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## AVIATION FACILITIES 2018-2022 CAPITAL IMPROVEMENT PLAN

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**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: Technical Engineering Services HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000138	
<b>Project Description</b>					
Technology professional services to support both capital and operating expenses.		<b>City Council District</b>			
		Location	B,E,I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design	25,455						25,455	
Construction	867						867	
Equipment Acquisition								
Salary Recovery								
Other			2,120				2,120	
<b>Total Allocation</b>	<b>26,322</b>		<b>2,120</b>				<b>28,442</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement	26,322		2,120				28,442	
<b>Total Funds</b>	<b>26,322</b>		<b>2,120</b>				<b>28,442</b>	

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: Miscellaneous Construction HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000348	
<b>Project Description</b>					
Project provides funds for construction services to perform minor wall/door relocations, minor carpet replacements, and limited scope construction for airlines/other tenants.		<b>City Council District</b>			
		Location	B,E,I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design	1,046	475					475	1,521
Construction	16,077	1,295	545	560	575	590	3,565	19,642
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>	<b>17,123</b>	<b>1,770</b>	<b>545</b>	<b>560</b>	<b>575</b>	<b>590</b>	<b>4,040</b>	<b>21,163</b>
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement	17,123	1,770	545	560	575	590	4,040	21,163
<b>Total Funds</b>	<b>17,123</b>	<b>1,770</b>	<b>545</b>	<b>560</b>	<b>575</b>	<b>590</b>	<b>4,040</b>	<b>21,163</b>

**2018-2022 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	
<b>Project Description</b>					
Incorporate artwork in building projects planned for public use.		<b>City Council District</b>			
		Location	B,E,I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design	11,955	436				436	12,391	
Construction		1,803	9,000	179		465	11,447	
Equipment Acquisition								
Salary Recovery								
Other							0	
<b>Total Allocation</b>	<b>11,955</b>	<b>2,239</b>	<b>9,000</b>	<b>179</b>		<b>465</b>	<b>11,883</b>	<b>23,838</b>
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement	11,955	2,239	9,000	179		465	11,883	23,838
<b>Total Funds</b>	<b>11,955</b>	<b>2,239</b>	<b>9,000</b>	<b>179</b>		<b>465</b>	<b>11,883</b>	<b>23,838</b>

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: General Environmental Services - HAS GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000423	
<b>Project Description</b>					
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).		<b>City Council District</b>			
		Location	B	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design	1,286						1,286	
Construction		5,704				552	6,256	
Equipment Acquisition								
Salary Recovery								
Other		250					250	
<b>Total Allocation</b>	<b>1,286</b>	<b>5,954</b>				<b>552</b>	<b>7,792</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement	1,286	250					1,536	
R&R		5,704				552	6,256	
<b>Total Funds</b>	<b>1,286</b>	<b>5,954</b>				<b>552</b>	<b>7,792</b>	

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: PN 604A Inter-Terminal Train-Repairs GEORGE BUSH INTERCONTINENTAL AIRPORT	Project No.	A-000477	
<b>Project Description</b>			
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).	<b>City Council District</b>		
	Location	B	Address Descr 2:
	Served:	CITYWIDE	Zip Codes: 77032
	Key Map:		Category:
	Location Code: UA-00		Sub-Category:
<b>Project Justification</b>			
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design	500	1,060		5,000		6,060	6,560	
Construction			9,810			19,650	29,460	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>	<b>500</b>	<b>1,060</b>	<b>9,810</b>	<b>5,000</b>		<b>19,650</b>	<b>35,520</b>	<b>36,020</b>
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement	500			5,000		19,650	24,650	25,150
R&R		1,060	9,810				10,870	10,870
<b>Total Funds</b>	<b>500</b>	<b>1,060</b>	<b>9,810</b>	<b>5,000</b>		<b>19,650</b>	<b>35,520</b>	<b>36,020</b>

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: APM Guide Way Structural Enhancements GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000494	
<b>Project Description</b>					
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.		<b>City Council District</b>			
		Location	B	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction		29,000				29,000	29,000	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>		<b>29,000</b>				<b>29,000</b>	<b>29,000</b>	
<b>Source of Funds</b>								
REV BONDS/CP		29,000				29,000	29,000	
<b>Total Funds</b>		<b>29,000</b>				<b>29,000</b>	<b>29,000</b>	



**2018-2022 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	
<b>Project Description</b>					
Public Wi-Fi expansion into concession food/beverage and retail establishment		<b>City Council District</b>			
		Location	B,E,I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
Customer Service		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design		318				318	318	
Construction			3,296			3,296	3,296	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>		<b>318</b>	<b>3,296</b>			<b>3,614</b>	<b>3,614</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		318	3,296			3,614	3,614	
<b>Total Funds</b>		<b>318</b>	<b>3,296</b>			<b>3,614</b>	<b>3,614</b>	

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: New GT Staging Area - GBIAH GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000510	
<b>Project Description</b>					
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.		<b>City Council District</b>			
		Location	B	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
Project will help alleviate curbside and roadway congestion.		Units:	0		
		Start Year:	2016		
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design							0	
Construction	456	3,800				3,800	4,256	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>	<b>456</b>	<b>3,800</b>				<b>3,800</b>	<b>4,256</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement	456	3,800				3,800	4,256	
<b>Total Funds</b>	<b>456</b>	<b>3,800</b>				<b>3,800</b>	<b>4,256</b>	

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: Airport Pavement Replacement HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000513	
<b>Project Description</b>					
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.		<b>City Council District</b>			
		Location	B,E,I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction		5,163				6,000	11,163	11,163
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>		<b>5,163</b>				<b>6,000</b>	<b>11,163</b>	<b>11,163</b>
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		500				6,000	6,500	6,500
R&R		4,663					4,663	4,663
<b>Total Funds</b>		<b>5,163</b>				<b>6,000</b>	<b>11,163</b>	<b>11,163</b>

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: Rehab Taxiway SA,SB & RA - GBIAH GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000515	
<b>Project Description</b>					
This project will rehabilitate Taxiway RA, SA and SB.		<b>City Council District</b>			
		Location	B	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design		5,000	294				5,294	
Construction				67,713			67,713	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>		<b>5,000</b>	<b>294</b>	<b>67,713</b>			<b>73,007</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		5,000	294	67,713			73,007	
<b>Total Funds</b>		<b>5,000</b>	<b>294</b>	<b>67,713</b>			<b>73,007</b>	

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: Sanitary Sewer - GBIAH GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000516	
<b>Project Description</b>					
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).		<b>City Council District</b>			
		Location	B	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77032
		Key Map:		Category:	
<b>Project Justification</b>					
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.		Units:	0		
		Start Year:	2016		
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design	9						9	
Construction	1,016	9,221				9,221	10,237	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>	<b>1,025</b>	<b>9,221</b>				<b>9,221</b>	<b>10,246</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement	1,025	9,221				9,221	10,246	
<b>Total Funds</b>	<b>1,025</b>	<b>9,221</b>				<b>9,221</b>	<b>10,246</b>	

**2018-2022 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	
<b>Project Description</b>					
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.		<b>City Council District</b>			
		Location	I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design				190			190	190
Construction				4,400			4,400	4,400
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>				<b>4,590</b>			<b>4,590</b>	<b>4,590</b>
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement				4,590			4,590	4,590
<b>Total Funds</b>				<b>4,590</b>			<b>4,590</b>	<b>4,590</b>

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: Construction of New Taxiways - EFD ELLINGTON AIRPORT		Project No.		A-000523	
<b>Project Description</b>					
Design and construct a new taxiway on the East side of Runway 17R-35L, a new taxiway on the Southeast side of Runway 4-22, and rehabilitation of outer panels of Runway 4-22.		<b>City Council District</b>			
		Location	E	Address Descr 2:	577V, 577Z
		Served:	CITYWIDE	Zip Codes:	77034
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
This new taxiway on east side of Runway17R-35L would stop all aircraft taxing on Runway 17L-35R. The taxiway on the Southeast side would support new aircraft hanger development on the Southeast side of Ellington Airport.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design		4,000				4,000	4,000	
Construction			41,000			41,000	41,000	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>		<b>4,000</b>	<b>41,000</b>			<b>45,000</b>	<b>45,000</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		4,000	41,000			45,000	45,000	
<b>Total Funds</b>		<b>4,000</b>	<b>41,000</b>			<b>45,000</b>	<b>45,000</b>	

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: Non-Standard FAA Taxiways at HOU WILLIAM P. HOBBY AIRPORT		Project No.		A-000527	
<b>Project Description</b>					
Rehabilitation of Taxiway D, E, K1, J and C		<b>City Council District</b>			
		Location	I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design		1,500				1,500	1,500	
Construction			13,500			13,500	13,500	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>		<b>1,500</b>	<b>13,500</b>			<b>15,000</b>	<b>15,000</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		375	3,375			3,750	3,750	
FAA/AIP		1,125	10,125			11,250	11,250	
<b>Total Funds</b>		<b>1,500</b>	<b>13,500</b>			<b>15,000</b>	<b>15,000</b>	



**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: LA for HOU-FPA/PIN Point Hobby HOU HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)	Project No.		A-000528	
<b>Project Description</b>				
Purchase land for Federally Mandated Runway Protection Zone (RPZ).	<b>City Council District</b>			
	Location	B,E,I	Address Descr 2:	
	Served:	CITYWIDE	Zip Codes:	77061
	Key Map:		Category:	
	Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>				
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land	1,860	2,830					2,830	4,690
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>	<b>1,860</b>	<b>2,830</b>					<b>2,830</b>	<b>4,690</b>
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement	1,860	2,830					2,830	4,690
<b>Total Funds</b>	<b>1,860</b>	<b>2,830</b>					<b>2,830</b>	<b>4,690</b>

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: Lactation Stations at GB IAH GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000539	
<b>Project Description</b>					
Install four lactation station kiosks in visible places with access to electrical outlets; two in Terminal A and two in Terminal D.		<b>City Council District</b>			
		Location	B	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other		261					261	261
<b>Total Allocation</b>		<b>261</b>					<b>261</b>	<b>261</b>
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		261					261	261
<b>Total Funds</b>		<b>261</b>					<b>261</b>	<b>261</b>

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

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

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design		120				120	120	
Construction			1,080			1,080	1,080	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>		<b>120</b>	<b>1,080</b>			<b>1,200</b>	<b>1,200</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		120	1,080			1,200	1,200	
<b>Total Funds</b>		<b>120</b>	<b>1,080</b>			<b>1,200</b>	<b>1,200</b>	

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: COMMON USE TICKET & GATE CHECK-IN SYS HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000558	
<b>Project Description</b>					
Migrate from airline club-based common use terminal equipment (CUTE) environment to HAS-managed contract. HAS and airline partners will select new common use provider through RFP process.		<b>City Council District</b>			
		Location	B,E,I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
HAS is expanding common use configurations to maximize flexibility of gates and ticket counters scheduling beyond IAH Terminal D to other IAH Terminals and Hobby Airport. This will enable HAS to accommodate new air carriers.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other		1,240	1,860				3,100	3,100
<b>Total Allocation</b>		<b>1,240</b>	<b>1,860</b>				<b>3,100</b>	<b>3,100</b>
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		1,240	1,860				3,100	3,100
<b>Total Funds</b>		<b>1,240</b>	<b>1,860</b>				<b>3,100</b>	<b>3,100</b>

**2018-2022 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	
<b>Project Description</b>					
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.		<b>City Council District</b>			
		Location	B	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design		15,300					15,300	15,300
Construction								
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>		<b>15,300</b>					<b>15,300</b>	<b>15,300</b>
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		15,300					15,300	15,300
<b>Total Funds</b>		<b>15,300</b>					<b>15,300</b>	<b>15,300</b>

**2018-2022 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	
<b>Project Description</b>					
Wayfinding system for all IAH and HOU garage parking facilities.		<b>City Council District</b>			
		Location	B,E,I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
Current wayfinding signs are deficient causing frustration to our customers.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design							0	
Construction			2,500			2,500	2,500	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>			<b>2,500</b>			<b>2,500</b>	<b>2,500</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement			2,500			2,500	2,500	
<b>Total Funds</b>			<b>2,500</b>			<b>2,500</b>	<b>2,500</b>	

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: Hobby Drainage & Roadway Flooding - HOU WILLIAM P. HOBBY AIRPORT		Project No.		A-000580	
<b>Project Description</b>					
This project will provide drainage improvements at Hobby Airport.		<b>City Council District</b>			
		Location	I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design							0	
Construction			3,245				3,245	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>			<b>3,245</b>				<b>3,245</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement			3,245				3,245	
<b>Total Funds</b>			<b>3,245</b>				<b>3,245</b>	

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: Terminal A Modernization Program GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000581	
<b>Project Description</b>					
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.		<b>City Council District</b>			
		Location	B	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
The existing system provides no means for automated control of building systems, which negatively impacts 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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design		35,000				35,000	35,000	
Construction			40,000			40,000	40,000	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>		<b>35,000</b>	<b>40,000</b>			<b>75,000</b>	<b>75,000</b>	
<b>Source of Funds</b>								
REV BONDS/CP		35,000	40,000			75,000	75,000	
<b>Total Funds</b>		<b>35,000</b>	<b>40,000</b>			<b>75,000</b>	<b>75,000</b>	



**2018-2022 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	
<b>Project Description</b>					
Rehabilitate and expand stations including new vehicles bays, dormitory space, training area and offices to support Aircraft Rescue and Fire Fighting (ARFF) Management function.		<b>City Council District</b>			
		Location	B,E,I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design			1,900		175	2,075	2,075	
Construction				22,100	1,750	23,850	23,850	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>			<b>1,900</b>	<b>22,100</b>	<b>1,925</b>	<b>25,925</b>	<b>25,925</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement			1,900	22,100	1,925	25,925	25,925	
<b>Total Funds</b>			<b>1,900</b>	<b>22,100</b>	<b>1,925</b>	<b>25,925</b>	<b>25,925</b>	

**2018-2022 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	
<b>Project Description</b>					
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.		<b>City Council District</b>			
		Location	B,E,I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design		500					500	500
Construction		1,500	1,500	1,500			4,500	4,500
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>		<b>2,000</b>	<b>1,500</b>	<b>1,500</b>			<b>5,000</b>	<b>5,000</b>
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		2,000	1,500	1,500			5,000	5,000
<b>Total Funds</b>		<b>2,000</b>	<b>1,500</b>	<b>1,500</b>			<b>5,000</b>	<b>5,000</b>

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: Infrastructure Staff Augmentation - HAS HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)	Project No.	A-000600	
<b>Project Description</b>			
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.	<b>City Council District</b>		
	Location	B,E,I	Address Descr 2:
	Served:	CITYWIDE	Zip Codes:
	Key Map:		Category:
	Location Code:	UA-00	Sub-Category:
<b>Project Justification</b>			
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, ConstructionInspectors, CAD Designers and Data Entry Clerks.	Units:	0	
	Start Year:		
	RCC Total	\$	RCA Total \$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other		7,000		3,360	3,450	3,540	17,350	17,350
<b>Total Allocation</b>		<b>7,000</b>		<b>3,360</b>	<b>3,450</b>	<b>3,540</b>	<b>17,350</b>	<b>17,350</b>
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		7,000		3,360	3,450	3,540	17,350	17,350
<b>Total Funds</b>		<b>7,000</b>		<b>3,360</b>	<b>3,450</b>	<b>3,540</b>	<b>17,350</b>	<b>17,350</b>

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: PN720 HOU InternlFacility-LeaseAgrmnt.01 WILLIAM P. HOBBY AIRPORT		Project No.		A-000601	
<b>Project Description</b>					
To provide rent credits to Southwest Airlines for capital improvements to the existing terminal facility, office relocations and concessions shell space in the new International facility. Also to buy out the facility upon completion from Southwest Airlines.		<b>City Council District</b>			
		Location	I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
Credits provided to Southwest Airlines for the New Use and Lease Agreement at Hobby related to construction of the Hobby International Facility.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other		126,000					126,000	
<b>Total Allocation</b>		<b>126,000</b>					<b>126,000</b>	
<b>Source of Funds</b>								
REV BONDS/CP		126,000					126,000	
<b>Total Funds</b>		<b>126,000</b>					<b>126,000</b>	

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: On-Call Planning Services HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000602	
<b>Project Description</b>					
The airport system facility concept development, impact studies, and assessments.		<b>City Council District</b>			
		Location	B,E,I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other		7,500		3,360	3,450	3,540	17,850	17,850
<b>Total Allocation</b>		<b>7,500</b>		<b>3,360</b>	<b>3,450</b>	<b>3,540</b>	<b>17,850</b>	<b>17,850</b>
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		7,500		3,360	3,450	3,540	17,850	17,850
<b>Total Funds</b>		<b>7,500</b>		<b>3,360</b>	<b>3,450</b>	<b>3,540</b>	<b>17,850</b>	<b>17,850</b>

**2018-2022 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	
<b>Project Description</b>					
Deploy sentiments (smiley face) tablets in IAH and HOU restrooms.		<b>City Council District</b>			
		Location	B,E,I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
Provide better customer service.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design		200				200	200	
Construction		1,000				1,000	1,000	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>		<b>1,200</b>				<b>1,200</b>	<b>1,200</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		1,200				1,200	1,200	
<b>Total Funds</b>		<b>1,200</b>				<b>1,200</b>	<b>1,200</b>	

**2018-2022 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	
<b>Project Description</b>					
Build cell phone lots on JFK Boulevard and Will Clayton Boulevard.		<b>City Council District</b>			
		Location	B	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
This project will help reduce traffic congestion at the terminals.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction		5,445				5,445	5,445	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>		<b>5,445</b>				<b>5,445</b>	<b>5,445</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		5,445				5,445	5,445	
<b>Total Funds</b>		<b>5,445</b>				<b>5,445</b>	<b>5,445</b>	

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: PN900 .01 Public WIFI Servs & Equip HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000612	
<b>Project Description</b>					
Additional equipment / services needed to support current Public Wi-Fi System		<b>City Council District</b>			
		Location	B,E,I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
Customer Services		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other		608					608	608
<b>Total Allocation</b>		<b>608</b>					<b>608</b>	<b>608</b>
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		608					608	608
<b>Total Funds</b>		<b>608</b>					<b>608</b>	<b>608</b>



**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: SatelliteCntrlUtilities-SUP Facility-HOU WILLIAM P. HOBBY AIRPORT		Project No.		A-000614	
<b>Project Description</b>					
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.		<b>City Council District</b>			
		Location	I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction				8,175		8,625	16,800	16,800
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>				<b>8,175</b>		<b>8,625</b>	<b>16,800</b>	<b>16,800</b>
<b>Source of Funds</b>								
REV BONDS/CP				8,175		8,625	16,800	16,800
<b>Total Funds</b>				<b>8,175</b>		<b>8,625</b>	<b>16,800</b>	<b>16,800</b>

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: PN 691-GBAS-GROUND BASED AUGMENTATION SY GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000615	
<b>Project Description</b>					
Installation of additional navigation aids and upgrade the existing Ground Based Augmentation System (GBAS) Navigation Equipment Installed with Block II software.		<b>City Council District</b>			
		Location	B	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
This integration will improve availability, enable advanced approach and landing operations in the SBAS coverage region for GBAS installations utilizing this capability; reduce decision height operations; extend service volume; enhance differential correction positioning services (DCPS); and improve existing avionics.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other			300				300	
<b>Total Allocation</b>			<b>300</b>				<b>300</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement			300				300	
<b>Total Funds</b>			<b>300</b>				<b>300</b>	

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: Rehabilitation of Airfield Svc. Rd - EFD ELLINGTON AIRPORT		Project No.		A-000619	
<b>Project Description</b>					
Rehabilitate and upgrade portions of asphalt service road at Ellington.		<b>City Council District</b>			
		Location	E	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77034
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
Portion of airfield perimeter service road (10,000 linear feet) is in need of repair and resurfacing of asphalt. Portion of center field service road is in need of upgrade from gravel to asphalt. Service roads are critical to support maintenance of airfield to help limit the vehicle crossing of active runways.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction						2,547	2,547	2,547
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>						<b>2,547</b>	<b>2,547</b>	<b>2,547</b>
<b>Source of Funds</b>								
R&R						2,547	2,547	2,547
<b>Total Funds</b>						<b>2,547</b>	<b>2,547</b>	<b>2,547</b>

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: Public Addressing (PA) System HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000621	
<b>Project Description</b>					
Project is to replace the core components of current PA system at IAH & HOU.		<b>City Council District</b>			
		Location	B,E,I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
The current core components are aging and no longer practical to maintain public address functionality. It is the primary method of communication between airlines and passengers in gate holdroom areas. It is also one of the mechanisms for communicating information related to passenger safety and security.		Units:	0		
		Start Year:	2016		
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction		1,930				1,930	1,930	
Equipment Acquisition								
Salary Recovery								
Other	3,070						3,070	
<b>Total Allocation</b>	<b>3,070</b>	<b>1,930</b>				<b>1,930</b>	<b>5,000</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement	3,070	1,930				1,930	5,000	
<b>Total Funds</b>	<b>3,070</b>	<b>1,930</b>				<b>1,930</b>	<b>5,000</b>	

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

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

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design	3,591						3,591	
Construction	1,258	<b>55,000</b>		55,000		110,000	111,258	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>	<b>4,849</b>	<b>55,000</b>		<b>55,000</b>		<b>110,000</b>	<b>114,849</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement	4,849	<b>55,000</b>		55,000		110,000	114,849	
<b>Total Funds</b>	<b>4,849</b>	<b>55,000</b>		<b>55,000</b>		<b>110,000</b>	<b>114,849</b>	

**2018-2022 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	
<b>Project Description</b>					
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 basebuilding, the complete demolition and removal of the structure and restoring the site to a green field.		<b>City Council District</b>			
		Location	B	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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 the City/HAS.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction		3,063					3,063	3,063
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>		<b>3,063</b>					<b>3,063</b>	<b>3,063</b>
<b>Source of Funds</b>								
FAA/AIP		3,063					3,063	3,063
<b>Total Funds</b>		<b>3,063</b>					<b>3,063</b>	<b>3,063</b>

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: IAH Fleet Maintenance Building GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000625	
<b>Project Description</b>					
Build a new maintenance building fully air conditioned with efficient layout in addition to proper equipment.		<b>City Council District</b>			
		Location	B	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction		4,371				4,371	4,371	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>		<b>4,371</b>				<b>4,371</b>	<b>4,371</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		4,371				4,371	4,371	
<b>Total Funds</b>		<b>4,371</b>				<b>4,371</b>	<b>4,371</b>	

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: Term-A NO & SO Restroom Remodel GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000626	
<b>Project Description</b>					
Remodel and upgrade restrooms to improve the overall appearance of facilities and bring restrooms up to current codes and ADA requirements.		<b>City Council District</b>			
		Location	B	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction			4,635				4,635	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>			<b>4,635</b>				<b>4,635</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement			4,635				4,635	
<b>Total Funds</b>			<b>4,635</b>				<b>4,635</b>	



**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: Aerospace Design & Solution Lab - EFD ELLINGTON AIRPORT		Project No.		A-000629	
<b>Project Description</b>					
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 onsortium) and the aerospace industry to conduct research and development activities.		<b>City Council District</b>			
		Location	E	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77034
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design		1,500				1,500	1,500	
Construction		17,004				17,004	17,004	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>		<b>18,504</b>				<b>18,504</b>	<b>18,504</b>	
<b>Source of Funds</b>								
REV BONDS/CP		18,504				18,504	18,504	
<b>Total Funds</b>		<b>18,504</b>				<b>18,504</b>	<b>18,504</b>	

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: Hobby Parking Office WILLIAM P. HOBBY AIRPORT		Project No.		A-000630	
<b>Project Description</b>					
Build a new management office at Hobby to provide space for approximately 50 employees that work at the parking garage.		<b>City Council District</b>			
		Location	I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77061
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
A new office building is needed to provide the essential requirements, while considering an increase in employees when the new garage is completed.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction		1,800					1,800	1,800
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>		<b>1,800</b>					<b>1,800</b>	<b>1,800</b>
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		1,800					1,800	1,800
<b>Total Funds</b>		<b>1,800</b>					<b>1,800</b>	<b>1,800</b>

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: On Call Technology Contract HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000634	
<b>Project Description</b>					
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.		<b>City Council District</b>			
		Location	B,E,I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other		2,120	2,180	2,240	2,300	2,360	11,200	11,200
<b>Total Allocation</b>		<b>2,120</b>	<b>2,180</b>	<b>2,240</b>	<b>2,300</b>	<b>2,360</b>	<b>11,200</b>	<b>11,200</b>
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		2,120	2,180	2,240	2,300	2,360	11,200	11,200
<b>Total Funds</b>		<b>2,120</b>	<b>2,180</b>	<b>2,240</b>	<b>2,300</b>	<b>2,360</b>	<b>11,200</b>	<b>11,200</b>

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: Communication Cabling Infrastructure HOUSTON AIRPORT SYSTEM(IAH-HOU-EFD)		Project No.		A-000635	
<b>Project Description</b>					
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.		<b>City Council District</b>			
		Location	B,E,I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other						1,770	1,770	
<b>Total Allocation</b>						<b>1,770</b>	<b>1,770</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement						1,770	1,770	
<b>Total Funds</b>						<b>1,770</b>	<b>1,770</b>	

**2018-2022 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	
<b>Project Description</b>					
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.		<b>City Council District</b>			
		Location	B,E,I	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design								
Construction								
Equipment Acquisition								
Salary Recovery								
Other					7,630	7,630	7,630	
<b>Total Allocation</b>					<b>7,630</b>	<b>7,630</b>	<b>7,630</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement					7,630	7,630	7,630	
<b>Total Funds</b>					<b>7,630</b>	<b>7,630</b>	<b>7,630</b>	

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: TAXIWAY RA PAVEMENT REHAB GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000645	
<b>Project Description</b>					
Repair to the airside concrete panels along taxiway RA.		<b>City Council District</b>			
		Location	B	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
Concrete panels in severe deterioration and avoid safety impacts to passenger planes.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design							0	
Construction		976				976	976	
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>		<b>976</b>				<b>976</b>	<b>976</b>	
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		976				976	976	
<b>Total Funds</b>		<b>976</b>				<b>976</b>	<b>976</b>	

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: SPACEPORT INFRA DEVELOPMENT ELLINGTON AIRPORT		Project No.		A-000646	
<b>Project Description</b>					
This project is for Spaceport Phase I Infrastructure Development.		<b>City Council District</b>			
		Location	E	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77034
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
This project entails providing necessary infrastructure to support and expedite the opening of the new Project Eagle Facility.		Units:	0		
		Start Year:			
		RCC Total	\$	RCA Total	\$

Project Allocation	Previous Appropriations						2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning								
Acquisition-Land								
Design		1,760					1,760	1,760
Construction		15,840					15,840	15,840
Equipment Acquisition								
Salary Recovery								
Other								
<b>Total Allocation</b>		<b>17,600</b>					<b>17,600</b>	<b>17,600</b>
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement		17,600					17,600	17,600
<b>Total Funds</b>		<b>17,600</b>					<b>17,600</b>	<b>17,600</b>

**2018-2022 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

**CITY OF HOUSTON - AVIATION FACILITIES**

Project: Executive Program Manager Services-ITRP GEORGE BUSH INTERCONTINENTAL AIRPORT		Project No.		A-000800	
<b>Project Description</b>					
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.		<b>City Council District</b>			
		Location	B	Address Descr 2:	
		Served:	CITYWIDE	Zip Codes:	77032
		Key Map:		Category:	
		Location Code:	UA-00	Sub-Category:	
<b>Project Justification</b>					
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	2018-2022					2018-2022	Project Total
		2018	2019	2020	2021	2022		
Planning	27,000							27,000
Acquisition-Land								
Design		192,475		71			192,546	192,546
Construction	52,268	182,056	550,832	242,852			975,740	1,028,008
Equipment Acquisition								
Salary Recovery								
Other		43,836	28,000	35,841	18,522		126,199	126,199
<b>Total Allocation</b>	<b>79,268</b>	<b>418,367</b>	<b>578,832</b>	<b>278,764</b>	<b>18,522</b>		<b>1,294,485</b>	<b>1,373,753</b>
<b>Source of Funds</b>								
8011 - HAS-Airports Improvement	79,268	35,000	17,040	32,960			85,000	164,268
REV BONDS/CP		383,367	561,792	245,804	18,522		1,209,485	1,209,485
<b>Total Funds</b>	<b>79,268</b>	<b>418,367</b>	<b>578,832</b>	<b>278,764</b>	<b>18,522</b>		<b>1,294,485</b>	<b>1,373,753</b>