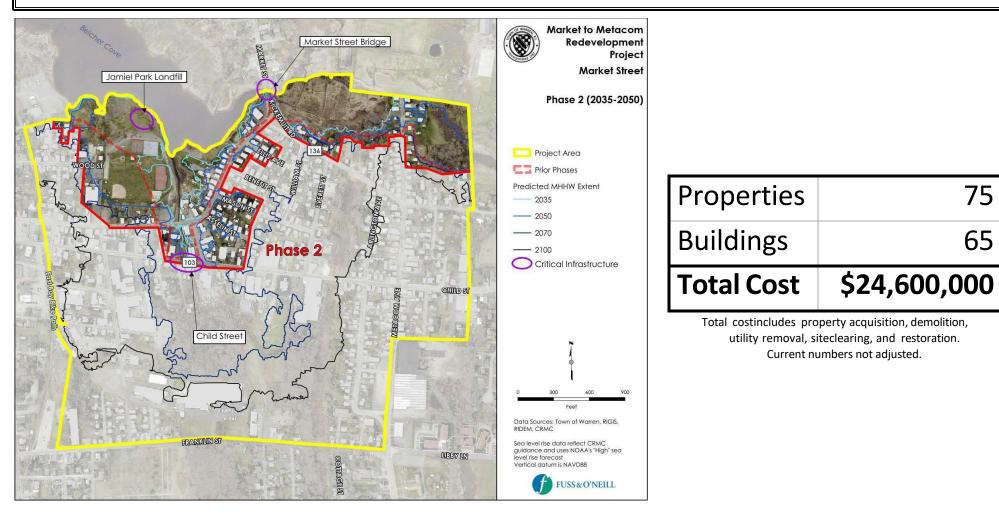
- Occurs in 4 Phases over 50-70 years
- Buy-outs of properties in danger of repetitive flooding and storm damage
- Removal of most local streets
- Removal of most utilities
- Restoration of wetlands for protective buffering and flood storage
- Adaptation of State roadways to protect transportation connections



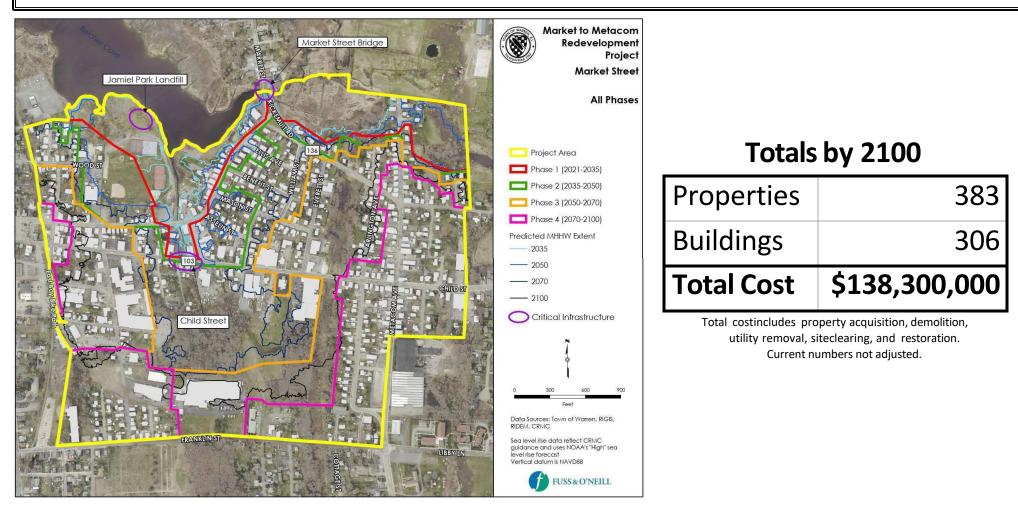
Phased Relocation and Restoration – PHASE 1 (2025-2035)



Phased Relocation and Restoration – PHASE 2 (2035-2050)



Phased Relocation and Restoration - SUMMARY



Phased Relocation and Restoration – Impervious Removed

	Market to Metacom Redevelopment Project Market Street Impervious Area	Phase	Impervious Area Removed (Acres)	Marshland Created (Acres)
	Impervious Area	1	8	34
	54% Pervious Project Area Phase 1 (2021-2035)	2	10	21
	Phase 2 (2035-2050) Phase 3 (2050-2070) Phase 4 (2070-2100)	3	17	42
	2 200 400 400 500 Feet Data Sources: Town of Warren, RIGIS.	4	29	56
	RIDEM, CRIVC Sea level fise data reflect CRIVC guidance and uses NOAA's "High" sea level fise forecast Vertical datum is NAVD88	Total	63	153

Phased Relocation and Restoration Scenario – AVAILABLE FUNDING

- EPA: Pre-Disaster Mitigation Grants
- FEMA: BRIC Program Building Resilient Infrastructure and Communities
- Army Corps Of Engineers
- US Dept. of Agriculture
- RI Infrastructure Bank
- Tax Increment Financing (TIF)

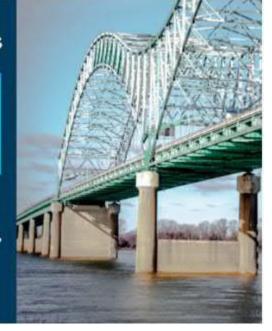
FEMA to open up more money for resilience projects

\$400 million+

Building Resilient Infrastructure and Communities (BRIC) program, expected annual funding

> **\$56 million** Predisaster Mitigation Program, on average from 2009-2016

\$400M figure depends on disaster expenditures and is at the discretion of FEHA.



Special Legislative Commission to Study the Rhode Island Lowand Moderate-Income Housing Act

Robert Rulli, Director Office of Planning & Community Development Town of Warren

December 2, 2021



Metacom Avenue – Project Area

•Area contains approximately:

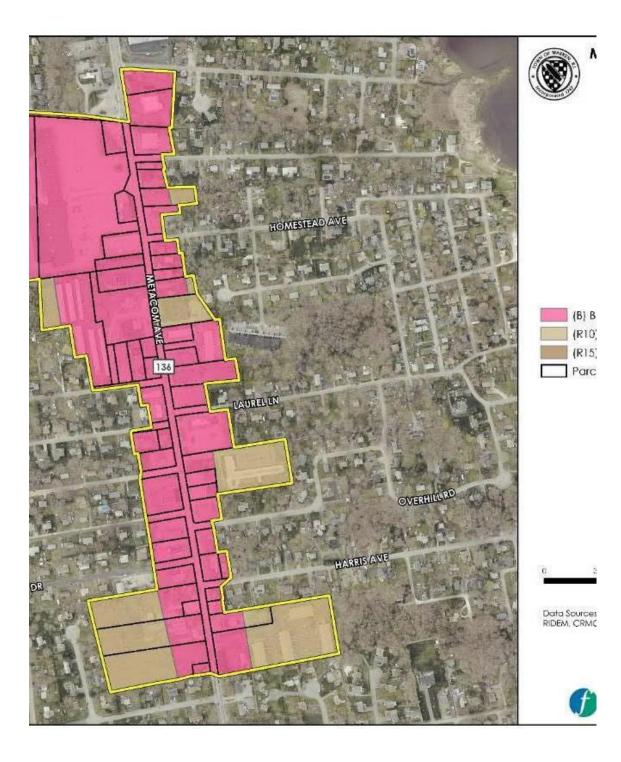
- 81 acres
- 54 buildings •
- 66 housing units •
- 50 businesses •





Redevelopment Project **Project Area Metacom Avenue**





Metacom Avenue – Zoning & Land Use

- Land Use:
- Comm/Indust: 39%
- Single family: 23%
- Multi-family: 12%
- Vacant (improved): 13%
- State/Utility: 7%
- Vacant (unimpr): 6%







Existing Conditions



MARKET TO METACOM



PAGE R

Job Lot Plaza Site



MARKET TO METACOM

8

STREETATIVE BURHER



PROGRAM A Performing Arts Center - 33,500 gsf 500 750 seat theatre @ 18,500 gsf Parking and service below @ 15,000 gsf

Job Lot Plaza Site

Metacom Avenue Redevelopment Scenario



Blocks A and B

	BlockA	Block B
Civic or Institutional	(N/A)	(N/A)
Commercial	13,000 sf	9,600 sf
Residential: Multi-Family	74 units	20 units
Residential: Single-Family	12 units	(N/A)
Total Residential Units	86 units	20 units
Total Parking Spaces	135	48

Metacom Avenue Redevelopment Scenario

Blocks C and D

		Block C	Block D
	Civic or Institutional	(N/A)	33,500 sf
Block D'	Commercial	24,000 sf	27,500 sf
The street street	Residential: Multi-Family	72 units	159 units
Block "C"	Residential: Single-Family	33 units	20 units
Metacom Avenue Metacom Avenue	Total Residential Units	105 units	179 units
	Total Parking Spaces	210	470

Metacom Avenue Redevelopment Scenario

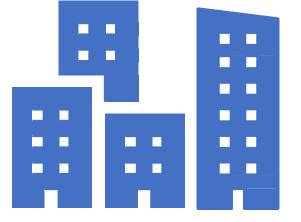


Blocks E and F

	Block E	Block F
Civicor Institutional	(N/A)	(N/A)
Commercial	10,400 sf	23,000 sf
Residential: Multi-Family	25 units	102 units
Residential: Single-Family	3 units	(N/A)
Total Residential Units	28 units	102 units
Total Parking Spaces	70	197

Metacom Avenue Redevelopment Scenario - Totals

Parcel	Commercial (square footage)	Residential Units	Existing Value	Future Value	Existing Property Tax Payment	Future Property Tax Payment	Increase in Taxes to Town
A - Pasqua/Healey	13,000	86	\$1,288,200	\$15,198,855	\$22,363	\$264,460	\$242,097
B - Ridgeway and Canario	9,600	20	\$936,900	\$3,460,567	\$16,265	\$60,214	\$43,949
C- CVS block	24,000	105	\$6,736,900	\$17,792,728	\$116,953	\$309,593	\$192,641
D - Job Lot Plaza	27,500	179	\$7,545,600	\$37,006,435	\$130,992	\$643,912	\$530,295
E - Patterson-Homestead	10,400	28	\$1,497,000	\$5,934,071	\$25,988	\$103,253	\$77,265
F - AT&T Block	23,000	102	\$4,019,500	\$13,479,109	\$69,778	\$234,537	\$164,758
TOTALS	107,500	520	\$22,024,100	\$92,871,765	\$382,338	\$1,615,969	\$1,251,005



Form Based Code: What is it?

- Form Based Code (FBC) is an alternative zoning district that allows for the regulation of development that helps a community realize its vision for a specific area.
- While existing zoning focuses on separating land uses (i.e., residential, commercial, industrial) it does little to encourage an integrated approach to development.
- FBC helps regulate land development and redevelopment bey setting careful and clear controls on building form, rather than focusing strictly on types of land use.
- FBC typically allows for more density than existing zoning districts.
- FBC clearly defines requirements for building heights, building and parking placement, architectural features, as well as standards for sidewalks street trees, parking and public spaces.
- A mix of affordability is required for housing units.
- It also can provide a less intensive/ expensive option than current Planning & Zoning Review.
- FBC can also provide financial incentive by offering a faster and more streamlined approval process.
- Benefits to FBC include a more predictable outcome due to formdriven zoning requirements.
- The Town and the community each benefit from managed growth and public improvements that are aligned with a collective vision for the future.

Advantages of Form Based Code

Revitalization of 1960's era park in the front, one-story, architecturally insignificant buildings



Intelligent increase of density

Improvements to infrastructure



Increased housing opportunities, mixed income, rental & ownership



Preserves historic character of Downtown Warren, takes development pressure away from eastern portion of town, respects surrounding neighborhoods



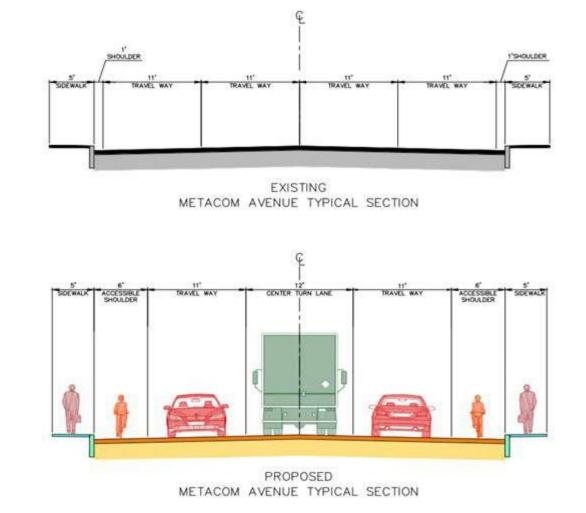
Increases tax revenues

What is Tax Increment Financing (TIF)	Financing method to incentivize economic development
	Allows some or all of future property tax revenues from new development to be dedicated to support infrastructure, projects and programs related to economic development
	Property tax <u>increment</u> can be used to help finance <u>public</u> and <u>private</u> development costs

Portion of incremental revenues not dedicated for TIF is used for general fund and once TIF expires, all revenues go to general fund.

Metacom Avenue Reconfiguration

- Maintains existing curb lines/utilities/stormwater
- One travel lane in each direction
- Center turn lane
- Accessible shoulders for bike
- Improved sidewalks for pedestrians



Metacom Avenue Stormwater Retrofits

- Opportunity to improve water quality impacts to Kickemuit and Warren River
 - Redevelopment of privately owned parcels
 - RI DOT improvement of State roads
 - Town-owned properties and streets



Metacom Avenue Stormwater Retrofits

• Reduce water velocity



Project Website https://bit.ly/M2M-Warren