

Catch Basin & Drain Line Maintenance and Repair Program

City of New Orleans

August 17, 2017



Introduction

What is a catch basin?

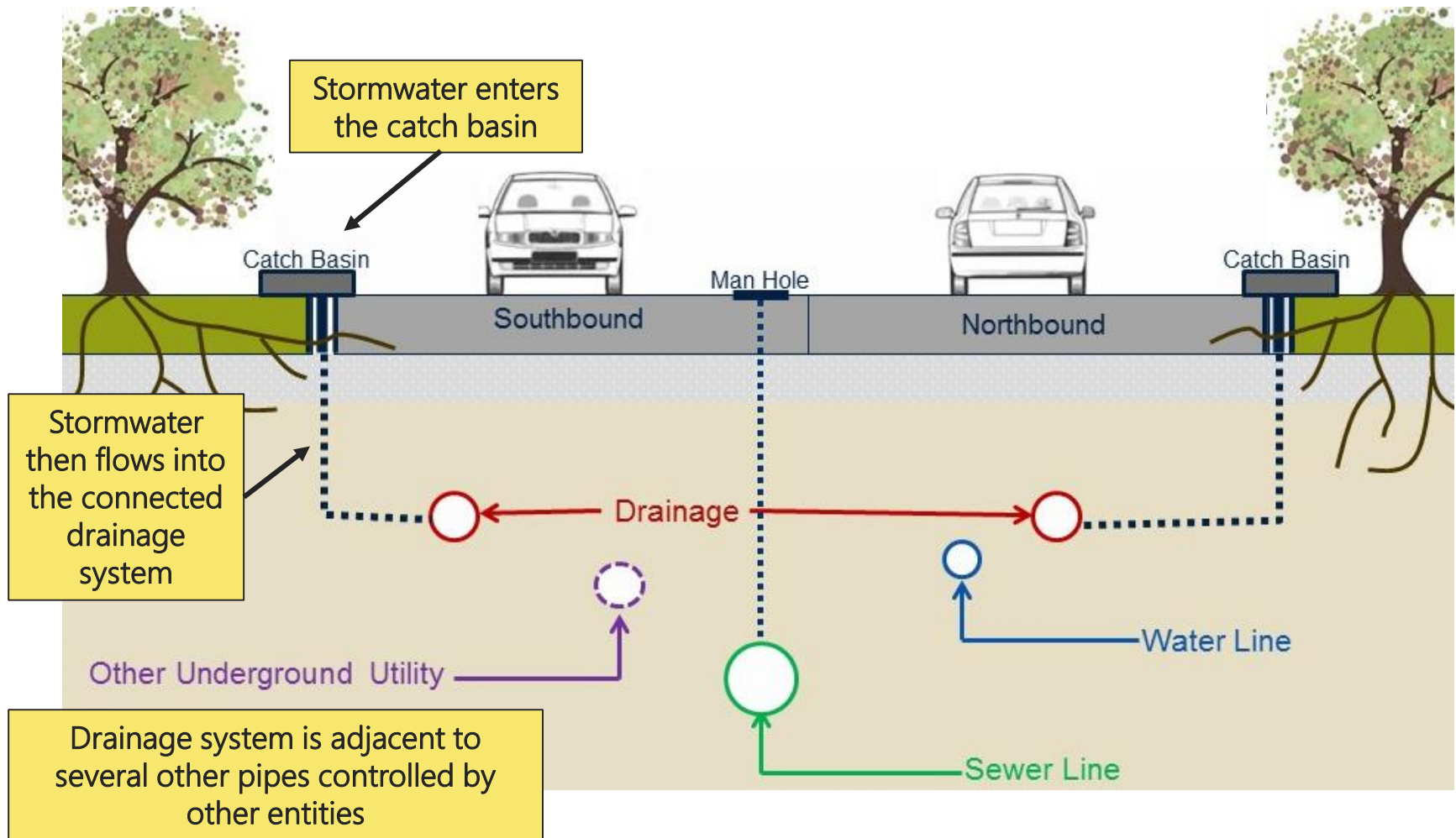


- Structured opening that allows for the collection and removal of stormwater
- Prevents debris and large objects from entering the drainage system
- Catch basin design is dependent on roadway structures



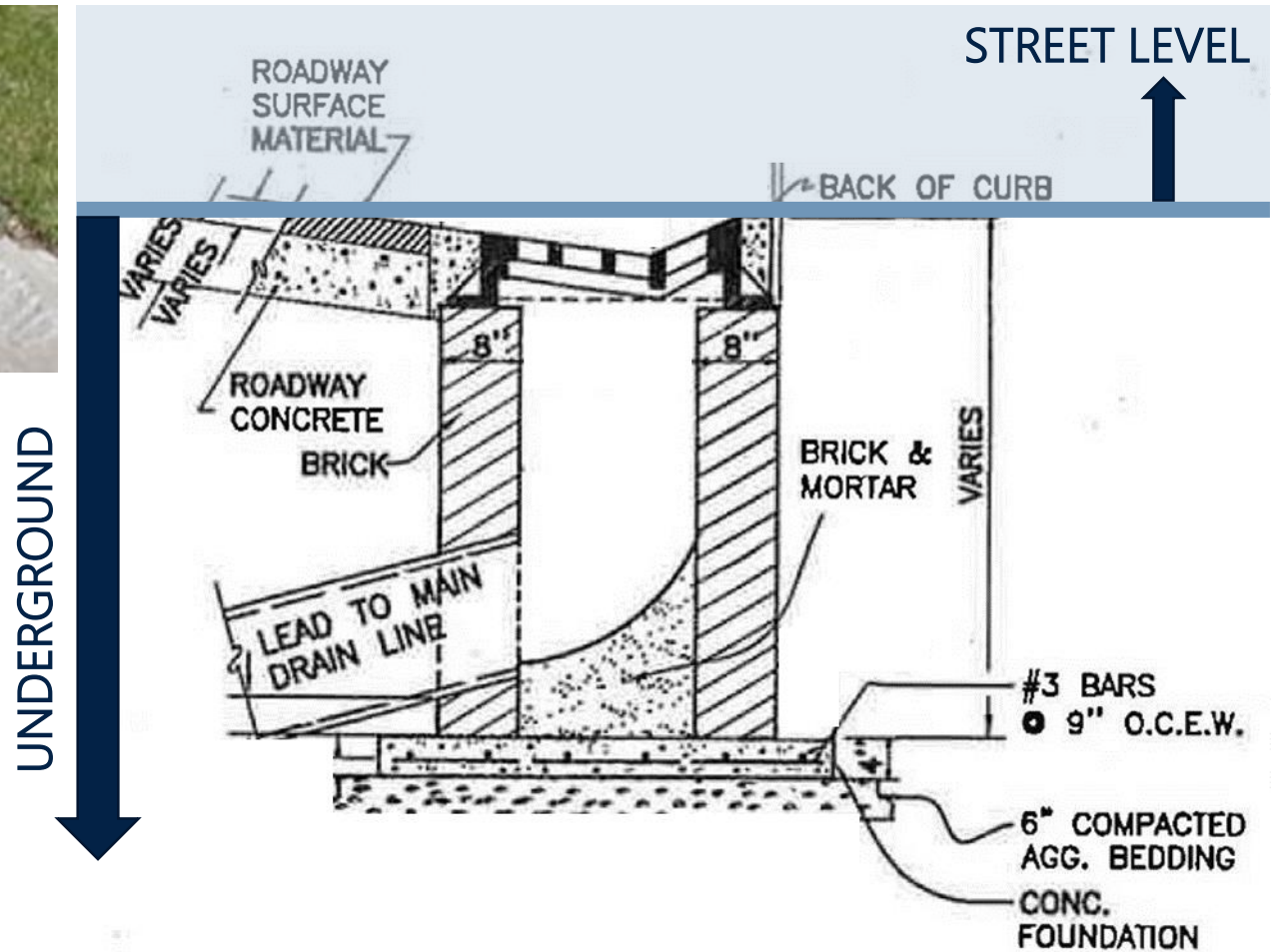
Introduction (cont'd)

Typical right of way cross-section

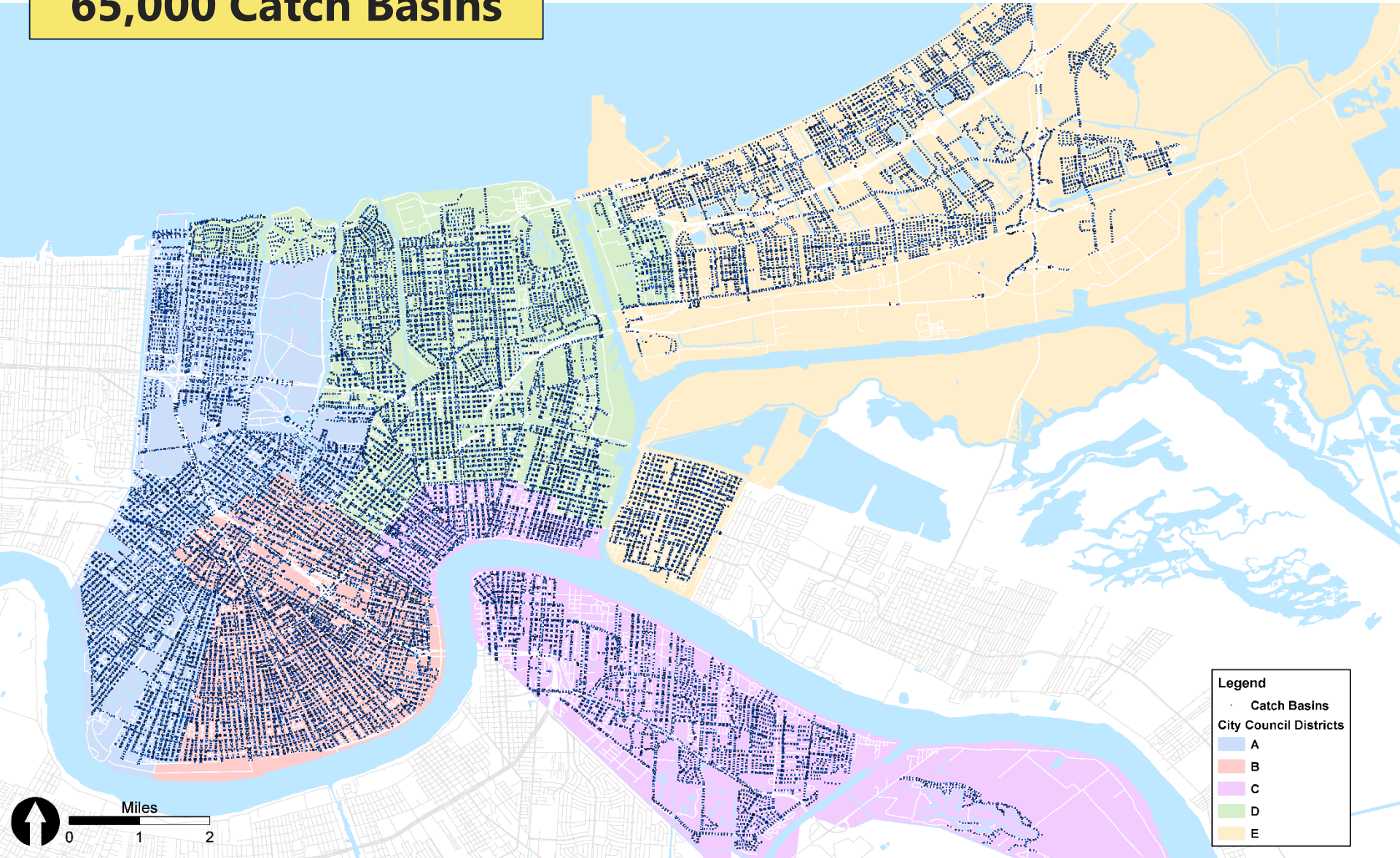


Introduction (cont'd)

Cross-section view of catch basin



65,000 Catch Basins



Legend

- Catch Basins
- City Council Districts
- A
- B
- C
- D
- E



Introduction (cont'd)

August Catch Basin / Drain Line Repairs

Focused recent catch basin and drain line cleaning and repairs in flood areas (e.g. Broad Street - Napoleon to Gentilly, Harrison Ave, Elysian Fields)

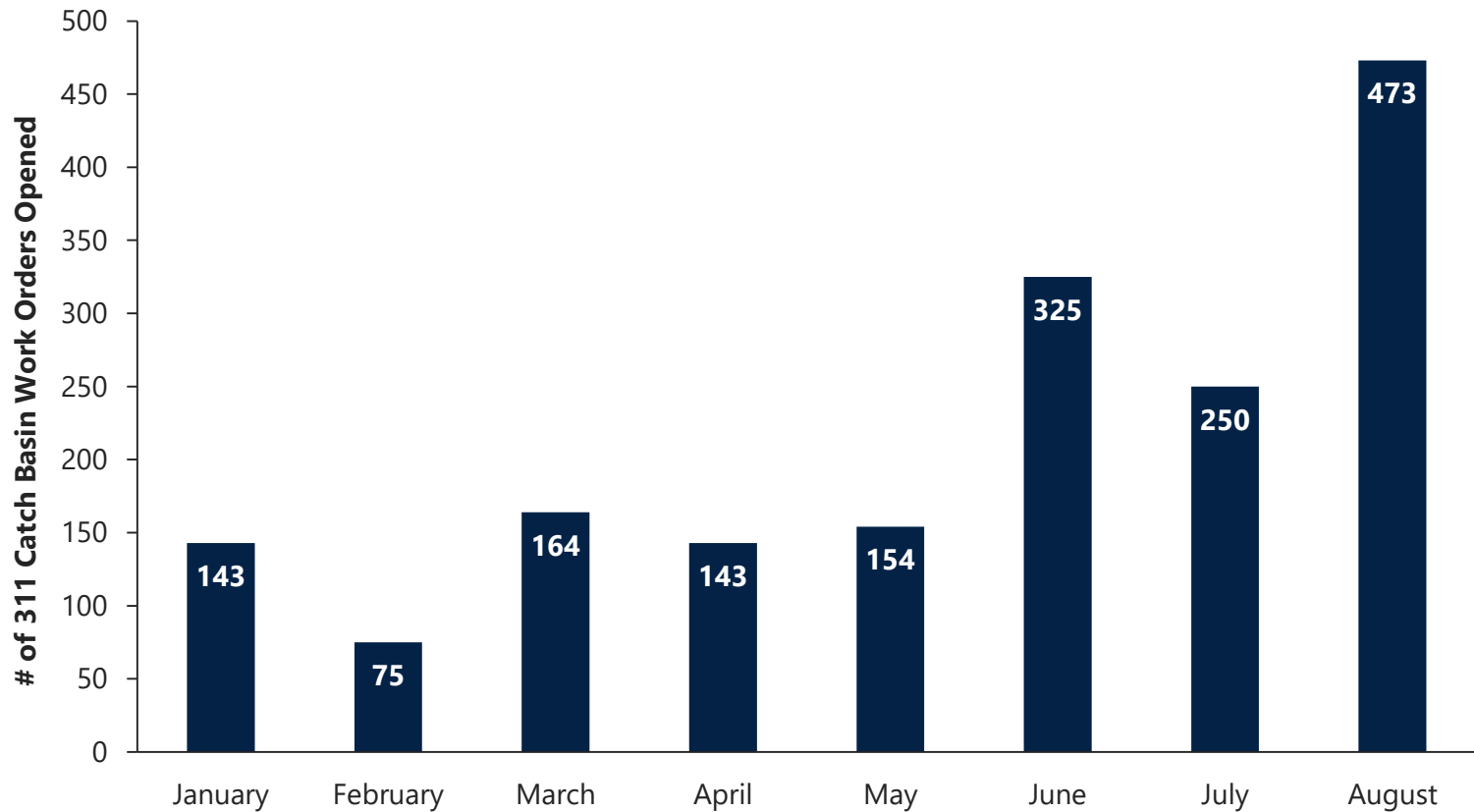
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
248 catch basins cleaned & unclogged 13,450 LF of drain line cleaned Only 3 out of 5 VAC trucks available						
13	14	15	16	17	18	19
	32 CBs cleaned & unclogged	27 CBs cleaned & unclogged	86 CBs cleaned & unclogged	4 trucks operating & 5 th truck available EOD	All 5 trucks will be available for use	

↑
4th City-owned VAC truck became available



Introduction (cont'd)

311 work orders opened per month for catch basin maintenance in 2017

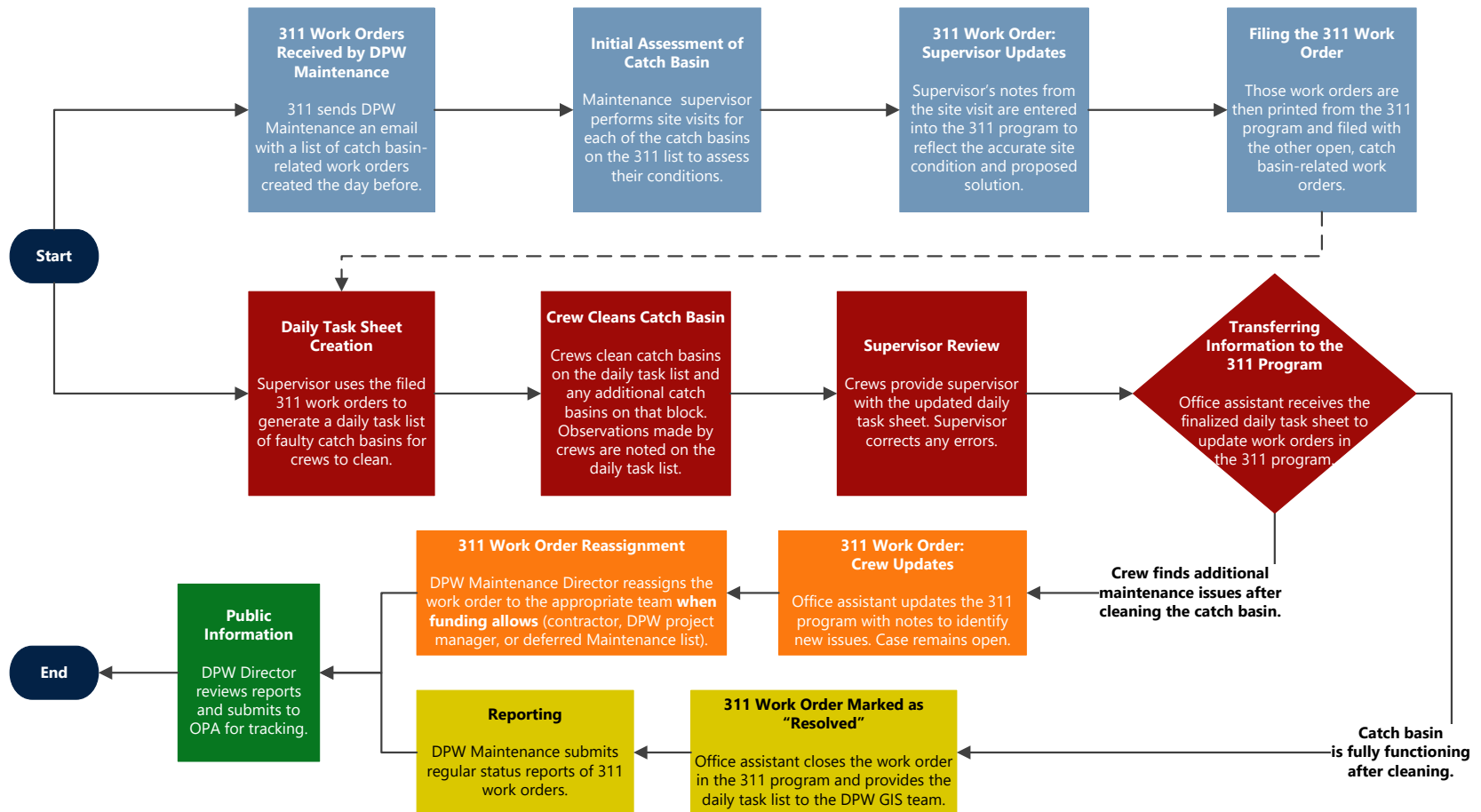


Source: data.nola.gov



Catch Basin Cleaning Workflow

What happens after a 311 work order for catch basin maintenance is opened?



Procurement

Procurement Overview

City will issue out 2 separate emergency bids for the catch basin maintenance and repair program

- Requesting \$22M in the proposed catch basin maintenance project
- Program will have 2 separate contracts:
 1. Catch Basin Cleaning & Assessment Contract
 2. Catch Basin Minor & Major Repairs Contract



Catch Basin Cleaning & Assessment Contract

Metro area contractors with capacity, expertise, and ability to lean forward on local hire program



Catch basin in need of an interior clean

- Proposal deadline: 72 hours
- Size of bid: \$7M
- Timeline: up to 120 days to complete
 - Penalized \$1,000 in liquidated damages for each day past the 120 day limit
- DBE contract requirement
- First Source contract requirement
- Hire NOLA contract requirements:
 - 35% of all hours performed by local workers
 - 15% of local worker hours performed by disadvantaged local workers
 - 15% of all apprentice craft hours completed by disadvantage local workers in a recognized apprenticeship program



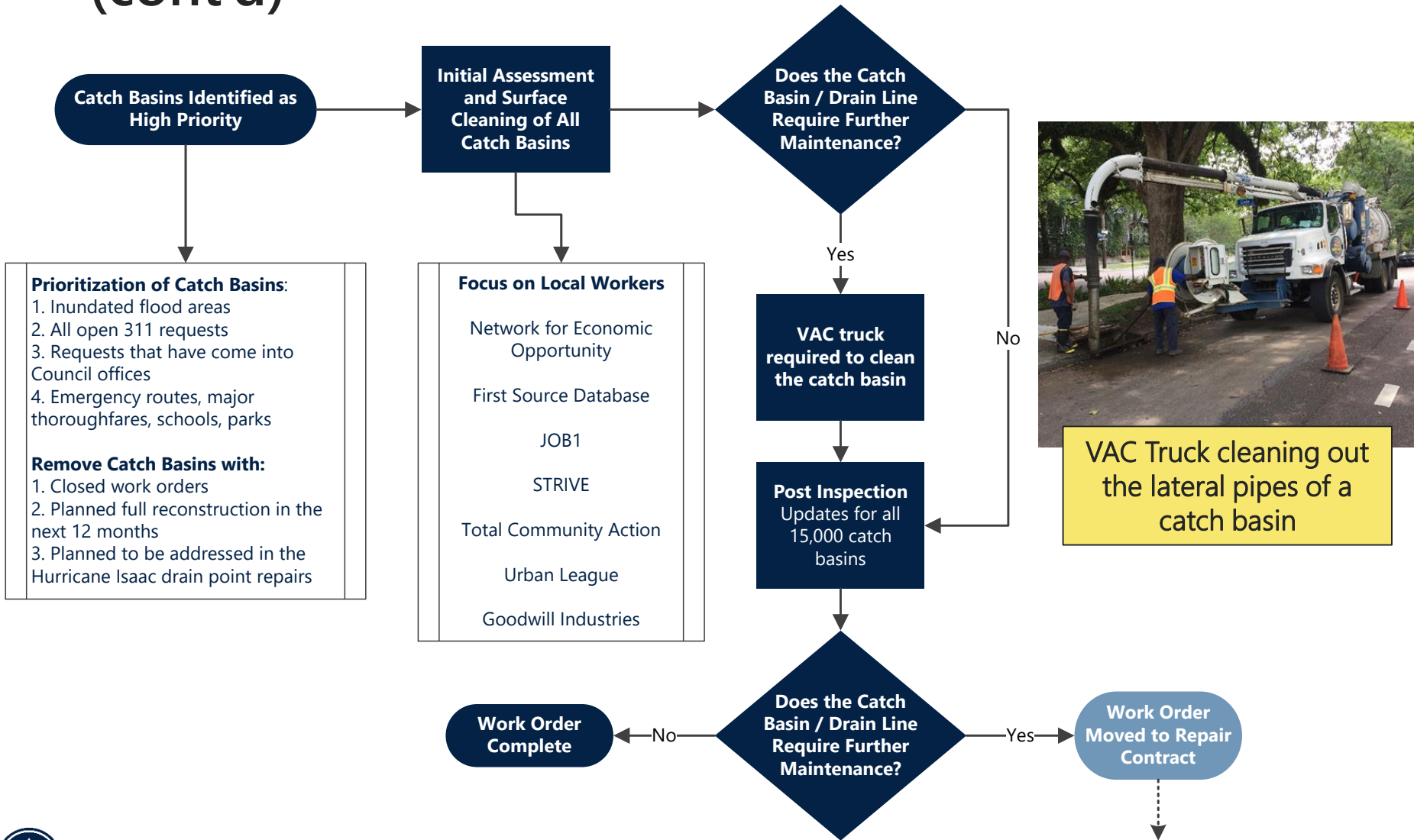
Catch Basin Cleaning & Assessment Contract (cont'd)

Cleaning of 15,000 catch basins

Surface Cleaning	<ul style="list-style-type: none">▪ Cleaning at the front of the catch basin opening▪ Removal of all debris 20 feet outside of the catch basin
Assessment	<ul style="list-style-type: none">▪ Determine if cleaning interior and lateral is required▪ Photo documentation will be required at all locations
Interior Cleaning	<ul style="list-style-type: none">▪ Cleaning inside from top to bottom of catch basin and/or lateral pipe outlet
Cleaning Laterals	<ul style="list-style-type: none">▪ Each lateral to be cleaned▪ If additional work is required, Contractor will provide a recommendation for required for full functionality



Catch Basin Cleaning & Assessment Contract (cont'd)



Catch Basin Minor & Major Repairs Contract

Metro area contractors with capacity, **construction** expertise, and ability to lean forward on local hires



Catch basin missing a lid, replaced with plywood

- Proposal deadline: 1 week
- Size of bid: \$13M
- Timeline: up to 12 months to complete
- DBE contract requirement
- First Source contract requirement
- Hire NOLA contract requirement



Catch Basin Minor & Major Repairs Contract

For catch basins that when assessed and cleaned, additional work still needed

- Causes for damage:
 - Collapsed walls
 - Missing frames
 - Broken sides
 - Replacing a missing lid
 - Rebuilding the frame of the lid

- Necessary minor and major repairs:
 - Full rehab including a frame/lid/mouth and adjustment to grade
 - Point repair on drain lines and pavement restoration
 - CCTV drain line and man hole inspection



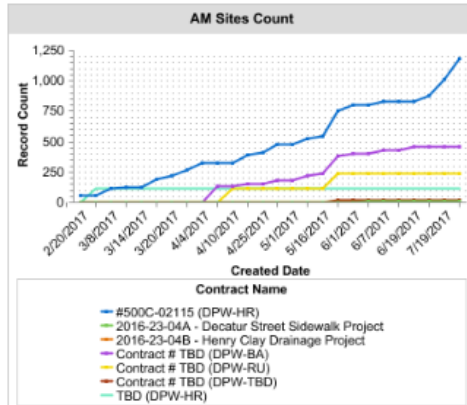
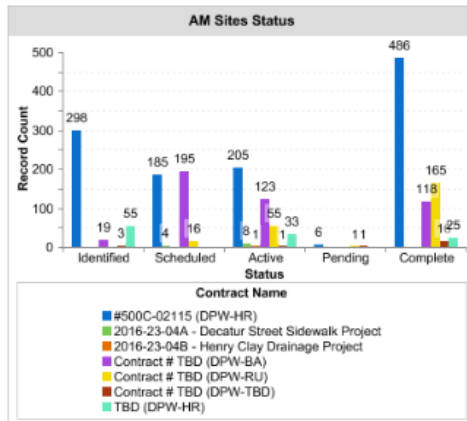
Rebuilding frame and casing of catch basin



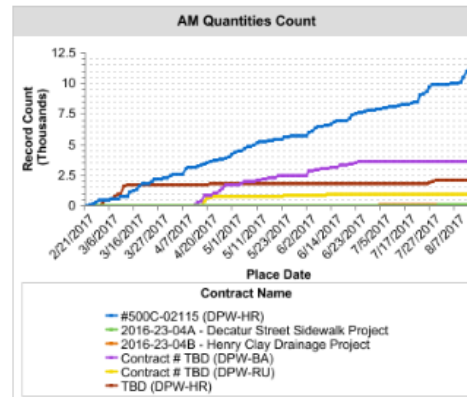
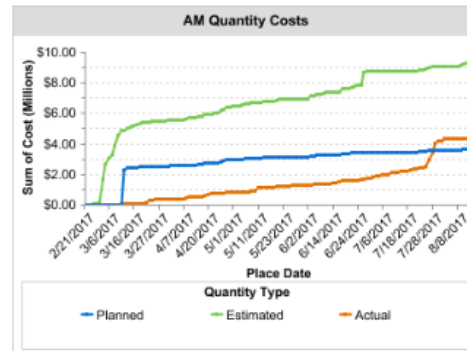
Construction Inspection Service

As with any City project, we want the public to be able to track this progress

SCOPE:



BUDGET:



Must have the ability to document progress of work and integrate into current workflows and future planning

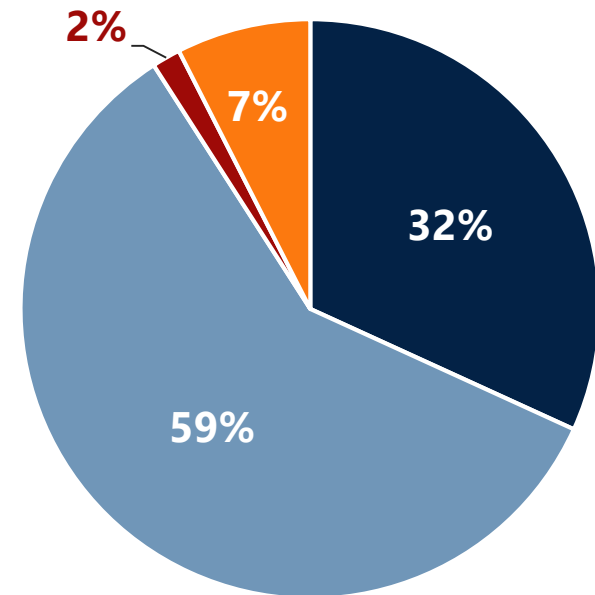
- Creating optimal work route
- Monitoring
- Detailed documentation
- Before/after photography
- Daily/weekly reporting
- Invoice reconciliation



Uses of Funds

Requesting total of \$22M to distribute between different catch basin / drain line initiatives

Project	Budget
Catch Basin Cleaning	\$ 7,000,000
Catch Basin Repairs	\$ 13,000,000
New City-Owned VAC Truck (for Q1 2018)	\$ 350,000
Construction Inspection Services	\$ 1,650,000
Total	\$ 22,000,000



- Catch Basin Cleaning
- Catch Basin Repairs
- New VAC Truck
- Construction Inspection



Going Forward

Education Campaign:

Just Rain in the Drain

- Working with the Office of Neighborhood Engagement and Office of Resilience to set up **neighborhood catch basin cleaning days**
- Developing educational and **information materials** (e.g. adding placards on catch basins that will be addressed under this program)
- Will engage New Orleans residents that are interested in participating on:
 - How to clean their catch basin safely
 - How to keep catch basins clean all year long

