

# Storm Water



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# Storm Water

The Stormwater Department's Capital Improvements Program provides for the installation and improvements of storm water drainage infrastructure and systems. The Department plans and programs improvements to storm water infrastructure, including installation of green infrastructure.

## 2020 CIP Accomplishments

In Fiscal Year 2020, the Transportation & Storm Water Department, in coordination with the Public Works Department, completed capital projects to improve storm drain infrastructure and meet pollution removal mandates.

The Department, in coordination with Public Works, completed construction of the following Storm Water projects in Fiscal Year 2020:

- 12362 Springhurst Dr. SD Emergency
- Bannock Ave Streetscape Enhancements
- Buena Vista St Storm Drain Emergency Repair
- Cardinal Road Emergency SD Replacement
- CMP Storm Drain Lining I
- Coolidge Street Storm Drain
- Hayes Ave Storm Drain
- Hector Ave Storm Drain Replacement
- Rue Chantemar Storm Drain Replacement
- Uptown Lining CMP SD
- Van Dyke Ave (4481) Storm Drain Replacement

## 2021 CIP Goals

The Stormwater Department is committed to improving storm drain infrastructure as flood risk management and installing green infrastructure to improve water quality. To improve storm drain infrastructure and meet pollution removal mandates, the Department, in coordination with Public Works, is scheduled to begin construction in Fiscal Year 2021 for the following Storm Water Project:

- Palm Avenue Storm Drain Replacement

In addition, the Department is scheduled to complete construction for flood risk management and green infrastructure projects in Fiscal Year 2021 including:

- Alamo, Salvation, 68th Street Basins LID
- Florida Drive SD Emergency



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## Storm Water: Capital Improvement Projects

Project	Prior Fiscal Years	FY 2021 Adopted	Future Fiscal Years	Project Total
Alta La Jolla Drive Drainage Repair PhII / S10001	\$ 6,206,105	\$ -	\$ -	\$ 6,206,105
Drainage Projects / ACA00001	97,384,235	1,000,000	534,838,442	633,222,677
Hayes Ave Storm Drain / S11002	1,399,100	-	-	1,399,100
Maple Canyon Storm Drain Upgrade / S20003	250,000	-	30,000,000	30,250,000
Watershed CIP / ACC00001	27,335,633	-	516,917,967	544,253,600
<b>Total</b>	<b>\$ 132,575,073</b>	<b>\$ 1,000,000</b>	<b>\$ 1,081,756,409</b>	<b>\$ 1,215,331,482</b>



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# Storm Water

## Alta La Jolla Drive Drainage Repair PhII / S10001

## Drainage - Storm Drain Pipes

<b>Council District:</b>	1	<b>Priority Score:</b>	91
<b>Community Planning:</b>	La Jolla	<b>Priority Category:</b>	High
<b>Project Status:</b>	Warranty	<b>Contact Information:</b>	Oriqat, Mahmoud
<b>Duration:</b>	2009 - 2023		619-533-5232
<b>Improvement Type:</b>	Betterment		moriqat@san Diego.gov

**Description:** This project will repair the erosion and damage to the lower La Jolla Canyon bounded by Alta La Jolla Drive and the cul-de-sac at Vickie Drive.

**Justification:** This project is part of the settlement agreement and limited release entered into by the La Jolla Alta Master Council and the City of San Diego.

**Operating Budget Impact:** The operating and maintenance funding for this project will be included in the Transportation budget.

**Relationship to General and Community Plans:** This project is consistent with the La Jolla Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2010 and was completed in Fiscal Year 2013. However, the design plans and specifications had to be updated to comply with state and federal permits received in Fiscal Year 2014. Updated design was completed in Fiscal Year 2015. Construction began in Fiscal Year 2016 and was completed in Fiscal Year 2017. A five-year maintenance and monitoring period is required by the project permits and is anticipated to be completed by Fiscal Year 2023.

**Summary of Project Changes:** No significant changes were made to this project for Fiscal Year 2021.

### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021					Future FY	Unidentified Funding	Project Total
					Anticipated	FY 2022	FY 2023	FY 2024	FY 2025			
Private & Others Contrib-CIP	400264	\$ 6,059,442	\$ 146,662	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,206,105
<b>Total</b>		<b>\$ 6,059,442</b>	<b>\$ 146,662</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,206,105</b>

# Storm Water

## Drainage Projects / ACA00001

## Drainage - Storm Drain Pipes

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Dastgheibi, Sara
<b>Duration:</b>	2010 - 2040		858-541-4369
<b>Improvement Type:</b>	New		sdastgheibi@sandiego.gov

**Description:** This annual allocation provides for reconstructing or replacing failed or undersized drainage facilities citywide.

**Justification:** This project provides for the high priority redesign and reconstruction of existing storm drain structures. There are currently over 900 miles of storm drains in the City of San Diego. These storm drains can fail because of a variety of reasons (system material, age, earth movement, etc.). The Operations and Maintenance Section of the Storm Water Division regularly cleans these systems and performs minor repairs; however, storm drain systems that require redesign and reconstruction are often encountered.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects are scheduled on a priority basis as funding is identified.

**Summary of Project Changes:** In Fiscal Year 2020, \$17.8 million was allocated via multiple Council Resolutions to support emergency drainage projects. Project description was updated for Fiscal Year 2021. TransNet Extension funding will be allocated to this project for Fiscal Years 2021 through 2025.

### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021							Unidentified Funding	Project Total	
				FY 2021	Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY			
Capital Outlay Fund	400002	\$ 1,913,897	\$ 6,750,795	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,664,692	
Capital Outlay-Sales Tax	400000	-	247	-	-	-	-	-	-	-	-	247	
CIP Contributions from General Fund	400265	12,652,759	3,747,276	-	-	-	-	-	-	-	-	16,400,035	
College Area	400127	224,551	75,449	-	-	-	-	-	-	-	-	300,000	
Deferred Maint Revenue 2009A-Project	400624	372,673	-	-	-	-	-	-	-	-	-	372,673	
Deferred Maintenance Revenue 2012A-Project	400848	3,507,213	-	-	-	-	-	-	-	-	-	3,507,213	
Financing	9300	-	-	-	35,992,732	-	-	-	-	-	-	35,992,732	
General Fund	100000	-	-	-	-	-	-	-	-	-	-	-	
General Fund Commercial Paper Notes	400869	26,966,959	7,977,984	-	-	-	-	-	-	-	-	34,944,943	
Infrastructure Fund	100012	3,357,238	3,032,199	-	-	-	-	-	-	-	-	6,389,437	
Mid City Urban Comm	400114	37,934	100,675	-	-	-	-	-	-	-	-	138,609	
Midway/Pacific Hwy Urban Comm	400115	132,120	1,390,488	-	-	-	-	-	-	-	-	1,522,608	
Navajo Urban Comm	400116	537,872	1,302,748	-	-	-	-	-	-	-	-	1,840,619	
North Park Urban Comm	400112	174,088	666,996	-	-	-	-	-	-	-	-	841,084	
Pacific Beach Urban Comm	400117	750,000	-	-	-	-	-	-	-	-	-	750,000	
PFFA Lease Revenue Bonds 2015A-Projects	400859	6,771,010	-	-	-	-	-	-	-	-	-	6,771,010	
PFFA Lease Revenue Bonds 2015B-Project	400860	6,429,849	-	-	-	-	-	-	-	-	-	6,429,849	
PFFA Lease Revenue Refunding Bonds 2013A - Project	400853	4,299,755	-	-	-	-	-	-	-	-	-	4,299,755	
Private & Others Contrib-CIP	400264	-	150,000	-	-	-	-	-	-	-	-	150,000	
Skyline/Paradise Urb Comm	400119	13,626	12,790	-	-	-	-	-	-	-	-	26,416	
TransNet (Prop A 1/2% Sales Tax)	400156	1,872	-	-	-	-	-	-	-	-	-	1,872	
TransNet ARRA Exchange Fund	400677	275,233	-	-	-	-	-	-	-	-	-	275,233	
TransNet Extension Congestion Relief Fund	400169	2,209,369	148,570	1,000,000	-	1,000,000	1,000,000	1,000,000	1,000,000	-	-	7,357,939	
Unidentified Funding	9999	-	-	-	-	-	-	-	-	-	494,845,710	494,845,710	
Uptown Urban Comm	400121	443,765	956,235	-	-	-	-	-	-	-	-	1,400,000	
<b>Total</b>		<b>\$ 71,071,784</b>	<b>\$ 26,312,450</b>	<b>\$ 1,000,000</b>	<b>\$ 35,992,732</b>	<b>\$ 1,000,000</b>	<b>\$ 1,000,000</b>	<b>\$ 1,000,000</b>	<b>\$ 1,000,000</b>	<b>\$ 1,000,000</b>	<b>\$ -</b>	<b>\$ 494,845,710</b>	<b>\$ 633,222,676</b>



# Storm Water

## Hayes Ave Storm Drain / S11002

## Drainage - Storm Drain Pipes

<b>Council District:</b>	3	<b>Priority Score:</b>	41
<b>Community Planning:</b>	Uptown	<b>Priority Category:</b>	Low
<b>Project Status:</b>	Warranty	<b>Contact Information:</b>	Guise, Jason
<b>Duration:</b>	2011 - 2022		619-533-4665
<b>Improvement Type:</b>	Replacement		jguise@sandiego.gov

**Description:** This project provides for improved flood control by upgrading the existing pipe along Hayes Avenue.

**Justification:** This project will alleviate frequent flooding during normal storm events because of the current undersized storm drain pipe.

**Operating Budget Impact:** The operating and maintenance funding for this project has been included in the Transportation budget.

**Relationship to General and Community Plans:** This project is consistent with the Uptown Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2011 and was completed in Fiscal Year 2019. The Environmental report was protested, which delayed the project by one year. Construction began in Fiscal Year 2019 and was completed in Fiscal Year 2020. Maintenance and monitoring began in Fiscal Year 2020 and is anticipated to be completed in Fiscal Year 2022. Project is anticipated to close in Fiscal Year 2022.

**Summary of Project Changes:** In Fiscal Year 2020 total project cost increased by \$79,000 due to revised project costs. The project schedule has been updated for Fiscal Year 2021.

### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Capital Outlay Fund	400002	\$ 2,815	\$ 1,969	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,784
CIP Contributions from General Fund	400265	67,843	141,877	-	-	-	-	-	-	-	-	209,720
Deferred Maintenance Revenue 2012A-Project	400848	6,850	-	-	-	-	-	-	-	-	-	6,850
General Fund Commercial Paper Notes	400869	144,117	16,435	-	-	-	-	-	-	-	-	160,552
Infrastructure Fund	100012	107,448	-	-	-	-	-	-	-	-	-	107,448
PFFA Lease Revenue Bonds 2015B-Project	400860	160,645	-	-	-	-	-	-	-	-	-	160,645
TransNet Extension Congestion Relief Fund	400169	15,000	-	-	-	-	-	-	-	-	-	15,000
Uptown Urban Comm	400121	683,441	50,659	-	-	-	-	-	-	-	-	734,100
<b>Total</b>		<b>\$ 1,188,160</b>	<b>\$ 210,939</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,399,100</b>

# Storm Water

## Maple Canyon Storm Drain Upgrade / S20003

## Drainage - Channels

<b>Council District:</b>	3	<b>Priority Score:</b>	86
<b>Community Planning:</b>	Centre City; Uptown	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Bose, Sheila
<b>Duration:</b>	2021 - 2029		619-533-4698
<b>Improvement Type:</b>	Replacement		sbose@sandiego.gov

**Description:** Project aims to realign and upgrade approximately 3,000 feet of existing drainage system between the San Diego Airport, a private industrial Facility, and Pacific Highway.

**Justification:** The existing alignment of the pipes prevents maintenance and repairs from occurring because a large portion of the system flows underneath a private property. The system is significantly undersized to convey the flow and sediment coming from the large connected tributary Maple Canyon watershed located upstream of the project which historically caused severe flooding in the project area resulting in significant property damage.

**Operating Budget Impact:** No additional maintenance costs are anticipated. The pipes will be relocated to the public Right of Way and enhanced; therefore, maintenance costs should be reduced for this system.

**Relationship to General and Community Plans:** This project is consistent with the Centre City and Uptown Community Plans and is in conformance with the City's General Plan.

**Schedule:** A feasibility study is scheduled to start in Fiscal Year 2021 and is anticipated to be completed in Fiscal Year 2023. The project design and construction schedule is dependent on the outcome of the feasibility study and will be determined in the future.

**Summary of Project Changes:** Project duration, description, and justification were updated for Fiscal Year 2021. Total project cost increased by \$30.0 million.

### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
CIP Contributions from General Fund	400265	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000
Unidentified Funding	9999	-	-	-	-	-	-	-	-	-	30,000,000	30,000,000
<b>Total</b>		<b>\$ -</b>	<b>\$ 250,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 30,000,000</b>	<b>\$ 30,250,000</b>

# Storm Water

## Watershed CIP / ACC00001

## Drainage - Best Mgt Practices (BMPs)

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Clairemont Mesa	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Dastgheibi, Sara
<b>Duration:</b>	2010 - 2040		858-541-4369
<b>Improvement Type:</b>	Betterment		sdastgheibi@sandiego.gov

**Description:** This annual allocation provides for the design and construction of watershed capital projects. These projects, in conjunction with non-structural water quality projects, address storm drain discharge water quality standards.

**Justification:** The purpose of these projects is to remove pollutants from storm water before it enters the City's public waterways or to reuse the storm water and keep it from entering public waterways. This results in reduced pollutants entering the ocean and various San Diego rivers and bays. These projects satisfy watershed-based water quality activity requirements in the Regional Water Quality Control Board's Municipal Storm Water National Pollutant Discharge Elimination System (NPDES) permit.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled to address pollutants of concern within high priority watersheds and are planned based on regulatory requirements and as funding is allocated.

**Summary of Project Changes:** In Fiscal Year 2020, City Council appropriated \$900,000 to this project.

### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Capital Outlay Fund	400002	\$ 1,014,899	\$ 87,361	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,102,261
CIP Contributions from General Fund	400265	5,874,873	1,515,851	-	-	-	-	-	-	-	-	7,390,724
Deferred Maintenance Revenue 2012A-Project	400848	828,055	-	-	-	-	-	-	-	-	-	828,055
Financing	9300	-	-	-	4,898,741	-	-	-	-	-	-	4,898,741
General Fund Commercial Paper Notes	400869	4,076,713	8,094,320	-	-	-	-	-	-	-	-	12,171,033
Grant Fund - State	600001	630,500	-	-	-	-	-	-	-	-	-	630,500
Infrastructure Fund	100012	613,941	89,860	-	-	-	-	-	-	-	-	703,801
PFFA Lease Revenue Bonds 2015A-Projects	400859	2,153,810	-	-	-	-	-	-	-	-	-	2,153,810
PFFA Lease Revenue Bonds 2015B-Project	400860	1,476,896	-	-	-	-	-	-	-	-	-	1,476,896
PFFA Lease Revenue Refunding Bonds 2013A - Project	400853	597,094	-	-	-	-	-	-	-	-	-	597,094
Rose & Tecolote Creek Water Quality	400631	183,284	-	-	-	-	-	-	-	-	-	183,284
SC-RDA Contribution to CIP Fund	200353	98,174	-	-	-	-	-	-	-	-	-	98,174
Unidentified Funding	9999	-	-	-	-	-	-	-	-	-	512,019,226	512,019,226
<b>Total</b>		<b>\$ 17,548,240</b>	<b>\$ 9,787,392</b>	<b>\$ -</b>	<b>\$ 4,898,741</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 512,019,226</b>	<b>\$ 544,253,600</b>

# Unfunded Needs List

## Storm Water

Project	Project Total	Unidentified Funding	Percent Unfunded	Description
Drainage Projects / ACA00001	\$ 633,222,677	\$ 494,845,710	78.15 %	This annual allocation provides for restructuring or replacing failed drainage facilities citywide. The unidentified funding amount reflects the estimated funding to address the deferred capital needs of the City's General Fund supported drainage projects for the next five fiscal years based on condition assessments.
Watershed CIP / ACC00001	\$ 544,253,600	\$ 512,019,226	94.08 %	This annual allocation provides for the design and construction of watershed capital projects. These projects, in conjunction with non-structural water quality projects, address storm drain discharge water quality standards. The unidentified funding amount reflects the estimated funding to address the deferred capital needs of the City's General Fund supported watershed projects for the next five fiscal years.
Maple Canyon Storm Drain Upgrade / S20003	\$ 30,250,000	\$ 30,000,000	99.17 %	This project provides for realignment and abandonment of approximately 3,000 feet of existing 54-inch and 36-inch reinforced concrete pipe (RCP) with approximately 3,500 feet of new storm drains ranging from 4.5 feet to 8 feet (two barrels) in sizes. Sufficient funding to conduct a feasibility study. The majority of the estimated project cost is currently unfunded.
<b>Total</b>		<b>\$ 1,036,864,936</b>		