

The seal of the City of Houston, Texas, is a circular emblem. It features a central five-pointed star above a steam locomotive. Below the locomotive is a plow. The words "CITY OF HOUSTON" are inscribed in an arc at the top, and "TEXAS" is inscribed at the bottom. The entire seal is rendered in a light gray, semi-transparent style.

STORM DRAINAGE SYSTEM

Storm Drainage System

The Storm Drainage System Program designs and constructs drainage improvement projects in areas of the City with a demonstrated need of flood protection for Houston and its residents. The Storm Water Drainage System includes collection of rainfall runoff via roadside ditches and/or streets with underground pipe (storm sewer) and the conveyance of storm water via off-road channels and underground structures to a receiving system and detention structures designed manage the rate of flow into a receiving system. The receiving system can be a bayou, tributary channel, or another storm sewer. The program includes investments in channel and detention capacity made in partnership with the Harris County Flood Control District.

The Capital Improvement Plan (CIP) provides an estimate of delivery by fiscal year for the next five years. The FY2021-2025 CIP includes \$863 million for Storm Drainage System improvements funded primarily through drainage fees assessed on non-exempted benefitted property and a dedication of ad valorem revenue to the Dedicated Drainage and Street Renewal Fund (DDSRF). An additional \$86 million of Water and Wastewater improvements are planned to accompany Storm Drainage System projects.

The Storm Drainage System Program consists of the following major components:

Capital Improvement Projects:

- The City uses objective criteria to develop a ranked list of the highest priority need areas across the City and prioritize candidate storm drainage projects based on their benefits and costs. Projects are developed in accordance with the City's design criteria to convey 2-year rainfall events within the collection system (roadside ditch and/or storm sewer) and reduce the risk of structural flooding during 100-year storm events. Properties within special flood hazard areas or the 100-year flood zone will be protected from localized event flooding, but may not be protected from flooding related to inadequate level of service of the receiving system.

Local Drainage Program (LDP) & Storm Water Action Team (SWAT) Projects:

- These programs address localized storm water drainage system problems including inadequate level of service due to underground storm sewer capacity, roadside ditch grade deterioration and encroachments, inlet capacity, and/or structural failure of the storm sewer or outfall. Engineering and construction are accomplished by work order contracts in order to address these problems quickly and cost effectively. The FY2021-2025 CIP commits approximately \$148 million to these programs.

Storm Drainage System Projects deferred to future CIPs:

The following projects were previously listed in Adopted CIPs and will be prioritized for construction as additional funding is identified in future CIPs.

| | |
|---------------|--------------------------------------|
| M-000247-0001 | Nottingham and Yorkshire Area |
| M-410007-0001 | Gulfway Terrace Sec 1 Area |
| M-410019-0001 | Sharpstown Area 2 |
| M-410021-0001 | Pinewood Village 2 |
| M-410022-0001 | Garden Oaks and Shepherd Park (East) |
| M-410027-0002 | Richmond Plaza 1 (North) |
| M-410036-0002 | Spring Shadows Area |

| Project Allocation | Fiscal Year Planned Appropriations | | | | | 2021-2025 |
|---|------------------------------------|----------------|----------------|----------------|----------------|----------------|
| | 2021 | 2022 | 2023 | 2024 | 2025 | |
| Planning | | | | | | |
| Acquisition-Land | | 338 | 566 | | | 904 |
| Design | 13,327 | 17,844 | 11,711 | 10,000 | 8,000 | 60,882 |
| Construction | 244,876 | 85,496 | 74,273 | 121,316 | 93,419 | 619,380 |
| Equipment Acquisition | | | | | | |
| Salary Recovery | | | | | | |
| Other | 72,173 | 26,000 | 28,000 | 28,000 | 28,000 | 182,173 |
| Total Allocation | 330,375 | 129,678 | 114,550 | 159,316 | 129,419 | 863,338 |
| Source of Funds | | | | | | |
| 4042 - DDSRF CAPITAL FUND-DRAINAGE CHARGE | 96,194 | 98,428 | 88,550 | 107,601 | 102,808 | 493,581 |
| 4046 - DDSRF CAPITAL FUND-AD VALOREM TAX | 17,804 | 20,250 | 15,000 | 40,715 | 16,611 | 110,380 |
| 4510 - Contribution for Capital Projects | 60,883 | | | | | 60,883 |
| 5000 - Federal Government - Grant Funded | 34,867 | 10,000 | 10,000 | 10,000 | 10,000 | 74,867 |
| 5430 - Federal State Local - HPW Pass thru DDSR | 120,627 | 1,000 | 1,000 | 1,000 | | 123,627 |
| 8500 - HPW-W&S Syst Consolidated Constr Fd | | | | | | |
| Total Funds | 330,375 | 129,678 | 114,550 | 159,316 | 129,419 | 863,338 |

Some projects in this section are related to the impact of Hurricane Harvey DR4332 and it is the City's intent to seek reimbursement from the Federal Emergency Management Agency (FEMA) and any other eligible sources for such expenditures, with the FEMA share being up to 90% of eligible costs.

STORM DRAINAGE SYSTEM - Summary of Funds
2021-2025 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

| CIP No. | Project | Fiscal Year Planned Appropriations | | | | | 2021-2025 |
|-----------------|---|------------------------------------|--------|------|--------|--------|-----------|
| | | 2021 | 2022 | 2023 | 2024 | 2025 | |
| M-000288 | Easthaven Blvd (Bryant to Ledge) | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | 11,074 | | | | 11,074 |
| | 8500 - HPW-W&S Syst Consolidated Constr Fd | | 2,034 | | | | 2,034 |
| | Project Total | | 13,107 | | | | 13,107 |
| M-000294 | Cullen Drainage and Paving | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | | | | 12,924 | 12,924 |
| | 8500 - HPW-W&S Syst Consolidated Constr Fd | | | | | 1,855 | 1,855 |
| | Project Total | | | | | 14,779 | 14,779 |
| M-000295 | Scott Street Drainage and Paving | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | | | | 10,277 | 10,277 |
| | 8500 - HPW-W&S Syst Consolidated Constr Fd | | | | | 1,267 | 1,267 |
| | Project Total | | | | | 11,543 | 11,543 |
| M-410002 | Potomac & Nantucket Area Drng and Paving | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | | | 13,201 | | 13,201 |
| | 8500 - HPW-W&S Syst Consolidated Constr Fd | | | | 3,001 | | 3,001 |
| | Project Total | | | | 16,202 | | 16,202 |
| M-410005 | Spring Shadows (North) | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | | | 14,785 | | 14,785 |
| | Project Total | | | | 14,785 | | 14,785 |
| M-410006 | Arlington Heights Area | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | 7,530 | | | 10,297 | 17,827 |
| | 4046 - DDSRF CAPITAL FUND-AD VALOREM TAX | | 5,250 | | | | 5,250 |
| | 8500 - HPW-W&S Syst Consolidated Constr Fd | | 4,798 | | | 4,918 | 9,716 |
| | Project Total | | 17,578 | | | 15,215 | 32,793 |

STORM DRAINAGE SYSTEM - Summary of Funds
2021-2025 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

| CIP No. | Project | | | | | | 2021-2025 |
|-----------------|--|--------|------|--------|--------|--------|-----------|
| | | 2021 | 2022 | 2023 | 2024 | 2025 | |
| M-410008 | Freeway Manor South Area | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | | | 11,338 | | 11,338 |
| | 8500 - HPW-W&S Syst Consolidated Constr Fd | | | | 1,444 | | 1,444 |
| | Project Total | | | | 12,782 | | 12,782 |
| M-410010 | Freeway Manor: North of Edgebrook | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | | | 17,601 | | 17,601 |
| | 8500 - HPW-W&S Syst Consolidated Constr Fd | | | | 3,888 | | 3,888 |
| | Project Total | | | | 21,489 | | 21,489 |
| M-410013 | Melrose Park Area | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | | | | 4,556 | 4,556 |
| | Project Total | | | | | 4,556 | 4,556 |
| M-410014 | Wynnewood Acres Area | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | | 8,018 | | | 8,018 |
| | Project Total | | | 8,018 | | | 8,018 |
| M-410015 | Magnolia Park Area | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | 9,363 | | | 7,121 | 8,199 | 24,683 |
| | 8500 - HPW-W&S Syst Consolidated Constr Fd | 3,522 | | | 3,409 | 5,187 | 12,118 |
| | Project Total | 12,885 | | | 10,530 | 13,386 | 36,801 |
| M-410016 | Westridge and Braes Terrace Area | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | | 7,342 | | | 7,342 |
| | 8500 - HPW-W&S Syst Consolidated Constr Fd | | | 11,063 | | | 11,063 |
| | Project Total | | | 18,405 | | | 18,405 |

STORM DRAINAGE SYSTEM - Summary of Funds
2021-2025 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

| CIP No. | Project | | | | | | 2021-2025 |
|-----------------|---|-------|--------|--------|--------|------|-----------|
| | | 2021 | 2022 | 2023 | 2024 | 2025 | |
| M-410017 | Garden Oaks and Shepherd Park (West) | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | 21,869 | | | | 21,869 |
| | 8500 - HPW-W&S Syst Consolidated Constr Fd | | 4,340 | | | | 4,340 |
| | Project Total | | 26,209 | | | | 26,209 |
| M-410019 | Sharpstown Area 2 | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | 2,122 | | | | | 2,122 |
| | Project Total | 2,122 | | | | | 2,122 |
| M-410023 | Richmond Plaza (South) Area | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | | 18,536 | | | 18,536 |
| | 8500 - HPW-W&S Syst Consolidated Constr Fd | | | 1,660 | | | 1,660 |
| | Project Total | | | 20,196 | | | 20,196 |
| M-410024 | Southland Area | | | | | | |
| | 4046 - DDSRF CAPITAL FUND-AD VALOREM TAX | | | | 12,291 | | 12,291 |
| | 8500 - HPW-W&S Syst Consolidated Constr Fd | | | | 1,362 | | 1,362 |
| | Project Total | | | | 13,653 | | 13,653 |
| M-410025 | Inwood Forest Area | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | 2,710 | 338 | 8,894 | | | 11,942 |
| | 8500 - HPW-W&S Syst Consolidated Constr Fd | | | 6,509 | | | 6,509 |
| | Project Total | 2,710 | 338 | 15,403 | | | 18,451 |
| M-410028 | Westbury Area | | | | | | |
| | 4046 - DDSRF CAPITAL FUND-AD VALOREM TAX | | | | 13,425 | | 13,425 |
| | 8500 - HPW-W&S Syst Consolidated Constr Fd | | | | 9,165 | | 9,165 |
| | Project Total | | | | 22,590 | | 22,590 |

**STORM DRAINAGE SYSTEM - Summary of Funds
2021-2025 CAPITAL IMPROVEMENT PLAN (\$ Thousands)**

| CIP No. | Project | | | | | | 2021-2025 |
|-----------------|--|-------|-------|--------|------|--------|-----------|
| | | 2021 | 2022 | 2023 | 2024 | 2025 | |
| M-410029 | Chateau Forest West Area | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | | 6,479 | | | 6,479 |
| | 8500 - HPW-W&S Syst Consolidated Constr Fd | | | 8,235 | | | 8,235 |
| | Project Total | | | 14,714 | | | 14,714 |
| M-410030 | Fuqua 48 in STW | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | 201 | | | | 201 |
| | Project Total | | 201 | | | | 201 |
| M-410031 | 72 In. SWT line Midtown/Montrose | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | | 1,467 | | | 1,467 |
| | Project Total | | | 1,467 | | | 1,467 |
| M-410032 | West Alabama 72 in. SWT | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | 519 | | | | | 519 |
| | Project Total | 519 | | | | | 519 |
| M-410033 | Avalon Place | | | | | | |
| | 4046 - DDSRF CAPITAL FUND-AD VALOREM TAX | 2,804 | | | | | 2,804 |
| | Project Total | 2,804 | | | | | 2,804 |
| M-410035 | Northside High School Area | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | 3,544 | 566 | | | 4,110 |
| | 4046 - DDSRF CAPITAL FUND-AD VALOREM TAX | | | | | 16,611 | 16,611 |
| | 8500 - HPW-W&S Syst Consolidated Constr Fd | | | | | 1,636 | 1,636 |
| | Project Total | | 3,544 | 566 | | 18,247 | 22,357 |
| M-410038 | Central Park Area | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | | 3,711 | | | 3,711 |
| | Project Total | | | 3,711 | | | 3,711 |

STORM DRAINAGE SYSTEM - Summary of Funds
2021-2025 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

| CIP No. | Project | | | | | | 2021-2025 | |
|-----------------|---|--------|--------|--------|--------|--------|-----------|--|
| | | 2021 | 2022 | 2023 | 2024 | 2025 | | |
| M-410039 | Cottage Grove East Area | | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | 6,691 | | | | | 6,691 | |
| | 4046 - DDSRF CAPITAL FUND-AD VALOREM TAX | 5,000 | | | | | 5,000 | |
| | 8500 - HPW-W&S Syst Consolidated Constr Fd | 7,030 | | | | | 7,030 | |
| | Project Total | 18,721 | | | | | 18,721 | |
| M-420126 | Local Drainage Program (LDP) | | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | 12,233 | 12,000 | 12,000 | 12,000 | 12,000 | 60,233 | |
| | Project Total | 12,233 | 12,000 | 12,000 | 12,000 | 12,000 | 60,233 | |
| M-420HUD | CDBG Disaster Recovery Program | | | | | | | |
| | 5000 - Federal Government - Grant Funded | 24,867 | | | | | 24,867 | |
| | Project Total | 24,867 | | | | | 24,867 | |
| M-430006 | Storm Water Action Team (SWAT) | | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | 17,500 | 17,500 | 17,500 | 17,500 | 17,500 | 87,500 | |
| | Project Total | 17,500 | 17,500 | 17,500 | 17,500 | 17,500 | 87,500 | |
| M-430100 | Pre-Engineering for Storm Water Drainage | | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | | 2,000 | | 2,000 | | 4,000 | |
| | Project Total | | 2,000 | | 2,000 | | 4,000 | |
| M-430220 | Project Mgmt. Incl. Testing & Inspection | | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | 1,652 | 6,000 | 1,700 | 1,700 | 1,700 | 12,752 | |
| | Project Total | 1,652 | 6,000 | 1,700 | 1,700 | 1,700 | 12,752 | |
| M-430241 | Stormwater Pump Station & Flood Warning | | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 5,000 | |
| | 5430 - Federal State Local - HPW Pass thru DDSR | 1,000 | 1,000 | 1,000 | 1,000 | | 4,000 | |
| | Project Total | 2,000 | 2,000 | 2,000 | 2,000 | 1,000 | 9,000 | |

STORM DRAINAGE SYSTEM - Summary of Funds
2021-2025 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

| CIP No. | Project | | | | | | 2021-2025 | |
|-----------------|---|---------|--------|--------|--------|--------|-----------|--|
| | | 2021 | 2022 | 2023 | 2024 | 2025 | | |
| M-430296 | Regional Stormwater Detention | | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | 7,355 | 2,355 | 2,355 | 2,355 | 17,355 | 31,775 | |
| | 4046 - DDSRF CAPITAL FUND-AD VALOREM TAX | 10,000 | 15,000 | 15,000 | 15,000 | | 55,000 | |
| | 5000 - Federal Government - Grant Funded | 10,000 | 10,000 | 10,000 | 10,000 | 10,000 | 50,000 | |
| | Project Total | 27,355 | 27,355 | 27,355 | 27,355 | 27,355 | 136,775 | |
| M-430800 | Developer Participation | | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | 1,000 | 1,000 | 3,000 | 3,000 | 3,000 | 11,000 | |
| | Project Total | 1,000 | 1,000 | 3,000 | 3,000 | 3,000 | 11,000 | |
| M-43E101 | HMGP North Canal Project | | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | 13,844 | | | | | 13,844 | |
| | 4510 - Contribution for Capital Projects | 55,377 | | | | | 55,377 | |
| | 5430 - Federal State Local - HPW Pass thru DDSR | 54,492 | | | | | 54,492 | |
| | Project Total | 123,713 | | | | | 123,713 | |
| M-43HCFC | Harris County Flood Control Dist Agrmt | | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | 5,506 | | | | | 5,506 | |
| | 4510 - Contribution for Capital Projects | 5,506 | | | | | 5,506 | |
| | 5430 - Federal State Local - HPW Pass thru DDSR | 33,038 | | | | | 33,038 | |
| | Project Total | 44,051 | | | | | 44,051 | |
| M-450500 | Storm Water Improvements Under R/S | | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | 10,699 | | | | | 10,699 | |
| | 5430 - Federal State Local - HPW Pass thru DDSR | 32,097 | | | | | 32,097 | |
| | Project Total | 42,796 | | | | | 42,796 | |
| M-500001 | Future Design | | | | | | | |
| | 4042 - DDSRF CAPITAL FUND-DRAINAGE CHAR | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 20,000 | |
| | Project Total | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 20,000 | |

STORM DRAINAGE SYSTEM - Summary of Funds
2021-2025 CAPITAL IMPROVEMENT PLAN (\$ Thousands)

| CIP No. | Project | | | | | | 2021-2025 | |
|-----------------|--|---------|---------|---------|---------|---------|-----------|--|
| | | 2021 | 2022 | 2023 | 2024 | 2025 | | |
| M-NA0000 | Funding Offset | | | | | | | |
| | 8500 - HPW-W&S Syst Consolidated Constr Fd | -10,552 | -11,171 | -27,467 | -22,270 | -14,862 | -86,322 | |
| | Project Total | -10,552 | -11,171 | -27,467 | -22,270 | -14,862 | -86,322 | |
| | Total Appropriations: | 330,375 | 129,678 | 114,550 | 159,316 | 129,419 | 863,338 | |