



# **Condition of Facilities**

- In FY 2015, General Services utilized technical experts to assess facilities (assets) and their components.
- General Services now utilizes software which enables staff to manage the long term planning and budgeting for capital replacement.
- This assessment provides a framework for decision making similar to T&ES Pavement Condition Index.

# **Facility Condition Index (FCI)**

#### Grade/Health of an Asset

Ratio of Capital replacements and the Current Asset Replacement Value

FCI= Capital Replacements (Requirements)
Systems (Current Replacement Value)



## **Snapshot of City Owned Facilities**

## All City Owned Facilities

- 123 City owned facilities
- Average age of 57 years old
- 12 (10%) Facilities over 100 years old, of those 5 are over 200 years old
- Newest facility is Fire Station 210, built in 2014

## Facilities Assessed in FY2015 (Phase 1 of 4)

- 36 City owned facilities
- Average age of 72 years old
- 8 (22%) Facilities over 100 years old, of those 5 are over 200 years old
- Newest facility is the new DASH facility, built in 2008

## **FY2015 Facility Assessment**









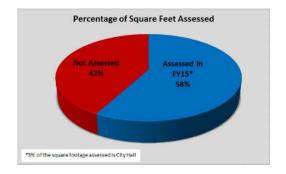




	Business Center Dr
Alex	kandria Community
She	Iter/Substance Abuse Facility
Ame	erican Legion
Apo	thecary Museum
Arch	nives and Records
Barr	ett Library
Bea	tley Library
Blac	k History Museum
Burk	ce Library
Cha	rles Houston Recreation
City	Hall
Cou	rthouse
Dun	can Library
Flee	et Services Division
Flor	a Casey Clinic
Fort	Ward Museum
Frie	ndship Firehouse
Fue	I Island - Duke Street
Gad	sby's Museum
Gad	sby's Restaurant
Hea	Ith Department
Lloy	d House
Lyce	eum
Mar	ket Square Parking Garage
Nev	v DASH Building
Old	DASH Building
Pist	ol Range
Pub	lic Safety Center
Que	en Lee Parking Garage
T&E	S Impound Office
T&E	S Maintenance Division
T&E	S Traffic Shop
Torp	edo Factory
Unio	on Station
Vola	Lawson Animal Shelter

Watson Reading Room

#### 36 of 123 (29%) City Facilities Assessed for 1.27 Million Square Feet



#### **Future Assessments**

#### FY16 Assessments

#### FY17 Assessments

#### Chinquapin Rec Center

Fire Station 201 Fire Station 202

Fire Station 204

Fire Station 205

Fire Station 206

Fire Station 207

Fire Station 208

Fire Station 209

Adult Daycare

**Buddy Ford Center** 

Charles Barrett Rec Center

Cora Kelly Rec Center

Courthouse Garage

**Durant Recreation Center** 

Fire Training

Lee Center

Mount Vernon Rec Center

Nannie Lee Rec Center

Nick Colasanto Center

Old Animal Shelter

Ramsay House

Ramsay Rec Center

Thompson Alley Parking Garage

#### FY18-20 Assessments

#### **FY18**

APD

APD Garage

FS210

#### **FY19**

No Building Assessments this Fiscal Year

Conducting feasibility study for Courthouse and Layout Study/Design for

T&ES Shop

#### **FY20**

Start of the new

assessment cycle

NOT ASSESSING UNTIL NEW ASSESSMENT CYCLE STARTS IN FY20

Patrick Henry FS203 **Canine Facility** 

## **FY2015 Facility Assessment Results**



#### Grade - A



Charles Houston

New DASH Building	0.00
Charles Houston Recreation Center	0.02
Business Center Drive	0.03
T&ES Maintenance Division	0.04
Queen Lee Parking Garage	0.06
Burke Library	0.08
Friendship Fire House	0.08
T&ES Impound Office	0.09

#### Grade - B



Beatley Library

Lyceum	0.11
Vola Lawson Animal Shelter	0.11
Union Station	0.12
Beatley Library (Central)	0.13
Duncan Library	0.14

#### Grade - C



Barrett Libra

Deliver Ellery	
Barrett Library	0.27
Torpedo Factory	0.30
Watson Reading Room	0.31
Market Square Parking Garage	0.31
Public Safety Center (PSC)	0.32
Fort Ward Museum	0.32
Lloyd House	0.35
Apothecary Museum	0.39

#### Grade - D



Courthous

Alexandria Community Shelter/Substance Abuse Facility	0.42
Pistol Range	0.44
Achives and Records Center	0.48
Fleet Services Division	0.49
Black History Resource Center	0.52
Courthouse	0.59
T&ES Traffic Shop	0.60

#### Grade - F



City Ha

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City Hall	0.63
Fuel Island - Duke Street	0.66
Gadsby's Tavern Museum	0.70
Old DASH Building	0.71
Flora Casey Clinic	0.74
Health Department	0.75
American Legion	0.77
Gadsby's Tavern Restaurant	1.13

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## FY 2015 Assessment Overview Phase 1 (36 of 3 Facilities)

- \$136 million to get Grade A buildings today (FY 2017).
  - Current approved for FY 2017 \$2.6 million
  - Additional needed \$133.4 million
- \$272 million to get Grade A buildings at the end of ten years.
  - Current approved for 10 years \$56 million
  - Additional needed \$216 million
- \$157 million to get Grade C buildings at the of ten years.
  - Current approved for 10 years \$56 million
  - Additional needed \$101 million

### Examples of Major Capital Replacements Identified City Hall - 1873 (143 years old with major additions/ renovations completed in 1940 and 1980)

Solid Brick Wall - 1873 mortar replacement Estimated Cost - \$3.6 million



- · Age 143 years old
- · Average life expectancy 75 years

Boiler - Gas fired Estimated Cost - \$200,000



- · Age 70 years old
- · Average life expectancy 30 years

Structural Capacity - Failing throughout building
Estimated Cost - \$2.9 million



Spanning between Iron Beams



Rafters at the exterior wall



Wood Truss in attic



Unsupported rafters in attic

#### Steel Windows Replacement - 1960 windows Estimated Cost - \$470,000



- · Age 56 years old
- Average life expectancy 30 years

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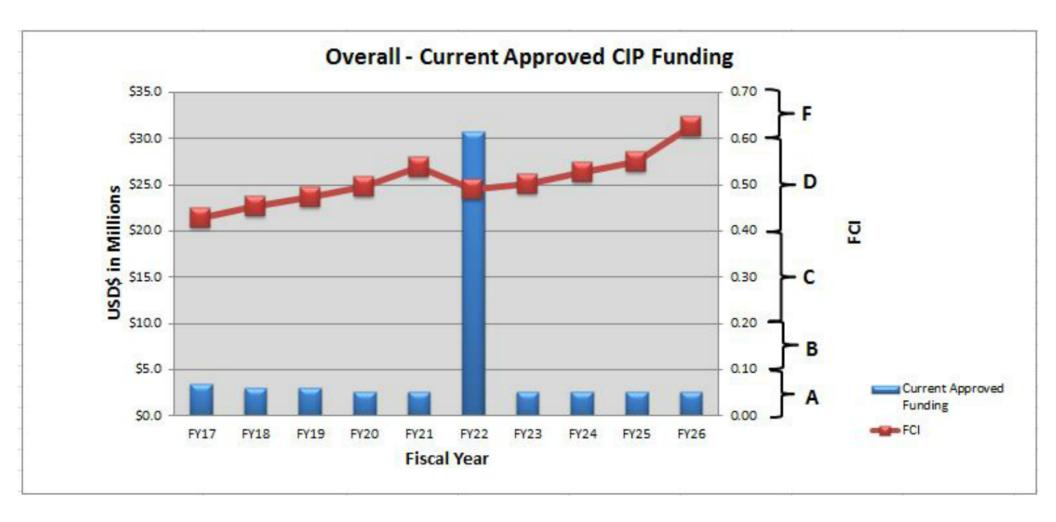
# Current Approved CIP Funding Levels City Hall - Current Grade F



Total Invested over 10 Years	\$30M
Resulting FCI	Grade C - 0.23

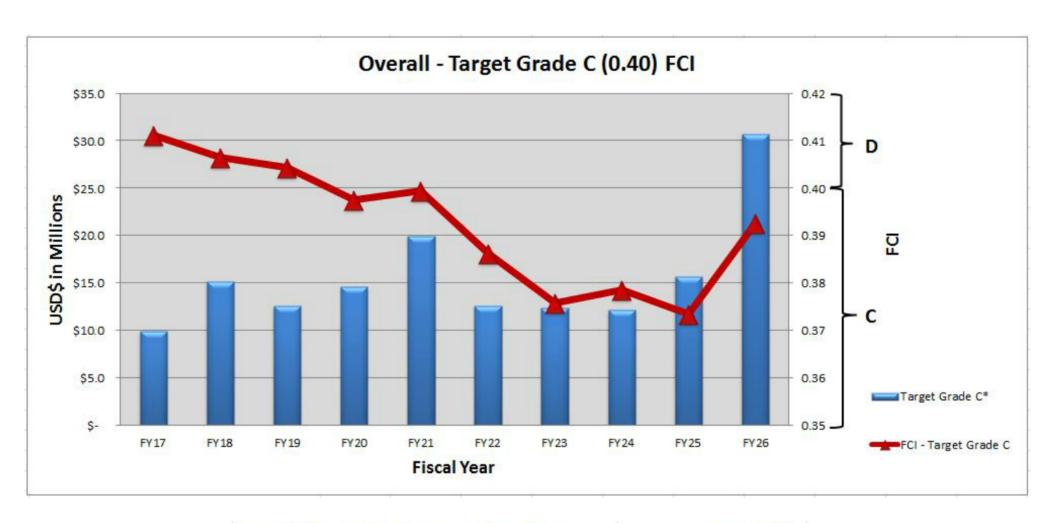
## **Current Approved CIP Funding Levels**

Facilities Assessed in Phase 1



Total Invested over 10 Years	\$56M
Resulting FCI	Grade F - 0.63

# Funding Needed for Grade C (0.40) FCI in 10 Years Facilities Assessed in Phase 1



Total Invested over 10 Years	\$157M
Resulting FCI	Grade C - 0.40

# Comparative Look Current Approved Funding vs Funding to Target a Grade C (0.40) FCI at the end of 10 Years

#### Facilities Assessed in Phase 1



Total Invested over 10 Years (current)*	\$56M
Resulting FCI	Grade F - 0.63
Total Invested over 10 Years(target)*	\$157M
Resulting FCI	Grade C - 0.40
Additional Funding Needed*	\$101M

## **Summary**

- Current 10 year approved FY 2016 CIP Budget is \$56M. The resulting FCI Grade at the end of 10 years will be an F.
- To achieve an overall Grade A (0.10) for Phase 1 (36 of 123) facilities at the end of 10 years, an additional \$216M is required.
- To achieve an overall Grade C (0.40) for Phase 1 (36 of 123) facilities at the end of 10 years, an additional \$101M is required.

