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2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Technical Engineering Services HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000138		
Project Description						
Technology professional services to support both capital and operating expenses.		City Council District				
		Location	B,E,I	Address Descr 2:		
		Served:	W	Zip Codes:		
		Key Map:		Category:		
		Location Code:	UA-00	Sub-Category:		
Project Justification						
Project required to assist HAS in research, landing, design, and implementation of minor technology initiatives.		Units:	0			
		Start Year:	2016			
		RCC Total	\$	RCA Total	\$	

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design	25,360							25,360
Construction	867							867
Equipment Acquisition								
Salary Recovery								
Other			2,120				2,120	2,120
Total Allocation	26,228		2,120				2,120	28,348
Source of Funds								
8011 - HAS-Airports Improvement	26,228		2,120				2,120	28,348
Total Funds	26,228		2,120				2,120	28,348

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Miscellaneous Construction HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000348	
Project Description					
Project provides funds for construction services to perform minor wall/door relocations, minor carpet replacements, and limited scope construction for airlines/other tenants.		City Council District			
		Location	B,E,I	Address Descr 2:	
		Served:	ALL	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Project provides for unforeseen construction requirements at each of the three airports to maintain safety and efficient customer/tenant services.		Units:	0		
		Start Year:	2016		
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design	1,046							1,046
Construction	16,077	515	530	545	560	575	2,725	18,802
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation	17,123	515	530	545	560	575	2,725	19,848
Source of Funds								
8011 - HAS-Airports Improvement	17,123	515	530	545	560	575	2,725	19,848
Total Funds	17,123	515	530	545	560	575	2,725	19,848

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Civic Art for Aviation-HAS HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000422	
Project Description					
Incorporate artwork in building projects planned for public use.		City Council District			
		Location	B,E,I	Address Descr 2:	
		Served:	W	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Projects needed to incorporate art work in building projects planned for public use.		Units:	0		
		Start Year:	2016		
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design	11,955	1,355				1,355	13,310	
Construction		863	5,928	1,082		2,074	9,947	
Equipment Acquisition								
Salary Recovery								
Other							0	
Total Allocation	11,955	2,218	5,928	1,082		2,074	11,302	23,257
Source of Funds								
8011 - HAS-Airports Improvement	11,955	2,218	5,928	1,082		2,074	11,302	23,257
Total Funds	11,955	2,218	5,928	1,082		2,074	11,302	23,257

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: General Environmental Services - HAS GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000423	
Project Description					
Rehabilitate and/or replace the IAH storm water pollution control systems' structures utilizing the best management practices to maintain compliance with the Texas Commission on Environmental Quality (TCEQ), Texas Point Discharge Elimination System (TPDES) and Storm Water Pollution Prevention Plan (SWPPP).		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Existing storm water pollution control structural systems (environmental lift stations at IAH do not meet current capacity and operational requirements to ensure continued compliance with TCEQ, TPDES, and SWPPP requirements.		Units:	0		
		Start Year:	2016		
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design	1,286							1,286
Construction		5,704					5,704	5,704
Equipment Acquisition								
Salary Recovery								
Other								0
Total Allocation	1,286	5,704					5,704	6,990
Source of Funds								
8011 - HAS-Airports Improvement	1,286							1,286
R&R		5,704					5,704	5,704
Total Funds	1,286	5,704					5,704	6,990

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Ground Transportation Mgmt System-GBIAH GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000437	
Project Description					
Provide ground transportation with a location and facilities for taxi cab drivers while they wait for their turn to enter the airport terminal area.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	AI.E442.1	Sub-Category:	
Project Justification					
Taxi cab drivers need a place to relax prior to entering the queue.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		175					175	175
Construction		1,622					1,622	1,622
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		1,797					1,797	1,797
Source of Funds								
8011 - HAS-Airports Improvement		1,797					1,797	1,797
Total Funds		1,797					1,797	1,797

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Various Bldg & Supt Sys-Central FIS-IAH GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000447	
Project Description					
HAS Asset Management performed assessments of various building and building support systems to determine the condition of the inspected assets and to estimate the rehabilitation and replacement needs of those assets.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
The Asset Management System (AMS) project funds the rehabilitation and replacement of selected assets and systems.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		2,941				2,941	2,941	
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		2,941				2,941	2,941	
Source of Funds								
R&R		2,941				2,941	2,941	
Total Funds		2,941				2,941	2,941	

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Cup 480-Volt Distribution System WILLIAM P. HOBBY AIRPORT		Project No.		A-000448	
Project Description					
The existing Room 161 480-Volt electrical distribution system has numerous operating system deficiencies and is space-constrained and cannot be expanded to serve the needs of additional Airport facilities.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
This project funds an initial phased-replacement of the existing Room 161 electrical infrastructure and repairs/replaces existing priority deficiencies to maintain a safe electrical distribution system for the Hobby terminal concourse.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		7,416					7,416	7,416
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		7,416					7,416	7,416
Source of Funds								
8011 - HAS-Airports Improvement		7,416					7,416	7,416
Total Funds		7,416					7,416	7,416

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Various Bldg & Supt-Roadways-IAH GEORGE BUSH INTERCONTINENTAL AIRPORT	Project No.	A-000456	
Project Description			
HAS Asset Management performed assessments of various building and building support systems to determine the condition of the inspected assets and to estimate the rehabilitation and replacement needs of those assets.	City Council District		
	Location	B	Address Descr 2:
	Served:	W	Zip Codes: 77032
	Key Map:		Category:
	Location Code: UA-00		Sub-Category:
Project Justification			
The Asset Management System (AMS) project funds the rehabilitation and replacement of selected assets and systems.	Units:	0	
	Start Year:		
	RCC Total	\$	RCA Total \$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		318		472			790	790
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		318		472			790	790
Source of Funds								
R&R		318		472			790	790
Total Funds		318		472			790	790

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Various Bldg & Supt Sys-Infrastruct-IAH GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000458	
Project Description					
HAS Asset Management performed assessments of various building and building support systems to determine the condition of the inspected assets and to estimate the rehabilitation and replacement needs of those assets.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
The Asset Management System (AMS) project funds the rehabilitation and replacement of selected assets and systems.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction			18,891			18,891	18,891	
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation			18,891			18,891	18,891	
Source of Funds								
R&R			18,891			18,891	18,891	
Total Funds			18,891			18,891	18,891	

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Various Bldg & Supt Sys-Airfield-IAH HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000461	
Project Description					
HAS Asset Management performed assessments of various building and building support systems to determine the condition of the inspected assets and to estimate the rehabilitation and replacement needs of those assets.		City Council District			
		Location	B,E,I	Address Descr 2:	
		Served:	W	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
The Asset Management System (AMS) project funds the rehabilitation and replacement of selected assets and systems.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction				6,417			6,417	6,417
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation				6,417			6,417	6,417
Source of Funds								
8011 - HAS-Airports Improvement				209			209	209
R&R				6,208			6,208	6,208
Total Funds				6,417			6,417	6,417

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Term A N&S 480-Volt Distribution Sys GEORGE BUSH INTERCONTINENTAL		Project No.		A-000465	
Project Description					
The existing electrical service vault switchgear and 480-volt distribution systems serving the Terminal A North and South concourses are operating well beyond anticipated service life. The equipment is obsolete with repair parts no longer being manufactured.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
This project funds the replacement of the service entrance switch gear and the 480-volt distribution systems within Terminal A North and South terminal concourses to maintain service reliability and adequate customer service.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		2,060				2,060	2,060	
Construction		18,540				18,540	18,540	
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		20,600				20,600	20,600	
Source of Funds								
8011 - HAS-Airports Improvement		20,600				20,600	20,600	
Total Funds		20,600				20,600	20,600	

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Various Bldg & Supt Sys-Main Term-Hou HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)	Project No.		A-000474	
Project Description				
HAS Asset Management performed assessments of various building and building support systems to determine the condition of the inspected assets and to estimate the rehabilitation and replacement needs of those assets.	City Council District			
	Location	B	Address Descr 2:	
	Served:	W	Zip Codes:	
	Key Map:		Category:	
	Location Code:	UA-00	Sub-Category:	
Project Justification				
The Asset Management System (AMS) project funds the rehabilitation and replacement of selected assets and systems.	Units:	0		
	Start Year:			
	RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		5,160	478				5,638	5,638
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		5,160	478				5,638	5,638
Source of Funds								
R&R		5,160	478				5,638	5,638
Total Funds		5,160	478				5,638	5,638

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: PN 604A Inter-Terminal Train-Repairs GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000477	
Project Description					
Professional engineering services for the evaluation of existing conditions and design services for emergency repairs of the Inter Terminal Train (ITT) and the rehabilitation of critical infrastructure at George Bush Intercontinental Airport (IAH).		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Storm water is infiltrating into the ITT level through the expansion joints which could increase the corrosion potential of the reinforced concrete, damage the structural integrity of the tunnel and reduce the overall life of the structure.		Units:	0		
		Start Year:	2016		
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design	500		1,060			5,750	6,810	7,310
Construction				9,810			9,810	9,810
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation	500		1,060	9,810		5,750	16,620	17,120
Source of Funds								
8011 - HAS-Airports Improvement	500					5,750	5,750	6,250
R&R			1,060	9,810			10,870	10,870
Total Funds	500		1,060	9,810		5,750	16,620	17,120

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Various Bldg & Supt Sys-Utilities-Hou WILLIAM P. HOBBY AIRPORT		Project No.		A-000478	
Project Description					
HAS Asset Management performed assessments of various building and building support systems to determine the condition of the inspected assets and to estimate the rehabilitation and replacement needs of those assets.		City Council District			
		Location	I	Address Descr 2:	
		Served:	W	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
The Asset Management System (AMS) project funds the rehabilitation and replacement of selected assets and systems.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction			2,420				2,420	2,420
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation			2,420				2,420	2,420
Source of Funds								
R&R			2,420				2,420	2,420
Total Funds			2,420				2,420	2,420

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Various Bldg Supt Sys-EFD ELLINGTON AIRPORT		Project No.		A-000480	
Project Description					
HAS Asset Management performed assessments of various building and building support systems to determine the condition of the inspected assets and to estimate the rehabilitation and replacement needs of those assets.		City Council District			
		Location	E	Address Descr 2:	
		Served:	W	Zip Codes:	77034
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
The Asset Management System (AMS) project funds the rehabilitation and replacement of selected assets and systems.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction			963				963	963
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation			963				963	963
Source of Funds								
R&R			963				963	963
Total Funds			963				963	963

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Various Bldg Supt Sys-APM-IAH GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000492	
Project Description					
HAS Asset Management performed assessments of various building and building support systems to determine the condition of the inspected assets and to estimate the rehabilitation and replacement needs of those assets.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
The Asset Management System (AMS) project funds the rehabilitation and replacement of selected assets and systems.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		4,120					4,120	4,120
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		4,120					4,120	4,120
Source of Funds								
R&R		4,120					4,120	4,120
Total Funds		4,120					4,120	4,120

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: APM Guide Way Structural Enhancements GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000494	
Project Description					
This project updates the control system for the Automated People Mover (APM) and moves the control system from Terminal B to the APM maintenance facility. The hardware and software which controls the APM is antiquated.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
The hardware and software which controls the APM are so old that the software program which normally updates systems like the APM will not load on our system.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		2,507				2,507	2,507	
Construction			29,608			29,608	29,608	
Equipment Acquisition								
Salary Recovery								
Other		2,000				2,000	2,000	
Total Allocation		4,507	29,608			34,115	34,115	
Source of Funds								
8011 - HAS-Airports Improvement		4,507	29,608			34,115	34,115	
Total Funds		4,507	29,608			34,115	34,115	

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Public Wi-Fi Expansion-HAS HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)	Project No.	A-000495	
Project Description			
Public Wi-Fi Expansion into concession food/beverage and retail establishment	City Council District		
	Location	B,E,I	Address Descr 2:
	Served:	ALL	Zip Codes:
	Key Map:		Category:
	Location Code:	UA-00	Sub-Category:
Project Justification			
Customer Service	Units:	0	
	Start Year:		
	RCC Total	\$	RCA Total \$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		318					318	318
Construction		3,296					3,296	3,296
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		3,614					3,614	3,614
Source of Funds								
8011 - HAS-Airports Improvement		3,614					3,614	3,614
Total Funds		3,614					3,614	3,614

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Demolish Unoccupied HAS Owned Bldgs GEORGE BUSH INTERCONTINENTAL AIRPORT	Project No.	A-000498	
Project Description			
Demolition of unoccupied HAS owned buildings.	City Council District		
	Location	B	Address Descr 2:
	Served:	W	Zip Codes: 77032
	Key Map:		Category:
	Location Code:	UA-00	Sub-Category:
Project Justification			
Buildings are unoccupied.	Units:	0	
	Start Year:		
	RCC Total	\$	RCA Total \$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		1,030				1,030	1,030	
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		1,030				1,030	1,030	
Source of Funds								
8011 - HAS-Airports Improvement		1,030				1,030	1,030	
Total Funds		1,030				1,030	1,030	

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Runway 12R-30L Taxiway Q Reconstruction WILLIAM P. HOBBY AIRPORT		Project No.		A-000504	
Project Description					
Reconstruction of asphalt runway and taxiway to concrete (7600).		City Council District			
		Location	I	Address Descr 2:	
		Served:	W	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Runway has reached its life cycle.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design					5,600		5,600	5,600
Construction								
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation					5,600		5,600	5,600
Source of Funds								
8011 - HAS-Airports Improvement					5,600		5,600	5,600
Total Funds					5,600		5,600	5,600

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Landside Roadway Improvements - IAH GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000509	
Project Description					
Project will provide landside roadway repairs to pavement, joints, and manholes.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Project is needed to repair roadway deterioration primarily on north and south terminal roads due to heavy construction and increased cargo traffic.		Units:	0		
		Start Year:	2016		
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design	405							405
Construction		12,668					12,668	12,668
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation	405	12,668					12,668	13,073
Source of Funds								
8011 - HAS-Airports Improvement	405	12,668					12,668	13,073
Total Funds	405	12,668					12,668	13,073

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: New GT Staging Area - GBIAH GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000510	
Project Description					
Project will build a new Taxi and Limo staging area including infrastructure for a convenience store. Project will also include a new building to house HAS ground transportation staff for permitting and fee collection.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Project will help alleviate curbside and roadway congestion.		Units:	0		
		Start Year:	2016		
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		4,000					4,000	4,000
Construction	456							456
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation	456	4,000					4,000	4,456
Source of Funds								
8011 - HAS-Airports Improvement	456	4,000					4,000	4,456
Total Funds	456	4,000					4,000	4,456

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Airport Pavement Replacement HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)	Project No.	A-000513	
Project Description			
This project provides engineering and construction services for the replacement/renewal of pavement on runways, taxiways, apron, garages and roads due to unforeseen circumstances or when minor immediate work is needed. The circumstances require quick response and limited funds for each project.	City Council District		
	Location	B,E,I	Address Descr 2:
	Served:	W	Zip Codes:
	Key Map:		Category:
	Location Code:	UA-00	Sub-Category:
Project Justification			
To fund projects which need immediate action to replace our pavement when unforeseen events occur.	Units:	0	
	Start Year:		
	RCC Total	\$	RCA Total \$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		9,500					9,500	9,500
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		9,500					9,500	9,500
Source of Funds								
8011 - HAS-Airports Improvement		6,500					6,500	6,500
R&R		3,000					3,000	3,000
Total Funds		9,500					9,500	9,500

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Rehab Taxiway SA,SB & RA - GBIAH GEORGE BUSH INTERCONTINENTAL AIRPORT	Project No.	A-000515	
Project Description			
This project will rehabilitate Taxiway RA, SA and SB.	City Council District		
	Location	B	Address Descr 2:
	Served:	W	Zip Codes: 77032
	Key Map:		Category:
	Location Code: UA-00		Sub-Category:
Project Justification			
Taxiway SA and SB reached their ten year life expectancy in 2012. Portions of Taxiway RA, made of asphalt pavement, have deteriorated to the point where rehabilitation is needed.	Units:	0	
	Start Year:		
	RCC Total	\$	RCA Total \$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		5,000	294				5,294	5,294
Construction				67,713			67,713	67,713
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		5,000	294	67,713			73,007	73,007
Source of Funds								
8011 - HAS-Airports Improvement		5,000	294	67,713			73,007	73,007
Total Funds		5,000	294	67,713			73,007	73,007

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Sanitary Sewer - GBIAH GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000516	
Project Description					
Re-routing of sanitary sewer in central cargo and rehabilitation of sanitary main lines at Bush IAH. Rehabilitation of six sanitary lift stations at Terminal D and one at ATCT (Air Traffic Control Tower).		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
Project Justification					
Re-routing to resolve the conflict between Center Point Energy Electrical Duct Bank and proposed sanitary sewer at two locations. The existing sanitary sewer system serving Bush IAH has deteriorated to the point that several blockages, backups, deterioration and overflows have occurred.		Units:	0		
		Start Year:	2016		
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design	9						9	
Construction	1,016	9,221				9,221	10,237	
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation	1,025	9,221				9,221	10,246	
Source of Funds								
8011 - HAS-Airports Improvement	1,025	9,221				9,221	10,246	
Total Funds	1,025	9,221				9,221	10,246	

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Install Canopy at Pass Drop Off Area - H WILLIAM P. HOBBY AIRPORT		Project No.		A-000519	
Project Description					
Design and install a canopy to cover the passenger curb-side drop off area on the ticketing level. The canopy should be designed to cover the west side, main doors and east side of passenger drop off area as well as both center and east walkways from the garage to the terminal.		City Council District			
		Location	I	Address Descr 2:	
		Served:	W	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
The previous canopy at the curbside was removed and demolished due to age and structural issues. This project is a customer service enhancement that will protect passengers from adverse weather conditions when utilizing the main terminal entrance doors.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		190					190	190
Construction		4,400					4,400	4,400
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		4,590					4,590	4,590
Source of Funds								
8011 - HAS-Airports Improvement		4,590					4,590	4,590
Total Funds		4,590					4,590	4,590

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Taxiway H & H2 Rehab - HOU WILLIAM P. HOBBY AIRPORT		Project No.		A-000521	
Project Description					
Rehabilitation of Taxiways H and H2 at Hobby Airport due to deteriorating pavement.		City Council District			
		Location	I	Address Descr 2:	
		Served:	W	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
This taxiway is part of the Surface Movement Ground Control System (SMGCS) route at HOU. SMGCS allows aircraft to taxi between the runway and the terminal during very low visibility conditions.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design				1,090			1,090	1,090
Construction					10,080		10,080	10,080
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation				1,090	10,080		11,170	11,170
Source of Funds								
8011 - HAS-Airports Improvement				1,090	10,080		11,170	11,170
Total Funds				1,090	10,080		11,170	11,170

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Non-Standard FAA Taxiways at HOU WILLIAM P. HOBBY AIRPORT		Project No.		A-000527	
Project Description					
Rehabilitation of Taxiway D, E, K1, J and C PCC CPR Reconstruction of Section 515 and 4" AC Resurface of Section 520 and Section 7906.		City Council District			
		Location	I	Address Descr 2:	
		Served:	W	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Taxiway E is the primary taxiway from the international terminal and the adjacent to runway 12R and adjacent domestic concourse. Rehabilitation of D and E is to match with the Federal Aviation Administration (FAA) guidelines for intersection of taxiway and runway alignments.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations	2017-2021					2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		3,000					3,000	3,000
Construction				27,000			27,000	27,000
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		3,000		27,000			30,000	30,000
Source of Funds								
8011 - HAS-Airports Improvement		750		6,750			7,500	7,500
FAA/AIP		2,250		20,250			22,500	22,500
Total Funds		3,000		27,000			30,000	30,000

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: LA for HOU-FPA/PIN Point Hobby HOU WILLIAM P. HOBBY AIRPORT		Project No.		A-000528	
Project Description					
Purchase land for Federally Mandated Runway Protection Zone (RPZ).		City Council District			
		Location	I	Address Descr 2:	
		Served:	W	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Land will be used in a variety of ways to accommodate the expansion of Hobby Airport. This includes Runway Protection Zones, expansion of runways, new parking lots, heliports, cargo areas, etc.		Units:	0		
		Start Year:	2016		
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land	1,860	1,600					1,600	3,460
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation	1,860	1,600					1,600	3,460
Source of Funds								
8011 - HAS-Airports Improvement	1,860	1,600					1,600	3,460
Total Funds	1,860	1,600					1,600	3,460

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Lactation Stations at GB IAH GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000539	
Project Description					
Install 4 lactation station Kiosks in visible places with access to electrical outlets; 2 in Terminal A and 2 in Terminal D.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
To create a secure and private place for our travelling customers and employees to breast feed their infants in an airport terminal atmosphere as well as workplace.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other		53					53	53
Total Allocation		53					53	53
Source of Funds								
8011 - HAS-Airports Improvement		53					53	53
Total Funds		53					53	53

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: SMGCS LGHTG & Markings - FIS Expansion WILLIAM P. HOBBY AIRPORT		Project No.		A-000543	
Project Description					
Lighting system for air carriers to navigate to terminal building in inclement weather; install low visibility lighting and markings.		City Council District			
		Location	I	Address Descr 2:	
		Served:	W	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
For safe navigation of taxiing aircraft in low visibility condition.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		1,080					1,080	1,080
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		1,080					1,080	1,080
Source of Funds								
8011 - HAS-Airports Improvement		1,080					1,080	1,080
Total Funds		1,080					1,080	1,080

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Container Storage Facility - GBIAH GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000548	
Project Description					
Provide a location between Term D and East Cargo where airlines and Cargo operators can store their freight cans (ULDs).		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Due to current space constraints, there is a concern for safety as it relates to aircraft strikes & ability to safely service an aircraft.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		52				52	52	
Construction			424			424	424	
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		52	424			476	476	
Source of Funds								
8011 - HAS-Airports Improvement		52	424			476	476	
Total Funds		52	424			476	476	

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: HPD/HFD Airport Radios & Citywide Cov HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000549	
Project Description					
This project will design and deploy a radio identification tracking system potentially serving all HAS locations. This radio-frequency identification (RFID) system will streamline fixed asset inventory procedures and improve accuracy of the fixed assets database.		City Council District			
		Location	B,E,I	Address Descr 2:	
		Served:	W	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Incorporation of RFID technology will improve the accuracy of fixed asset data and will enable HAS to comply with City's policy. It will also streamline the manpower required to conduct the annual physical audit.		Units:	0		
		Start Year:	2012		
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition	2,019							2,019
Salary Recovery								
Other			2,650				2,650	2,650
Total Allocation	2,019		2,650				2,650	4,669
Source of Funds								
8011 - HAS-Airports Improvement	2,019		2,650				2,650	4,669
Total Funds	2,019		2,650				2,650	4,669

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Scannojets-Security Check Sys - HAS GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000553	
Project Description					
Install Scannojet - Automatic Security Check System at Bush Intercontinental and William P. Hobby Airport.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
The Scannojet baggage system, working together with the existing X-ray scanners at Terminal D, will increase operational efficiency and increase passenger flow at the security checkpoints.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		52				52	52	
Construction		1,391				1,391	1,391	
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		1,443				1,443	1,443	
Source of Funds								
8011 - HAS-Airports Improvement		1,443				1,443	1,443	
Total Funds		1,443				1,443	1,443	

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Upgrade BHS Cntrls & Bids Enhancements HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000556	
Project Description					
Expand baggage handling system (BHS) control systems to incorporate mobile situational awareness and inbound passenger bag tracking (i.e. location-based services for bags).		City Council District			
		Location	B,E,I	Address Descr 2:	
		Served:	W	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Passenger awareness of when and where their bag will come is a key component of passenger satisfaction.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		206				206	206	
Construction		2,781				2,781	2,781	
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		2,987				2,987	2,987	
Source of Funds								
8011 - HAS-Airports Improvement		2,987				2,987	2,987	
Total Funds		2,987				2,987	2,987	

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Passenger Queue Tracking - HAS HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)	Project No.	A-000559	
Project Description			
Placeholder for implementing facial recognition or other technology for tracking passenger transit time through key areas such as the Federal Inspection Station (FIS), pax security checkpoints, etc.	City Council District		
	Location	B,E,I	Address Descr 2:
	Served:	W	Zip Codes:
	Key Map:		Category:
	Location Code:	UA-00	Sub-Category:
Project Justification			
The movement of passengers through airport facilities in an efficient manner is a key contributor to passenger satisfaction. The ongoing measurement of time spent queuing will enable HAS and its partners to optimize passenger screening process.	Units:	0	
	Start Year:		
	RCC Total	\$	RCA Total \$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design			900				900	900
Construction			3,750				3,750	3,750
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation			4,650				4,650	4,650
Source of Funds								
8011 - HAS-Airports Improvement			4,650				4,650	4,650
Total Funds			4,650				4,650	4,650

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Space Locator & Signage A/B/C/D Garage GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000563	
Project Description					
Installation of Parking Guidance System (PGS) at the Bush Intercontinental Airport (IAH) parking garages. With the installation of a space guidance system, the customer will be provided information which will indicate how many parking spaces are available per floor.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
An individual space guidance system is needed in order to elevate the customer's experience when using the parking garages at IAH. As proven by the customer feedback received, finding a parking space at garage C is difficult and can be frustrating.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		10,300					10,300	10,300
Construction								
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		10,300					10,300	10,300
Source of Funds								
8011 - HAS-Airports Improvement		10,300					10,300	10,300
Total Funds		10,300					10,300	10,300

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Air Traffic Control Tower (ATCT) EFD ELLINGTON AIRPORT		Project No.		A-000564	
Project Description					
Building a modern tower to facilitate the increasing traffic demands at Ellington Field.		City Council District			
		Location	E	Address Descr 2:	
		Served:	W	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
The existing tower was built in 1955 and was refurbished in 1988. Numerous problems exist including a leaking roof, plumbing, a low wind-rating and no elevation.		Units:	0		
		Start Year:	2016		
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design	812	205				205	1,017	
Construction		9,960				9,960	9,960	
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation	812	10,165				10,165	10,977	
Source of Funds								
8011 - HAS-Airports Improvement	812	5,065				5,065	5,877	
FAA/AIP		2,000				2,000	2,000	
OTHER GRANTS		3,100				3,100	3,100	
Total Funds	812	10,165				10,165	10,977	

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Reconstruction of Taxiway NB - IAH GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000570	
Project Description					
Reconstruction and widening of Taxiway NA and shoulders from Taxiway NP to NE to Taxi Design Group - VII standards (9,402 feet).		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
According to our pavement management, this taxiway needs to be reconstructed due to heavy traffic and to meet axi Design Group - VII standards, as stated in our Modifications of Standards (MOA) with the Federal Aviation Administration (FAA).		Units:	0		
		Start Year:	2016		
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design	5,822						5,822	
Construction	24,120	59,005				59,005	83,125	
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation	29,942	59,005				59,005	88,947	
Source of Funds								
8011 - HAS-Airports Improvement	29,942	15,780				15,780	45,722	
FAA/AIP		43,225				43,225	43,225	
Total Funds	29,942	59,005				59,005	88,947	

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Wayfinding Garage Facilities -IAH/HOU HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000572	
Project Description					
Wayfinding system for all IAH and HOU garage parking facilities.		City Council District			
		Location	B,E,I	Address Descr 2:	
		Served:	W	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Current wayfinding signs are deficient causing frustration to our customers.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		2,500					2,500	2,500
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		2,500					2,500	2,500
Source of Funds								
8011 - HAS-Airports Improvement		2,500					2,500	2,500
Total Funds		2,500					2,500	2,500

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Perimeter Security Intrus Detection Sys HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)	Project No.	A-000573	
Project Description			
This project is to implement technology to further enhance IAH perimeter security.	City Council District		
	Location	B,E,I	Address Descr 2:
	Served:	W	Zip Codes:
	Key Map:		Category:
	Location Code:	UA-00	Sub-Category:
Project Justification			
This functionality will enable HAS to more quickly detect intrusions into restricted airfield areas.	Units:	0	
	Start Year:		
	RCC Total	\$	RCA Total \$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		350					350	350
Construction		1,800	3,150				4,950	4,950
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		2,150	3,150				5,300	5,300
Source of Funds								
8011 - HAS-Airports Improvement		2,150	3,150				5,300	5,300
Total Funds		2,150	3,150				5,300	5,300

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Taxiway M Rehab WILLIAM P. HOBBY AIRPORT		Project No.		A-000574	
Project Description					
Reconstruction of asphalt taxiway M to concrete. It replaces deteriorating taxiway pavement.		City Council District			
		Location	I	Address Descr 2:	
		Served:	W	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Taxiway M will be the primary taxi route from Runway 12R-30L when reconstruction of Ruwnay 12L-30R occurs.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design					1,568		1,568	1,568
Construction						14,490	14,490	14,490
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation					1,568	14,490	16,058	16,058
Source of Funds								
8011 - HAS-Airports Improvement					1,568	14,490	16,058	16,058
Total Funds					1,568	14,490	16,058	16,058

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Modify N Electrical Vault and Misc. Elec WILLIAM P. HOBBY AIRPORT		Project No.		A-000576	
Project Description					
This project is to integrate North vault with South vault circuits enlarging vaults for IT and generators, provide upgrades to airfield electrical to close loop to infrastructure.		City Council District			
		Location	I	Address Descr 2:	
		Served:	W	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
South vault and North vault operations create maintenance complexity. Airfield infrastructure like duct banks and aging circuits needs to be upgraded, which were not covered under runway upgrades.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design					500		500	500
Construction						4,500	4,500	4,500
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation					500	4,500	5,000	5,000
Source of Funds								
8011 - HAS-Airports Improvement					500	4,500	5,000	5,000
Total Funds					500	4,500	5,000	5,000

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Hobby Drainage & Roadway Flooding - HOU WILLIAM P. HOBBY AIRPORT		Project No.		A-000580	
Project Description					
This project will provide drainage improvements at Hobby Airport.		City Council District			
		Location	I	Address Descr 2:	
		Served:	W	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Flooding is a major problem at Hobby preventing passengers from arriving at the terminal to catch their flight.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		3,245					3,245	3,245
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		3,245					3,245	3,245
Source of Funds								
8011 - HAS-Airports Improvement		3,245					3,245	3,245
Total Funds		3,245					3,245	3,245

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Terminal A Modernization Program GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000581	
Project Description					
Replace the existing Building Management System in Terminal A with a system to provide automated and scheduling management of energy-consuming systems such as Heating, Ventilation, Air Conditioning (HVAC), electrical and lighting distribution systems.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
The existing system provides no means for automated control of building systems, which negatively impact customer service and limits the Airport's ability to implement energy conservation/cost reduction programs.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design			15,000				15,000	15,000
Construction					45,000	45,000	90,000	90,000
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation			15,000		45,000	45,000	105,000	105,000
Source of Funds								
REV BONDS/CP			15,000		45,000	45,000	105,000	105,000
Total Funds			15,000		45,000	45,000	105,000	105,000

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Security System Enhancements - HAS HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000584	
Project Description					
This project is to perform planned upgrades to provide additional functionality and/or capacity such as biometrics. Deploy additional surveillance and associated processing hardware and software.		City Council District			
		Location	B,E,I	Address Descr 2:	
		Served:	W	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Access control is a regulatory requirement for airports to comply with. Renewal/replacement and enhancements are required to ensure continued compliance and efficiency.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		2,060	5,300				7,360	7,360
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		2,060	5,300				7,360	7,360
Source of Funds								
8011 - HAS-Airports Improvement		2,060	5,300				7,360	7,360
Total Funds		2,060	5,300				7,360	7,360

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Rehabilitate and Expand ARFF Station-HAS HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000590	
Project Description					
Rehabilitate and expand stations including new vehicles bays, dormitory space, training area and offices to support Aircraft Rescue and Fire Fighting (ARFF) Management function.		City Council District			
		Location	B,E,I	Address Descr 2:	
		Served:	W	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
ARFF Station 92 at IAH and 81 at HOU are over 20 years old. The station utilities are approaching their intended useful life and require replacement and upgrading. Expansion of these stations is essential to support Part 139 compliance and FAA safety initiatives.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		3,500					3,500	3,500
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		3,500					3,500	3,500
Source of Funds								
8011 - HAS-Airports Improvement		3,500					3,500	3,500
Total Funds		3,500					3,500	3,500

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: HAS Admin Bldg Expansion - IAH GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000596	
Project Description					
Development of a third office building connected to the existing two administration buildings. Development of a Data Center, Consolidated Airport Communication Center (ACC), Airport Emergency Operations Center (AEOC) and Department Operation Center (DOC); development of new parking due to added facilities.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Currently HAS Administration staff are housed in various facilities around IAH. The purpose of this project is to consolidate all HAS staff (excluding those under IAH team) at the existing HAS Administration site. This frees up the various facilities and lots for potential airport facilities and/or commercial development.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		3,000					3,000	3,000
Construction		27,000					27,000	27,000
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		30,000					30,000	30,000
Source of Funds								
8011 - HAS-Airports Improvement		3,000					3,000	3,000
REV BONDS/CP		27,000					27,000	27,000
Total Funds		30,000					30,000	30,000

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Internal Signage at IAH & HOU HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000599	
Project Description					
This project is to update the terminal signage and installation within the terminals at both IAH and HOU located at the Federal Inspection Station (FIS) and Terminals A and C at IAH.		City Council District			
		Location	B,I	Address Descr 2:	
		Served:	W	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
The wayfinding signage that exists in the terminals is confusing, lacks consistency, and is outdated with multiple "families of signs" in some locations. The signs result in visual clutter with no benefit to the customer.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		500				500	500	
Construction			4,500			4,500	4,500	
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		500	4,500			5,000	5,000	
Source of Funds								
8011 - HAS-Airports Improvement		500	4,500				5,000	5,000
Total Funds		500	4,500			5,000	5,000	

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Infrastructure Staff Augmentation - HAS HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000600	
Project Description					
The Infrastructure Staff Augmentation contract will allow for the placement of professional consultant staff in key positions within the division as needed to augment HAS staff.		City Council District			
		Location	B,E,I	Address Descr 2:	
		Served:	W	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
The Infrastructure Division has outstanding staffing needs to maintain the minimum standard of operational excellence for project delivery. Proposed needs are for Project Managers, Design Managers, Contract Administrators, Schedulers, QA/QC Managers, Safety Administrators, Construction Inspectors, CAD Designers and Data Entry Clerks.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other		9,000			3,360	3,450	15,810	15,810
Total Allocation		9,000			3,360	3,450	15,810	15,810
Source of Funds								
8011 - HAS-Airports Improvement		9,000			3,360	3,450	15,810	15,810
Total Funds		9,000			3,360	3,450	15,810	15,810

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: On-Call Planning Services HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)	Project No.	A-000602	
Project Description			
The airport system facility concept development, impact studies, and assessments.	City Council District		
	Location	B,E,I	Address Descr 2:
	Served:	W	Zip Codes:
	Key Map:		Category:
	Location Code:	UA-00	Sub-Category:
Project Justification			
Project needed to provide cost effective, timely options and decisions responding to dynamic changes in airline businesses and their impact on airport facilities and management.	Units:	0	
	Start Year:		
	RCC Total	\$	RCA Total \$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other		7,500			3,360	3,450	14,310	14,310
Total Allocation		7,500			3,360	3,450	14,310	14,310
Source of Funds								
8011 - HAS-Airports Improvement		7,500			3,360	3,450	14,310	14,310
Total Funds		7,500			3,360	3,450	14,310	14,310

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Parking Garage Rehab at Terminals -GBIAH GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000605	
Project Description					
Replace stairs with steel frame stairwells and replace surface membrane in the parking garage.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
This is a safety issue and customer service issue.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		1,391					1,391	1,391
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		1,391					1,391	1,391
Source of Funds								
8011 - HAS-Airports Improvement		1,391					1,391	1,391
Total Funds		1,391					1,391	1,391

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Term A/B Garage-PublicParking Improvement GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000607	
Project Description					
Install better signs, add additional elevators, repaint the entire facility, remove plexi-glass, replace rusting fire hose cabinets, and replace lighting at all elevator landings and walkways.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
For better and more efficient customer service.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		5,099					5,099	5,099
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		5,099					5,099	5,099
Source of Funds								
8011 - HAS-Airports Improvement		5,099					5,099	5,099
Total Funds		5,099					5,099	5,099

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Smiley Face Tablets in Restrooms - HAS HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000608	
Project Description					
Deploy sentiments (smiley face) tablets in IAH and HOU restrooms.		City Council District			
		Location	B,E,I	Address Descr 2:	
		Served:	W	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Better customer service		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		200				200	200	
Construction		1,000				1,000	1,000	
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		1,200				1,200	1,200	
Source of Funds								
8011 - HAS-Airports Improvement		1,200				1,200	1,200	
Total Funds		1,200				1,200	1,200	

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Cell Phone Lots on JFK & Will Clayton GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000610	
Project Description					
Build cell phone lots on JFK Boulevard and Will Clayton Boulevard.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
This project will help reduce traffic congestion at the terminals.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		4,500				4,500	4,500	
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		4,500				4,500	4,500	
Source of Funds								
8011 - HAS-Airports Improvement		4,500				4,500	4,500	
Total Funds		4,500				4,500	4,500	

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: SatelliteCntrlUtilities-SUP Facility-HOU WILLIAM P. HOBBY AIRPORT		Project No.		A-000614	
Project Description					
Complete the phased design and construction of a Satellite Utilities Plant (SUP) facility at Hobby Airport, in addition to the completion of incremental repairs the existing SUP, to maintain reliable operation.		City Council District			
		Location	I	Address Descr 2:	
		Served:	W	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
The new SUP, a complete thermal production and distribution facility, will initially house heating system boilers, chillers, piping, and distribution pumps to provide adequate heating to the existing terminals and new Federal Inspection Station (FIS).		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction				8,175		8,625	16,800	16,800
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation				8,175		8,625	16,800	16,800
Source of Funds								
REV BONDS/CP				8,175		8,625	16,800	16,800
Total Funds				8,175		8,625	16,800	16,800

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Extend Runway 17R-35L - EFD ELLINGTON AIRPORT		Project No.		A-000617	
Project Description					
Extension of Runway 17R-35L by 200-1000 feet (North side)		City Council District			
		Location	E	Address Descr 2:	
		Served:	W	Zip Codes:	77034
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Initial studies have recommended that Runway 17R-35L will need to be extended 200-1000 feet to support spaceport operations.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design						550	550	550
Construction								
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation						550	550	550
Source of Funds								
8011 - HAS-Airports Improvement						550	550	550
Total Funds						550	550	550

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Hobby Original Garage - HOU WILLIAM P. HOBBY AIRPORT		Project No.		A-000618	
Project Description					
Rehabilitation of parking (architectural, structural, storm, conveyances, HVAC, electrical, lighting, and fire protection systems).		City Council District			
		Location	I	Address Descr 2:	
		Served:	W	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Condition Assessment of HOU Garage completed in March 2016 indicates \$1,500,000 of rehabilitation costs in the priority and near term.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								0
Construction		1,500					1,500	1,500
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		1,500					1,500	1,500
Source of Funds								
8011 - HAS-Airports Improvement		1,500					1,500	1,500
Total Funds		1,500					1,500	1,500

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Reworking Constr Taxiway WA/WB GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000622	
Project Description					
Reconstruct the pavement on Taxiways in the west complex (mainly Taxiway WA, WB, and the attached taxiways to Runway 15L-33R).		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Pavement is cracking.		Units:	0		
		Start Year:	2016		
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design	3,591						3,591	
Construction	1,258	64,742				64,742	66,000	
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation	4,849	64,742				64,742	69,591	
Source of Funds								
8011 - HAS-Airports Improvement	4,849	64,742				64,742	69,591	
Total Funds	4,849	64,742				64,742	69,591	

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Demolition of Tower at IAH -REIMB by FAA GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000623	
Project Description					
HAS plans to enter into an "Other Transaction Agreement" (OTA) with the FAA, to provide grant funding to demolish the old Airport Traffic Control Tower at IAH. The project will include environmental remediation of the tower and base building, the complete demolition and removal of the structure and restoring the site to a green field.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
The Federal Aviation Administration abandoned the existing tower and relocated its staff to a new tower on the East side of IAH. FAA desires to demolish the facility and return the ground back to COH/HAS.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		2,757					2,757	2,757
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		2,757					2,757	2,757
Source of Funds								
FAA/AIP		2,757					2,757	2,757
Total Funds		2,757					2,757	2,757

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Term B Core & NO 480-Volt Distrib Sys GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000624	
Project Description					
The existing electrical service vault switchgear and 480-volt distribution systems serving the Terminal B Core and North concourses are operating well beyond anticipated service life. The equipment is obsolete with repair parts no longer being manufactured.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
This project funds the replacement of the service entrance switchgear and the 480-volt distribution systems within Terminal A North and South terminal concourses to maintain service reliability and adequate customer service.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction			21,200				21,200	21,200
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation			21,200				21,200	21,200
Source of Funds								
8011 - HAS-Airports Improvement			21,200				21,200	21,200
Total Funds			21,200				21,200	21,200

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: IAH Fleet Maintenance Building GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000625	
Project Description					
Build a new maintenance building fully air conditioned with efficient layout in addition to proper equipment.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
This initiative is to ensure a safe working environment for FMD and HAS employees.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		4,371					4,371	4,371
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		4,371					4,371	4,371
Source of Funds								
8011 - HAS-Airports Improvement		4,371					4,371	4,371
Total Funds		4,371					4,371	4,371

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Term-A NO & SO Restroom Remodel GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000626	
Project Description					
Remodel and upgrade restrooms to improve the overall appearance of facilities and bring restrooms up to current codes and ADA requirements.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Project will improve customer service, reduce customer and airline complaints, and improve overall appearance of the airport.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		4,635					4,635	4,635
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		4,635					4,635	4,635
Source of Funds								
8011 - HAS-Airports Improvement		4,635					4,635	4,635
Total Funds		4,635					4,635	4,635

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Airport Blvd & Ecopark Access Rd.- HOU WILLIAM P. HOBBY AIRPORT		Project No.		A-000627	
Project Description					
Roadway improvements to improve flow into and out of ecopark. The intersection improvements will add lanes for left turns to and from the airport.		City Council District			
		Location	I	Address Descr 2:	
		Served:	W	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
These intersection modifications will improve traffic flow and safety around the airport.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		1,854					1,854	1,854
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		1,854					1,854	1,854
Source of Funds								
8011 - HAS-Airports Improvement		1,854					1,854	1,854
Total Funds		1,854					1,854	1,854

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Security Lane Backflow Prevention HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000628	
Project Description					
Development of Security Exit Backflow Prevention at the terminal exit lanes at IAH and Hobby.		City Council District			
		Location	B,E,I	Address Descr 2:	
		Served:	W	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
IAH Management has put forth an initiative to proceed with installing Security Exit Backflow Prevention systems to save on costs of HAS paid staff at the exit lanes after the security checkpoints are closed.		Units:	0		
		Start Year:	2016		
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction	684	4,636				4,636	5,320	
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation	684	4,636				4,636	5,320	
Source of Funds								
8011 - HAS-Airports Improvement	684	4,636				4,636	5,320	
Total Funds	684	4,636				4,636	5,320	

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Aerospace Design & Solution Lab - EFD ELLINGTON AIRPORT		Project No.		A-000629	
Project Description					
Plan, design, and build building infrastructure to support the first spaceport development at Ellington's southeast sector. This facility will be leased to Academy (Universities Consortium) and the aerospace industry to conduct research and development activities.		City Council District			
		Location	E	Address Descr 2:	
		Served:	W	Zip Codes:	77034
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Ellington's licensing as the COH's spaceport will require development of this facility in order to attract new business opportunities to be established or relocated to Houston.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		2,650					2,650	2,650
Construction			17,004				17,004	17,004
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		2,650	17,004				19,654	19,654
Source of Funds								
REV BONDS/CP		2,650	17,004				19,654	19,654
Total Funds		2,650	17,004				19,654	19,654

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Hobby Parking Office WILLIAM P. HOBBY AIRPORT		Project No.		A-000630	
Project Description					
Build a new management office at Hobby to provide space for approximately 50 employees that work at the parking garage.		City Council District			
		Location	I	Address Descr 2:	
		Served:	W	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
A new office building is needed to provide the essential requirements, while considering an increase in employees when the new garage is completed. The current location is too small and was not designed for office/work space.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction		773					773	773
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		773					773	773
Source of Funds								
8011 - HAS-Airports Improvement		773					773	773
Total Funds		773					773	773

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: PN 780 Public Wi-Fi & BLE Beacon Upgrade HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000633	
Project Description					
Planned upgrade for public Wi-Fi and Bluetooth Low Energy (BLE) beacon infrastructure.		City Council District			
		Location	B,E,I	Address Descr 2:	
		Served:	W	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Public Wi-Fi and beacon technology must be periodically refreshed and coverage areas potentially expanded to maintain passenger satisfaction. Wi-Fi points and cellular infrastructure are forecasted to be replaced on a rolling 5 year replacement schedule.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other				6,540			6,540	6,540
Total Allocation				6,540			6,540	6,540
Source of Funds								
8011 - HAS-Airports Improvement				6,540			6,540	6,540
Total Funds				6,540			6,540	6,540

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: On Call Technology Contract HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)	Project No.		A-000634	
Project Description				
On-call technology professional services contact provides the Project Management Office (PMO) with design, support, and hosting services to support both capital and operating expense technology initiatives.	City Council District			
	Location	B,E,I	Address Descr 2:	
	Served:	W	Zip Codes:	
	Key Map:		Category:	
	Location Code:	UA-00	Sub-Category:	
Project Justification				
On-Call contact is required to assist HAS in research, planning, design and implementation of technology initiatives.	Units:	0		
	Start Year:			
	RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other			2,120	2,180	2,240	2,300	8,840	8,840
Total Allocation			2,120	2,180	2,240	2,300	8,840	8,840
Source of Funds								
8011 - HAS-Airports Improvement			2,120	2,180	2,240	2,300	8,840	8,840
Total Funds			2,120	2,180	2,240	2,300	8,840	8,840

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Communication Cabling Infrastructure HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)	Project No.	A-000635	
Project Description			
On-Call communications cabling infrastructure services provide the ability to install additional inside and outside plant cabling, conduits, duct banks and related support and termination components.	City Council District		
	Location	B,E,I	Address Descr 2:
	Served:	W	Zip Codes:
	Key Map:		Category:
	Location Code:	UA-00	Sub-Category:
Project Justification			
HAS has extensive communications infrastructure requirements throughout its facilities and campuses. This contact allows for periodic adds and changes of existing infrastructure. It is not intended to be used to supplement scope required by other capital projects.	Units:	0	
	Start Year:		
	RCC Total	\$	RCA Total \$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other		1,500					1,500	
Total Allocation		1,500					1,500	
Source of Funds								
8011 - HAS-Airports Improvement		1,500					1,500	
Total Funds		1,500					1,500	

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Parking Revenue Control System - HAS HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000636	
Project Description					
Provide a new parking system to replace the Amano McGann system currently in place. Project includes hardware and software to receive and process all the revenues for parking for all parking facilities.		City Council District			
		Location	B,E,I	Address Descr 2:	
		Served:	W	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
The parking and revenue control equipment currently being used is over 13 years old and while HAS kept current with software updates, the hardware is outdated and some of the software functionality needed to provide better customer service is not supported by the current hardware.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other				10,900			10,900	10,900
Total Allocation				10,900			10,900	10,900
Source of Funds								
8011 - HAS-Airports Improvement				10,900			10,900	10,900
Total Funds				10,900			10,900	10,900

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Relocation of RTR - HOU WILLIAM P. HOBBY AIRPORT		Project No.		A-000637	
Project Description					
Relocation of FAA RTR antenna and ASOS (Automated Surface Observing Systems) weather sensor on the airfield due to future hanger developments.		City Council District			
		Location	I	Address Descr 2:	
		Served:	W	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Mandated by Federal Aviation Administration (FAA).		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		200					200	200
Construction			800				800	800
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		200	800				1,000	1,000
Source of Funds								
8011 - HAS-Airports Improvement		200	800				1,000	1,000
Total Funds		200	800				1,000	1,000

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Non Terminal Facility Sys Rehab - HAS HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000642	
Project Description					
Assessment of properties and buildings owned by Houston Airport System and determination what needs to be done.		City Council District			
		Location	B,E,I	Address Descr 2:	
		Served:	W	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Rehabbing condition assessment of commercial properties.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design		515					515	515
Construction								
Equipment Acquisition								
Salary Recovery								
Other								
Total Allocation		515					515	515
Source of Funds								
R&R		515					515	515
Total Funds		515					515	515

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: PC Air Units for Central Concourse - HOU WILLIAM P. HOBBY AIRPORT		Project No.		A-000643	
Project Description					
Installation of Preconditioned Air Units (PCA) for the central Concourse at William P. Hobby Airport (19 Gates).		City Council District			
		Location	I	Address Descr 2:	
		Served:	W	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
Mandated by Federal Aviation Administration (FAA).		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other		4,000					4,000	4,000
Total Allocation		4,000					4,000	4,000
Source of Funds								
8011 - HAS-Airports Improvement		4,000					4,000	4,000
Total Funds		4,000					4,000	4,000

2017-2021 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

CITY OF HOUSTON - AVIATION FACILITIES

Project: Executive Program Manager Services-ITRP GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000800	
Project Description					
The IAH Terminal Redevelopment Program (ITRP) includes: Mickey Leland International Terminal (MLIT); New Term C North (NCN) and Ramp Pavement; Underground Utilities and Oval north of the ramp adjacent to Taxiway NA/NB; Term B-D Connector bldg; Enabling Utilities; Program Mgmt Office Bldg.; East Aircraft Parking Hardstand; Roadway Rehab.		City Council District			
		Location	B	Address Descr 2:	
		Served:	W	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
Project Justification					
This capital development program is designed to modernize and expand the Mickey Leland International Terminal (MLIT), to include current day Terminal C North, and Terminal D at IAH. The project may also include renovation and reconfiguration of the existing Federal Inspection Station Facility and construction of an expanded parking garage.		Units:	0		
		Start Year:	2016		
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations	2017-2021					2017-2021	Project Total
		2017	2018	2019	2020	2021		
Planning	27,000							27,000
Acquisition-Land								
Design		303,782		25			303,807	303,807
Construction	52,268	8,691	641,824	165,792	29,263	199,473	1,045,043	1,097,311
Equipment Acquisition								
Salary Recovery								
Other		56,836	22,000	7,462		4,000	90,298	90,298
Total Allocation	79,268	369,309	663,824	173,279	29,263	203,473	1,439,148	1,518,416
Source of Funds								
8011 - HAS-Airports Improvement	79,268	48,000		6,000		4,000	58,000	137,268
REV BONDS/CP		321,309	663,824	167,279	29,263	199,473	1,381,148	1,381,148
Total Funds	79,268	369,309	663,824	173,279	29,263	203,473	1,439,148	1,518,416



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