

Study Process





Revenue Requirements

Rate Design

- Operating Costs
- Set Objectives
- Capital Costs
- Identify Options
- Financial Policies
- Quantify Impacts

Revenue Requirement

Rate Design Module

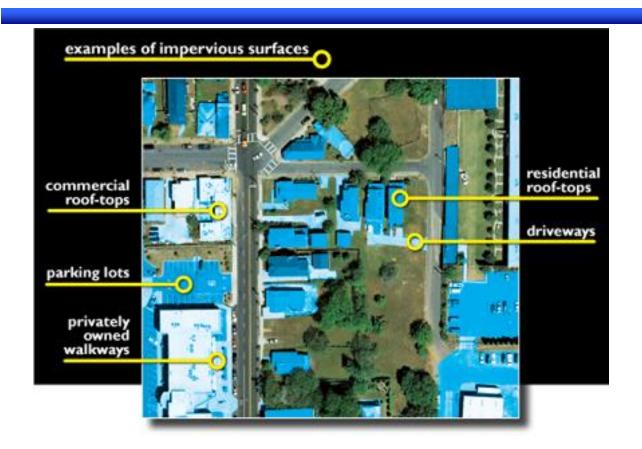
Revenue Sufficiency & Financial Planning Module

Integrated Modeling System

- Industry leading dynamic control panel design
 - Side-by-side scenario comparisons
 - Control of key inputs
- Use of consistent format across all enterprise funds
- Modular process maximizes efficiency and completeness
- Adjusted to match City source data & output formats

CAM #16-0577

Current Rate Structure



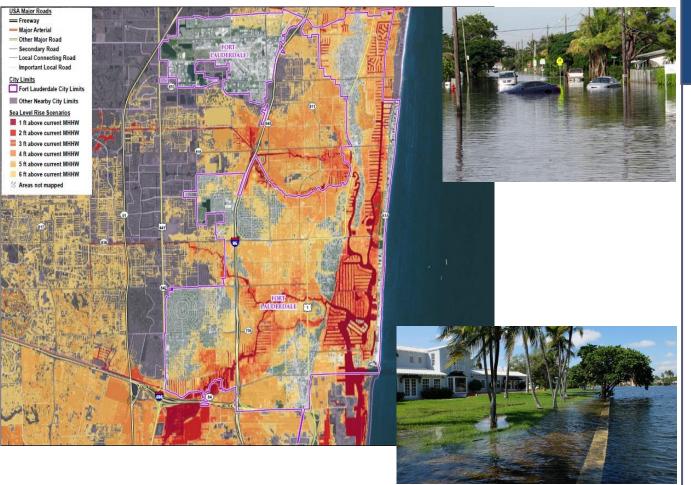
Rate Category Category I - Residential Lot/Parcels (3 Or Less Units) Category II - Lots/Parcels Other Than Category I Category III - Unimproved Land FY 2016 Rate \$6.00/Unit \$2,776,894 \$60.48/Acre \$5,250,079 \$473,027 Total

Contribution Method (Impervious Area)

- Rates based on the relative contribution by customer class, determined by sampling
- Easy to implement rate structure and the most common in use
- Creates complex administrative credit system to address onsite attenuation

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Current Stormwater System



System Observations

- The current system has two types of stormwater events:
 - tidally driven
 - precipitation driven
- The stormwater system is designed and constructed to address road flooding not private property
- Areas exhibiting tidal flooding are identifiable using GIS resources

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Building Blocks of a New Rate Structure

ITE's Trip Generation Handbook¹



Current state-of-thepractice for estimating trip generation for Traffic Impact Analysis

Includes:

- · Methodology
- ~160 land uses
- ~550 locations
- ~5,000 points



Example Property Types

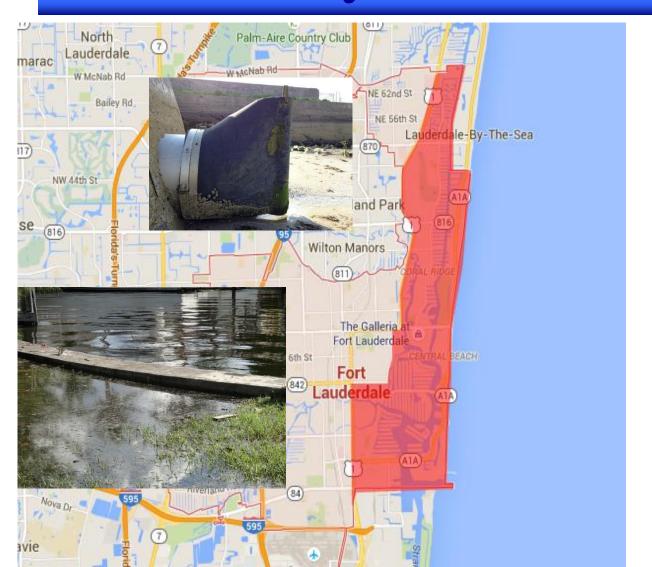
	Trip Generation		
DOR Code	Rate	Unit of Measurement	ERU
Single Family	290	Unit	1.00
Supermarkets	1,120	SQFT	3.86
Regional Shopping Centers	442	SQFT	1.52
Professional services building	335	SQFT	1.16
Light manufacturing	211	SQFT	0.73
Multi-family – 10 units or more	202	Unit	0.70

Rate Structure Goals

- Rates need to be tailored to form a nexus to customer benefit
- Trip generation rates provide granular data connecting property use to a specific benefit of maintaining clear roadways
- The Property Appraiser data base allows for the identification and application of specific customer rates
- The common unit of trips generated allows for the expression of rates in equivalent residential unit (ERU) terms

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Tidally Influenced Areas



Rationale Behind Bifurcation

- Areas exhibiting tidal flooding are identifiable using GIS Technology
- Tidally influenced areas receive increased benefit from tidal migration assets
- Tidally related cost are expected grow (5% of current budget) and are identifiable in both the operating and capital budgets

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Rate Structure

Representative Revenue Requirement

	Operating Budget	Base operation	Tie	r 1 (Base Operations)	Tier	2 (Tidal Operations)
\$	16,582,390	95%	\$	15,824,424	\$	757,967
В	illing Units					
		ERU's		219,784		63,164
	Estimated Month	ly Fee Per ERU	\$	6.00	\$	1.00

FY 2016 Monthly Bill for Single Family								
	Tier 1 (Base Fee)		Tier 2	(Tidal Fee)	Total Bill			
West of Federal Highway	\$	6.00	\$	-	\$	6.00		
East of Federal Highway	\$	6.00	\$	1.00	\$	7.00		

Rate Structure Attributes

- Addresses unique connection of system function and customer benefit
- Provides flexibility to address both precipitation and tidally influenced challenges
- Utilizes existing data sources to simplify and enhance customer understanding as well as administration

Example Bills For Each Customer Class								
		Current Charges FY 16 Proposed Base Charge		Charge	Proposed Tidal Charge (East of Fed. Hwy.)			
	Land Use	Total Charge	Base	Total	Change in	Tidal	Total Base +	Change in
Customer Type			Charge		Charge	Charge	Tidal	Charge
Residential	Single Family	\$ 6.00	\$ 6.00	\$ 6.00	\$ -	\$ 1.00	\$ 7.00	\$ 1.00
Multifamily	Multi-family-10 units or more	\$ 84.80	\$ 334.34	\$ 334.34	\$ 249.54	\$ 55.72	\$ 390.07	\$ 305.27
Commercial	Stores, 1-story	\$ 13.03	\$ 19.57	\$ 19.57	\$ 6.54	\$ 3.26	\$ 22.83	\$ 9.80
Government	Municipal other than parks, recreational areas, colleges, hospitals	\$ 272.49	\$1,433.74	\$1,433.74	\$ 1,161.25	\$ 238.96	\$ 1,672.70	\$ 1,400.21
Industrial	Warehousing, distribution terminals, trucking terminals, van & storage warehousing	\$ 104.26	\$ 36.57	\$ 36.57	\$ (67.69)	\$ 6.09	\$ 42.66	\$ (61.60)
Institutional	Churches	\$ 132.75	\$ 107.14	\$ 107.14	\$ (25.62)	\$ 17.86	AM #16-0 12/1/ 99	\$ (7.76)

Discussion

