



Highlands Project Summary

San Jacinto River Authority - Highlands Division

2021-2030 Projects

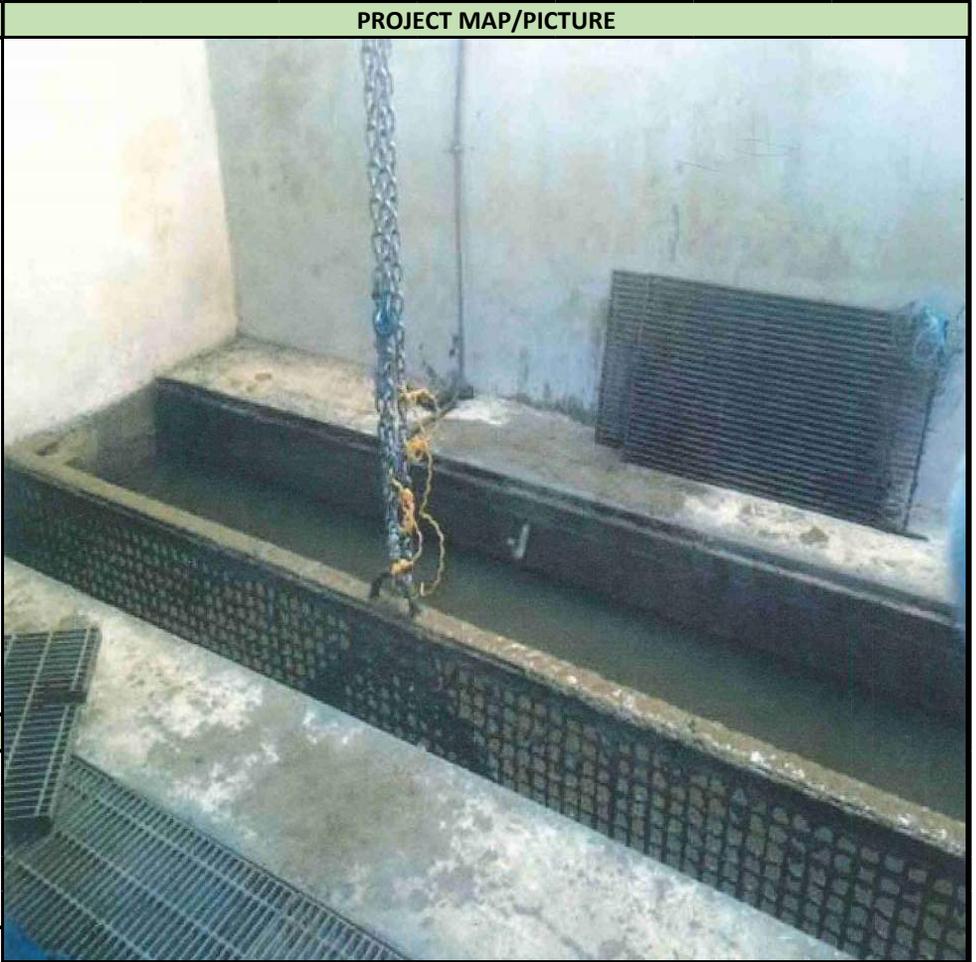
CIP PAGE NO.	PROJECT NO.	PROJECT NAME	PREVIOUS BUDGET	2021 ESTIMATE	2022 ESTIMATE	2023 ESTIMATE	2024 ESTIMATE	2025 ESTIMATE	2026 ESTIMATE	2027 ESTIMATE	2028 ESTIMATE	2029 ESTIMATE	2030 ESTIMATE	TOTAL
2	HPISC	Lake Houston Pump Station Intake Screen Channel Rehabilitation	\$ 173,331	\$ 232,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 405,331
3	HPSOR	Lake Houston Pump Station Campus Improvements	\$ 116,000	\$ 800,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 916,000
4	HPSC	Lake Houston Pump Station Communications Tower	\$ 24,050	\$ 352,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 376,050
5	HEOCT	Highlands EOC Communications Tower	\$ 28,550	\$ 418,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 446,550
6	HPSWR	Lake Houston Pump Station Ventilation Improvements	\$ 40,000	\$ 199,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 239,000
7	HSI29	Siphon 29 Improvements	\$ 232,811	\$ 1,352,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,585,311
	HSI29	Siphon 29 Improvements	\$ -	\$ 1,346,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,346,500
	HSI29	Siphon 29 Improvements	\$ -	\$ 850,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 850,000
8	HWRSS	Wallisville Road Siphon SCADA Improvements	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,000
9	HDRAC	Reservoir Access Culvert	\$ -	\$ 198,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 198,000
10	HBCBC	Bypass Canal Tree/Brush Clearing	\$ -	\$ 67,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 67,000
11	HS6GN	Siphon 6 Generator	\$ -	\$ 38,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,000
12	HPBSI	Pontikes Bridge SCADA Improvements	\$ -	\$ 22,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,000
13	HLHAT	Lake Houston Pump Station Generator Auto Transfer Switch	\$ -	\$ 132,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 132,000
14	HHRDI	Highlands Reservoir Dam Inspection	\$ -	\$ 33,000	\$ -	\$ -	\$ -	\$ -	\$ 37,000	\$ -	\$ -	\$ -	\$ -	\$ 70,000
15	HPSSI	Lake Houston Pump Station Security Improvements	\$ -	\$ 102,000	\$ 70,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 172,000
16	H2427	South Canal Levee Improvements between Siphons 24 and 27	\$ 125,848	\$ 98,000	\$ 700,000	\$ 415,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,338,848
	H2427	South Canal Levee Improvements between Siphons 24 and 27	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,000
17	HSI25	Siphon 25 Improvements	\$ 90,535	\$ 473,000	\$ 3,378,000	\$ 2,005,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,946,535
	HSI25	Siphon 25 Improvements	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000
18	HSI26	Siphon 26 Improvements	\$ 89,976	\$ 323,000	\$ 2,303,000	\$ 1,367,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,082,976
	HSI26	Siphon 26 Improvements	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000
19	HDEOC	Emergency Operations Center Improvements	\$ -	\$ 104,000	\$ 106,000	\$ 1,198,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,408,000
20	HDERP	Enterprise Resource Planning System	\$ -	\$ 125,000	\$ 125,000	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 375,000
21	HAR24	Reservoir Access Road	\$ -	\$ 39,000	\$ 282,000	\$ -	\$ 198,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 519,000
22	HNMSS	North Main Siphon SCADA Improvements	\$ -	\$ -	\$ 48,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 48,000
23	HSI07	Siphon 7 Improvements	\$ 2,241,434	\$ -	\$ -	\$ 672,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,913,434
24	HEPCT	East Canal Transfer Pump Station Communications Tower	\$ -	\$ -	\$ -	\$ 10,000	\$ 119,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 129,000
25	HS37T	Siphon 37 Communications Tower	\$ -	\$ -	\$ -	\$ 11,000	\$ 126,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 137,000
26	H108T	HCFC Ditch Siphon Communications Tower	\$ -	\$ -	\$ -	\$ 10,000	\$ 119,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 129,000
27	HSPCT	South Canal Transfer Pump Station Communications Tower	\$ -	\$ -	\$ -	\$ 12,000	\$ 134,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 146,000
28	HPSEV	Lake Houston Pump Station Pump and Motor Replacement	\$ -	\$ -	\$ -	\$ 70,000	\$ 72,000	\$ 1,390,000	\$ -	\$ 76,000	\$ 1,292,000	\$ -	\$ -	\$ 2,900,000
29	HMLRS	Main Canal Levee Improvements - Siphon 6 to Highlands Reservoir	\$ -	\$ -	\$ -	\$ 140,000	\$ 143,000	\$ 1,618,000	\$ -	\$ 152,000	\$ 154,000	\$ 1,717,000	\$ -	\$ 3,924,000
30	HDCDC	Water Conservation and Drought Contingency Plans	\$ 15,744	\$ -	\$ -	\$ -	\$ 26,000	\$ -	\$ -	\$ -	\$ -	\$ 28,000	\$ -	\$ 69,744
31	HMLRN	Main Canal Improvements - Lake Houston Pump Station to Siphon 6	\$ 1,690,740	\$ -	\$ -	\$ -	\$ 2,960,000	\$ 2,997,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,647,740
32	HSI16	Siphon 16 Improvements	\$ -	\$ -	\$ -	\$ -	\$ 125,000	\$ 256,000	\$ 2,859,000	\$ -	\$ -	\$ -	\$ -	\$ 3,240,000
33	HSI17	Siphon 17 Improvements	\$ -	\$ -	\$ -	\$ -	\$ 223,000	\$ 457,000	\$ 5,102,000	\$ -	\$ -	\$ -	\$ -	\$ 5,782,000
34	HESRL	Reservoir Levee Rehabilitation (East Side)	\$ -	\$ -	\$ -	\$ -	\$ 39,000	\$ 44,000	\$ 161,000	\$ -	\$ -	\$ -	\$ -	\$ 244,000
35	HDEAP	Highlands Reservoir Emergency Action Plan	\$ 134,303	\$ -	\$ -	\$ -	\$ -	\$ 78,000	\$ -	\$ -	\$ -	\$ -	\$ 84,000	\$ 296,303
36	HGART	Garth Road Siphon Improvements	\$ 29,664	\$ -	\$ -	\$ -	\$ -	\$ 184,000	\$ 374,000	\$ 4,171,000	\$ -	\$ -	\$ -	\$ 4,758,664
37	HDS2I	Structure 2 Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 188,000	\$ 1,398,000	\$ -	\$ -	\$ 1,586,000
38	HLHSR	Lake Houston Silt Removal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 164,000	\$ 921,000	\$ -	\$ -	\$ 1,085,000
39	HSI32	Siphon 32 Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 204,000	\$ 414,000	\$ 4,625,000	\$ -	\$ 5,243,000
40	HSI33	Siphon 33 Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 153,000	\$ 310,000	\$ 3,465,000	\$ -	\$ 3,928,000
41	HSI34	Siphon 34 Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 186,000	\$ 378,000	\$ 4,220,000	\$ 4,784,000
42	HSI21	Siphon 21 Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 185,000	\$ 375,000	\$ 4,183,000	\$ 4,743,000
		TOTAL 2015 TWDB BOND		\$ 930,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 930,000
		TOTAL PREVIOUSLY FUNDED R&R		\$ 1,346,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,346,500
		TOTAL R&R		\$ 5,167,500	\$ 7,012,000	\$ 6,035,000	\$ 4,284,000	\$ 7,024,000	\$ 8,533,000	\$ 5,108,000	\$ 4,860,000	\$ 10,588,000	\$ 8,487,000	\$ 67,098,500
	TOTALS		\$ 5,032,987	\$ 7,444,000	\$ 7,012,000	\$ 6,035,000	\$ 4,284,000	\$ 7,024,000	\$ 8,533,000	\$ 5,108,000	\$ 4,860,000	\$ 10,588,000	\$ 8,487,000	\$ 74,407,987

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Lake Houston Pump Station Intake Screen Channel Rehabilitation	HPISC	2020-2021	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

During previous rehabilitation work at the Lake Houston Pump Station, it was identified during silt removal efforts that the metal C-channels that the intake screens sit in have deteriorated. Currently, the intake screens don't sit properly within the channels requiring diver assistance to install or remove them for periodic maintenance activities. In 2019, a dive inspection was performed to further evaluate the intake screens and channels. Observations from this dive inspection confirmed that the channels were beyond a state of repair and would need to be replaced. It has also been recommended to replace the intake screens. This project will replace the existing metal screen channels to allow for proper alignment of the intake screens. The project will also include the procurement of new intake screens. The new intake screens will be designed to improve the fitting with the new screen channels and will include modifications to allow for easier installation and removal, without the assistance from divers.

The Lake Houston Pump Station facility, piping, and pumping system was constructed in 1955 and is in various degrees of disrepair. The required replacement of the intake screens and channels will ensure continued reliable and efficient operation of the pump station.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: Completed	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: Completed	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: Completed	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: June 2020	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: July 2020		
Substantial Completion: October 2020	<input type="checkbox"/> Capitalized	<input checked="" type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 27,864	\$ 27,864	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 45,467	\$ 45,467	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 325,000	\$ 100,000	\$ 225,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 7,000	\$ -	\$ 7,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 405,331	\$ 173,331	\$ 232,000	\$ -								

*Budget includes contingency.

PROJECT NAME:			PROJECT ID		FISCAL YEAR		DIVISION					
Lake Houston Pump Station Campus Improvements			HPSOR		2020-2021		Highlands					
PROJECT DESCRIPTION/JUSTIFICATION:					PROJECT MAP/PICTURE							
<p>Currently, the Lake Houston Pump Station (LHPS) is manned by an on-site operator that lives in an adjacent SJRA owned residence. The Highlands Division has initiated a transition of the pump station to be able to be operated remotely where a permanent on-site operator and associated residence will no longer be needed. However, there is still a need to provide on-site operator(s) during emergency operations. This project includes construction of a new multi-purpose emergency operations center at the LHPS site. The existing on-site residence is in disrepair and will be demolished under the scope of this Project. Installation of new utilities (septic, water well, etc.) will need to be completed. Project planning will include a master plan study of the LHPS site and will consider existing structure locations, proposed SCADA tower location, and potential locations for a new LHPS electrical building or other future facilities. The master plan study will help determine the most feasible location to place the proposed emergency operations center.</p> <p>Under normal operations the LHPS is planned to be operated remotely. During emergency events, on-site operator(s) at the LHPS will be stationed at the proposed emergency operations center and will provide for localized operational ability, routine maintenance, and improved response time.</p>												
PROJECT SCHEDULE			DELIVERY	FUNDING								
Initiate Cons. Selection: Completed			<input type="checkbox"/> DBB	<input type="checkbox"/> O&M								
PSA/WO Issued: May 2020			<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds								
Final Proposal Docs: December 2020			<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R								
Proposals/Bids Received: January 2021			<input type="checkbox"/> Other	<input type="checkbox"/> Other								
Constr. Contract to Board: February 2021			<input checked="" type="checkbox"/> Capitalized		<input type="checkbox"/> Expensed							
Substantial Completion: August 2021												
BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 116,000	\$ 116,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 67,000	\$ -	\$ 67,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 666,000	\$ -	\$ 666,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 67,000	\$ -	\$ 67,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 916,000	\$ 116,000	\$ 800,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

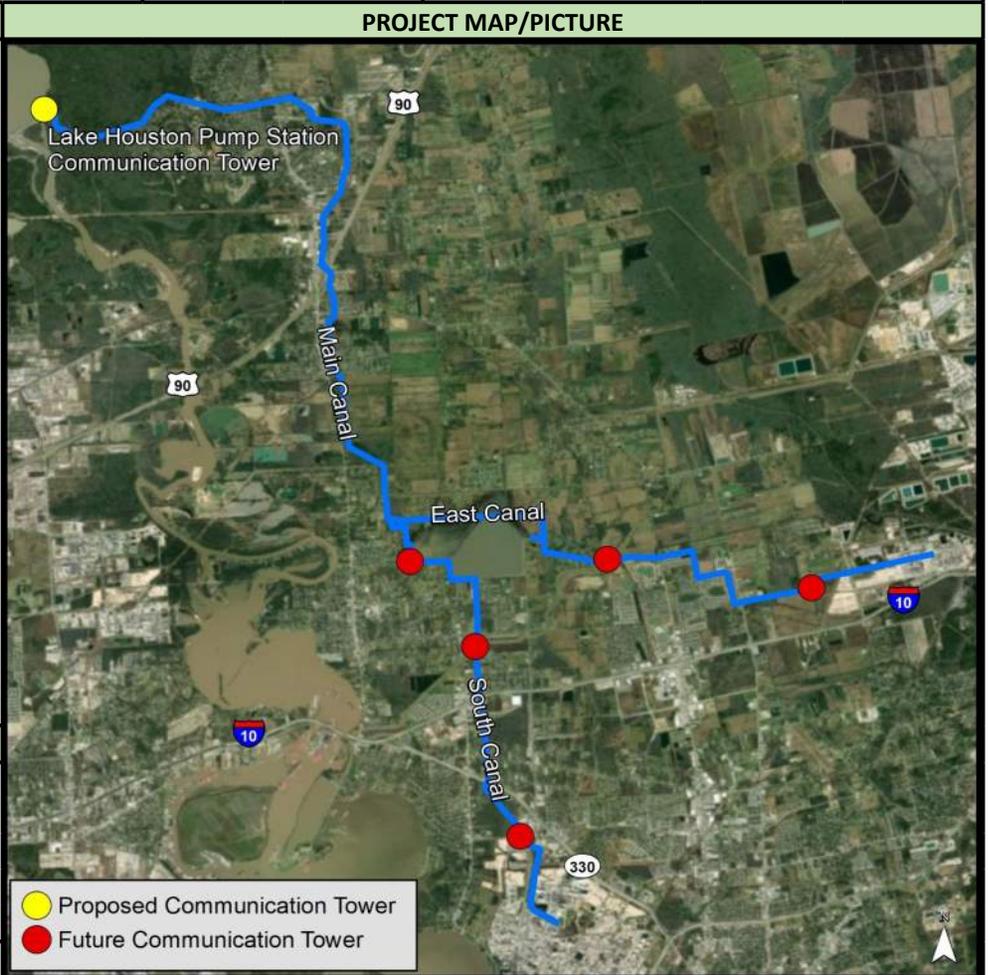
*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Lake Houston Pump Station Communications Tower	HP SCT	2020-2021	Highlands

The Highlands Division currently utilizes cellular technology for communication purposes at critical locations throughout the system. This communication system relays data (ex. pump run status, water control gate actuator status, water levels, canal flows, rain gauges, alarm conditions, etc.) back to the Highlands Division's Emergency Operations Center, and allows for remote monitoring and control of the site. This data is utilized to monitor and assist in making key operational decisions. This project consists of the construction of a 150 foot tall communication tower and all appurtenances at the Lake Houston Pump Station.

Construction of this tower will increase capabilities, improve reliability, and reduce points of failure and dependence on third parties, of the Highlands Division's communication system. Addition of the tower will allow for improved remote operational capabilities of the Lake Houston Pump Station.

Note: An existing aerial fiber optic line has recently been identified near the Lake Houston Pump Station. SJRA is currently evaluating the potential use of the fiber line as an alternative to construction of the communications tower at the Lake Houston Pump Station.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: Completed	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: Completed	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: October 2020	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: November 2020	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: January 2021	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed
Substantial Completion: July 2021		

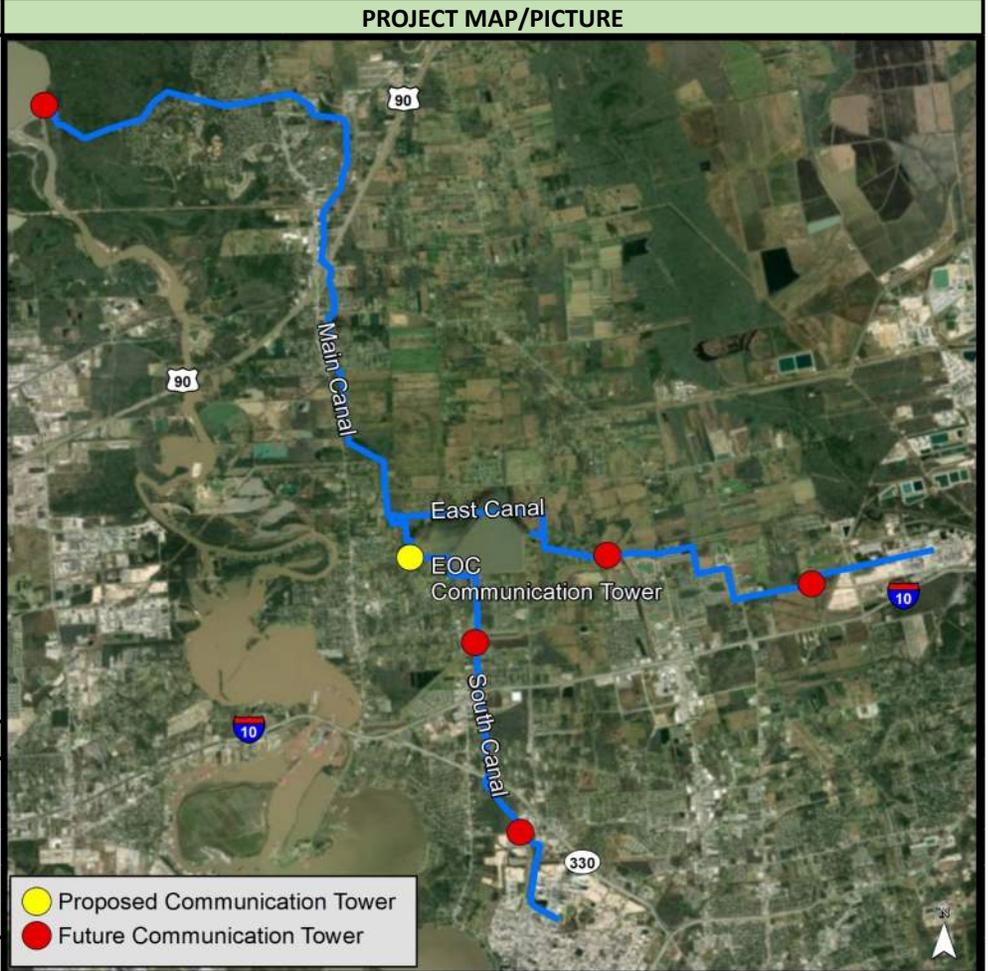
BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 24,050	\$ 24,050	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 320,000	\$ -	\$ 320,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 32,000	\$ -	\$ 32,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 376,050	\$ 24,050	\$ 352,000	\$ -								

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Highlands EOC Communications Tower	HEOCT	2020-2021	Highlands

The Highlands Division currently utilizes cellular technology for communication purposes at critical locations throughout the system. This communication system relays data (ex. pump run status, water control gate actuator status, water levels, canal flows, rain gauges, alarm conditions, etc.) back to the Highlands Division's Emergency Operations Center, and allows for remote monitoring and control of the site. This data is utilized to monitor and assist in making key operational decisions. This project consists of the construction of a 200 foot tall communication tower and all appurtenances at the Emergency Operations Center.

Construction of this tower will increase capabilities, improve reliability, and reduce points of failure and dependence on third parties, of the Highlands Division's communication system and the transmission of data to and from the Highlands Emergency Operations Center.



PROJECT SCHEDULE		DELIVERY	FUNDING
Initiate Cons. Selection:	Completed	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued:	Completed	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs:	October 2020	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received:	November 2020	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board:	January 2021	<input checked="" type="checkbox"/> Capitalized <input type="checkbox"/> Expensed	
Substantial Completion:	July 2021		

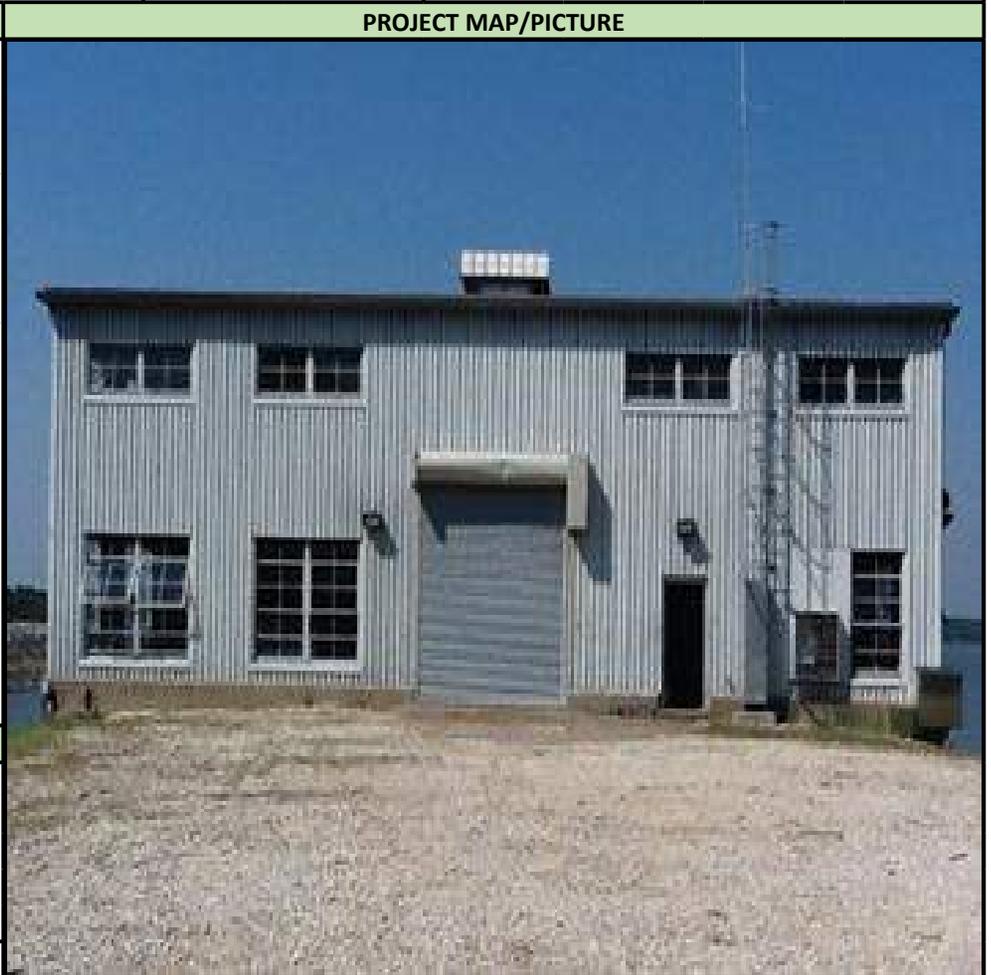
BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 28,550	\$ 28,550	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 380,000	\$ -	\$ 380,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 38,000	\$ -	\$ 38,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 446,550	\$ 28,550	\$ 418,000	\$ -								

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Lake Houston Pump Station Ventilation Improvements	HPSWR	2020-2021	Highlands

SJRA is currently in a transition phase and working towards having the ability to remotely operate the Lake Houston Pump Station. Currently, the pump station building has numerous large windows that are in various degrees of disrepair. Windows are required to be opened in order to provide adequate airflow to the pump motors. Having to operate with windows open, leads to issues with water intrusion into the pump station building during rain events which causes safety concerns. The current windows also have been identified as a site security risk and would require additional improvements such as storm shutters and security bars if they were to remain in-place. This Project includes the removal of the existing windows within the pump station building and the installation of a new improved ventilation system via louvers and exhaust fans. Improved lighting, backed up by the on-site generator, are currently being installed at the pump station by SJRA staff so windows will no longer be necessary for lighting purposes.

Project is required to improve site safety and security concerns, while maintaining adequate operational conditions for the pumps and motors. This project will also assist in the transition to remote operations of the pump station.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: Completed	<input type="checkbox"/> DBB	<input checked="" type="checkbox"/> O&M
PSA/WO Issued: Completed	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: December 2020	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: January 2021	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: February 2021	<input checked="" type="checkbox"/> Capitalized <input type="checkbox"/> Expensed	
Substantial Completion: July 2021		

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 40,000	\$ 40,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 17,000	\$ -	\$ 17,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 173,000	\$ -	\$ 173,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 9,000	\$ -	\$ 9,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 239,000	\$ 40,000	\$ 199,000	\$ -								

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Siphon 29 Improvements	HSI29	2019-2021	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Project includes removal or abandonment of existing siphon pipes, headwalls, and appurtenances, and replacement with new dual 72-inch diameter siphon pipes, and associated reinforced concrete headwalls, and other appurtenances, crossing Ellis School Road. Due to the close proximity of detour routes, Harris County has allowed for open-cut construction on Ellis School Road.

Project required due to age, structural condition, and potential for failure of existing siphons.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: Completed	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: Completed	<input type="checkbox"/> CMAR	<input checked="" type="checkbox"/> Bonds
Final Proposal Docs: July 2020	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: August 2020	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: September 2020	2015 TWDB	
Substantial Completion: June 2021	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

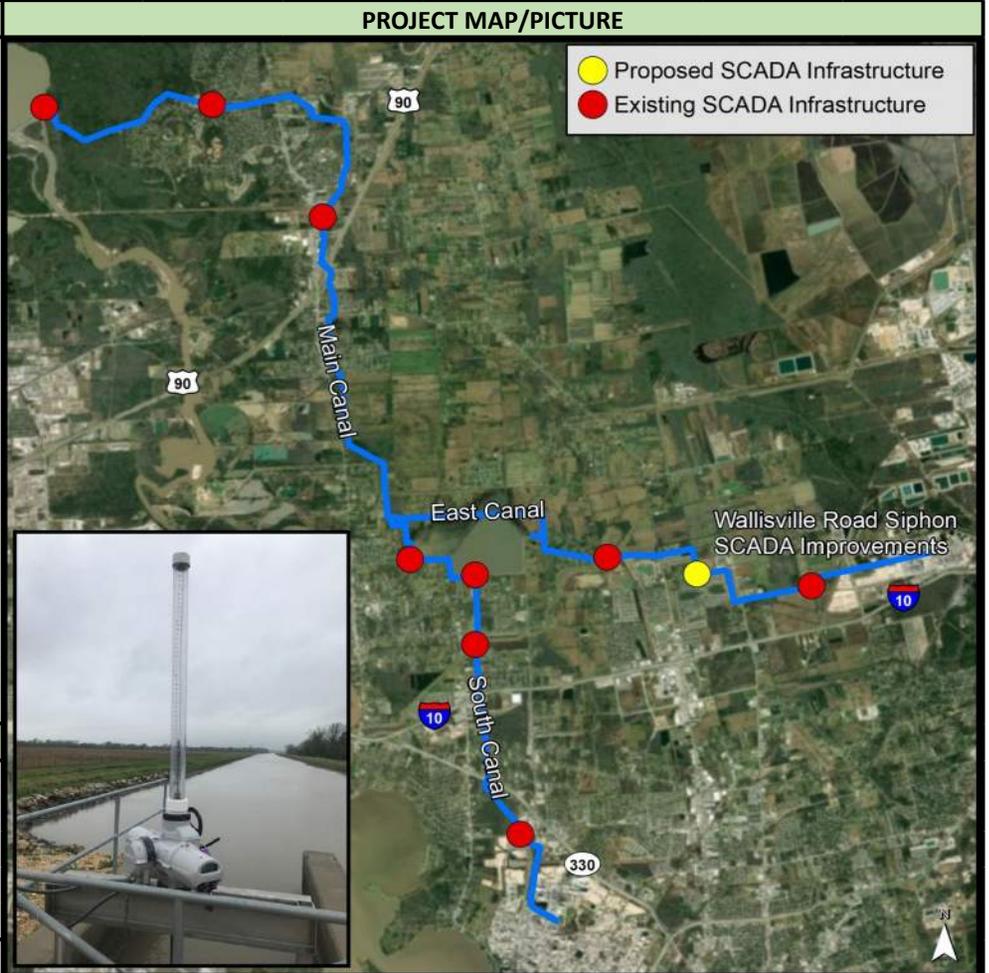
BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 122,306	\$ 122,306	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 110,505	\$ 110,505	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 3,226,000	\$ -	\$ 3,226,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 323,000	\$ -	\$ 323,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 3,781,811	\$ 232,811	\$ 3,549,000	\$ -								

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Wallisville Road Siphon SCADA Improvements	HWRSS	2021	Highlands

Wallisville Road Siphon, located on the East Canal, was improved in 2019 and includes new dual 48" siphon pipes, reinforced concrete intake/discharge structures and water control gates. This project will consist of the installation of SCADA infrastructure including water control gate electric actuators and water level meters. Canal water levels will be able to be monitored remotely and water control gates will be able to be operated remotely.

The remote monitoring and operational capabilities will improve operations of the canal system to convey raw water to customers.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: N/A	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: N/A	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: N/A	<input type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: N/A	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: N/A	In-House	
Substantial Completion: January 2021	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 7,000	\$ -	\$ 7,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 53,000	\$ -	\$ 53,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 60,000	\$ -	\$ 60,000	\$ -								

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Reservoir Access Culvert	HDRAC	2021	Highlands

Currently, an old wooden bridge crossing a Harris County Flood Control District drainage channel is located at the Southeast corner of the Highlands Reservoir near SJRA's East Canal Control Structure No. 5. The bridge is no longer safe to utilize for access to the Highlands Reservoir property. This project will consist of the removal of the existing bridge and replacement of the crossing with a new culvert or span bridge.

This project is necessary in order to provide adequate access for SJRA's routine maintenance equipment and personnel to the Southeastern side of the Highlands Reservoir and nearby critical canal control structures.

PROJECT MAP/PICTURE



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: August 2020	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: September 2020	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: February 2021	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: March 2021	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: April 2021		
Substantial Completion: July 2021	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 15,000	\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 15,000	\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 153,000	\$ -	\$ 153,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 15,000	\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 198,000	\$ -	\$ 198,000	\$ -								

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Bypass Canal Tree/Brush Clearing	HBCBC	2021	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

SJRA has recently acquired permanent easements to allow for the ability to perform necessary canal maintenance along the western levee of the Bypass Canal around the Highlands Reservoir. The western side of the canal has not been maintained due to lack of access and adequate easement to perform such work. This project will include the clearing of the trees and brush within the recently acquired easements to provide necessary access for canal operation and maintenance activities.

Project is required due to lack of access to this canal segment for routine operation and maintenance activities.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: N/A	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: N/A	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: August 2020	<input type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: September 2020	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: N/A	Annual Contract	
Substantial Completion: December 2020	<input type="checkbox"/> Capitalized	<input checked="" type="checkbox"/> Expensed

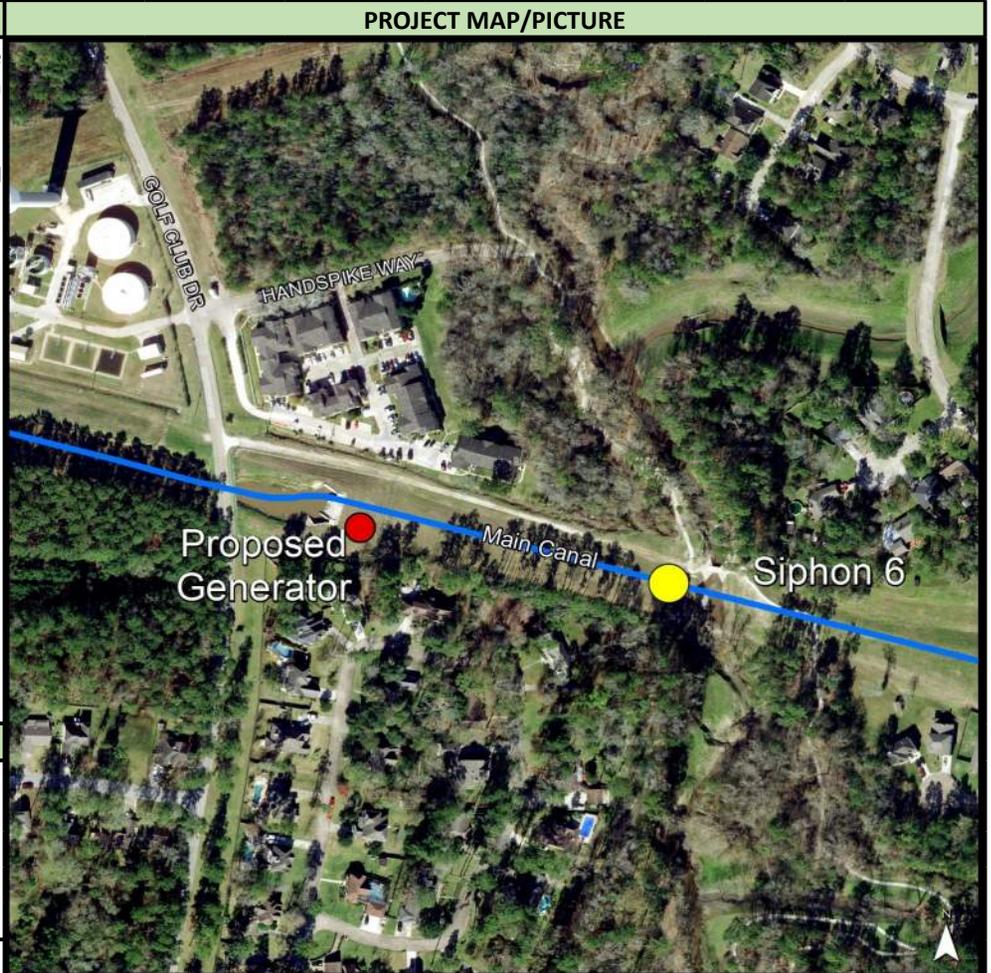
BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 67,000	\$ -	\$ 67,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 67,000	\$ -	\$ 67,000	\$ -								

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Siphon 6 Generator	HS6GN	2021	Highlands

Project consists of installing a natural gas generator at the upstream side of Siphon 6 located on the Main Canal. Generator will provide emergency power to critical SCADA infrastructure at this location including water control gate actuators and water level meters.

Project is necessary in order to provide increased redundancy and reliability of canal operations and the conveyance of raw water to customers during power outages.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: N/A	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: N/A	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: October 2020	<input type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: November 2020	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: N/A	Quotes	
Substantial Completion: February 2021	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

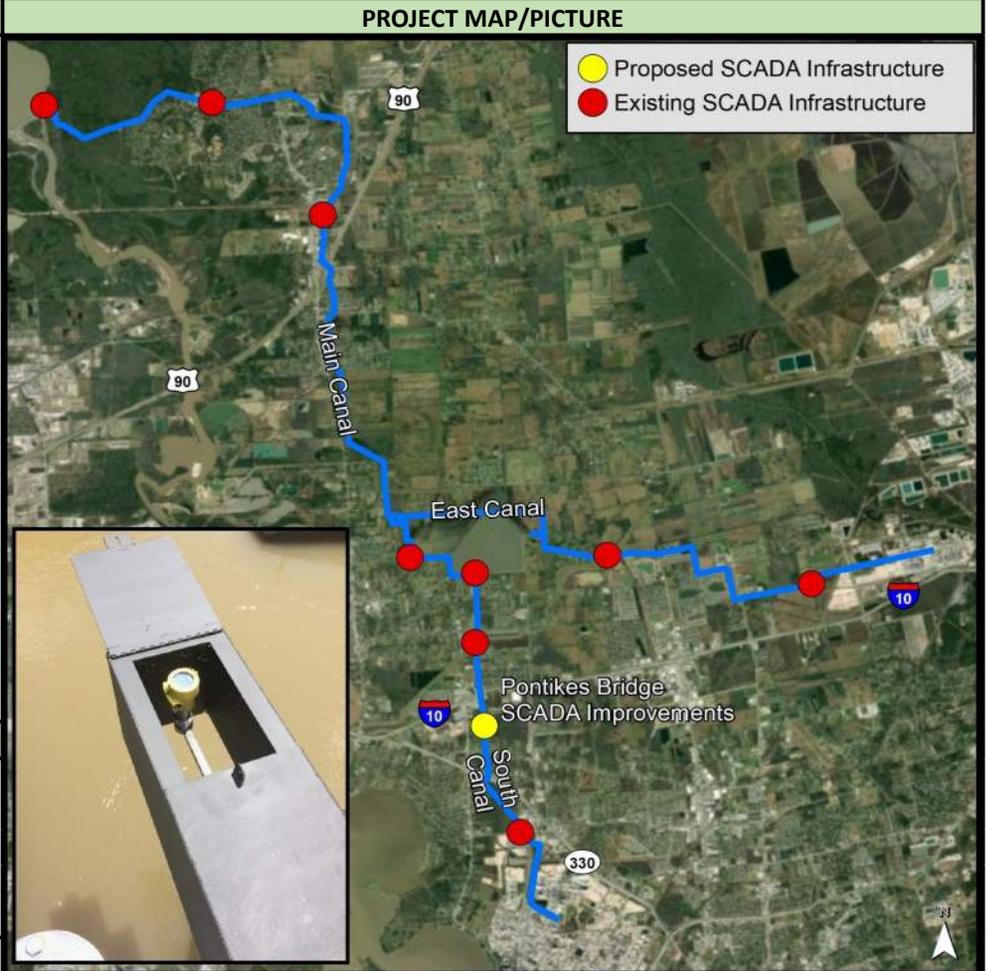
BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 13,000	\$ -	\$ 13,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 25,000	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 38,000	\$ -	\$ 38,000	\$ -								

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Pontikes Bridge SCADA Improvements	HPBSI	2021	Highlands

A private bridge crossing the South Canal is to be constructed in 2020. SJRA has executed a crossing agreement with the bridge owner which includes the right for SJRA to install SCADA infrastructure on the bridge crossing the canal. This project will consist of the installation of a water level meter on the bridge to remotely monitor canal water surface elevation at this location.

The remote monitoring capabilities provide by this project will improve operations of the canal system to convey raw water to customers.



PROJECT SCHEDULE		DELIVERY	FUNDING
Initiate Cons. Selection:	N/A	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued:	N/A	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs:	N/A	<input type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received:	N/A	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board:	N/A	In-House	
Substantial Completion:	March 2021	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 22,000	\$ -	\$ 22,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 22,000	\$ -	\$ 22,000	\$ -								

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Lake Houston Pump Station Generator Auto Transfer Switch	HLHAT	2021	Highlands

The Lake Houston Pump Station currently has a 500KW natural gas generator that will operate the pump station equipment during a power outage. The existing generator has to be manually started when a power outage occurs. This project consists of installing an automatic transfer switch and appurtenances at the Lake Houston Pump Station to allow for the generator to start automatically during a power outage. Project also includes construction of awnings around the generator building louvers to prevent water intrusions into the building during rain events.

This project will allow for increased reliability and reduced interruptions in flows of the pump station, which is critical in order to convey raw water to the Highlands Division's customers. This project will also allow the pump station to operate remotely with no on-site operator.

PROJECT MAP/PICTURE



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: September 2020	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: October 2020	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: February 2021	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: March 2021	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: April 2021		
Substantial Completion: August 2021	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 12,000	\$ -	\$ 12,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 120,000	\$ -	\$ 120,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 132,000	\$ -	\$ 132,000	\$ -								

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Highlands Reservoir Dam Inspection	HHRDI	2021/2026	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:
 Project includes inspection of the Highlands Reservoir Dam as required to occur every five (5) years per Texas Commission on Environmental Quality (TCEQ). The last inspection was completed in September 2015.

 Project is required to comply with TCEQ dam inspection requirements.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: July 2020/2025	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: August 2020/2025	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: N/A	<input type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: N/A	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: N/A	Professional	
Substantial Completion: January 2021/2026	<input type="checkbox"/> Capitalized	<input checked="" type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 70,000	\$ -	\$ 33,000	\$ -	\$ -	\$ -	\$ -	\$ 37,000	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 70,000	\$ -	\$ 33,000	\$ -	\$ -	\$ -	\$ -	\$ 37,000	\$ -	\$ -	\$ -	\$ -

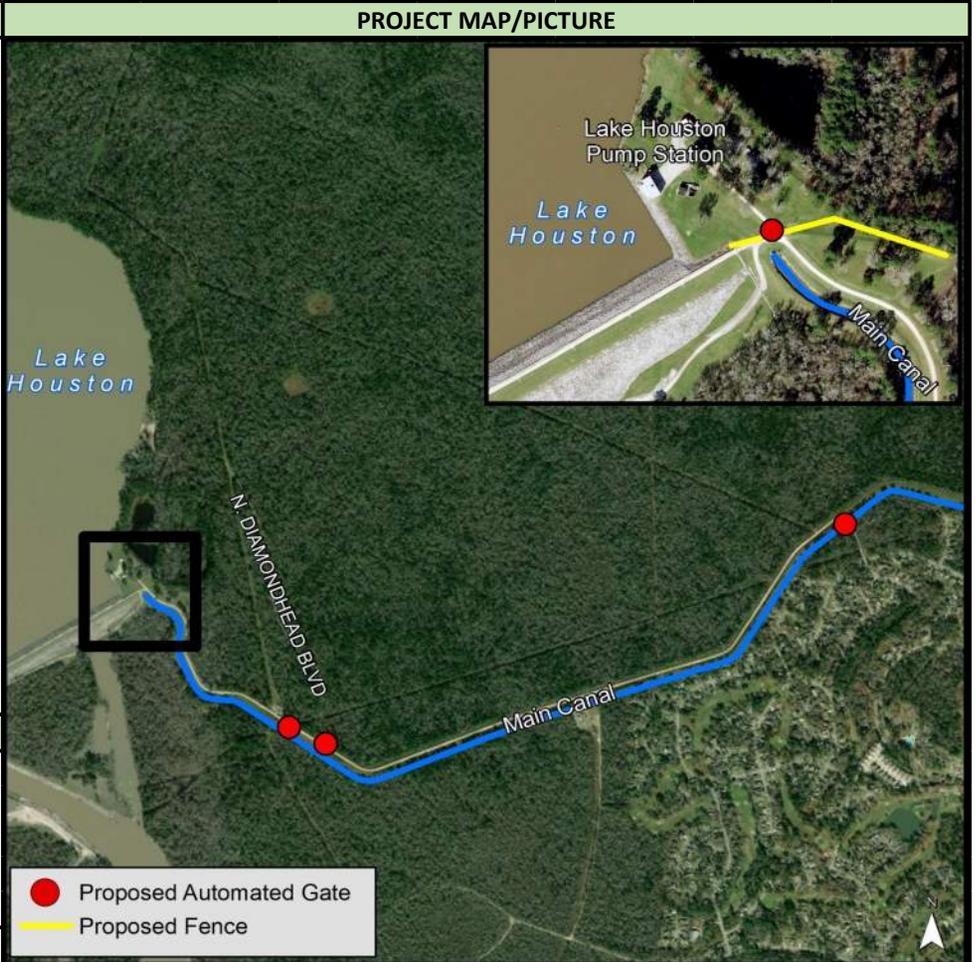
*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Lake Houston Pump Station Security Improvements	HPSSI	2021-2022	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Project includes installation of security cameras, an automated barrier gate, and approximately 700 linear feet of chain-link security fencing near the entrance of the Lake Houston Pump Station facility. These items are to be completed during Phase 1 of this Project. Phase 2 of the Project includes the installation of three (3) additional automated barrier gates along the Lake Houston Pump Station access road. Gates would be placed near Horizon Drive and South Diamondhead Boulevard.

These improvements will provide for increased site security at the Lake Houston Pump Station as SJRA transitions to remote operation of the pump station.



PROJECT SCHEDULE		DELIVERY	FUNDING
Initiate Cons. Selection:	N/A	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued:	N/A	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs:	November 2020	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received:	December 2020	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board:	N/A		
Substantial Completion:	March 2021/2022	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 15,000	\$ -	\$ 9,000	\$ 6,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 150,000	\$ -	\$ 89,000	\$ 61,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 7,000	\$ -	\$ 4,000	\$ 3,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 172,000	\$ -	\$ 102,000	\$ 70,000	\$ -							

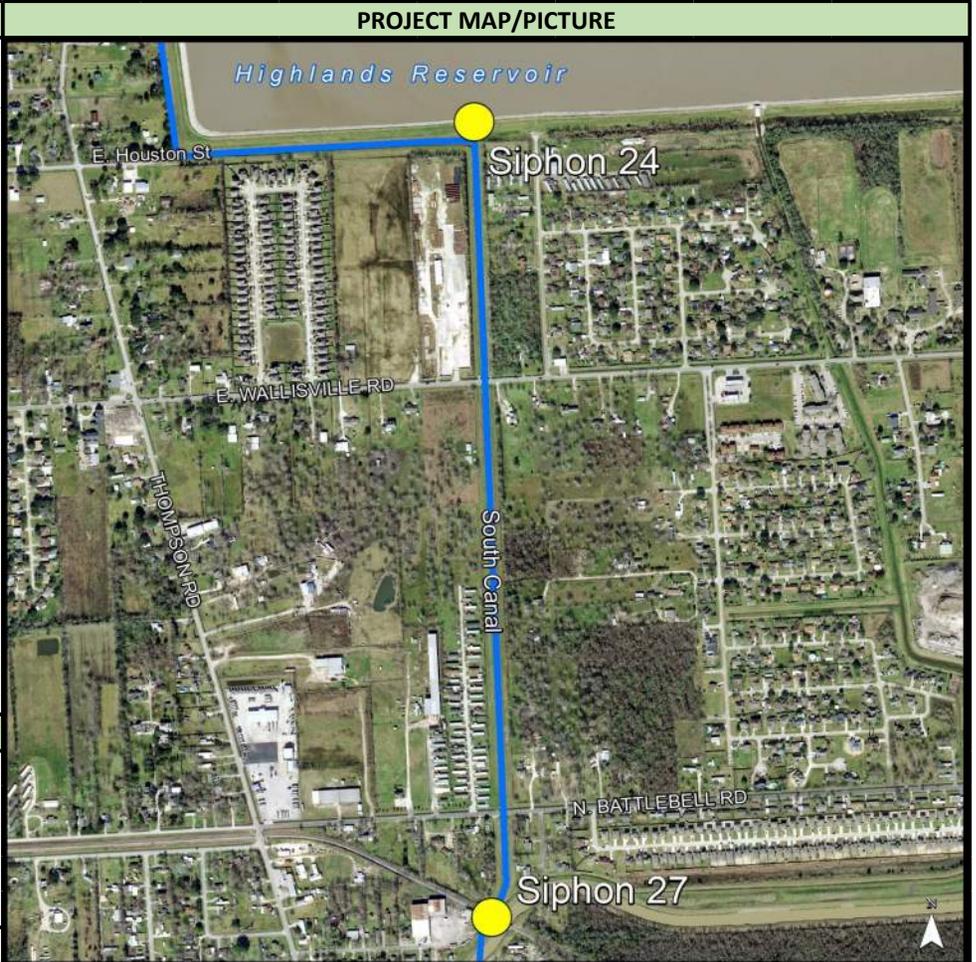
*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
South Canal Levee Improvements between Siphons 24 and 27	H2427	2017/2020-2023	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Improvements may include levee raising and widening, and interior/exterior slope regrading and/or slope protection. Improvements will provide additional canal capacity to meet future customer flow demands, and provide canal levee slope stability. Hydraulic analyses have shown that this reach of the canal includes potential capacity restricting levee issues. Field observations have identified significant erosion issues along this segment of the South Canal. In 2016, A Technical Memorandum was performed in-house by SJRA staff, with assistance from Texas Water Engineering. Currently, SJRA is performing a Preliminary Engineering Report on this section of canal with assistance from Texas Water Engineering. This Project is anticipated to be packaged with other South Canal projects, including Siphon 25 Improvements (HSI25) and Siphon 26 Improvements (HSI26), in order to achieve most efficient/lowest cost design and construction.

This project is necessary to provide reliable conveyance of flows to downstream customers along with improving the stability of the canal levees.



PROJECT SCHEDULE		DELIVERY	FUNDING
Initiate Cons. Selection:	Completed	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued:	Completed	<input type="checkbox"/> CMAR	<input checked="" type="checkbox"/> Bonds
Final Proposal Docs:	August 2021	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received:	November 2021	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board:	January 2022	2015 TWDB	
Substantial Completion:	December 2022	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 155,848	\$ 125,848	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 98,000	\$ -	\$ 98,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 1,013,000	\$ -	\$ -	\$ 636,000	\$ 377,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 102,000	\$ -	\$ -	\$ 64,000	\$ 38,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 1,368,848	\$ 125,848	\$ 128,000	\$ 700,000	\$ 415,000	\$ -						

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Siphon 25 Improvements	HSI25	2020-2023	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

This project will include removal or abandonment of existing siphon pipes, headwalls, and appurtenances, and replacement with new dual siphons, headwalls, in-pipe flow meters, water level meters, and other appurtenances. Project is located on the South Canal at the first crossing, Wallisville Road, downstream of the Highlands Reservoir. It is assumed open-cut construction on Wallisville Road will not be allowed and trenchless installation methods will need to be utilized for installation of the proposed siphon pipes. Currently, SJRA is performing a Preliminary Engineering Report on this siphon with assistance from Texas Water Engineering. Project is anticipated to be packaged with other South Canal projects including Siphon 26 Improvements (see sheet HSI26), and Canal Levee Improvements between Siphon 24 and Siphon 27 (see sheet H2427) in order to achieve most efficient/lowest cost design and construction.

Project is required due to age, structural condition, and potential for failure of existing siphon. Project will also increase hydraulic capacity and reduce head loss across the siphon structure.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: Completed	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: Completed	<input type="checkbox"/> CMAR	<input checked="" type="checkbox"/> Bonds
Final Proposal Docs: August 2021	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: November 2021	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: January 2022	2015 TWDB	
Substantial Completion: December 2022	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 115,535	\$ 90,535	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 473,000	\$ -	\$ 473,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 4,894,000	\$ -	\$ -	\$ 3,071,000	\$ 1,823,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 489,000	\$ -	\$ -	\$ 307,000	\$ 182,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 5,971,535	\$ 90,535	\$ 498,000	\$ 3,378,000	\$ 2,005,000	\$ -						

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Siphon 26 Improvements	HSI26	2020-2023	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

This project will include removal or abandonment of existing siphon pipes, headwalls, and appurtenances, and replacement with new dual siphons, headwalls, and appurtenances. Due to the close proximity of detour routes, it is assumed open-cut construction on Battlebell Road will be allowed. Currently, SJRA is performing a Preliminary Engineering Report on this siphon with assistance from Texas Water Engineering. Project is anticipated to be packaged with other South Canal projects including Siphon 25 Improvements (see sheet HSI25), and Canal Levee Improvements between Siphon 24 and Siphon 27 (see sheet H2427) in order to achieve most efficient/lowest cost design and construction.

Project is required due to age, structural condition, and potential for failure of existing siphon. Project will also increase hydraulic capacity and reduce head loss across the siphon structure.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: June 2020	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: Completed	<input type="checkbox"/> CMAR	<input checked="" type="checkbox"/> Bonds
Final Proposal Docs: August 2021	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: November 2021	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: January 2022	2015 TWDB	
Substantial Completion: December 2022	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 114,976	\$ 89,976	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 323,000	\$ -	\$ 323,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 3,337,000	\$ -	\$ -	\$ 2,094,000	\$ 1,243,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 333,000	\$ -	\$ -	\$ 209,000	\$ 124,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 4,107,976	\$ 89,976	\$ 348,000	\$ 2,303,000	\$ 1,367,000	\$ -						

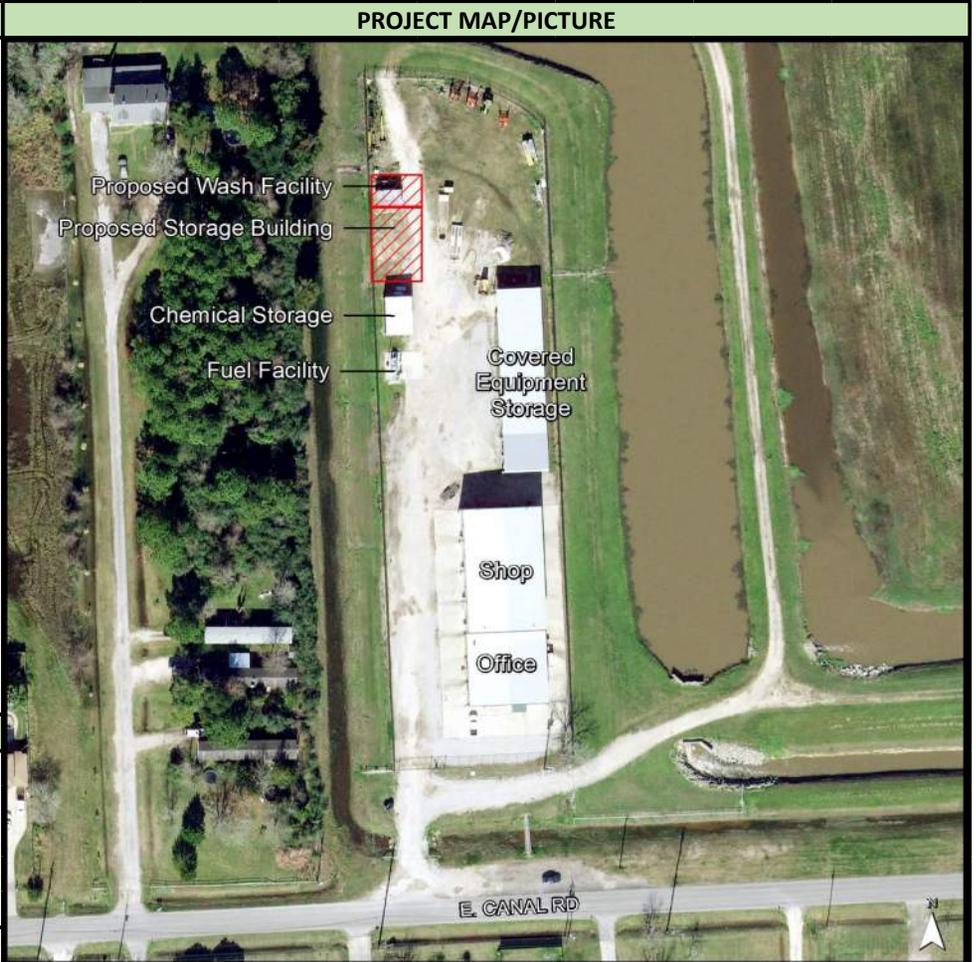
*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Emergency Operations Center Improvements	HDEOC	2021-2023	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Project includes the installation of a new storage/maintenance building, approximately 50' x 80' x 18', with extended canopy for an equipment wash facility. The Highlands Division equipment and materials inventory storage space is increasingly limited, especially within the existing Emergency Operations Center (EOC) building. The proposed storage building will house all small equipment and stop log trailer, and will include a vehicle lift to self service 1-ton pickup trucks. The storage building will include heating, ventilation, and a potential overhead crane. The extended canopy will incorporate a wash facility area for cleaning all Division equipment including tractors and commercial vehicles.

Project is required to provide additional storage space for Highlands Division to properly store and maintain all materials and equipment.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: December 2020	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: February 2021	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: August 2022	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: October 2022	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: December 2022	<input checked="" type="checkbox"/> Capitalized <input type="checkbox"/> Expensed	
Substantial Completion: 2023		

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 104,000	\$ -	\$ 104,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 106,000	\$ -	\$ -	\$ 106,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 1,089,000	\$ -	\$ -	\$ -	\$ 1,089,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 109,000	\$ -	\$ -	\$ -	\$ 109,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 1,408,000	\$ -	\$ 104,000	\$ 106,000	\$ 1,198,000	\$ -						

*Budget includes contingency.

PROJECT NAME:			PROJECT ID		FISCAL YEAR		DIVISION					
Enterprise Resource Planning System			HDERP		2021-2023		Highlands					
PROJECT DESCRIPTION/JUSTIFICATION:					PROJECT MAP/PICTURE							
<p>With software obsolescence and the changing paradigms over recent years as to the deployment of Enterprise Resource Planning (ERP) systems. It is time for the SJRA to evaluate our existing software. Some of the components will be reaching End of Life (EOL) in the near future and can no longer be updated or enhanced in our present deployment. This initial project will include a number of phases:</p> <ol style="list-style-type: none"> 1. Initial Requirements Gathering (This includes the primary stakeholder's "Must Haves") 2. Review of interconnections and dependencies between the ERP and other enterprise software applications. 3. Evaluation of new technologies to meet the above-mentioned needs and provide additional functionality for improved productivity and enhanced workflows. 4. Investigation as to the best deployment methodology i.e. On Premises, Cloud AKA Software as a Service (SaaS), or a Hybrid Model. <p>Upon completion of the above steps we will engage Subject Matter Experts (Internal and External) to complete a robust Request for Proposal (RFP). This will allow us to provide a clear vision for the intended outcome as well a more concise view of overall project costs.</p> <p>Financial considerations include an in-depth comparison of Total Cost of Ownership (TCO). An on premises deployment has a greater up-front capital expenditure with lower ongoing maintenance costs. SaaS (Cloud) typically have lower costs to entry with higher recurring costs. The reservation of these funds will place us in good standing for a successful budgeted deployment.</p>												
PROJECT SCHEDULE			DELIVERY	FUNDING								
Initiate Cons. Selection:	N/A		<input type="checkbox"/> DBB	<input type="checkbox"/> O&M								
PSA/WO Issued:	N/A		<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds								
Final Proposal Docs:	N/A		<input type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R								
Proposals/Bids Received:	N/A		<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other								
Constr. Contract to Board:	N/A											
Substantial Completion:	2023		<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed								
BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ 375,000	\$ -	\$ 125,000	\$ 125,000	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 375,000	\$ -	\$ 125,000	\$ 125,000	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

*Budget includes contingency.

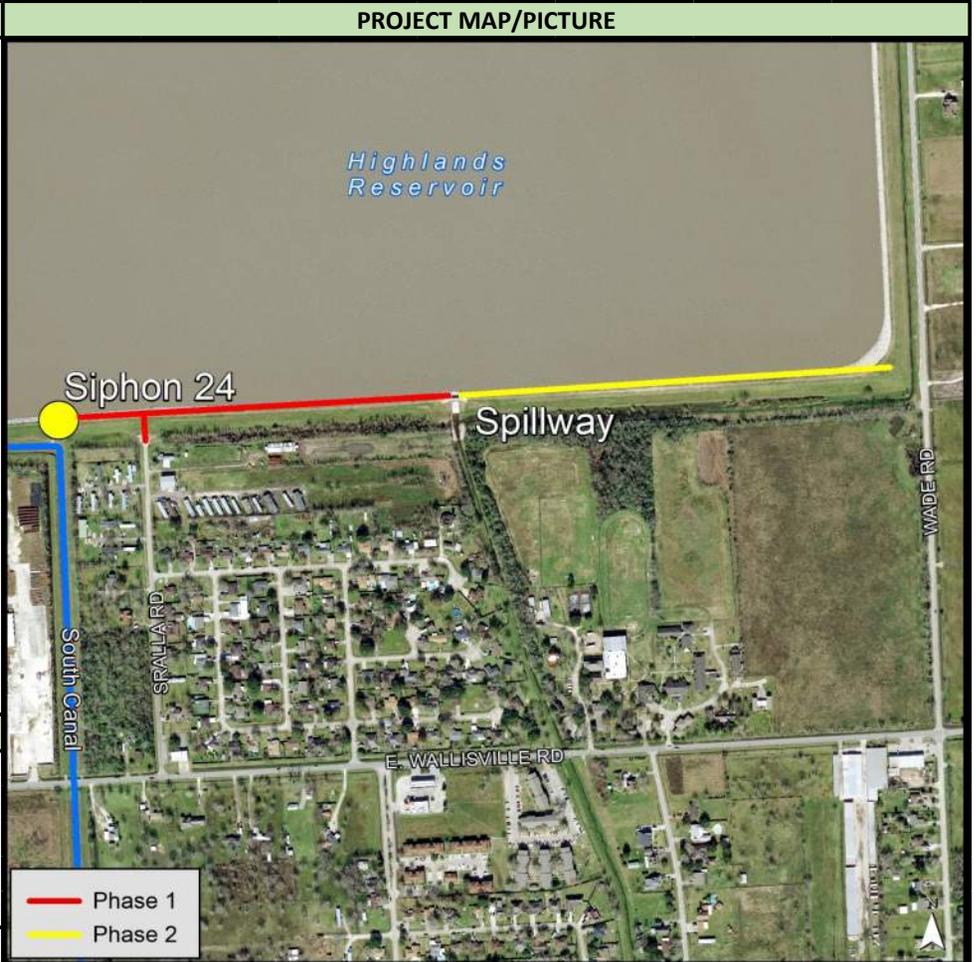
PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Reservoir Access Road	HAR24	2021-2022/2024	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Project includes installation of a gravel all-weather access roadway from Sralla Road to Siphon 24 and Spillway located on the Highlands Reservoir. At times during inclement weather it is necessary for SJRA staff to access these structures to install stop logs, open/close water control gates, and perform other maintenance and operational changes.

A second phase of the Project would extend the all-weather access roadway from the Spillway to the eastern end of the Highlands Reservoir. This would allow for an improved turnaround area on the east end and provide access to a potential material storage area where materials such as riprap could be stockpiled for emergency purposes.

An all weather access roadway will provide staff with a more reliable way to access critical structures during wet weather events.



PROJECT SCHEDULE		DELIVERY	FUNDING
Initiate Cons. Selection:	January 2021/2023	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued:	March 2021/2023	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs:	August 2021/2024	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received:	September 2021/2024	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board:	October 2021/2024		
Substantial Completion:	March 2022/2024	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

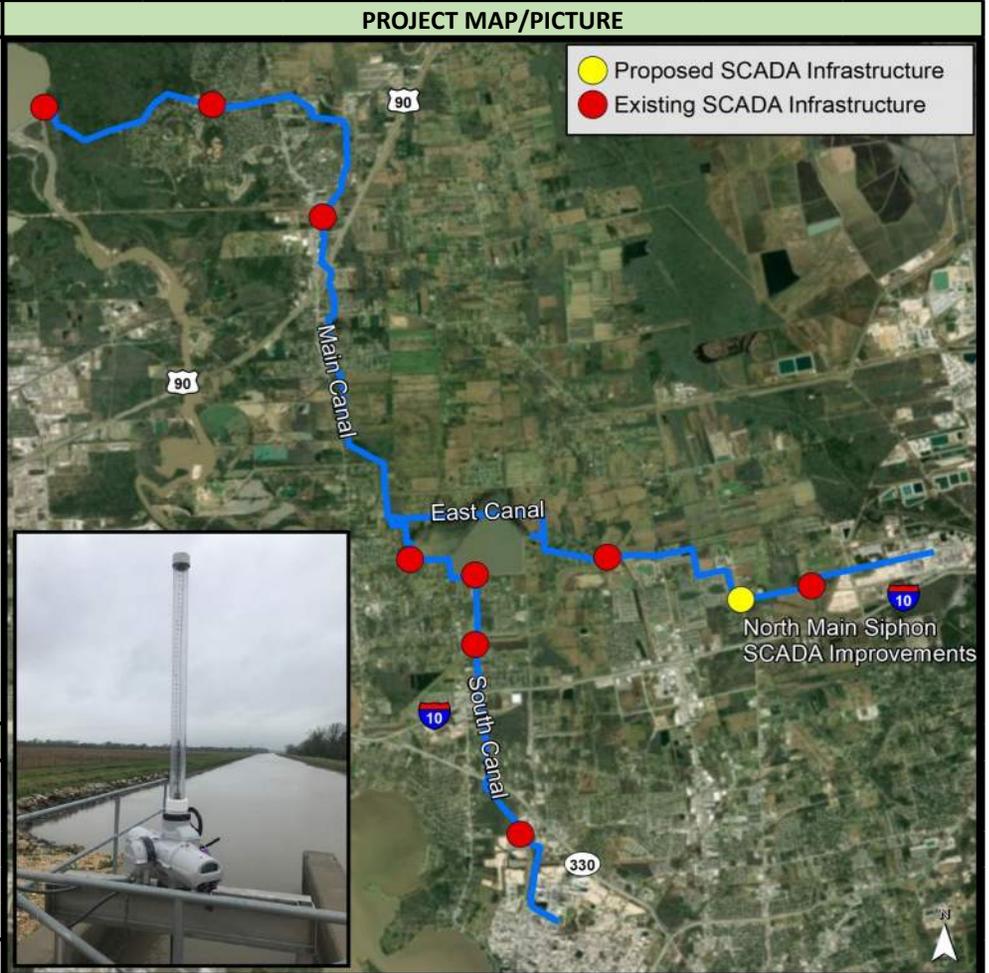
BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 13,000	\$ -	\$ 13,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 43,000	\$ -	\$ 26,000	\$ -	\$ -	\$ 17,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 441,000	\$ -	\$ -	\$ 269,000	\$ -	\$ 172,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 22,000	\$ -	\$ -	\$ 13,000	\$ -	\$ 9,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 519,000	\$ -	\$ 39,000	\$ 282,000	\$ -	\$ 198,000	\$ -					

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
North Main Siphon SCADA Improvements	HNMS	2022	Highlands

North Main Siphon, located on the East Canal, was improved in 2017 and includes new dual 48" siphon pipes, reinforced concrete intake/discharge structures and water control gates. This project will consist of the installation of SCADA infrastructure including water control gate electric actuators and water level meters. Canal water levels will be able to be monitored remotely and water control gates will be able to be operated remotely.

The remote monitoring and operational capabilities will improve operations of the canal system to convey raw water to customers.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: N/A	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: N/A	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: N/A	<input type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: N/A	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: N/A	In-House	
Substantial Completion: June 2022	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 48,000	\$ -	\$ -	\$ 48,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 48,000	\$ -	\$ -	\$ 48,000	\$ -							

*Budget includes contingency.

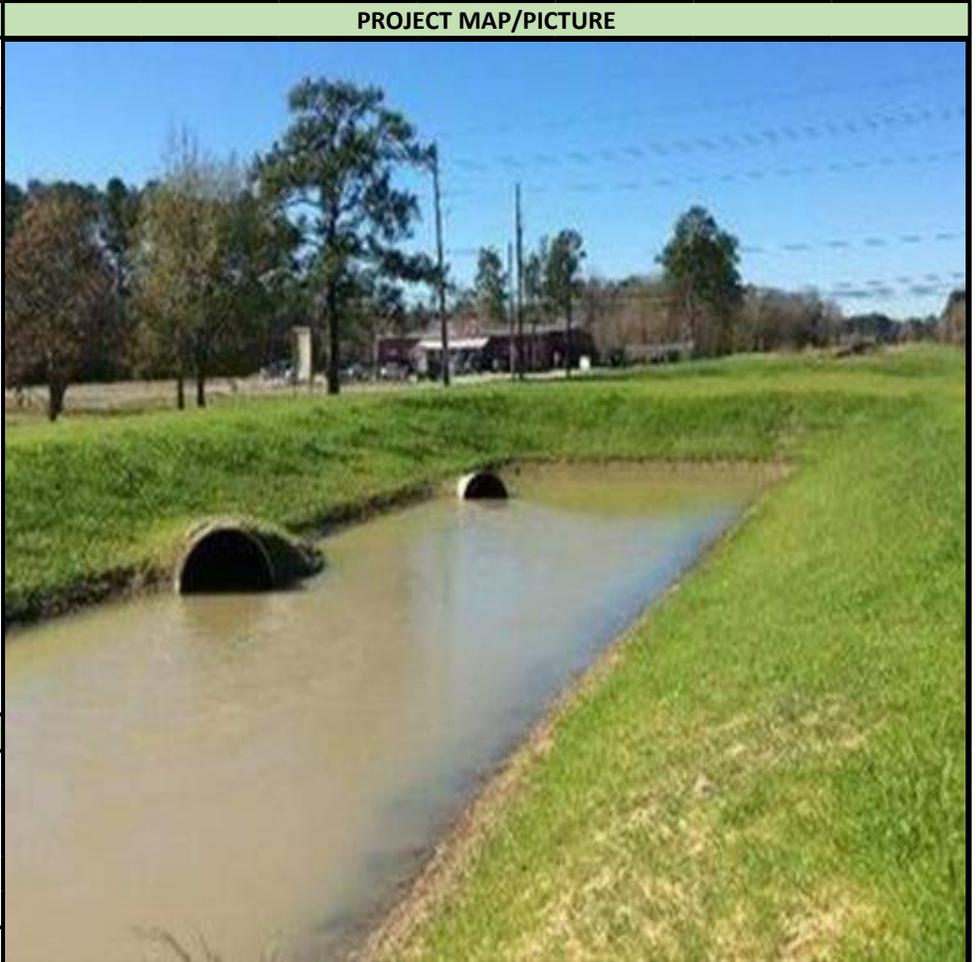
PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Siphon 7 Improvements	HSI07	2016-2020/2023	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Phase 1 of this project included the installation of a long-term temporary canal bypass system designed to adequately pass up to 60 MGD, with 1.5 feet of freeboard, in the Main Canal. The bypass system is required to accommodate the widening of FM 2100 by Texas Department of Transportation (TxDOT). Ultimately, Siphon 7 will consist of dual 4 ft. x 8 ft. box culverts, to be constructed by TxDOT's Contractor. Currently, SJRA has no access to its easement off of FM 2100 on the east side due to a roadside drainage ditch. During the road expansion, TxDOT will provide improved access to SJRA's easement by placing curb cuts on both the east and west sides of FM 2100. Also, no road median will be installed across SJRA's easement.

Phase 2 of this project will consist of removal/abandonment of the temporary canal bypass system, removal of earthen cofferdams, and canal levee work to transition the existing canal levees to the new culvert crossing. Phase 2 work will be performed by SJRA's contractor.

Project required due to age, structural condition, and potential for failure of existing siphon. This project has been accelerated in SJRA's Project Plan due to TxDOT's project to widen FM 2100.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: June 2022	<input type="checkbox"/> DBB	<input checked="" type="checkbox"/> O&M
PSA/WO Issued: August 2022	<input type="checkbox"/> CMAR	<input checked="" type="checkbox"/> Bonds
Final Proposal Docs: 2023	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: 2023	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: 2023	2015 TWDB	
Substantial Completion: 2023	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

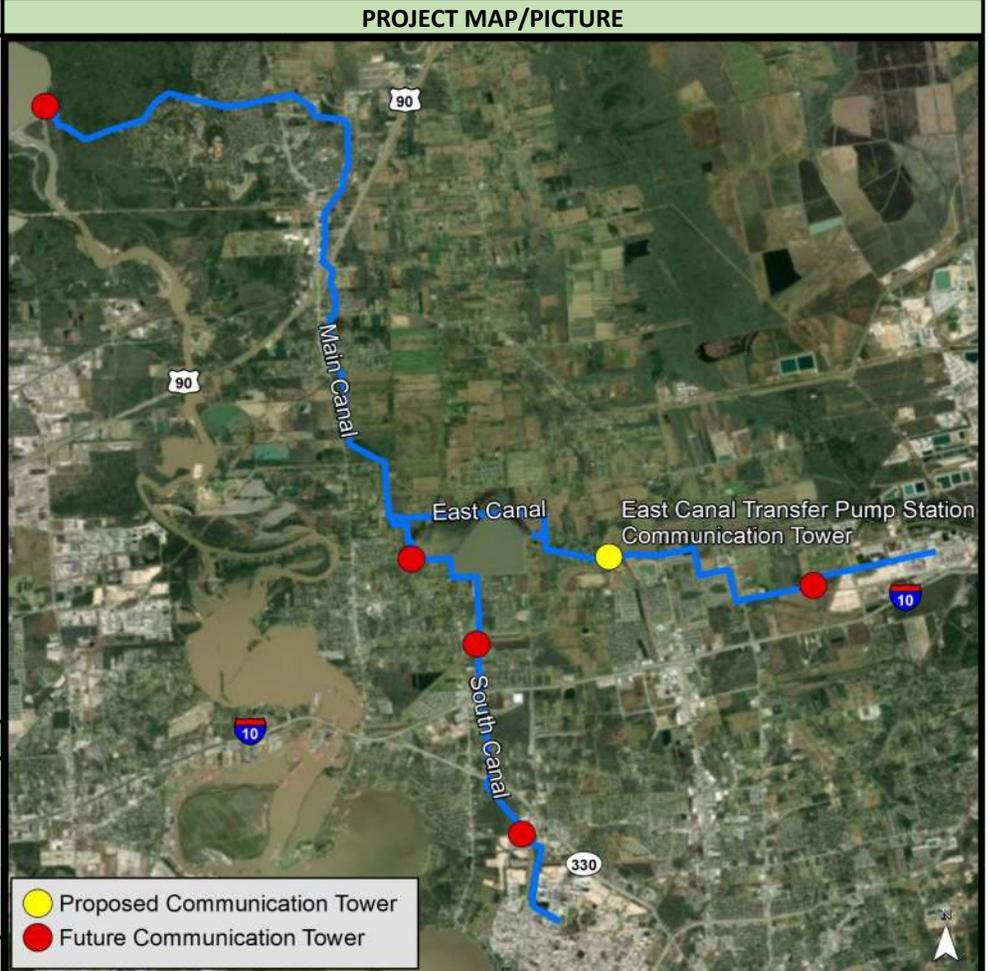
BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 130,462	\$ 130,462	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 149,064	\$ 93,064	\$ -	\$ -	\$ 56,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 2,411,340	\$ 1,851,340	\$ -	\$ -	\$ 560,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 210,610	\$ 154,610	\$ -	\$ -	\$ 56,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ 11,958	\$ 11,958	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 2,913,434	\$ 2,241,434	\$ -	\$ -	\$ 672,000	\$ -						

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
East Canal Transfer Pump Station Communications Tower	HEPCT	2023-2024	Highlands

The Highlands Division currently utilizes cellular technology for communication purposes at critical locations throughout the system. This communication system relays data (ex. pump run status, water control gate actuator status, water levels, canal flows, rain gauges, alarm conditions, etc.) back to the Highlands Division's Emergency Operations Center, and allows for remote monitoring and control of the site. This data is utilized to monitor and assist in making key operational decisions. This project consists of the construction of a 80 foot tall communication tower and all appurtenances at the East Canal Transfer Pump Station.

Construction of this tower will increase capabilities, improve reliability, and reduce points of failure and dependence on third parties, of the Highlands Division's communication system and the transmission of data to and from the East Canal Transfer Pump Station. Project is anticipated to be designed and constructed in conjunction with other proposed towers (see Project sheets HS37T, H108T, and HSPCT) in order to achieve most efficient/lowest cost.



PROJECT SCHEDULE		DELIVERY	FUNDING
Initiate Cons. Selection:	October 2022	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued:	December 2022	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs:	2023	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received:	2023	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board:	2023	<input checked="" type="checkbox"/> Capitalized <input type="checkbox"/> Expensed	
Substantial Completion:	2024		

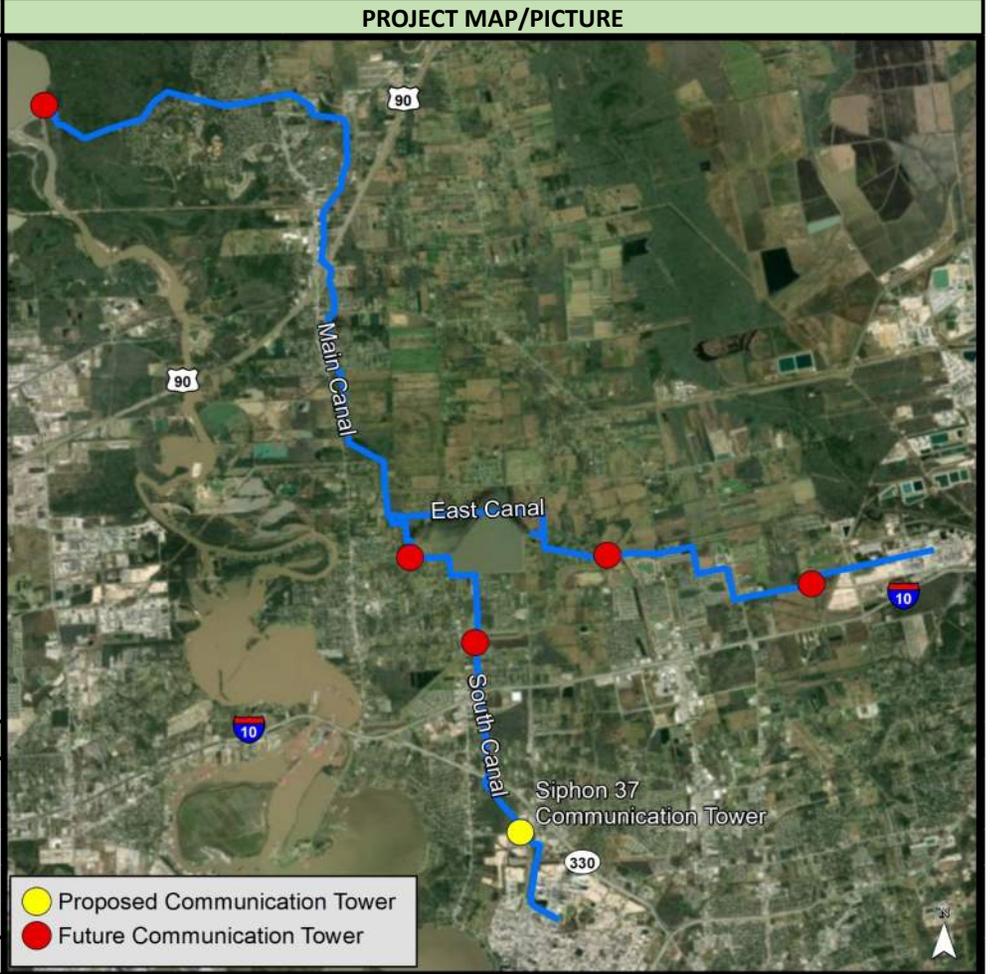
BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 10,000	\$ -	\$ -	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 108,000	\$ -	\$ -	\$ -	\$ -	\$ 108,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 11,000	\$ -	\$ -	\$ -	\$ -	\$ 11,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 129,000	\$ -	\$ -	\$ -	\$ 10,000	\$ 119,000	\$ -					

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Siphon 37 Communications Tower	HS37T	2023-2024	Highlands

The Highlands Division currently utilizes cellular technology for communication purposes at critical locations throughout the system. This communication system relays data (ex. pump run status, water control gate actuator status, water levels, canal flows, rain gauges, alarm conditions, etc.) back to the Highlands Division's Emergency Operations Center, and allows for remote monitoring and control of the site. This data is utilized to monitor and assist in making key operational decisions. This project consists of the construction of a 80 foot tall communication tower and all appurtenances at the Siphon 37. Siphon 37 is located at a critical location along the South Canal near industrial customers and currently includes water control gates, flow meters, level sensors, and a rain gauge.

Construction of this tower will increase capabilities, improve reliability, reduce points of failure, and limit the dependence on third parties for the Highlands Division's communication system in the transmission of data to and from Siphon 37. Project is anticipated to be designed and constructed in conjunction with other proposed towers (see Project sheets HEPCT, H108T, and HSPCT) in order to achieve most efficient/lowest cost.



PROJECT SCHEDULE		DELIVERY	FUNDING
Initiate Cons. Selection:	October 2022	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued:	December 2022	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs:	2023	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received:	2023	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board:	2023	<input checked="" type="checkbox"/> Capitalized <input type="checkbox"/> Expensed	
Substantial Completion:	2024		

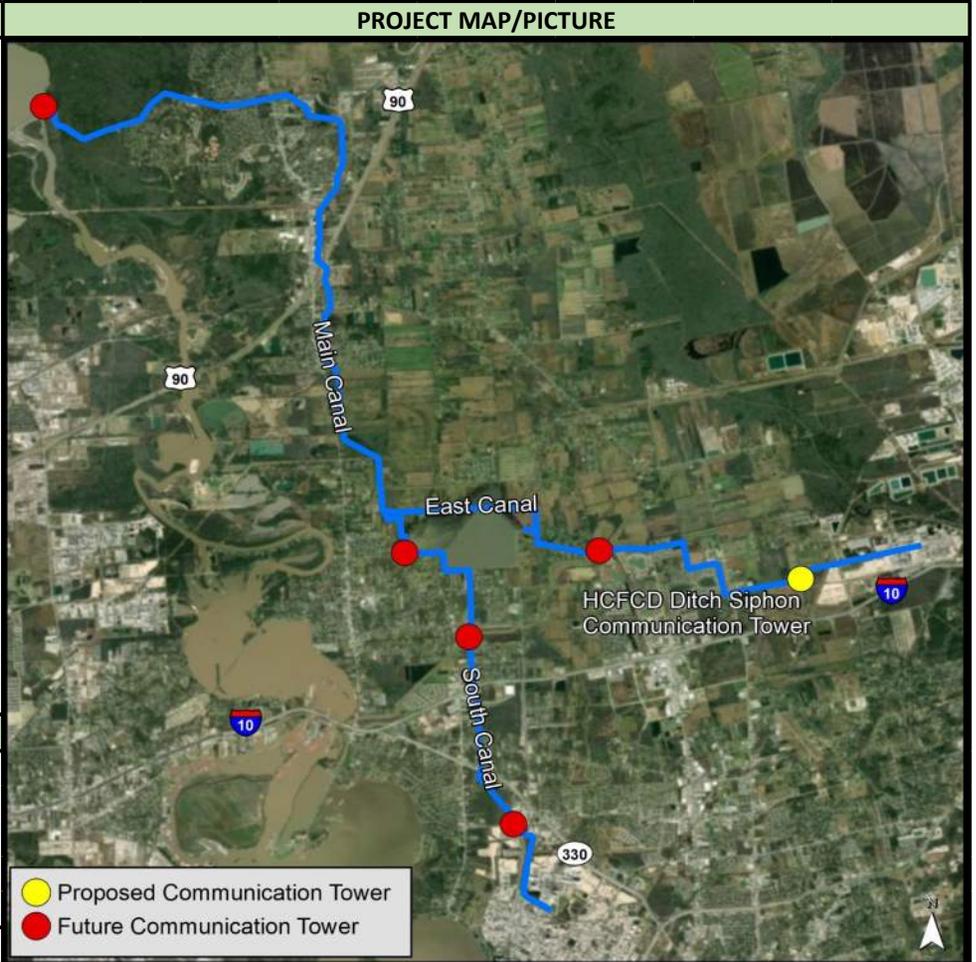
BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 11,000	\$ -	\$ -	\$ -	\$ 11,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 115,000	\$ -	\$ -	\$ -	\$ -	\$ 115,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 11,000	\$ -	\$ -	\$ -	\$ -	\$ 11,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 137,000	\$ -	\$ -	\$ -	\$ 11,000	\$ 126,000	\$ -					

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
HCFC Ditch Siphon Communications Tower	H108T	2023-2024	Highlands

The Highlands Division currently utilizes cellular technology for communication purposes at critical locations throughout the system. This communication system relays data (ex. pump run status, water control gate actuator status, water levels, canal flows, rain gauges, alarm conditions, etc.) back to the Highlands Division's Emergency Operations Center, and allows for remote monitoring and control of the site. This data is utilized to monitor and assist in making key operational decisions. This project consists of the construction of a 80 foot tall communication tower and all appurtenances at the Harris County Flood Control Ditch Siphon. The Harris County Flood Control Ditch Siphon is located at a critical location along the East Canal near a large industrial customer and currently includes water control gates, flow meters, level sensors, and a rain gauge.

Construction of this tower will increase capabilities, improve reliability, reduce points of failure, and limit the dependence on third parties for the Highlands Division's communication system in the transmission of data to and from the Harris County Flood Control Ditch Siphon. Project is anticipated to be designed and constructed in conjunction with other proposed towers (see Project sheets HS37T, HEPCT, and HSPCT) in order to achieve most efficient/lowest cost.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: October 2022	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: December 2022	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: 2023	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: 2023	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: 2023		
Substantial Completion: 2024	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

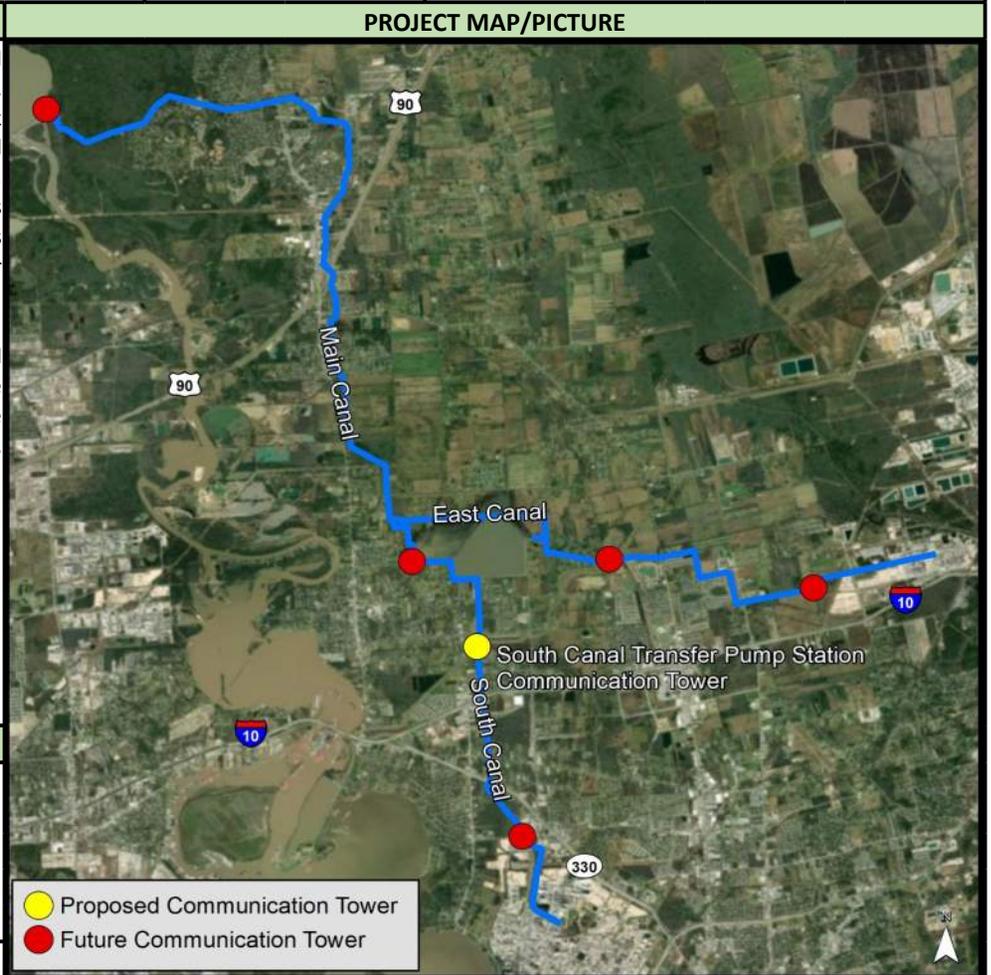
BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 10,000	\$ -	\$ -	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 108,000	\$ -	\$ -	\$ -	\$ -	\$ 108,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 11,000	\$ -	\$ -	\$ -	\$ -	\$ 11,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 129,000	\$ -	\$ -	\$ -	\$ 10,000	\$ 119,000	\$ -					

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
South Canal Transfer Pump Station Communications Tower	HSPCT	2023-2024	Highlands

The Highlands Division currently utilizes cellular technology for communication purposes at critical locations throughout the system. This communication system relays data (ex. pump run status, water control gate actuator status, water levels, canal flows, rain gauges, alarm conditions, etc.) back to the Highlands Division's Emergency Operations Center, and allows for remote monitoring and control of the site. This data is utilized to monitor and assist in making key operational decisions. This project consists of the construction of a 80 foot tall communication tower and all appurtenances at the South Canal Transfer Pump Station. Currently, the South Canal Transfer Pump Station is owned and operated by the Coastal Water Authority, but coordination is occurring to transfer ownership and operation to the San Jacinto River Authority.

Construction of this tower will increase capabilities, improve reliability, reduce points of failure, and limit the dependence on third parties for the Highlands Division's communication system in the transmission of data to and from the South Canal Transfer Pump Station. Project is anticipated to be designed and constructed in conjunction with other proposed towers (see Project sheets HS37T, H108T, and HEPCT) in order to achieve most efficient/lowest cost.



PROJECT SCHEDULE		DELIVERY	FUNDING
Initiate Cons. Selection:	October 2022	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued:	December 2022	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs:	2023	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received:	2023	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board:	2023	<input checked="" type="checkbox"/> Capitalized <input type="checkbox"/> Expensed	
Substantial Completion:	2024		

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 12,000	\$ -	\$ -	\$ -	\$ 12,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 122,000	\$ -	\$ -	\$ -	\$ -	\$ 122,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 12,000	\$ -	\$ -	\$ -	\$ -	\$ 12,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 146,000	\$ -	\$ -	\$ -	\$ 12,000	\$ 134,000	\$ -					

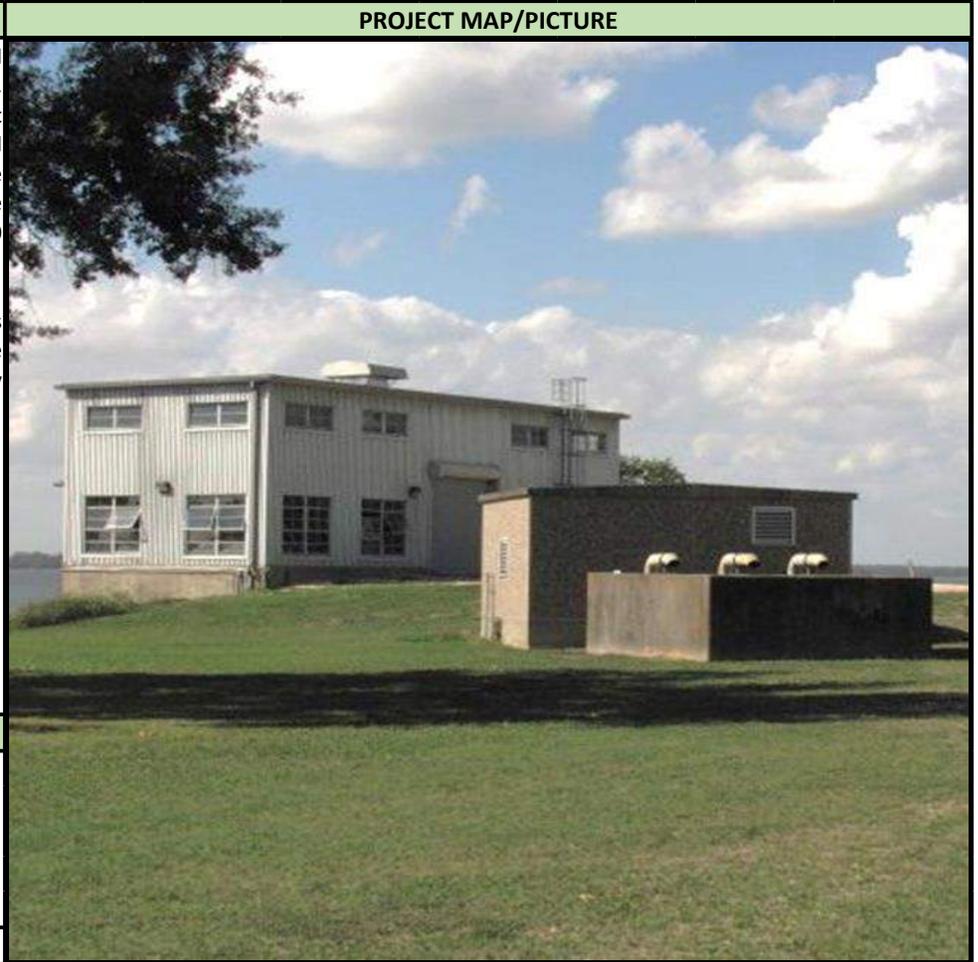
*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Lake Houston Pump Station Pump and Motor Replacement	HPSEV	2023-2025/2027-2028	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Project includes an evaluation of the existing Lake Houston Pump Station pumps, motors, and electrical equipment. This project intends to replace existing pumping equipment in two (2) phases. existing pumps and motors have been rehabilitated multiple times in the past. Most recent rehabilitations have occurred for Pump No. 1 in 2019, Pump No. 2 in 2015, Pump No. 3 in 2015 and Pump No. 4 in 2018. Rehabilitation is becoming increasingly costly due to the overall age of the pump and motors. Currently, motors are operated using a 2400 volt power supply. During the replacement of pumps and motors it is proposed to transition the pump station to operate off of 480 volts.

The Lake Houston Pump Station facility, piping, and pumping system was constructed in 1955 and is in various degrees of disrepair. the pumps and motors are reaching the end of their expected service life. Replacement of pumping equipment will ensure raw water contracted demands can be reliably met.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: 2023	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: 2023	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: 2024/2027	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: 2024/2027	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: 2024/2027		
Substantial Completion: 2025/2028	<input type="checkbox"/> Capitalized	<input checked="" type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 70,000	\$ -	\$ -	\$ -	\$ 70,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 148,000	\$ -	\$ -	\$ -	\$ -	\$ 72,000	\$ -	\$ -	\$ 76,000	\$ -	\$ -	\$ -
Construction	\$ 2,554,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,324,000	\$ -	\$ -	\$ 1,230,000	\$ -	\$ -
CPS, CM&I, and CMT	\$ 128,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 66,000	\$ -	\$ -	\$ 62,000	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 2,900,000	\$ -	\$ -	\$ -	\$ 70,000	\$ 72,000	\$ 1,390,000	\$ -	\$ 76,000	\$ 1,292,000	\$ -	\$ -

*Budget includes contingency.

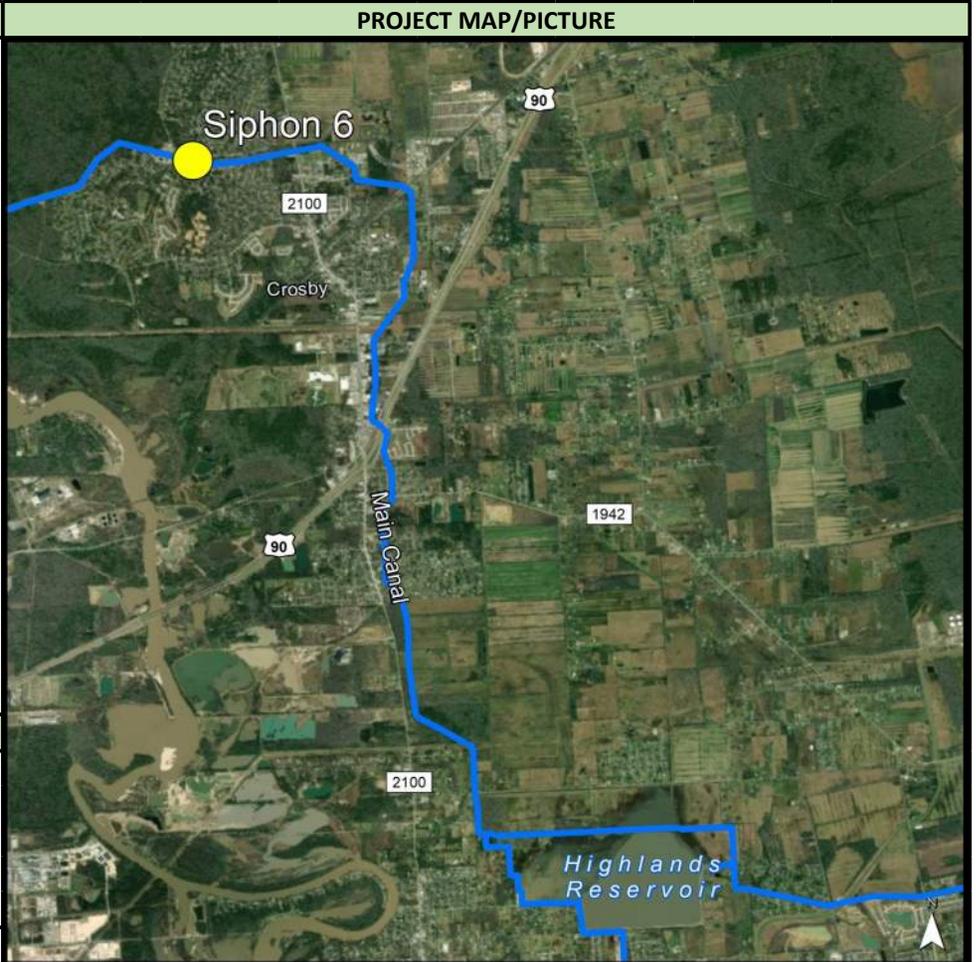
PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Main Canal Levee Improvements - Siphon 6 to Highlands Reservoir	HMLRS	2023-2025/2027-2029	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Based on the 2016 Highlands Division Canal Levee Assessment and the 2015 Highlands Main Canal System Capacity Alternative Improvements Analysis, the Main Canal rehabilitation will include levee rehabilitation between Siphon 6 and the Highlands Reservoir to repair and prevent erosion and elevate the levees to provide additional hydraulic capacity to meet future customer flow demands. SJRA Technical Services Department staff perform field investigations throughout the Highlands System on an annual basis. The Main Canal levee conditions are documented and reviewed to help determine extents of the observed levee erosion and help develop priority of repair sections.

Hydraulic analyses have shown that this reach of the canal includes potential capacity restricting levee issues, especially at potential future higher customer flow demands. Significant erosion has also been identified along this segment of canal. Rehabilitation and improvements to the canal levees within this segment will ensure reliable conveyance of raw water to meet customer demands.

Reference CIP sheets HSI16 and HSI17 for other proposed projects located along this reach of the canal.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: 2022/2026	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: 2022/2026	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: 2024/2028	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: 2024/2028	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: 2024/2028		0
Substantial Completion: 2025/2029	<input checked="" type="checkbox"/> Capitalized	<input checked="" type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 292,000	\$ -	\$ -	\$ -	\$ 140,000	\$ -	\$ -	\$ -	\$ 152,000	\$ -	\$ -	\$ -
Engineering/Design	\$ 297,000	\$ -	\$ -	\$ -	\$ -	\$ 143,000	\$ -	\$ -	\$ -	\$ 154,000	\$ -	\$ -
Construction	\$ 3,032,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,471,000	\$ -	\$ -	\$ -	\$ 1,561,000	\$ -
CPS, CM&I, and CMT	\$ 303,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 147,000	\$ -	\$ -	\$ -	\$ 156,000	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 3,924,000	\$ -	\$ -	\$ -	\$ 140,000	\$ 143,000	\$ 1,618,000	\$ -	\$ 152,000	\$ 154,000	\$ 1,717,000	\$ -

*Budget includes contingency.

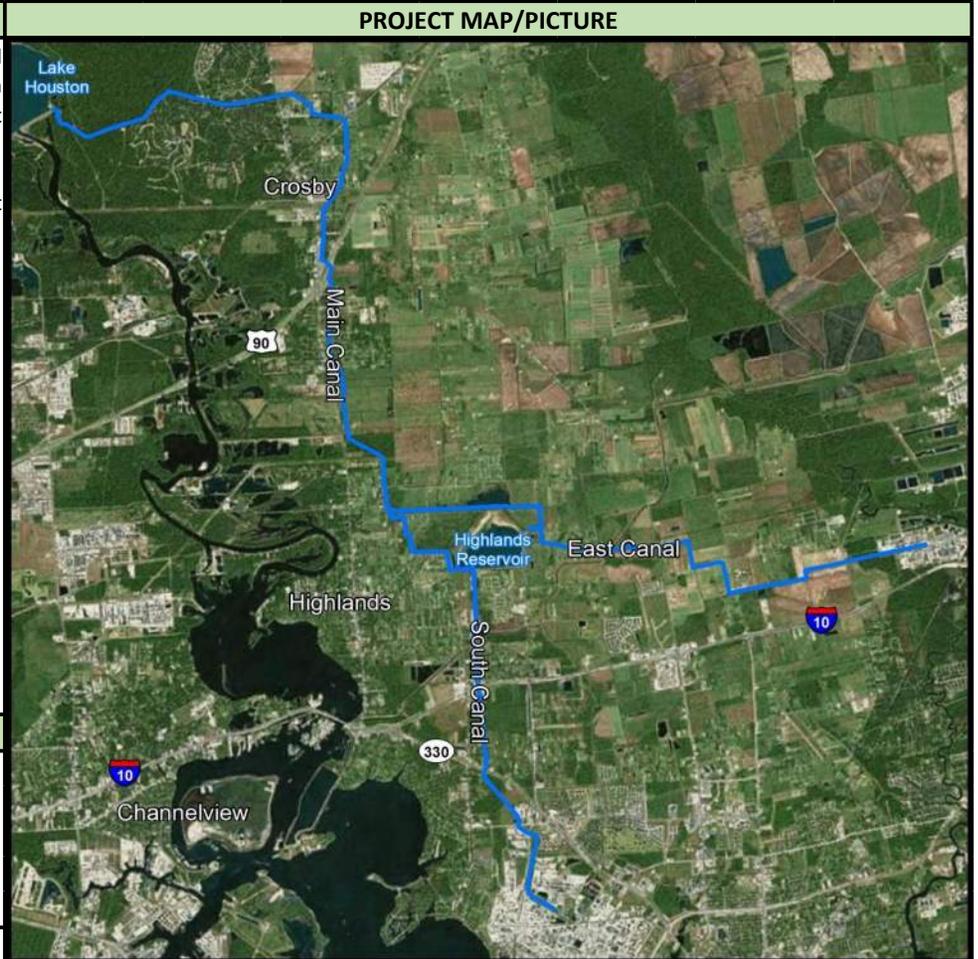
PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Water Conservation and Drought Contingency Plans	HDCDC	2019/2024/2029	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Project includes the development of a 2024 and 2029 update to the Water Conservation and Drought Contingency Plans for the Highlands Division. According to Texas Commission on Environmental Quality (TCEQ) regulations, Water Conservation and Drought Contingency Plans must be updated every five (5) years.

Previous costs are associated with the 2019 update to the Water Conservation and Drought Contingency Plans for the Highlands Division.

Project is necessary to comply with TCEQ requirements.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: 2023/2028	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: 2023/2028	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: N/A	<input type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: N/A	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: N/A	Professional	
Substantial Completion: 2024/2029	<input type="checkbox"/> Capitalized	<input checked="" type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 69,744	\$ 15,744	\$ -	\$ -	\$ -	\$ 26,000	\$ -	\$ -	\$ -	\$ -	\$ 28,000	\$ -
Engineering/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 69,744	\$ 15,744	\$ -	\$ -	\$ -	\$ 26,000	\$ -	\$ -	\$ -	\$ -	\$ 28,000	\$ -

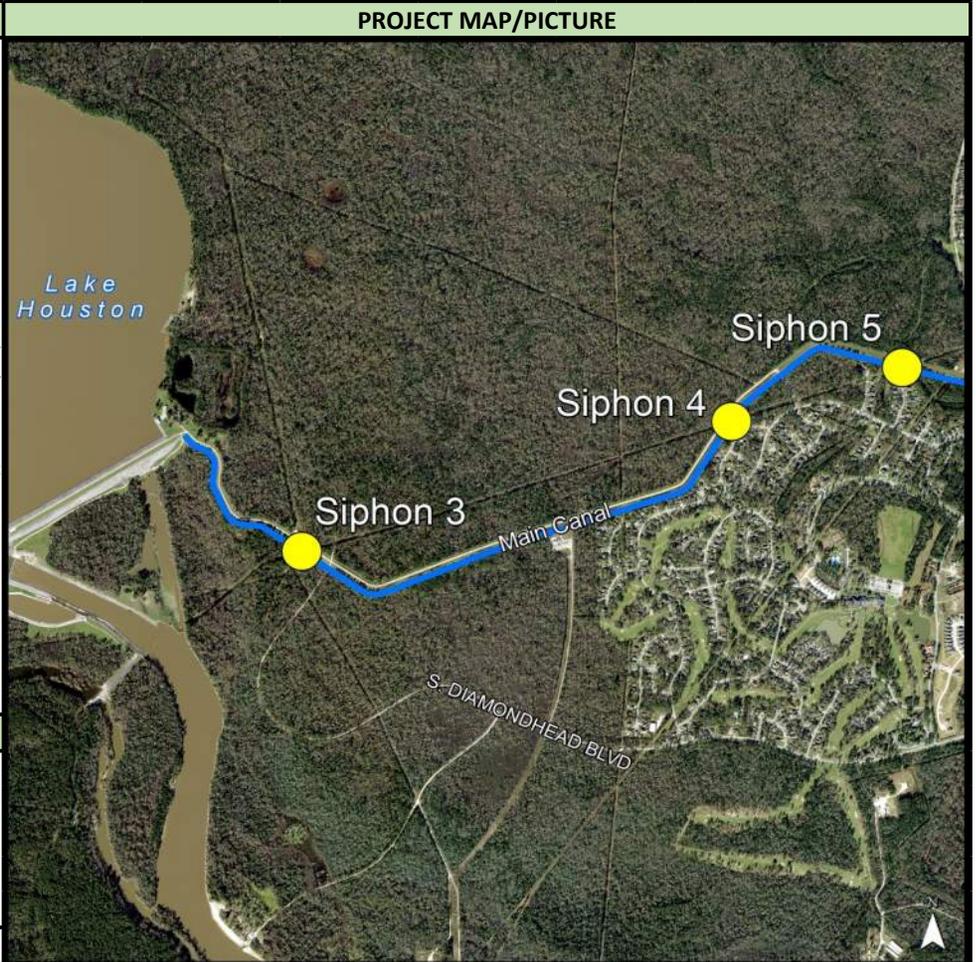
*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Main Canal Improvements - Lake Houston Pump Station to Siphon 6	HMLRN	2015-2018/2024-2025	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

The results of the preliminary engineering design report, which included hydraulic modeling and field observations of the Main Canal physical conditions, recommends improvements to this canal levee segment to reliably convey increased and potential future flow demands to SJRA's customers. In 2016, the relocation of a private pipeline below the canal at three locations (Siphons 3, 4, and 5) eliminated the need for these three (3) siphon crossings. In 2017, the three (3) crossings were removed by in-house staff as part of a standalone project. However, the pipeline relocation/siphon removal has not eliminated the need for improvements required to reconstruct the canal levee segment and repair eroded areas to provide increased flow capacity and flow reliability for canal conveyance of current and potential increased flow demands. SJRA's design consultant has developed 90% Drawings and Specifications for this project. Construction has been delayed due to overall cost of the project and the removal of Siphons 3, 4, and 5 in-house have reduced the priority of this project. Note that the previous design costs shown for this project include costs incurred for the final design package for the installed water control gates at Siphon 6.

This area has been identified as a hydraulic restriction in the Highlands System, where hydraulic modeling has shown bank overtopping at increased flows that could be required due to Industrial Customer demand increases. This project will increase the capacity, reliability, and efficiency of the system, and provide appropriate freeboard at anticipated flows.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: Completed	<input type="checkbox"/> DBB	<input checked="" type="checkbox"/> O&M
PSA/WO Issued: Completed	<input type="checkbox"/> CMAR	<input checked="" type="checkbox"/> Bonds
Final Proposal Docs: 2023	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: 2024	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: 2024	2015 TWDB	
Substantial Completion: 2025	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 1,374,258	\$ 1,374,258	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 352,482	\$ 316,482	\$ -	\$ -	\$ -	\$ 36,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 5,383,000	\$ -	\$ -	\$ -	\$ -	\$ 2,658,000	\$ 2,725,000	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 538,000	\$ -	\$ -	\$ -	\$ -	\$ 266,000	\$ 272,000	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 7,647,740	\$ 1,690,740	\$ -	\$ -	\$ -	\$ 2,960,000	\$ 2,997,000	\$ -				

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Siphon 16 Improvements	HSI16	2024-2026	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Project includes removal or abandonment of existing siphon pipe, headwalls and appurtenances, and replacement with new dual siphons, headwalls and appurtenances. The siphon crosses a small unnamed Harris County drainage ditch running between FM 2100 and Highway 90. During the preliminary engineering stage a drainage study will be performed to see if there is potential to reroute drainage and permanently remove this siphon.

Project is required due to age, structural condition, and potential for failure of existing siphons. Project is anticipated to be packaged with Siphon 17 Improvements (see sheet HSI17) to achieve most efficient/lowest cost design and construction.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: 2023	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: 2023	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: 2025	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: 2025	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: 2025	<input checked="" type="checkbox"/> Capitalized <input type="checkbox"/> Expensed	
Substantial Completion: 2026		

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 256,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 256,000	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 2,599,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,599,000	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 260,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 260,000	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 3,240,000	\$ -	\$ -	\$ -	\$ -	\$ 125,000	\$ 256,000	\$ 2,859,000	\$ -	\$ -	\$ -	\$ -

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Siphon 17 Improvements	HSI17	2024-2026	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Project includes removal or abandonment of existing siphon pipes, headwalls and appurtenances, and replacement with new dual siphons, headwalls and appurtenances at the westbound US Highway 90 frontage road.

Project is required due to age, structural condition, and potential for failure of existing siphons. Project is anticipated to be packaged with Siphon 16 Improvements (see sheet HSI16) to achieve most efficient/lowest cost design and construction.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: 2023	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: 2023	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: 2025	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: 2025	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: 2025	<input checked="" type="checkbox"/> Capitalized <input type="checkbox"/> Expensed	
Substantial Completion: 2026		

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 223,000	\$ -	\$ -	\$ -	\$ -	\$ 223,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 457,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 457,000	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 4,638,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,638,000	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 464,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 464,000	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 5,782,000	\$ -	\$ -	\$ -	\$ -	\$ 223,000	\$ 457,000	\$ 5,102,000	\$ -	\$ -	\$ -	\$ -

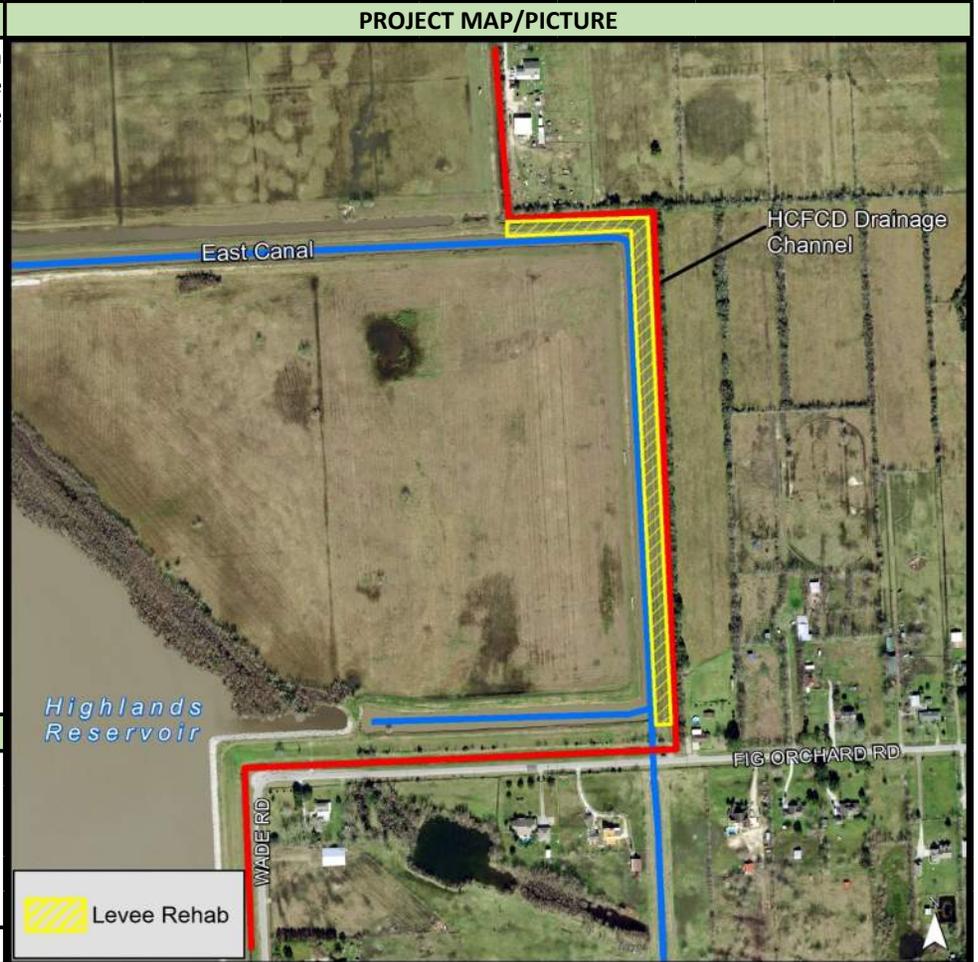
*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Reservoir Levee Rehabilitation (East Side)	HESRL	2024-2026	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Significant erosion has been identified on a common levee between the Highlands Reservoir and a Harris County Flood Control District (HCFCD) drainage channel. This project includes regrading of the levee and improving the condition to prevent future erosion from occurring. SJRA will coordinate with HCFCD on this project.

Project is necessary to repair levee erosion to provide for increased stability of the levee.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: 2023	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: 2024	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: 2025	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: 2025	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: 2025		
Substantial Completion: 2026	<input type="checkbox"/> Capitalized	<input checked="" type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 39,000	\$ -	\$ -	\$ -	\$ -	\$ 39,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 44,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44,000	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ 146,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 146,000	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 244,000	\$ -	\$ -	\$ -	\$ -	\$ 39,000	\$ 44,000	\$ 161,000	\$ -	\$ -	\$ -	\$ -

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Highlands Reservoir Emergency Action Plan	HDEAP	2020/2025/2030	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Project includes development of a 2025 and 2030 update to the existing Emergency Action Plan (EAP) for Highlands Reservoir Dam. Project involves coordination with Texas Commission on Environmental Quality (TCEQ), facilitating a customized half-day tabletop exercise in compliance with TCEQ requirements, developing an After Action Report and updated EAP document, and generating hard copies of updates for distribution by SJRA.

Previous project costs are associated with the 2020 update to the EAP, including tabletop exercise, breach analysis update, and Operations and Maintenance manual update.

Project is necessary to comply with TCEQ requirements.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: 2024/2029	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: 2024/2029	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: N/A	<input type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: N/A	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: N/A	Professional	
Substantial Completion: 2025/2030	<input type="checkbox"/> Capitalized	<input checked="" type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 296,303	\$ 134,303	\$ -	\$ -	\$ -	\$ -	\$ 78,000	\$ -	\$ -	\$ -	\$ -	\$ 84,000
Engineering/Design	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 296,303	\$ 134,303	\$ -	\$ -	\$ -	\$ -	\$ 78,000	\$ -	\$ -	\$ -	\$ -	\$ 84,000

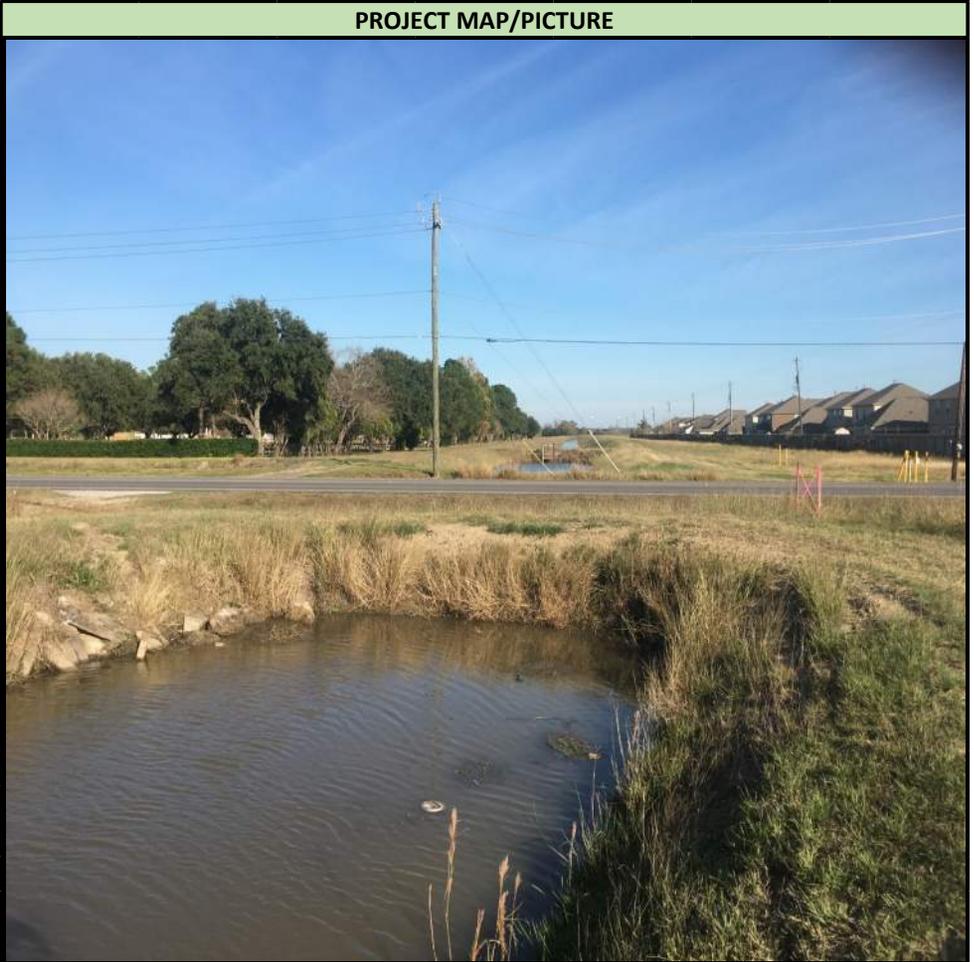
*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Garth Road Siphon Improvements	HGART	2025-2027	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Harris County initially planned to widen Garth Road in 2011 which would have required the reconstruction of the existing siphon to accommodate a widened roadway. The roadway project was postponed. The siphon project will increase siphon capacity and provide water control gates to maintain a specific water surface elevation and upstream storage volume in the canal. The project will include the removal or abandonment of the existing siphon pipe, and appurtenances, and replacement with new dual siphons, headwalls, water control gates, and appurtenances. The project may require utility relocations and tunnel construction methods.

Project required due to age, structural condition, and potential for failure of existing siphon. Harris County could potentially restart the Garth Road widening project at any time, which would require acceleration of the project schedule.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: 2024	<input type="checkbox"/> DBB	<input checked="" type="checkbox"/> O&M
PSA/WO Issued: 2024	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: 2026	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: 2026	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: 2026	<input checked="" type="checkbox"/> Capitalized <input type="checkbox"/> Expensed	
Substantial Completion: 2027		

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 213,664	\$ 29,664	\$ -	\$ -	\$ -	\$ -	\$ 184,000	\$ -	\$ -	\$ -	\$ -	\$ -
Engineering/Design	\$ 374,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 374,000	\$ -	\$ -	\$ -	\$ -
Construction	\$ 3,792,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,792,000	\$ -	\$ -	\$ -
CPS, CM&I, and CMT	\$ 379,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 379,000	\$ -	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 4,758,664	\$ 29,664	\$ -	\$ -	\$ -	\$ -	\$ 184,000	\$ 374,000	\$ 4,171,000	\$ -	\$ -	\$ -

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Structure 2 Improvements	HDS2I	2027-2028	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Structure 2 is the critical structure that allows water from the Main Canal to flow into the Highlands Reservoir. The improvement project will involve removal of the existing headwalls, pipes, and replacement with new dual siphon pipes, concrete headwalls, water level meters, and electric actuated water control gates.

Project is required due to age, structural condition, and potential for failure of the existing structure.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: 2026	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: 2026	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: 2027	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: 2027	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: 2027	<input checked="" type="checkbox"/> Capitalized <input type="checkbox"/> Expensed	
Substantial Completion: 2028		

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 63,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 63,000	\$ -	\$ -	\$ -
Engineering/Design	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 125,000	\$ -	\$ -	\$ -
Construction	\$ 1,271,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,271,000	\$ -	\$ -
CPS, CM&I, and CMT	\$ 127,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 127,000	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 1,586,000	\$ -	\$ 188,000	\$ 1,398,000	\$ -	\$ -						

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Lake Houston Silt Removal	HLHSR	2027-2028	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Originally identified in 2016 during a Lake Houston Rehabilitation project, and further confirmed via a 2019 dive inspection, a considerable amount of silt has accumulated just outside of the pump station intake. The diver's report from 2019, which investigated the area up to 50 feet out into the lake from the intake, noted up to approximately 7.5 feet of silt has accumulated in the area. This project will remove silt from Lake Houston, within the vicinity of the intake, in an effort to return the contours of the lake bottom back to those shown on the original design plans. Prior to final design, an accurate survey of the Lake Houston contours around the pump station intake will be completed to better quantify silt accumulations and project limits.

The project is necessary in order to ensure reliable availability of water at the Lake Houston Pump Station intake, especially during times of drought and low lake levels.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: 2026	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: 2026	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: 2027	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: 2027	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: 2027	<input type="checkbox"/> Capitalized <input checked="" type="checkbox"/> Expensed	
Substantial Completion: 2028		

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 82,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 82,000	\$ -	\$ -	\$ -
Engineering/Design	\$ 82,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 82,000	\$ -	\$ -	\$ -
Construction	\$ 837,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 837,000	\$ -	\$ -
CPS, CM&I, and CMT	\$ 84,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 84,000	\$ -	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 1,085,000	\$ -	\$ 164,000	\$ 921,000	\$ -	\$ -						

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Siphon 32 Improvements	HSI32	2027-2029	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Project includes removal or abandonment of existing siphon pipes, headwalls and appurtenances, and replacement with new dual siphons, headwalls and appurtenances, and potentially water control gates, crossing Cedar Bayou Lynchburg Road.

Project is required due to age, structural condition, and potential for failure of existing siphons. Project is anticipated to be packaged with Siphon 33 Improvements (see sheet HSI33) to achieve most efficient/lowest cost design and construction.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: 2026	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: 2026	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: 2028	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: 2028	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: 2028		
Substantial Completion: 2029	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 204,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 204,000	\$ -	\$ -	\$ -
Engineering/Design	\$ 414,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 414,000	\$ -	\$ -
Construction	\$ 4,205,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,205,000	\$ -
CPS, CM&I, and CMT	\$ 420,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 420,000	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 5,243,000	\$ -	\$ 204,000	\$ 414,000	\$ 4,625,000	\$ -						

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Siphon 33 Improvements	HSI33	2027-2029	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Project includes removal of existing siphon pipes, headwalls and appurtenances, and replacement with new dual siphons, headwalls and appurtenances crossing a Harris County Flood Control District drainage channel.

Project is required due to age, structural condition, and potential for failure of existing siphons. Project is anticipated to be packaged with Siphon 32 Improvements (see sheet HSI32) to achieve most efficient/lowest cost design and construction.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: 2026	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: 2026	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: 2028	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: 2028	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: 2028		
Substantial Completion: 2029	<input checked="" type="checkbox"/> Capitalized	<input type="checkbox"/> Expensed

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 153,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 153,000	\$ -	\$ -	\$ -
Engineering/Design	\$ 310,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 310,000	\$ -	\$ -
Construction	\$ 3,150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,150,000	\$ -
CPS, CM&I, and CMT	\$ 315,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 315,000	\$ -
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 3,928,000	\$ -	\$ 153,000	\$ 310,000	\$ 3,465,000	\$ -						

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Siphon 34 Improvements	HSI34	2028-2030	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:
 Project includes removal of existing siphon pipes, headwalls and appurtenances, and replacement with new dual siphons, headwalls and appurtenances, and potentially water control gates, crossing Redell Road.

 Project is required due to age, structural condition, and potential for failure of existing siphons.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: 2027	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: 2027	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: 2029	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: 2029	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: 2029	<input checked="" type="checkbox"/> Capitalized <input type="checkbox"/> Expensed	
Substantial Completion: 2030		

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 186,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 186,000	\$ -	\$ -
Engineering/Design	\$ 378,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 378,000	\$ -
Construction	\$ 3,836,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,836,000
CPS, CM&I, and CMT	\$ 384,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 384,000
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 4,784,000	\$ -	\$ 186,000	\$ 378,000	\$ 4,220,000							

*Budget includes contingency.

PROJECT NAME:	PROJECT ID	FISCAL YEAR	DIVISION
Siphon 21 Improvements	HSI21	2028-2030	Highlands

PROJECT DESCRIPTION/JUSTIFICATION:

Project includes removal or abandonment of existing siphon pipes, headwalls and appurtenances, and replacement with new dual siphons, headwalls and appurtenances, and potentially water control gates, crossing a Harris County Flood Control District drainage channel.

Project is required due to age, structural condition, and potential for failure of existing siphons.



PROJECT SCHEDULE	DELIVERY	FUNDING
Initiate Cons. Selection: 2027	<input type="checkbox"/> DBB	<input type="checkbox"/> O&M
PSA/WO Issued: 2027	<input type="checkbox"/> CMAR	<input type="checkbox"/> Bonds
Final Proposal Docs: 2029	<input checked="" type="checkbox"/> CSP	<input checked="" type="checkbox"/> R&R
Proposals/Bids Received: 2029	<input type="checkbox"/> Other	<input type="checkbox"/> Other
Constr. Contract to Board: 2029	<input checked="" type="checkbox"/> Capitalized <input type="checkbox"/> Expensed	
Substantial Completion: 2030		

BUDGET*	TOTAL	PREVIOUS	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Planning/Permitting/PER	\$ 185,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 185,000	\$ -	\$ -
Engineering/Design	\$ 375,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 375,000	\$ -
Construction	\$ 3,803,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,803,000
CPS, CM&I, and CMT	\$ 380,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 380,000
Land Acquisition	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment Purchase	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 4,743,000	\$ -	\$ 185,000	\$ 375,000	\$ 4,183,000							

*Budget includes contingency.