



**COMMUNITY IMPACT FEE ADVISORY COMMITTEE  
REGULAR SESSION MINUTES  
FEBRUARY 8, 2023**

**PRESENT:**

**COMMISSIONERS:**

Cresandra Hardeman, Chairperson, Place 3  
Julie Leonard, Chair, Place 1 (Absent)  
Anthony Butler, Place 2 (Absent)  
Felix Paiz, Place 4  
Vacant, Place 5  
Cecil Meyer, Place 6  
LaKesha Small, Place 7 (Absent)  
Barth Timmermann, Developer Representative

**CITY STAFF:**

Pauline Gray, City Engineer  
Scott Dunlop, Development Services Director  
Matthew Woodard, Public Works Director  
Mandy Miller, Permit Technician

**REGULAR SESSION: 7:30 P.M.**

**CALL TO ORDER AND ANNOUNCE A QUORUM IS PRESENT**

With a quorum of the Community Impact Fee (CIF) Advisory Committee present, the Regular Session of the Manor CIF Advisory Committee was called to order by Chair Hardeman at 8:24 p.m. on Wednesday February 8, 2023, in the Council Chambers of the Manor City Hall, 105 E. Eggleston St., Manor, Texas.

**PUBLIC COMMENTS**

Robert Battaile, 502 E. Eggleston St., Manor, Texas, submitted a speaker card to speak during public comment. Mr. Battaile stated he felt people who visited Manor were wanting to visit a small town. He expressed his concerns with the momentum of growth in Manor. He stated he would like the committee to keep this in mind when discussing roads and how they need to interact and connect.

Joshua Hays, 301 E. Wheeler St., Manor, Texas, submitted a speaker card to speak during public comment regarding general concerns. Mr. Hays expressed his concerns regarding Manor's access to finite resources. He stated the limited resources and the number of people moving into Manor would create a drain on the water, wastewater, and electrical facilities. He stated this factor should be a focus point when considering allowing new development. He also expressed his desire to see more commercial development come to Manor such as bowling centers, movie theaters, and other recreational things.

## **CONSENT AGENDA**

### **1. Consideration, discussion, and possible action to approve the minutes of January 11, 2023, Community Impact Fee Advisory Regular Meeting.**

**MOTION:** Upon a motion made by Developer Representative Timmerman and seconded by Commissioner Paiz to approve the consent agenda.

There was no further discussion.

**Motion to Approve carried 4-0**

## **REGULAR AGENDA**

### **2. Consideration, discussion, and possible action on a population growth factor.**

Robert Battaile, 502 E. Eggleston St., Manor, Texas, submitted a speaker card to speak on the population growth factor. He expressed his disagreement with the layout of the map presented online. He stated he felt the growth factor voted on at 7% was not a true depiction of the actual growth in Manor.

Engineer Gray announced the City Council will have a Workshop soon with Raftelis. Raftelis is the Rate Consultant working with City Council. They will be evaluating the growth rate. She stated this item was placed on the agenda to inform the committee that the growth rate they voted on may change.

**MOTION:** Upon a motion made by Commissioner Paiz and second by Development Representative Timmerman to close discussion of Item #2 - population growth factor.

There was no further discussion.

**Motion to Close Discussion carried 4-0**

**No Action was Taken.**

### **3. Consideration, discussion, and possible action on Capital Improvement Project needs.**

Director Dunlop informed the audience that this item would be mainly focused around the committee viewing and discussing a map presented by the City Engineer.

Engineer Gray stated she had 2 maps to present to the committee. One map shows water and wastewater as it currently exists, the other shows new proposed items to be added to the water side and the wastewater side.

Robert Battaile, 502 E. Eggleston St., Manor, Texas, submitted a speaker card to speak on the topic of Capital Improvement Project needs. Mr. Battaile requested clarification on the topic of discussion.

Engineer Gray clarified for the audience that discussion on this item was for water and wastewater impact fees only.

Mr. Battaile withdrew his request to speak on this item.

Engineer Gray presented the water map for review. She explained the newer items on the map. She answered questions from the committee regarding the lift station on Gregg Lane and the tie-in lines that was detailed out on the map.

Engineer Gray fielded questions from the committee regarding the impact of upcoming schools and commercial development in the area.

Director Woodard answered questions from the committee regarding recent water pressure issues. He stated that Manville had some outages with pumps that supply water to three of our subdivisions. EPCOR also had power issues. He assured the committee that the city was able to sustain with the water in our wells.

Discussion was held by the committee regarding the following items:

- Water supplied by Manville
- Population growth setting LUEs
- Impact of increased population
- Cost of ground water storage and pump stations
- Cost of alternative sources outside of our capacity
- Cost of creating Water Treatment Facilities

Engineer Gray Presented the wastewater map for review. She explained the newly added items on the map such as the Cottonwood Plant and some upgrades to lift stations. She stated the main item was the new Regional Wastewater Treatment.

Discussion was held regarding the current and proposed Wastewater Plants. The discussion topics focused on Phase 1 of the Regional Wastewater Plant, expansion of the Cottonwood Plant, and temporary package plant.

Consideration was given to the benefits of creating a Regional Plant which included shared cost with nearby municipalities and the potential additional funding from Texas Water Development Board and other entities.

Engineer Gray answered questions regarding the following:

- Wastewater treatment plant capacity
- Wastewater usage per household
- Estimated cost of wastewater
- Cost of upgrades
- Current studies of evaluation of current facilities
- Phases of transition for the current and proposed plants

Engineer Gray recapped the Land Use Map and the relationship with setting LUEs. She explained how the zoning on the Land Use Map helps us foresee the potential usage of water and wastewater for the development.

**MOTION:** Upon a motion made by Chair Hardeman and second by Commissioner Paiz to approve item #3: Capital Improvement Project needs

There was no further discussion.

**Motion to Approve carried 4-0**

**4. Consideration, discussion, and possible action on a Roadway Impact Fee district map.**

Robert Battaile, 502 E. Eggleston St., Manor, Texas, submitted a speaker card to speak on the Roadway Impact Fee District Map. Mr. Battaile stated he was confused because the map circulating in the Comprehensive Plan does not match the map presented for this item. He expressed his dislike of the layout of the maps. He stated that he had questions and concerns surrounding the representation of major artery and connection roads on the map.

Engineer Gray presented the Roadway Impact Fee District Map. She explained the layout of the two districts indicated in different colors on the map. She stated it sets the service areas for the roadway impact fees that will be charged to developers.

Engineer Gray reminded the committee of the purpose of Roadway Impact Fees and the projects the fees collected could fund. She reiterated fees collected could not be used to repair already existing streets.

Engineer Gray described the next steps for this item. She stated a list of projects for each service area and their costs would be presented at the next meeting.

Discussion was held. Concerns were expressed regarding setting the districts before knowing what the impact fees would be for each district. It was suggested to wait until the fees were decided in the event the boundaries need to be adjusted.

**MOTION:** Upon a motion made by Commissioner Paiz and second by Development Representative Timmerman to close discussion on the Roadway Impact Fee Distract Map.

There was no further discussion.

**Motion to Close Discussion carried 4-0**

**No Action was Taken.**

**ADJOURNMENT**

The Regular Session of the Community Impact Fee Advisory Committee Adjourned at 9:17 p.m. on Wednesday, February 8, 2023.

These minutes approved by the Community Impact Fee Advisory Committee on the 8<sup>th</sup> day of March 2023. *(Audio recording archived)*

**APPROVED:**

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Cresandra Hardeman  
Chairperson

**ATTEST:**

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Scott Dunlop  
Development Services Director

Here's a couple of notes:

1) Why are all the Old Manor neighborhood streets in purple AND called "URBAN" streets? They are miniscule, have no sidewalks and are cracked and horrible... but all the other streets in town (including the WIDE spacious boulevards in ShadowGlen) shown in grey?

It's because in these warped designer's minds, they want this purple "urban" area to be like Westwood in Los Angeles. 6-story high rise townhomes/apartments.

2) Since when is Parson's a "Major Arterial" and shown in red? It's a two-lane road. We just upgraded it. "Major Arterial" should be 4-lane. We don't want a 4-lane major arterial going through our quaint Old Manor Parsons Street shops. The main arterials should bypass this historic district and NEIGHBORHOOD of houses - almost all are single family. We don't want any "HIGH-DENSITY" anything down here. Lexington needs to stay TWO-LANE also! Until it gets well south of town.

3) The "DOWNTOWN" needs to go in the center of "Greater Manor." (AKA the ETJ)

4) When will these cross-roads be completed? Is there a plan to do so? Or are we just going to wait and hope developers will put them in for us? In another 15 years? We need a bond issue don't we? We just borrowed \$10 million for pumping future poop - can't we borrow some for building roads for us now?

5) The new Greg Manor needs to continue south to connect at the Wildhorse Corridor (4 lanes)

6) Wildhorse Corridor needs to continue east to connect with Littig staying well south of town. Why isn't Blake Manor shown?

7) What's with the blue circles? "Grade separated intersections?" More pompous nothing.

8) Wilbarger Creek Trail... yeah, right. In the center of the creek? We've had the 200-acre Woodlands Park since 2003 and the ShadowGlen developers have only managed a one-mile Nature Trail. Per their Master Plan Agreement, they should have had at least 3 miles of trail by now WITH SOME PARKING lots. Note: Despite what the Comp Bogus Plan says, you can park on the public streets ANYWHERE you want to. "They" (our City Council and the Planners) want us to park at SG ELEM SCHOOL a half mile away. No thanks.

9) Lexington curves around and gets to 290. That seems confusing to future folks looking for Lexington.

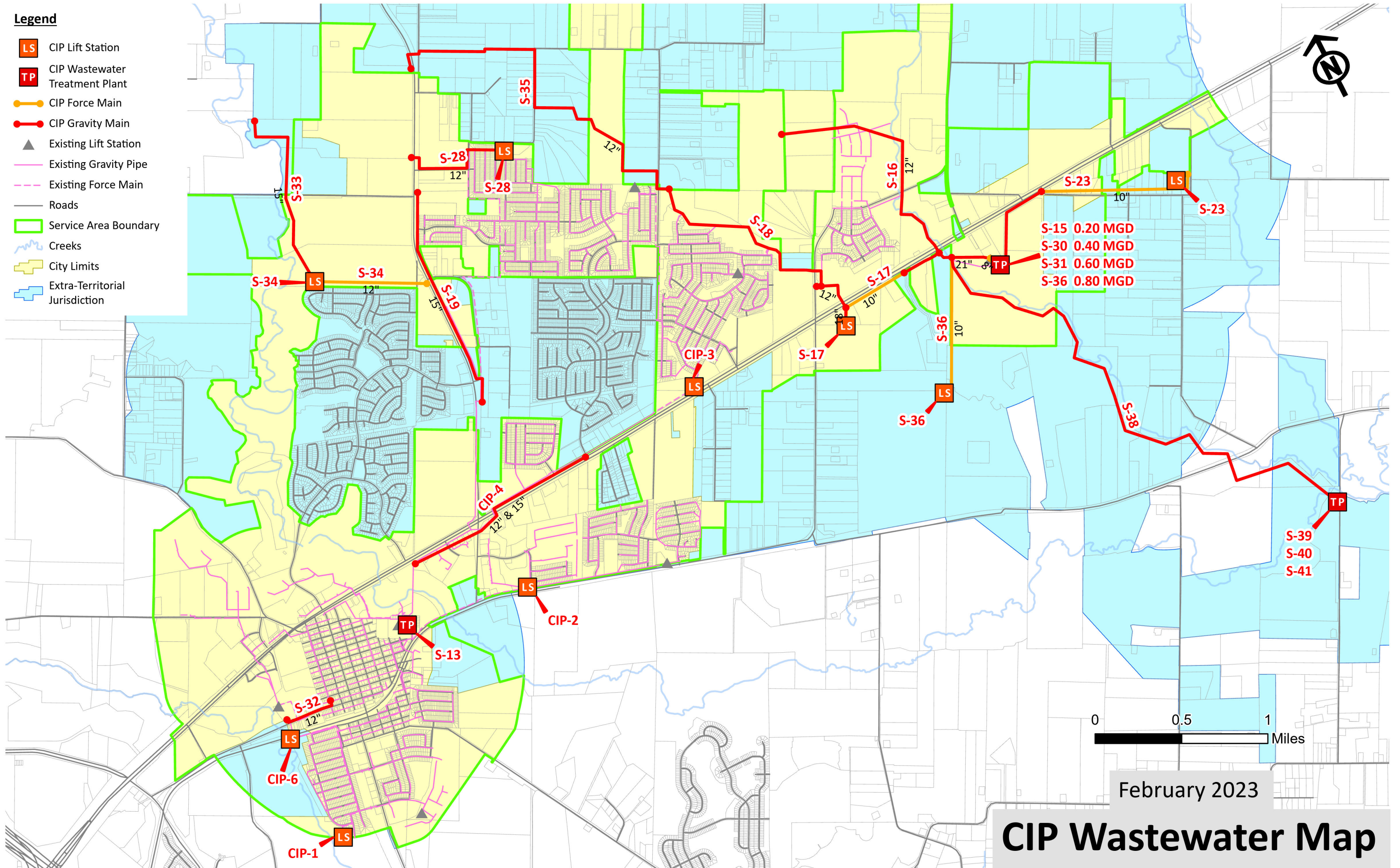
10) There are a few candidate parcels for our NEW DOWNTOWN. I like the parcel north of ShadowGlen where 973 takes a slight bend. We should buy the front 30 acres of this 100-acre parcel. The new downtown should be at the confluence of several of these roads. Remember, we want a Recreation Center, a Community Pool, a Library, an Art Museum, a Performing Arts Center, a Visitors Center, a Town Square/Plaza, a Park w tennis courts, basketball, etc. Parsons Street will never have enough room.

11) PARKS! We need 8-10 parks spread throughout. Note: Developers will never voluntarily give us another square foot of parkland. Our P&Z Commission and City Council will have to "grab" that parkland for us. In our City Codes, we "reserve that right" and they MUST have the oeuvo to enforce it.

Remember, there will be 100,000 people living here within probably ten years. The requisite housing developments are ALREADY ON THE BOOKS and going thru approval processes RIGHT NOW.

**Legend**

- LS** CIP Lift Station
- TP** CIP Wastewater Treatment Plant
- CIP Force Main
- CIP Gravity Main
- Existing Lift Station
- Existing Gravity Pipe
- Existing Force Main
- Roads
- Service Area Boundary
- Creeks
- City Limits
- Extra-Territorial Jurisdiction



# CIP Wastewater Map

EXHIBIT A-4  
CITY OF MANOR WASTEWATER IMPROVEMENTS  
10-YEAR CAPITAL IMPROVEMENTS PLAN  
FEBRUARY 2023

The following projects have been identified as required to serve new growth within the service area, in accordance with approved land use assumptions and as part of the 10-year Capital Improvements Plan

| Project No. | Year | Description   | Construction Cost (2022 Dollars) | Interest | Period (months) | Payment       | Total Payment     | Size                  | Length        | Construction Cost (adjusted for inflation @ 5% per annum) | Soft Costs      | Contingency (10% + 1% per annum) | Financing Cost (5.1% over 20 Years) | Total Project Costs | Detailed Description   |
|-------------|------|---|----------------------------------|----------|-----------------|---------------|-------------------|-----------------------|---------------|---|-----------------|----------------------------------|-------------------------------------|---------------------|--|
| S-13        | 2020 | Addl. Wilbarger WWTP Capacity   | \$ 16,825,000.00                 | 0.00425  | 240             | \$ 145,667.98 | \$ 34,960,314.38  | 1.33 MGD              |               | \$ 19,348,750.00  | \$ 2,140,000.00 | \$ 400,000.00                    | \$ 13,071,564.38                    | \$ 34,960,000.00    | New Treatment Plant Capacity to Serve Addl Growth  |
| S-15        | 2022 | Cottonwood WWTP, Phase 1, 0.20 MGD  | \$5,227,569.50                   | 0.00425  | 240             | \$ 52,593.61  | \$ 12,622,467.33  | 0.20 MGD              |               | \$ 6,534,461.88   | \$ 398,000.00   | \$ 970,500.00                    | \$ 4,719,505.45                     | \$ 12,622,000.00    | Build plant at Regional Site, road and electrical improvements add \$500,000   |
| S-16        | 2024 | East Cottonwood Gravity Line  | \$ 1,500,000.00                  | 0.00425  | 240             | \$ 14,274.81  | \$ 3,425,955.08   | 12"                   | 3,200         | \$ 2,025,000.00   | \$ 51,000.00    | \$ 69,000.00                     | \$ 1,280,955.08                     | \$ 3,426,000.00     | Extend East Cottonwood gravity ww to Regional Site, sized for 10-year capacity   |
| S-17        | 2024 | West Cottonwood LS and FM   | \$ 949,000.00                    | 0.00425  | 240             | \$ 9,377.79   | \$ 2,250,668.81   | 6" FM and 350 gpm LS  | 3,700         | \$ 1,281,150.00   | \$ 79,000.00    | \$ 49,000.00                     | \$ 841,518.81                       | \$ 2,251,000.00     | Extend 27" and 30" gravity ww from confluence with East Cottonwood to US 290, ultimate capacity  |
| S-18        | 2024 | West Cottonwood Gravity Line, Phase 2   | \$ 984,000.00                    | 0.00425  | 240             | \$ 9,572.44   | \$ 2,297,386.38   | 15"                   | 8,200         | \$ 1,328,400.00   | \$ 64,000.00    | \$ 46,000.00                     | \$ 858,986.38                       | \$ 2,297,000.00     | Serves West Cottonwood Sub-Basin up to Bois D'Arc Ln, 21" and 24" gravity ww sized for ultimate capacity   |
| S-19        | 2022 | FM 973 Gravity Wastewater Line  | \$ 684,400.00                    | 0.00425  | 240             | \$ 6,139.30   | \$ 1,473,432.00   | 15"                   | 5,800         | \$ 855,500.00   | \$ 128,300.00   | \$ 106,100.00                    | \$ 383,532.00                       | \$ 1,473,000.00     | Serves FM 973 Corridor up to Wilbarger Basin divide (approx. Gregg Ln)   |
| S-23        | 2024 | Willow Lift Station and Force Main  | \$ 1,000,000.00                  | 0.00425  | 240             | \$ 11,984.85  | \$ 2,876,364.81   | 200 gpm               |               | \$ 1,350,000.00   | \$ 202,500.00   | \$ 248,400.00                    | \$ 1,075,464.81                     | \$ 2,876,000.00     | Lift Station and Force Main to serve 220 LUEs in Willow Basin along US 290. 10-Yr ADF approx. 60,000 gpd, PWWF approx 200 gpm  |
| S-28        | 2018 | High School gravity line to Stonewater Lift Station; Stonewater Lift Station Upgrades | \$ 26,271.96                     | 0.00425  | 240             | \$ 210.84     | \$ 50,601.98      | 12"                   | 3,100         | \$ 27,585.56  | \$ 4,096.48     | \$ -                             | \$ 18,919.94                        | \$ 51,000.00        | Gravity main to serve new high school; upgrades to existing Stonewater Lift Station.   |
| S-30        | 2024 | Expand Cottonwood WWTP to 0.40 MGD Capacity   | \$ 3,500,000.00                  | 0.00425  | 240             | \$ 41,947.32  | \$ 10,067,356.68  | 0.40 MGD              |               | \$ 4,725,000.00   | \$ 708,800.00   | \$ 869,400.00                    | \$ 3,764,156.68                     | \$ 10,067,000.00    | New Treatment Plant Capacity to Serve Addl Growth  |
| S-31        | 2025 | Expand Cottonwood WWTP to 0.60 MGD Capacity   | \$ 3,500,000.00                  | 0.00425  | 240             | \$ 43,875.92  | \$ 10,530,219.99  | 0.50 MGD              |               | \$ 4,900,000.00   | \$ 735,000.00   | \$ 958,000.00                    | \$ 3,937,219.99                     | \$ 10,530,000.00    | New Treatment Plant Capacity to Serve Addl Growth  |
| S-32        | 2021 | Bastrop-Parsons WW Improvements   | \$ 423,292.00                    | 0.00425  | 240             | \$ 4,392.59   | \$ 1,054,220.52   | 12"                   |               | \$ 507,950.40   | \$ 76,200.00    | \$ 75,900.00                     | \$ 394,170.12                       | \$ 1,054,000.00     | Replacement of existing wastewater line in Bastrop and Parsons; to correct current capacity issues and serve additional growth   |
| S-33        | 2023 | Wilbarger Basin Gravity Line to Lift Station (off Gregg Lane)                         | \$ 1,000,000.00                  | 0.00425  | 240             | \$ 11,441.81  | \$ 2,746,034.77   | 15"                   | 6,200         | \$ 1,300,000.00   | \$ 195,000.00   | \$ 224,300.00                    | \$ 1,026,734.77                     | \$ 2,746,000.00     | New wastewater line to serve growth along Gregg Lane.  |
| S-34        | 2023 | Wilbarger Basin lift station and force main (off Gregg Lane)                          | \$ 1,300,000.00                  | 0.00425  | 240             | \$ 14,873.76  | \$ 3,569,701.45   | 12" FM and 225 gpm LS | 3,500         | \$ 1,690,000.00   | \$ 253,500.00   | \$ 291,500.00                    | \$ 1,334,701.45                     | \$ 3,570,000.00     | New lift station and force main to servie growth along Gregg Lane.   |
| S-35        | 2023 | Gravity line from City Limits to tie in to Wastewater line to Cottonwood              | \$ 1,100,000.00                  | 0.00425  | 240             | \$ 12,585.79  | \$ 3,020,590.33   | 12"                   | 8,130         | \$ 1,430,000.00   | \$ 214,500.00   | \$ 246,700.00                    | \$ 1,129,390.33                     | \$ 3,021,000.00     | Option 1 -New gravity wastewater line to extend wastewater service to City Limits for future growth.   |
| S-36        | 2024 | Lift Station and Force main to Cottonwood WWTP  | \$ 2,000,000.00                  | 0.00425  | 240             | \$ 23,969.71  | \$ 5,752,729.61   | 10" FM 1,575 LUEs     |               | \$ 2,700,000.00   | \$ 405,000.00   | \$ 496,800.00                    | \$ 2,150,929.61                     | \$ 5,753,000.00     | New lift station and force main to serve areas south of US Hwy 290 along Old Kimbro Road.  |
| S-37        | 2025 | Expand Cottonwood WWTP to 0.80 MGD Capacity   | \$ 3,500,000.00                  | 0.00425  | 240             | \$ 43,875.92  | \$ 10,530,219.99  | 0.20 MGD              |               | \$ 4,900,000.00   | \$ 735,000.00   | \$ 958,000.00                    | \$ 3,937,219.99                     | \$ 10,530,000.00    | New Treatment Plant Capacity to Serve Addl Growth  |
| S-38        | 2025 | Travis County Regional WWTP - with Elgin - Phase 1 - 1.1 MGD and 39" trunk main       | \$39,000,000.00                  | 0.00425  | 240             | \$ 428,229.08 | \$ 102,774,979.01 | 0.20 MGD              |               | \$ 54,600,000.00  | \$ 398,000.00   | \$ 9,349,700.00                  | \$ 38,427,279.01                    | \$ 102,775,000.00   | Build plant at Regional Site, road and electrical improvements add \$500,000   |
| CIP-1       | 2021 | Wildhorse Creek Lift Station Expansion  | \$ 867,081.50                    | 0.00425  | 240             | \$ 8,595.49   | \$ 2,062,916.57   | 1,075 gpm, 2nd WW     |               | \$ 1,040,497.80   | \$ 156,100.00   | \$ 95,000.00                     | \$ 75,900.00                        | \$ 1,367,000.00     | Change in discharge point increased Phase 1 capacity from 440 to 1026 LUEs, currently at about 706 LUEs. Will need to expand LS when Lagos develops to ultimate 1586 LUE capacity. |
| CIP-2       | 2023 | Bell Farms Lift Station Expansion   | \$ 866,000.00                    | 0.00425  | 240             | \$ 2,984.94   | \$ 716,385.60     | 1,400 gpm, 2nd WW     |               | \$ 1,125,800.00   | \$ 45,000.00    | \$ 30,000.00                     | \$ (484,414.40)                     | \$ 716,000.00       | Presently at approximately 730 LUEs. Current phase 1 capacity is 1264 LUEs. Ultimate Capacity at phase 2 is 2172.  |
| CIP-3       | 2023 | Presidential Glen Lift Station Expansion  | \$ 866,000.00                    | 0.00425  | 240             | \$ 2,984.94   | \$ 716,385.60     | 2,275 gpm, 2nd WW     |               | \$ 1,125,800.00   | \$ 45,000.00    | \$ 30,000.00                     | \$ (484,414.40)                     | \$ 716,000.00       | Presently at approximately 1281 LUEs. Actual phase 1 capacity with current wastewater flows is in excess of 1500 LUEs. Ultimate Capacity at phase 2 is 3517.                       |
| CIP-4       | 2024 | US 290 WW Line Expansion  | \$ 603,378.00                    | 0.00425  | 240             | \$ 7,231.64   | \$ 1,735,594.12   | 12" & 15"             | 1,566 & 2,760 | \$ 814,560.30   | \$ 122,200.00   | \$ 149,900.00                    | \$ 648,933.82                       | \$ 1,736,000.00     | Presently at approximately 264 PG+308 SW = 572 LUEs out of 1800 LUE capacity, expansion will double capacity.  |
| CIP-6       | 2020 | Travis County Rural Center Lift Station, force main                                   | \$ 1,176,592.00                  | 0.00425  | 240             | \$ 10,515.32  | \$ 2,523,676.39   | 500 gpm               | 500           | \$ 1,353,080.80   | \$ 127,000.00   | \$ 100,000.00                    | \$ 943,595.59                       | \$ 2,524,000.00     | Lift Station and Force Main from Rural Center to existing wastewater line  |

















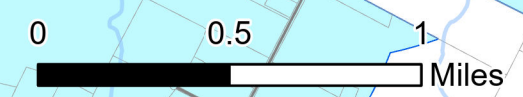
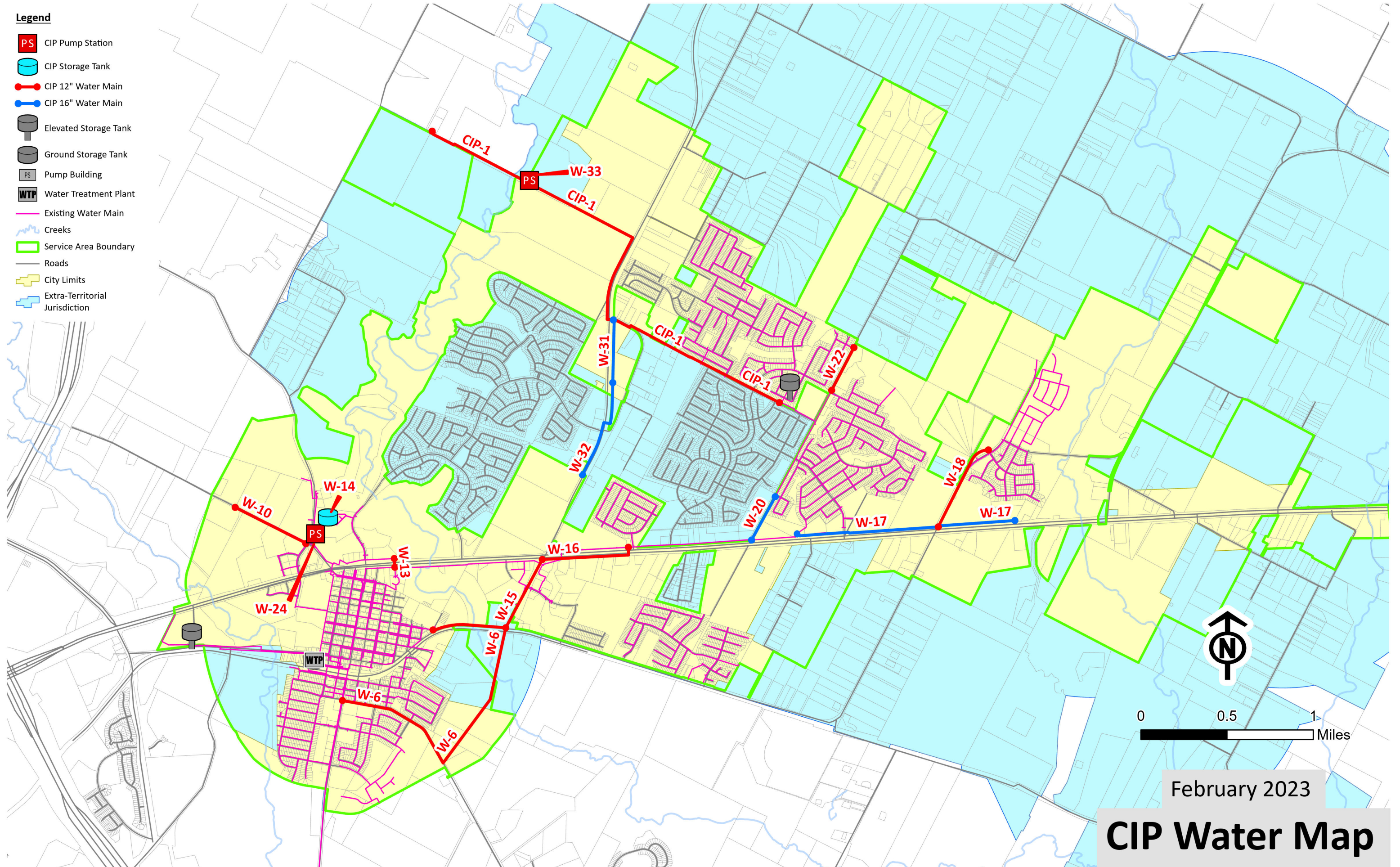
Wastewater LUEs are defined as producing 275 gallons of wastewater per day per single family residence as determined in the the City of Manor Wastewater Master Plan.

**Total: \$ 217,061,000.00**



**Legend**

-  CIP Pump Station
-  CIP Storage Tank
-  CIP 12" Water Main
-  CIP 16" Water Main
-  Elevated Storage Tank
-  Ground Storage Tank
-  Pump Building
-  Water Treatment Plant
-  Existing Water Main
-  Creeks
-  Service Area Boundary
-  Roads
-  City Limits
-  Extra-Territorial Jurisdiction



February 2023

# CIP Water Map

EXHIBIT A-2  
CITY OF MANOR WATER IMPROVEMENTS  
10-YEAR CAPITAL IMPROVEMENTS PLAN  
FEBRUARY 2023

The following projects have been identified as required to serve new growth within the service area, in accordance with approved land use assumptions and as part of the 10-year Capital Improvements Plan

| Project No.  | Year | Description   | Size    | Unit   | Length (ft) | Construction Cost<br>(2022 Dollars) | Annual Interest | Period (yr) | Construction Cost<br>(adjusted for<br>inflation @ 5% per<br>annum) | Soft Costs    | Contingency (10%<br>+ 1% per annum) | Financing Cost (5%<br>over 20 Years) | Total Project Costs | Detailed Description  |
|--------------|------|---|---------|--------|-------------|-------------------------------------|-----------------|-------------|--|---------------|-------------------------------------|--------------------------------------|---------------------|---|
| W-6          | 2026 | Blake Manor Road Water Line                                   | 12      | inch   | 3,200       | \$ 400,000.00                       | 0.050           | 20          | \$ 580,000.00  | \$ 87,000.00  | \$ 120,100.00                       | \$ 476,078.81                        | \$ 1,263,000.00     | Transmission main from downtown along Blake Manor Road to future FM 973. Includes replacing 400 LF of 6" pipe in Downtown Plant |
| W-10         | 2022 | Hill Lane Water Line  | 12      | inch   | 3,450       | \$ 289,800.00                       | 0.050           | 20          | \$ 362,250.00  | \$ 54,300.00  | \$ 58,300.00                        | \$ 287,213.85                        | \$ 762,000.00       | Water Distribution main along Hill Lane to serve new growth   |
| W-13         | 2023 | US 290 Crossing at Golf Course                                | 12      | inch   | 250         | \$ 200,000.00                       | 0.050           | 20          | \$ 260,000.00  | \$ 39,000.00  | \$ 44,900.00                        | \$ 208,008.51                        | \$ 552,000.00       | Connect 12" water lines on north and south sides of US 290  |
| W-14         | 2023 | Gregg Manor Road Water Supply - Ground Storage Tank and Pumps | 250,000 | gallon |             | \$ 2,500,000.00                     | 0.050           | 20          | \$ 3,250,000.00  | \$ 487,500.00 | \$ 560,600.00                       | \$ 2,599,713.28                      | \$ 6,898,000.00     | 250,000 gal Ground Storage Tank and 1,400 gpm expandable pump station for wholesale water supply connection                     |
| W-15         | 2022 | FM 973 Water Line   | 12      | inch   | 4000        | \$ 336,000.00                       | 0.050           | 20          | \$ 420,000.00  | \$ 63,000.00  | \$ 67,600.00                        | \$ 333,031.37                        | \$ 884,000.00       | Transmission main from US 290 to serve new growth on the east and west sides of FM 973  |
| W-16         | 2023 | US 290 Water Line   | 12      | inch   | 2900        | \$ 500,000.00                       | 0.050           | 20          | \$ 650,000.00  | \$ 97,500.00  | \$ 112,100.00                       | \$ 519,930.56                        | \$ 1,380,000.00     | Parallel 12" waterline to increase US 290 capacity  |
| W-17         | 2021 | US 290 Water Line   | 16      | inch   | 4400        | \$ 677,626.12                       | 0.050           | 20          | \$ 813,151.34  | \$ 122,000.00 | \$ 121,600.00                       | \$ 639,177.89                        | \$ 1,696,000.00     | Extend transmission main from Presidential Glen to Old Kimbro Road  |
| W-18         | 2021 | Old Kimbro Road Water Line                                    | 12      | inch   | 3000        | \$ 474,000.00                       | 0.050           | 20          | \$ 568,800.00  | \$ 85,300.00  | \$ 85,000.00                        | \$ 447,045.92                        | \$ 1,186,000.00     | Transmission main to serve new growth north of US 290   |
| W-20         | 2024 | Bois D'Arc Lane Water Line                                    | 16      | inch   | 2700        | \$ 500,000.00                       | 0.050           | 20          | \$ 675,000.00  | \$ 101,300.00 | \$ 124,200.00                       | \$ 544,669.00                        | \$ 1,445,000.00     | Transmission main to improve delivery of water from East EST  |
| W-22         | 2024 | Bois D'Arc Lane Water Line                                    | 12      | inch   | 2500        | \$ 400,000.00                       | 0.050           | 20          | \$ 540,000.00  | \$ 81,000.00  | \$ 99,400.00                        | \$ 435,735.20                        | \$ 1,156,000.00     | Transmission main to serve new growth north of Tower Rd   |
| W-24         | 2025 | Gregg Manor Road Pump Improvements                            | 1200    | gpm    |             | \$ 400,000.00                       | 0.050           | 20          | \$ 560,000.00  | \$ 84,000.00  | \$ 109,500.00                       | \$ 455,755.79                        | \$ 1,209,000.00     | Increase Pump Capacity (and contracted supply) at wholesale water connection  |
| W-31         | 2022 | FM 973 Water Line   | 16      | inch   | 5200        | \$ 582,400.00                       | 0.050           | 20          | \$ 728,000.00  | \$ 109,200.00 | \$ 117,200.00                       | \$ 577,270.50                        | \$ 1,532,000.00     | Transmission main along FM 973 from Tower Road to boundary of school site..   |
| W-32         | 2023 | FM 973 Water Line   | 16      | inch   | 3200        | \$ 358,400.00                       | 0.050           | 20          | \$ 465,920.00  | \$ 69,900.00  | \$ 80,400.00                        | \$ 372,721.74                        | \$ 989,000.00       | Transmission main along FM 973 to connect waterlines along FM 973.  |
| W-33         | 2024 | Gregg Lane Water Supply - Ground Storage Tank and Pumps       | 250,000 | gallon |             | \$ 2,500,000.00                     | 0.050           | 20          | \$ 3,375,000.00  | \$ 506,300.00 | \$ 621,000.00                       | \$ 2,723,224.01                      | \$ 7,226,000.00     | 250,000 gal Ground Storage Tank and 1,400 gpm expandable pump for future growth.  |
| Water CIP-1  | 2021 | Gregg Lane to Tower Road Waterline                            | 12      | inch   | 3400        | \$ 1,595,346.40                     | 0.050           | 20          | \$ 1,914,415.68  | \$ 287,200.00 | \$ 286,200.00                       | \$ 1,504,759.65                      | \$ 3,993,000.00     | Transmission main from Manville WSC Booster Station to East Elevated Storage Tank   |
| Water CIP-2  | 2017 | AMR Water Meters  |         |        |             | \$ 300,000.00                       | 0.05            | 20          | \$ 300,000.00  | \$ 45,000.00  | \$ 31,100.00                        | \$ 227,484.74                        | \$ 604,000.00       | 1350 Meter bodies and AMR registers, 810 replacement meter box lids, software, two vehicle transmitter units, two laptops.      |
| Water CIP-3  | 2018 | AMR Water Meters  |         |        |             | \$ 400,000.00                       | 0.05            | 20          | \$ 420,000.00  | \$ 63,000.00  | \$ 48,300.00                        | \$ 321,357.73                        | \$ 853,000.00       | 1350 Meter bodies and AMR registers, 810 replacement meter box lids, software, two vehicle transmitter units, two laptops.      |
| <b>Total</b> |      |   |         |        |             |                                     |                 |             |  |               |                                     | <b>\$ 33,628,000.00</b>              |                     |   |

Notes:  
Water LUEs are defined as requiring 450 gallons of water per day per single family residence as determined in the the City of Manor Water Master Plan.

