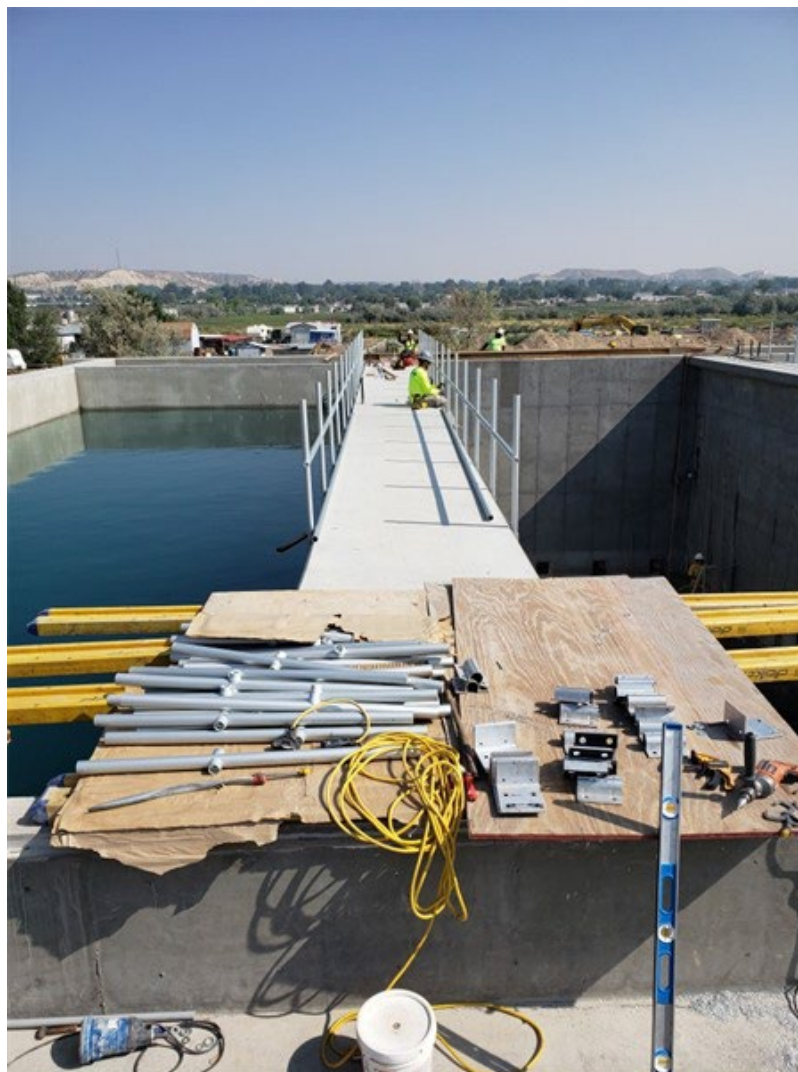




CITY OF BLOOMFIELD
FISCAL YEARS 2023-2027
INFRASTRUCTURE CAPITAL IMPROVEMENT PLAN
August 18, 2021



Construction of Sequencing Batch Reactors at Water Reclamation Facility Project.

Prepared by:
Jason Thomas, PE
Assistant City Manager



CITY OF BLOOMFIELD

FISCAL YEARS 2023-2027

INFRASTRUCTURE CAPITAL IMPROVEMENT PLAN

August 18, 2021

1.0 INTRODUCTION

Every year, counties, municipalities, tribal governments, special districts, and senior citizen facilities are called by the New Mexico Department of Finance and Administration (DFA) to update their Infrastructure Capital Improvement Plan (ICIP), which spans a five year period. According to program guidance, an eligible project is “any partially funded or unfunded capital improvement for which the entity plans to have funding in place during state fiscal years (July 1, 2023 to June 30, 2027).” Only projects that are properly scoped and ready for funding should be included in the Plan. The previous list is provided as **Attachment A**. The ICIP can also be amended mid-year by submitting the new project information, and providing a resolution adopting the change. Senior Citizen Projects are kept on a separate list. The “Wastewater Treatment Plant Improvements” project was fully funded, so it was taken off the list. The “East Blanco Bridge Replacement” project should be fully funded, but it will remain on the list until the Phase II construction bid is awarded. “Bergin Lane Reconstruction”, Brownfields Clean-up: Blanco and 5th Project”, and “City Hall Emergency Generator” project were added to the list, as Staff is close to seeking funding for these projects. The following sections provide a summary of the various projects on the proposed ICIP.

A summary table of this year’s projects follows:

ICIP RANKING	PROJECT	TOTAL BUDGET
1	West Tank Replacement	\$ 2,087,366
2	East Blanco Bridge Replacement	\$ 3,880,703
3	Scott Reservoir	\$ 14,500,000
4	Bergin Lane Reconstruction	\$ 3,573,835
5	Police Vehicle Purchase	\$ 160,000
6	Brownfields Clean-up: Blanco and 5th Project	\$ 4,360,101
7	Second Source Upgrades	\$ 2,448,076
8	Replace Ladder Truck	\$ 1,600,000
9	Chip Seal or Overlay of Various Streets	\$ 120,000
10	Replace Jet Rodder Truck	\$ 420,000
11	E. Blanco - Saiz Ln Sewer Line Replacement	\$ 1,617,089
12	City Hall Emergency Generator	\$ 120,000
13	Boom Mulcher/Masticator	\$ 60,000
	TOTAL	\$ 34,947,170

2.0 WEST TANK REPLACEMENT (ICIP 2023-001)

Summary: The 1M Gallon tank, constructed in 1982, is in need of replacement. The City of Bloomfield had the tank inspected in March 2021. The interior tank coating is peeling in large areas and the floor is heavily corroded with some deep pits. The inspector recommends that the tank be rehabilitated or replaced “as soon as possible”. The interior weir box is severely corroded, and a repair plate was added by the inspector. However, water is still leaking out of the overflow. The tank serves the western portion of the City on the Central Zone. Staff is recommending a replacement onto City property. The tank is currently located on federal land in Lybertee Park.

Funding Sources: Federal Infrastructure Funds, Capital Outlay, and Water Trust Board funds could be used for this project.

Total Project Budget: \$2,087,366



Interior coating where the roof joins the shell.

3.0 EAST BLANCO BRIDGE REPLACEMENT (ICIP Ranking 2023-002)

Summary: The East Blanco Bridge was rated “functionally obsolete” in the 2013 NMDOT Bridge Inspection Report. The bridge is substandard for both pedestrian and vehicular use, due to the lack of barriers, lack of sidewalks and pedestrian walkways on both sides of the structure. Further, there are no bicycle accommodations. Two fatalities have occurred on or near the bridge. The bridge piles are subject to scouring from the Bloomfield Wash. There are numerous cracks on the deck, along the edge and underside of the deck, and on the abutments. The deck also shows signs of wear/abrasion with exposed aggregate. To improve hydraulics and resist erosive velocities, a triple box culvert is proposed to replace the bridge. The proposed street cross section includes two-five foot sidewalks, buffer area, bike lanes, and two-twelve foot travel lanes. The project is divided into two phases to accommodate limited funding: Phase I includes the relocation of utilities, and Phase II includes the construction of the bridge. Phase I was completed in March 2021 by Halo Services Inc. Design revisions are being completed by CHC Engineers, that will make Phase II bid-ready this fall. Cobb Fendley is under contract to create another acquisition map on the Finch property, and also act as the Right of Way Agent. NV5 will be under contract this fall to update the environmental document.

Funding Sources: Two new funding sources have been added since the last report. A Capital Outlay award of \$2.4M was made by our Legislators during the 2021 Session. A MAP award was made in the amount of \$124,444 in June 2021. A NMDOT Transportation Project Fund in the amount of \$383,000 is anticipated later this year. If this last award is made, the project could be fully funded. Due to the uncertainty of escalating construction costs, the project will remain in the ICIP until the bid is awarded.

Total Project Budget: \$3,880,703



Phase I utility relocation by Halo Services in February 2021.

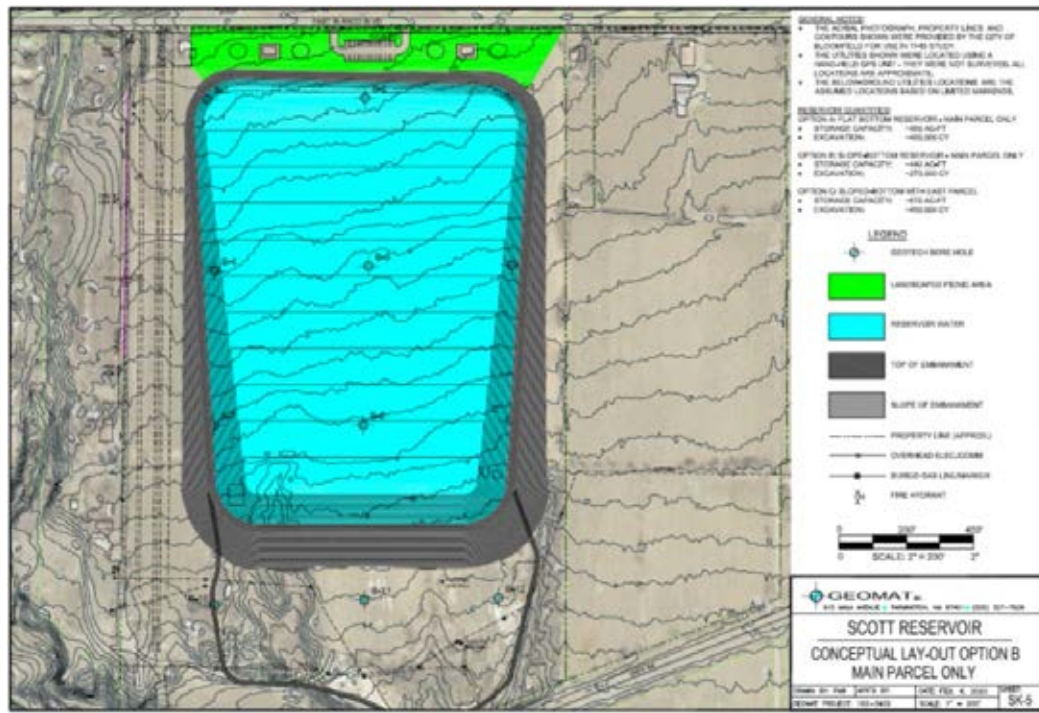
4.0 SCOTT RESERVOIR (ICIP Ranking 2023-003)

Summary: After Council directed Staff to search for a new reservoir site, Staff identified the Scott Farms site as a potential water reservoir location. The location of the site is very advantageous. It is located adjacent to East Blanco Blvd, where raw water could flow by gravity from the City's existing reservoir via a raw water line. Water could then be pumped out to the Water Filter Plant. Further, raw water from Second Source could be pumped to the new reservoir via a force main in Palomino Dr, which would provide additional settling and storage. A storage volume of 400 ac-ft could be available at the site, which would be five times the storage available in the current reservoir (80 ac-ft). This would extend the City's storage from one month to a total of five months.

Council authorized staff to conduct a geotechnical site investigation of the property, and the investigation concluded that the site would be able to accommodate a 440 ac-ft reservoir. However, recent concerns regarding subgrade stability have been raised by another geotechnical firm, who is experienced in dam design and construction. A second geotechnical investigation and preliminary design work will be needed before the project can move forward. An appraisal was completed on the property in February 2021.

Funding Sources: Staff responded to a Call for Drinking Water Projects in April 2020 with an application to fund the acquisition phase (\$1.5M). Utility funds were used to fund the site investigation and appraisal. Federal Infrastructure Funds, Capital Outlay Funds, Water Trust Board, and funds from the San Juan Water Commission may be pursued to fund design, acquisition, permitting, and construction.

Total Project Budget: \$14,500,000



5.0 BERGIN LANE RECONSTRUCTION (ICIP Ranking 2023-004)

Summary: Now that the East Blanco Bridge Replacement is fully funded, and new transportation funding is available at the state and federal levels, the City needs to start working on the next major transportation project. A plan was developed by Souder Miller & Associates in July 2005, that would have reconstructed part of Bergin Lane. However, funding was re-allocated by the City to another project, and the improvements were never made. Mesa Alta Junior High and the Bloomfield Municipal Schools Administrative Offices are located here. A significant number of students walk to school along this street. There is no sidewalk connectivity from West Broadway to the school. The water and sewer lines are also in need of replacement. During rain events, the streets are flooded: a complete storm drain system is needed. The major reconstruction would include new water, sewer, and storm drains. A new pavement section would be reconstructed. New curb, sidewalks, ADA ramps, and other features would be constructed to offer a safer walk to school. Staff recommends contracting with Souder Miller to re-survey the street and prepare a preliminary plan of the improvements. The new plan would assist in securing additional funding for the final design, acquisition, and construction.

Funding Sources: Federal Infrastructure Funds, NMDOT funds, Capital Outlay. Staff recommends using City funds to complete the survey and preliminary plan.

Total Project Budget: \$3,573,835



View looking north showing poor drainage features and no continuous sidewalk.

6.0 POLICE VEHICLE PURCHASE (ICIP Ranking 2022-005)

Summary: The Police Department received three new vehicles in 2020, and one used 2013 unit for an administrative vehicle. Currently, there are 24 operable units, including all spares. A total of 17 have over 100,000 miles of rough service. A police vehicle must idle most of the day, and is frequently subjected to quick acceleration. Due to the extreme use and high miles of this fleet, repairs are frequent. A vehicle replacement plan would be to purchase two new units annually (at a cost of \$80,000 each), and take two old units out of service. However, City funding is not available to fund this plan.

Funding Sources: Our Legislators awarded funds for the purchase of two equipped vehicles during the 2021 Legislative Session. Staff will request \$160,000 during the next Legislative Session to replace two vehicles.

Total Project Budget: \$160,000



7.0 BROWNFIELDS CLEAN-UP: BLANCO AND 5TH STREET (ICIP Ranking 2023-006)

Summary: The old Aerex Refinery on both corners of W. Blanco Blvd and 5th Street has been identified by the City as a “brownfield”. The EPA defines a brownfield as a property the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. In 2006, a subsurface investigation on the east parcel showed signs of contamination from the old refinery. In 2019, the EPA funded a Phase I Environmental Site Assessment both parcels, which indicated the likely presence of soil and groundwater contamination on the west parcel. Funded by a Brownfields Coalition Grant awarded to NMED and Northwest New Mexico Council of Governments, a Phase II assessment was performed on both parcels. Passive soil gas analysis, environmental boring, and soil sample analyses were performed on the west parcel. Results are still preliminary, but petroleum contamination was found in different areas across the west parcel. A geophysical survey was also conducted, and anomalies that indicate underground tanks and piping may also be present. More subsurface investigations are planned this September. The City plans to apply for an EPA Brownfields Grant this fall. Based on the results from the Phase II assessment, the budget will be further refined. The final grant application may only cover one of the parcels, since the City must match the grant amount by 20%. Our match will likely include cash and in-house labor and services.

Funding Sources: Brownfields Assessment Grant funding has already been awarded and used. A Brownfields Cleanup Grant will be applied for this fall.

Total Project Budget: \$4,360,101



Conceptual design by Hitchcock Design Group, from results of Community Workshop.

8.0 SECOND SOURCE UPGRADES (ICIP Ranking 2023-007)

Summary: At the direction of Council, efforts to develop an alternate primary raw water source were shifted from a Riverbed Filtration Project, to the Second Source Facility. The two major issues that prevent Second Source from operating properly are: groundwater intrusion into the basin and sediment loading. The project will enhance the operation of the Second Source facility by reducing salty groundwater intrusion and improving sediment removal and handling. Groundwater intrusion will be addressed by a cut-off wall and other improvements to divert groundwater around the basin. Sediment removal will be improved by installing a floating suction device on the pump station inlet, enlarging the basin, installing curtain walls, and installing a grit/sediment removal and dewatering device. Other improvements such as automatic actuated headgates are also planned.

Bloomfield Public Works used remaining Capital Outlay Grant Funds to perform a design-build project that automated the pump station and added water quality probes in the wet well. The pump station can now be run remotely from the Water Plant, while monitoring water quality coming in from the river. Crews also constructed a floating suction device, which greatly enhanced water quality being pumped from the pond. Two of the pumps have been re-built. The station has been in use since October 2021, and has pumped 291 million gallons.

Funding Sources: A Capital Outlay Grant was used to add automated controls and purchase the materials for the floating suction device. Federal Infrastructure funds may also be used for more improvements.

Total Project Budget: \$2,448,076



Floating suction device while pumping 1,170 gpm constructed by Public Works.

9.0 REPLACE LADDER TRUCK (ICIP 2023-008)

Summary: The Fire Department's Ladder Truck is a 1989 model, and no longer meets the current ISO requirements for a ladder truck. The ladder truck will be replaced with a new truck.

Funding Sources: Applied for a FEMA Assistance to Firefighter's Grant in FY20 for the replacement truck. Other possible funding sources include the State Fire Fund.

Total Project Budget: \$1,600,000



10.0 CHIP SEAL OR OVERLAY OF VARIOUS STREETS (ICIP 2023-009)

Summary: The current city-wide project using a NMDOT Local Government Road Fund (LGRF) award in the amount of \$400,896 (State: \$375,672, City: 25,224) is under way. The project will focus on another group of streets to receive chip seal or overlay every year.

Funding Sources: Funding sources include the City's Street Maintenance Budget and NMDOT Local Government Road Funds.

Total Project Budget: \$120,000



Map of Streets in LGRF FY 19 plus East Blanco Blvd

11.0 REPLACE JET RODDER TRUCK (ICIP 2023-010)

Summary: The Jet Rodder truck is a Vactor 2100 mounted on a 1990 Peterbuilt chassis. The truck is used to clear blocked sewer lines and storm sewers, clean lift stations, expose buried utilities using hydro excavation, clear the raw water line from the BID ditch to the reservoir, and other various **critical** functions in Public Works. Repairs to the clutches, gearboxes, displacement pump, electrical, and hydraulic systems have been necessary. Overheating has also occurred. Parts are obsolete, and “work-arounds” are becoming necessary to keep the unit operating. Since FY18, the City spent \$38,600 in contract vacuum truck services due to the unreliability of this truck. In the last year, the City spent \$36,300 in parts and labor to keep the truck operable.

Funding Sources: Surplus Revenues from the Utility Fund could be set aside over the next few years to assist with the purchase of the truck. Capital Outlay may also be a source. Federal Infrastructure Funds may also be used.

Total Project Budget: \$420,000



12.0 E. BLANCO – SAIZ LANE SEWER LINE REPLACEMENT (ICIP 2023-11)

Summary: The sewer line in East Blanco Boulevard is clay tile pipe, and has failed several times. The sewer line in Saiz Lane is asbestos-cement pipe, and has also collapsed and necessitated significant emergency repairs. The most recent Saiz Lane repair required the replacement of 475 ft of 8” collapsed line. The total cost of the repair was \$65,000.

At the downstream end near the E. Blanco Bridge, a new sewer siphon is being constructed as part of Phase I of the bridge replacement project.

This project will be the first in a water and sewer line renewal plan that specifically targets asbestos-cement pipe.

Funding Sources: Surplus revenues from the Utility Fund and Capital Outlay. Federal Infrastructure Funds may also be used.

Total Project Budget: \$1,617,089



Saiz Lane sewer repair asphalt patch, looking south from Shirley Street.

13.0 CITY HALL EMERGENCY GENERATOR (ICIP 2023-12)

Summary: The emergency generator at City Hall is obsolete, and the automatic transfer switch occasionally malfunctions. The Allis Chambers generator is a 1978 model, and was relocated from the water plant in 2007 after years of service. The diesel tank is a single-wall unit that no longer meets containment standards. Additionally, the city mechanic reports that there is oil blow-by from the pistons. The circuit boards are analog, and difficult to find. The generator serves certain circuits in City Hall, including a limited amount of outlets in the IT Server Room. The servers are connected to all of the other city departments, and are critical assets to the City's operation. The existing generator does not serve the A/C unit which provides cooling to the Server Room. The project would replace the generator and storage tank with a new generator set with integral double-wall diesel tank. The new generator would pick up the A/C, and possibly other circuits in City Hall.

Funding Sources: Grants and Capital Outlay may be a source. Federal Infrastructure Funds may also be used.

Total Project Budget: \$120,000



14.0 NEW MULCHER/MASTICATOR BOOM (ICIP 2023-13)

Summary: The City has partnered with the Bloomfield Irrigation District to maintain certain parts of their right of way in exchange for using the maintenance road as a trail system. Further, the City needs to clear and maintain more drainage ways and also create and maintain more trails. Overgrowth in our more rural rights of way also present site distance issues. A mulcher/masticator boom attachment for the City's JD 200CLC Excavator would support these tasks.

Funding Sources: Grants and Capital Outlay may be a source. Federal Infrastructure Funds may also be used.

Total Project Budget: \$60,000



An example of a mulcher/masticator attachment mounted on a trackhoe.

ATTACHMENT A
FY 22 – 26 ICIP PROJECT SUMMARY
(LAST YEAR'S PLAN)

Infrastructure Capital Improvement Plan FY 2022-2026

Bloomfield Project Summary

ID	Year	Rank	Project Title	Category	Funded						Total	Amount	Phases?
					to date	2022	2023	2024	2025	2026	Project Cost	Not Yet Funded	
36474	2022	001	Second Source Upgrades	Water - Water Supply	140,873	198,498	2,107,908	0	0	0	2,447,279	2,306,406	No
15906	2022	002	Wastewater Treatment Plant Improvements	Water - Wastewater	14,637,066	981,535	0	0	0	0	15,618,601	981,535	No
21282	2022	003	East Blanco Blvd. Bridge Replacement	Transportation - Highways/Roads/Bridges	835,389	2,524,134	0	0	0	0	3,359,523	2,524,134	No
37499	2022	004	Scott Reservoir	Water - Water Supply	55,076	2,370,000	12,033,788	0	0	0	14,458,864	14,403,788	No
27905	2022	005	Police Vehicle Purchase	Vehicles - Public Safety Vehicle	0	140,000	140,000	140,000	140,000	140,000	700,000	700,000	Yes
19846	2022	006	Replace Ladder Truck (1989)	Equipment - Public Safety Equipment	0	1,600,000	0	0	0	0	1,600,000	1,600,000	No
30014	2022	007	Chip Seal or Overlay of various Streets	Transportation - Highways/Roads/Bridges	421,139	120,000	0	0	0	0	541,139	120,000	No
37501	2022	008	West Tank Rehab/Replacement	Water - Water Supply	40,000	154,925	1,704,170	0	0	0	1,899,095	1,859,095	No
34815	2022	009	Replace Jet Rodder Truck	Water - Wastewater	0	420,000	0	0	0	0	420,000	420,000	No
37508	2022	010	Backhoe Replacement	Other - Utilities (publicly owned)	0	116,000	0	0	0	0	116,000	116,000	No
37509	2022	011	Water Plant Filter Controls	Water - Water Supply	0	120,000	0	0	0	0	120,000	120,000	No
37510	2022	012	Mulcher/Masticator Boom	Other - Utilities (publicly owned)	0	60,000	0	0	0	0	60,000	60,000	No
37665	2022	013	East Blanco - Saiz Lane Sewer Replacement	Water - Wastewater	30,000	284,221	1,301,106	0	0	0	1,615,327	1,585,327	No

Number of projects: 13

Infrastructure Capital Improvement Plan FY 2022-2026

	Funded to date:	Year 1:	Year 2:	Year 3:	Year 4:	Year 5:	Total Project Cost:	Total Not Yet Funded:
Grand Totals	16,159,543	9,089,313	17,286,972	140,000	140,000	140,000	42,955,832	26,796,288

ATTACHMENT B
FY 23 – 27 ICIP PROJECT SUMMARY
(THIS YEAR'S PLAN)

Infrastructure Capital Improvement Plan FY 2023-2027

Bloomfield Project Summary

ID	Year	Rank	Project Title	Category	Funded	2023	2024	2025	2026	2027	Total	Amount	Phases?
					to date						Project	Not Yet	
37501	2023	001	West Tank Replacement	Water - Water Supply	40,000	170,614	1,876,752	0	0	0	2,087,366	2,047,366	No
21282	2023	002	East Blanco Blvd. Bridge Replacement	Transportation - Highways/Roads/Bridges	3,880,703	0	0	0	0	0	3,880,703	0	No
37499	2023	003	Scott Reservoir	Water - Water Supply	55,076	2,370,000	12,033,788	0	0	0	14,458,864	14,403,788	No
38569	2023	004	Bergin Lane Reconstruction	Transportation - Highways/Roads/Bridges	0	123,713	3,450,122	0	0	0	3,573,835	3,573,835	No
27905	2023	005	Police Vehicle Purchase	Vehicles - Public Safety Vehicle	0	160,000	160,000	160,000	160,000	160,000	800,000	800,000	Yes
38570	2023	006	Brownfields Clean-up: Blanco and 5th Street	Facilities - Other	5,085	169,686	4,185,330	0	0	0	4,360,101	4,355,016	No
36474	2023	007	Second Source Upgrades	Water - Water Supply	138,263	198,579	2,111,234	0	0	0	2,448,076	2,309,813	No
19846	2023	008	Replace Ladder Truck (1989)	Equipment - Public Safety Equipment	0	1,600,000	0	0	0	0	1,600,000	1,600,000	No
30014	2023	009	Chip Seal or Overlay of various Streets	Transportation - Highways/Roads/Bridges	421,139	120,000	0	0	0	0	541,139	120,000	No
34815	2023	010	Replace Jet Rodder Truck	Water - Wastewater	0	420,000	0	0	0	0	420,000	420,000	No
37665	2023	011	East Blanco - Saiz Lane Sewer Replacement	Water - Wastewater	30,000	284,515	1,302,574	0	0	0	1,617,089	1,587,089	No
38646	2023	012	City Hall Emergency Generator	Facilities - Administrative Facilities	10,000	110,000	0	0	0	0	120,000	110,000	No
37510	2023	013	Mulcher/Masticator Boom	Other - Utilities (publicly owned)	0	60,000	0	0	0	0	60,000	60,000	No

Infrastructure Capital Improvement Plan FY 2023-2027

Number of projects:	13							
	Funded to date:	Year 1:	Year 2:	Year 3:	Year 4:	Year 5:	Total Project Cost:	Total Not Yet Funded:
Grand Totals	4,580,266	5,787,107	25,119,800	160,000	160,000	160,000	35,967,172	31,386,904