

Memo

To: David Hertzberg P.E., Director of Public works
Cc: Dan Johnson, PE, Assistant Director of Public Works
From: Steven Martinez, Storm Water Engineer
Date: 1/4/2021
Re: Unfunded Needs & Minor System Improvements List

Comments:

The 2012 to 2022 Storm Water Sales Tax Program included funds for minor system improvements. The minor system improvements are typically used for drainage problems that are found in residential neighborhoods. Flooding in residential neighborhoods is reported to City staff by residents who are affected and by City staff who observe drainage issues during rain events while performing their duties. The process followed for collecting the possible improvement sites and then scoring them is as follows.

- City staff maintains a list of minor system drainage issues on an unfunded needs list.
- City staff investigates drainage issues to determine various factors used for ranking the possible projects. The factors include 1) property flooding, 2) Street Flooding, 3) Structure and Property Erosion, 4) Erosion causing failure to drainage structures, 5) System Condition, 6) Recreation Benefit, 7) loss of life.
- City staff uses the scoring factors to score the projects which creates an objective ranking of the projects.
- As funds become available, City staff prepares plans and specifications for projects, obtains easements if needed, and bids out minor system improvement projects or performs the work inhouse by use of City Operations staff when personnel are available.

Unfunded needs & Minor System Improvement List

Storm Water cases	Project Location	Type	Stormwater Issue Notes	Estimated Cost
1	10th and Main	Rehabilitation	Failing existing stormwater box	\$220,000
2	10th and Chestnut	Rehabilitation	Failing Existing stormwater box	\$388,000
3	14th and Byers	Rehabilitation	Failing existing stormwater box	\$200,000
4	Ozark avenue (North of Zora)	Ditch/Storm Sewer	Standing water in City RoW & Private property	\$160,000
5	Rolla st (btwn Brownell and Florida)	Ditch	Standing water on City RoW & Private Property	\$90,000
6	26th st and Highland avenue	Storm Sewer	Standing water on City RoW & Private Property	\$30,000
7	Geneva ave (btwn 9th and 10th)	Ditch	Ditch repair/Improvement	\$100,000
8	East Adrienne Drive	Ditch	Standing water on City RoW & Private Property	\$26,000
9	East Carolina Circuit	Ditch	Ditch repair/Improvements	\$50,000
10	9th and Forest	Ditch	Ditch repair/Improvements	\$85,000
11	23rd and Adele	Storm Sewer	Ponding water on street	\$420,000
12	34th st (btwn Connecticut and Finley)	Ditch	Standing water on City RoW & Private Property	\$30,000
13	East Douglas Place ditch	Ditch	Ditch repair/Improvements	\$30,000
14	Cambridge road C&G	Storm Sewer	Damage to street and C&G due to groundwater	\$205,000
15	17 street (btwn Indiana & Illinois)	Ditch	Ponding water on street	\$35,000
16	Maiden Lane/Junge blvd willow branch	Rehabilitation	Aging existing infrastructure	N/A
17	4501 E. Newman	Culvert	Standing water on private property	\$38,000
18	20th and Patterson	Ditch	Standing water on private property	\$92,000
19	1710 S. Maiden Ln	Ditch	Ditch repair/improvement	\$90,000

20	20th and Davis	Storm Sewer/Ditch	Standing water on private property (Structural Flooding)	\$57,000
21	North Forest Court	Ditch	Standing water on private property	\$26,000
22	2219 Delaware	Storm sewer	Standing water on private property	\$12,000
23	Blue Herron Dr (Cattails Subdivision)	Storm sewer	Ditch repair/Improvements	\$635,000
24	34th and Joplin	Storm sewer	Inadequate existing stormwater system	N/A
25	Katie Lane	Storm sewer	Prevalent ground water seeping through street	\$220,000
26	10th and Jefferson	storm sewer	Ponding water at intersection	\$80,000
27	West 28th place (Cedar Ridge)	Ditch/storm sewer	Undersized existing stormwater system	N/A
28	30th and Michigan	Ditch/Storm Sewer	Standing water on City RoW & Private Property	\$90,000
29	Chelsea Dr.	Ditch	Ditch repair/improvement	\$75,000
30	2401 Stinett Dr.	Ditch/Storm Sewer	Nuisance flooding in backyards and street	\$130,000
31	3302 Moorehead Drive	Ditch	Ditch repair	\$80,000
32	4511 Oaklawn	Culvert/Ditch	Ditch erosion	\$42,000
33	3rd and McCoy	Storm sewer	Standing water on City RoW & Private property	\$120,000
34	Witmer Subdivision	Ditch	Ditch repair/improvement	N/A
35	McCoy Ave. 21st to 22nd	Storm sewer	Needs storm water infrastructure	\$300,000
36	30th and Vermont	storm sewer	Standing water on City RoW & Private property	\$90,000
37	3013 N. Brownell	storm sewer/culvert	Standing water on City RoW & Private property	\$70,000
38	Finley Subdivision	Ditch/Culvert	Standing water on City RoW & Private property	N/A
39	Zora and Duquesne (Turkey Creek)	Creek work	Floodplain	N/A
40	Tall Grass Estates	Ditch	Standing water on private property	\$230,000
41	26th and Highland	Storm sewer	Standing water on private property	\$69,000
42	32nd and Oliver	Storm sewer	Standing water on City RoW & Private property (Struct. Flooding)	\$180,000
43	Junge and Byers	Storm Sewer	Undersized existing stormwater system	N/A
44	6021 W. Highland Drive, Relief Sewer	Storm Sewer	Undersized existing stormwater system	\$30,000

45	Grand Ave. and 34th St., Paved Ditch	Ditch	Exist. Flume undersized and obstructed	\$15,000
46	32nd and Pearl	Storm Sewer	Negative Drainage to exist. Inlets	\$89,000
47	Main St. 25th to 27th Street	Storm Sewer	Undersized existing stormwater system	\$537,000
48	Intersection of 9th and Minnesota Ave.	Storm Sewer	Undersized existing stormwater system	\$129,000
49	Intersection of 14th St. and Florida Ave.	Rehabilitation	Damaged and obstructed Infrastructure	\$54,000
50	Cleveland Ave. Between 25th and 24th St.	Storm Sewer	Undersized existing stormwater system	\$40,000
51	Salem St. just East of Park Ave.	Culvert	Needs culvert	\$14,000
52	Windsor St. from Michigan Ave. to Illinois Ave.	Storm Sewer	Undersized existing stormwater system	\$85,000
53	Industrial Park Rd. and Kennedy Ln.	Detention	Detention Basin Needed	\$237,000
54	Murphy Boulevard and Crest Drive	Storm Sewer	Undersized existing stormwater system	N/A
55	19th and Harlem	Storm Sewer	Standing water on City RoW	N/A
56	23rd and Sergeant	Storm Sewer	Standing water on City RoW	N/A
57	19th and Ohio	Storm Sewer	Standing water on City RoW	\$110,000
58	4218 W 28th street	Storm Sewer	Standing water on City RoW	N/A
59	1726 Whispering Oaks Drive	Ditch/Storm Sewer	Standing water on City RoW & Private property	N/A
60	33rd and Indiana	Storm Sewer	Undersized existing stormwater system	N/A
61	33rd and Ferguson	Ditch	Nuisance flooding in private property	N/A
62	19 th and New Jersey	Ditch/Storm Sewer	Standing water on City RoW	\$110,000
63	8 th and Brownell	Ditch	Standing water on private property	\$42,000

*The projects presented in this list are not ranked. As City staff became aware of drainage issues via public input and field observations the list is expanded, and cost estimates are analyzed. As such this list is a living document which is expanded as City staff acquires new information on drainage issues.

** Projects and Improvements requiring further study for cost estimates are listed as N/A in cost estimate column