GBA

DRAFT ENGINEERING REPORT CITY OF MANOR 2022 COMMUNITY IMPACT FEE UPDATE

MANOR, TEXAS GBA NO. 15312.00 APRIL 2023



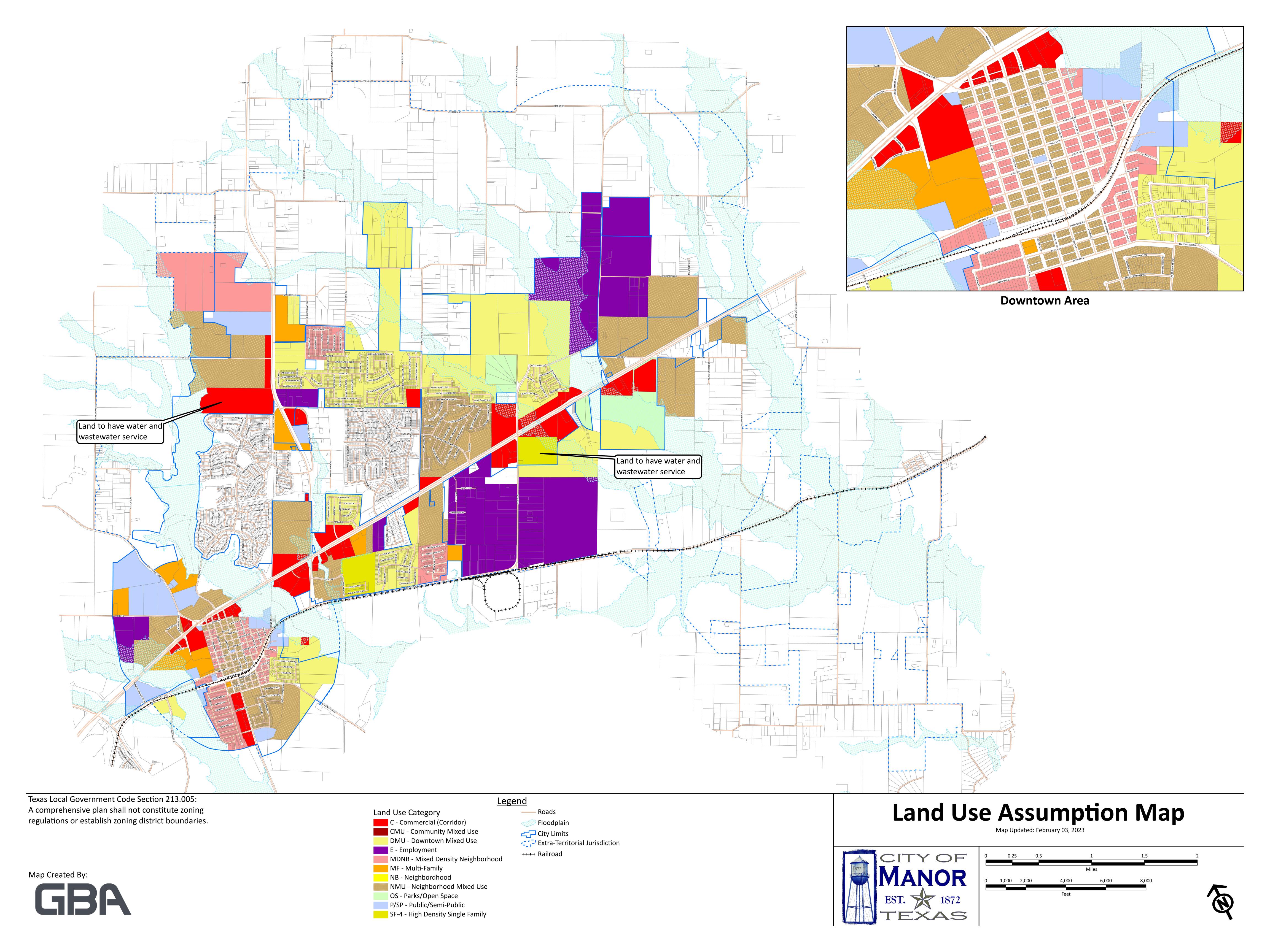
CITY OF MANOR

2021 COMMUNITY IMPACT FEE UPDATE

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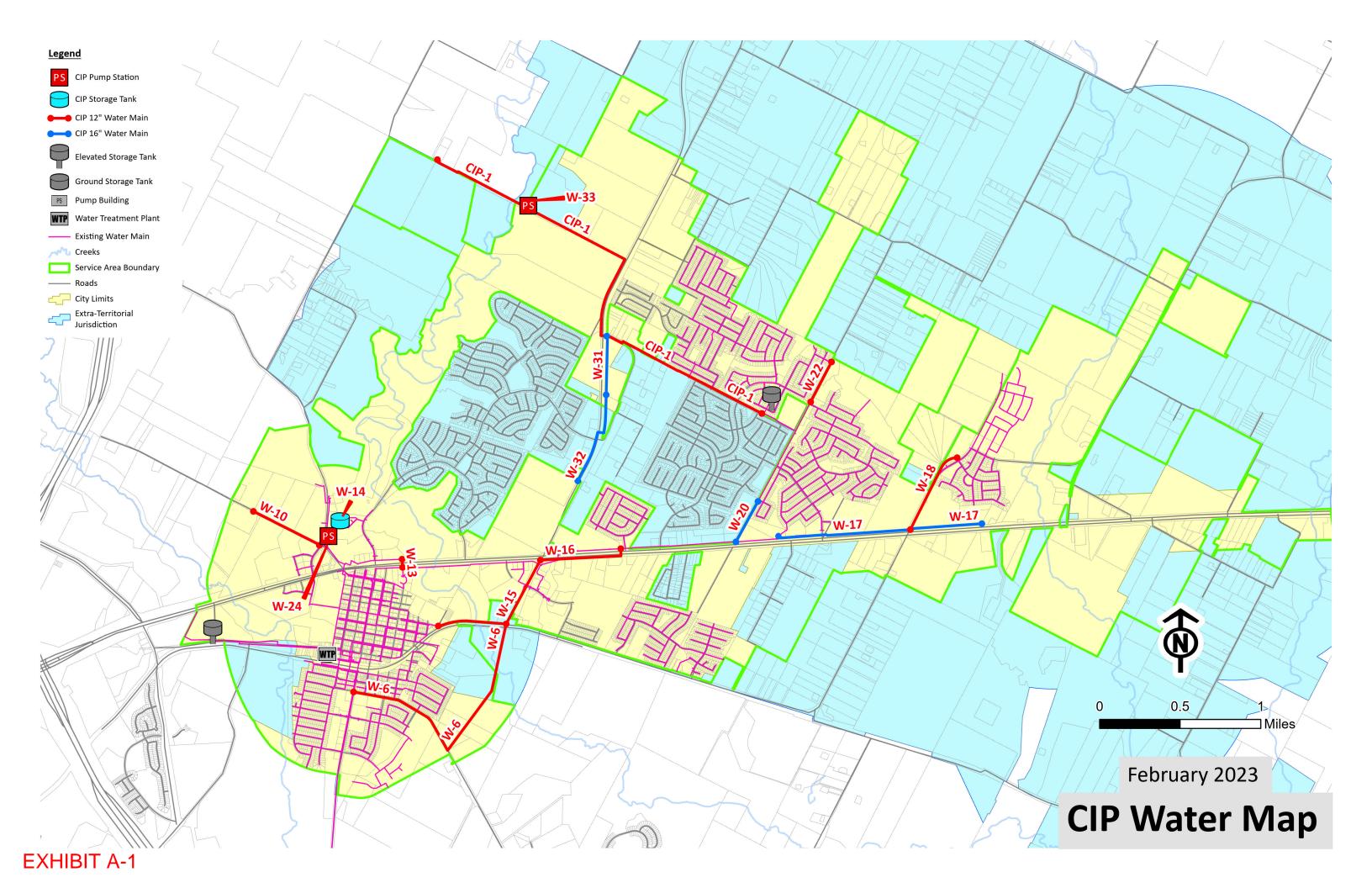


EXHIBIT A-2 CITY OF MANOR WATER IMPROVEMENTS 10-YEAR CAPITAL IMPROVEMENTS PLAN FEBRUARY 2023

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

approved land use assi	umptions and as p	art of the 10-year Capital Improvement	s Plan							Cons	struction Cost					
										(a	djusted for					
Project No.	Year	Description	Size	Unit	Length (ft)	Construction (2023 Do		Annual Interest	Period (yr)	Inflat	tion @ 5% per annum)	Soft Costs	+ 1% per annum)	Financing Cost (5% over 20 Years)	Total Project Costs	Detailed Description
		Blake Manor Road Water														Transmission main from downtown along Blake Manor Road to future FM 973. Includes replacing 400 LF
W-6	2026	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	O of 6" pipe in Downtown Plant Water Distribution main along Hill
W-10	2022	Hill Lane Water Line	12	inch	3,450	\$ 462	,893.00	0.050	20	\$	578,616.25 \$	86,800.00	\$ 93,200.00	\$ 458,850.36	\$ 1,217,000.00) Lane to serve new growth
W-13	2025	US 290 Crossing at Golf Course	12	inch	250	\$ 200	,000.00	0.050	20	\$	280,000.00 \$	42,000.00	\$ 54,700.00	\$ 227,847.65	\$ 605,000.00	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	
																Transmission main from US 290 to serve new growth on the east and
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) west sides of FM 973 Parallel 12" waterline to increase
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	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	
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	2025	Bois D'Arc Lane Water Line	16	inch	2700	\$ 500	,000.00	0.050	20	\$	700,000.00 \$	105,000.00	\$ 136,900.00	\$ 569,709.86	\$ 1,512,000.00	Transmission main to improve delivery of water from East EST
W-22	2025	Bois D'Arc Lane Water Line	12	inch	2500	\$ 400	,000.00	0.050	20	\$	560,000.00 \$	84,000.00	\$ 109,500.00	\$ 455,755.79	\$ 1,209,000.00	Transmission main to serve new growth north of Tower Rd
W-24	2025	Gregg Manor Road Pump Improvements	1200	gpm		\$ 400	0,000.00	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
VV-02	2020	Gregg Lane Water Supply - Ground Storage Tank and	10	mon	5250	ψ 555	,400.00	0.000	20	Ψ	400,020.00 ψ	03,300.00	00,400.00	Ψ 372,721.74	Ψ 300,000.00	250,000 gal Ground Storage Tank and 1,400 gpm expandable pump
W-33	2025	Pumps	250,000	gallon		\$ 2,500	,000.00	0.050	20	\$	3,500,000.00 \$	525,000.00	\$ 684,300.00	\$ 2,848,428.32	\$ 7,558,000.00) for future growth.
Water CIP-1	2021	Gregg Lane to Tower Road Waterline	12	inch	3400	\$ 1,595	5,346.40	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	0,000.00	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	0,000.00	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.
Water Oil -0	2010	ANTIN WALCH INICICIS				y 400	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.00	20	φ	42U,UUU.UU \$	03,000.00	φ 40,300.00	ψ 321,331.13	ψ 000,000.00	, danomittei unito, two iaptops.

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.



Total

\$

34,588,000.00

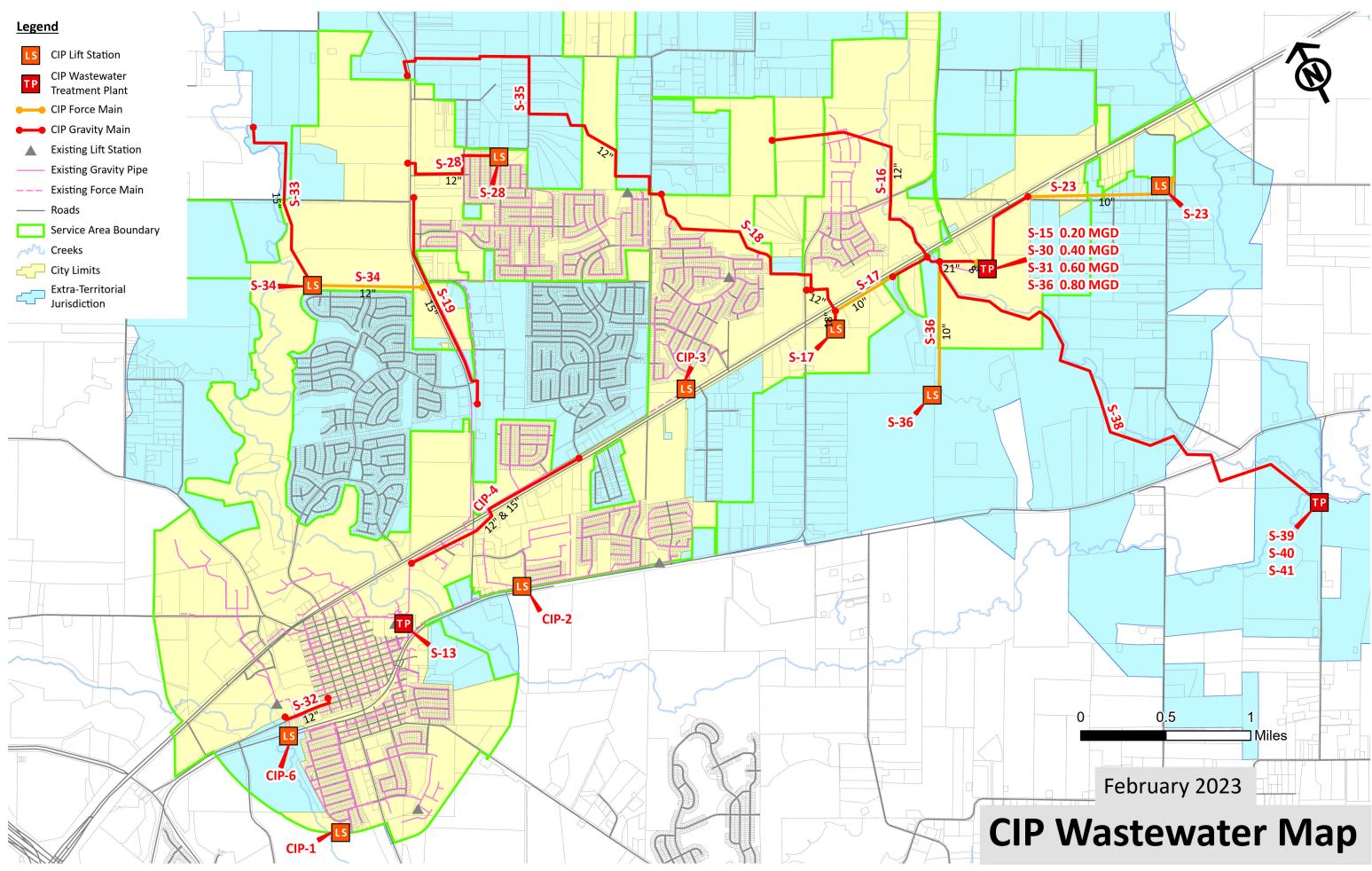


EXHIBIT A-4 CITY OF MANOR WASTEWATER IMPROVEMENTS 10-YEAR CAPITAL IMPROVEMENTS PLAN FEBRUARY 2023

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 P	eriod (month	s) P	ayment °	Total Payment	Size		uction Cost d for Inflation per annum)		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		plant at Regional Site, road and electrical improvements 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 \$ 2,0	,025,000.00 \$	51,000.00	\$ 69,000.00	\$ 1,280,955.08		d East Cottonwood gravity ww to Regional Site, sized for ar capacity
S-17	2024	West Cottonwood LS and FM	\$ 949,000.00	0.00425	240	\$	9,377.79 \$		6" FM and 350 gpm LS	0 3,700 \$ 1,;	,281,150.00 \$	79,000.00	\$ 49,000.00	\$ 841,518.81	Exter \$ 2,251,000.00 Cotto	d 27" and 30" gravity ww from confluence with East nwood 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		es West Cottonwood Sub-Basin up to Bois D'Arc Ln, 21" 4" 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 Greg	
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	along	ation and Force Main to serve 220 LUEs in Willow Basin US 290. 10-Yr ADF approx. 60,000 gpd, PWWF approx pm
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		ty main to serve new high school; upgrades to existing water 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	\$ 4,9	,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	Parso	ncement of existing wastewater line in Bastrop and sons; to correct current capacity issues and serve additional
	-	Wilbarger Basin Gravity Line to Lift Station	\$ 1,000,000,00	0.00425	240	φ	11,441.81 \$,	15"	·	,300,000.00 \$,		\$ 1,026,734.77	, , , , , , , , , , , ,	
S-33	2023	(off Gregg Lane)	\$ 1,000,000.00	0.00425	240	Ψ	11,441.01 φ	2,740,034.77		6,200 \$ 1,	,300,000.00 \$	195,000.00	\$ 224,300.00	ф 1,020,734.77		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 \$ 1,0	,690,000.00 \$	253,500.00	\$ 291,500.00	\$ 1,334,701.45		ift station and force main to servie growth along Gregg
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		n 1 -New gravity wastewater line to extend wastewater se 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		,700,000.00 \$	405,000.00	\$ 496,800.00	\$ 2,150,929.61		ift station and force main to serve areas south of US Hwy long 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	\$ 4,9	,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	\$ 54,0	,600,000.00 \$	398,000.00	\$ 9,349,700.00	\$ 38,427,279.01	Build \$ 102,775,000.00 add \$	plant at Regional Site, road and electrical improvements 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	\$ 1,1	,040,497.80 \$	156,100.00	\$ 95,000.00	\$ 75,900.00	to 10 expa	ge in discharge point increased Phase 1 capacity from 440 26 LUEs, currently at about 706 LUEs. Will need to ad LS when Lagos develops to ultimate 1586 LUE city.
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		,125,800.00 \$	45,000.00	\$ 30,000.00	\$ (484,414.40)		ently at approximately 730 LUES. Current phase 1 city is 1264 LUES. Ultimate Capcity 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)	capa	ently at approximately 1281 LUES. Actual phase 1 sity with current wastewater flows is in excess of 1500 s. Ultimate Capcity at phase 2 is 3517.
CIP-4	2024	US 290 WW Line Expansion	\$ 603,378.00	0.00425	240	\$	7,231.64 \$			1,566 &	814,560.30 \$		\$ 149,900.00		Prese	ently at approximately 264 PG+308 SW = 572 LUEs out of 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 \$		500 gpm	500 \$ 1,;		127,000.00			Lift S	ation and Force Main from Rural Center to existing



EXHIBIT B-1 CITY OF MANOR PLANNING AND DESIGN CRITERIA FEBRUARY 2023

Water Infrastructure

Criteron	Value	Unit
People per LUE	3.2	
Average Day Water Demand	232	gpd/LUE
Maximum Day Water Demand	464	gpd/LUE
Peak Hour Water Demand	1.5	gpm/LUE
Total Water Storage	200	gal/LUE
Minimum Water Elevated Storage	100	gal/LUE
Minimum Water Pump Capacity	0.6	gpm/LUE
Minimum Water System Pressure (Normal Conditions)	35	psi
Minimum Water System Pressure (Fire Flow Conditions)	20	psi
Maximum Water Line Velocity (Peak Hour/Fire Flow Conditions)	5	fps

Wastewater Infrastructure

Criteron	Value	Unit
People per LUE	3.2	
Average Wastewater Flow	200	gpd/LUE
Peak Wastewater Flow	800	gpd/LUE
Minimum Wastewater Line Velocity	2	fps
Maximum Wastewater Line Velocity	8	fps

Notes:

Water demands and wastewater flows from the City of Manor Adopted Water and Wastewater Master Plans.

System capacities and other design criteria from 30 TAC Chapters 217 and 290.

EXHIBIT B-2 CITY OF MANOR WATER IMPROVEMENTS 10-YEAR CAPITAL IMPROVEMENTS PLAN PRO RATA CALCULATIONS MARCH 2023

						Total Project		Pr	o Rata Project
				Total LUE	10-Year LUE	Cost in 2023		(Cost in 2023
Project No.	Year	Description	Size	Capacity	Demand	Dollars	Pro Rata Share		Dollars
W-6	2026	Blake Manor Road Water Line	12"	1667	763	\$ 1,263,000.00	46%	\$	578,085.78
W-13	2025	US 290 Crossing at Golf Course	12"	1667	1667	\$ 605,000.00	100%	\$	605,000.00
		Gregg Manor Road Water Supply -							
W-14	2023	Ground Storage Tank and Pumps	250000	2500	2500	\$ 6,898,000.00	100%	\$	6,898,000.00
W-16	2023	US 290 Water Line	12"	1667	1667	\$ 1,380,000.00	100%	\$	1,380,000.00
W-20	2025	Bois D'Arc Lane Water Line	16"	2400	2400	\$ 1,512,000.00	100%	\$	1,512,000.00
W-22	2025	Bois D'Arc Lane Water Line	12"	1667	1100	\$ 1,209,000.00	66%	\$	797,780.44
		Gregg Manor Road Pump							
W-24	2025	Improvements	1200	2000	2000	\$ 1,209,000.00	100%	\$	1,209,000.00
W-31	2022	FM 973 Water Line	12"	2400	1800	\$ 1,532,000.00	75%	\$	1,149,000.00
								\$	14,128,866.23

Previously Completed Projects

	Total LUE						10-Year LUE		Pro	Rata Project
Year	Capacity	Name	Description	F	Project Cost	LUEs Used	Demand	Pro Rata Share		Cost
2002	1667	Creekside Offsite Utilities	12"	\$	175,000.00	405	300	18%	\$	31,000.00
2005	1667	Greenbury Offsite Utilities	12"	\$	407,816.64	308	1200	72%	\$	294,000.00
		Water Supply Main From City of								
		Austin to West Elevated Storage								
2007	5,600	Tank and Downtown	16"	\$	1,057,675.36	1550	2650	47%	\$	501,000.00
2008	5,000	West Elevated Storage Tank	500,000	\$	2,138,083.58	1550	2650	53%	\$	1,133,000.00
2010	2,400	Presidential Glen Water Lines	16"	\$	465,054.06	8	1300	54%	\$	252,000.00
2009	5,000	East Manor Elevated Storage Tank	500,000	\$	1,880,381.34	1550	2650	53%	\$	997,000.00
2018	2,400	AMR Water Meters		\$	399,300.00	2400	2400	100%	\$	399,000.00
2022	1,667	FM 973 Waterline	12"	\$	452,005.00	500	1667	100%	\$	452,000.00
2021	1,667	Old Kimbro Waterline	12"	\$	474,000.00	1000	1667	100%	\$	474,000.00
2022	2,400	FM 973 Waterline	16"	\$	582,400.00	150	1500	63%	\$	364,000.00
2021	2,400	Gregg Lane to Tower Rd Waterline	12"	\$	1,209,000.00	2000	2400	100%	\$	1,209,000.00
2021	2,400	US 290 Waterline	16"	\$	1,696,000.00	1500	2400	100%	\$	1,696,000.00
2022	1667	Hill Lane Waterline	12"		\$462,893.00	600	600	36%	\$	167,000.00

Totals \$ 11,399,608.97 \$ 7,969,000.00

CIF Ineligible Projects



EXHIBIT B-3 CITY OF MANOR WATER IMPROVEMENTS MISCELLANEOUS PROJECT COSTS MARCH 2023

Description		Amount
CIF Studies	\$	21,000.00
Study Cost for Water, Mapping, Modeling	\$	138,800.00
Total Water-Relate	ed Costs \$	159,800.00



EXHIBIT B-4 CITY OF MANOR WATER IMPACT FEE CALCULATION SEPTEMBER 2020

CATEGORY	AMOUNT
Total CIP Eligible Project Cost :	\$ 22,257,666.23
Number of LUEs added:	\$ 4,750.00
Maximum Water CIF:	\$ 4,686.00
50% Credit:	\$ 2,343.00
MAXIMUM ASSESSABLE CIF:	\$ 2,343.00

EXHIBIT B-5 CITY OF MANOR WASTEWATER IMPROVEMENTS 10-YEAR CAPITAL IMPROVEMENTS PLAN PRO RATA CALCULATIONS MARCH 2023

Project No.	Year	Description	Size	Total LUE Capacity	10-Year LUE Demand	Total Project Cost in 2022 Dollars	Pro Rata Share	Pro Rata Project Cost in 2022 Dollars
S-13	2020	Addl. Wilbarger WWTP Capacity	1.33 MGD	5354	4200	\$34,960,000.00	78.45%	\$ 27,425,000.00
		Cottonwood WWTP, Phase 1, 0.20						
S-15	2022	MGD	0.1 MGD	363	363	\$12,622,000.00	100.00%	\$ 12,622,000.00
S-16	2024	East Cottonwood Gravity Line	12"	1000	375	\$ 3,426,000.00	37.50%	\$ 1,285,000.00
S-17	2024	West Cottonwood LS and FM	12"	1200	540	\$ 2,251,000.00	45.00%	\$ 1,013,000.00
		West Cottonwood Gravity Line,						
S-18	2024	Phase 2	15"	1200	540	\$ 2,297,000.00	45.00%	\$ 1,034,000.00
S-19	2022	FM 973 Gravity Wastewater Line	15"	754	75	\$ 1,473,000.00	9.95%	\$ 147,000.00
S-23	2024	Willow Lift Station and Force Main	200 gpm	210	100	\$ 2,876,000.00	47.62%	\$ 1,370,000.00
S-28	2018	High School gravity line to Stonewater Lift Station; Stonewater Lift Station Upgrades	12"	1000	500	\$ 51,000.00	50.00%	\$ 26,000.00
3-20	2010	Expand Cottonwood WWTP to 0.40	IZ	1000	300	φ 31,000.00	30.0076	φ 20,000.00
S-30	2024	MGD Capacity	0.40 MGD	909	909	\$10,067,000.00	100.00%	\$ 10,067,000.00
0-30	2024	Expand Cottonwood WWTP to 0.60	0.40 MGB	303	303	ψ 10,007,000.00	100.0070	Ψ 10,007,000.00
S-31	2025	MGD Capacity	0.50 MGD	1272	1272	\$10,530,000.00	100.00%	\$ 10,530,000.00
001	2020	мов барабку	0.00 MGB	1272	1272	ψ 10,000,000.00	100.0070	Ψ 10,000,000.00
S-32	2021	Bastrop-Parsons WW Improvements	12"	1272	1272	\$ 1,054,000.00	100.00%	\$ 1,054,000.00
		Wilbarger Basin Gravity Line to Lift	<u> </u>			+ 1,0001,000100		+ 1,000,000
S-33	2023	Station (off Gregg Lane)	15"	1200	1200	\$ 2,746,000.00	100.00%	\$ 2,746,000.00
		Wilbarger Basin lift station and force				, , , , , , , , , , , , , , , , , , , ,		
S-34	2023	main (off Gregg Lane)	12" FM and 225 gpm LS	1200	1200	\$ 3,570,000.00	100.00%	\$ 3,570,000.00
S-35	2023	Gravity line from City Limits to tie in to Wastewater line to Cottonwood	12"	1200	600	\$ 3,021,000.00	50.00%	\$ 1,511,000.00
5-35	2023	Wildhorse Creek Lift Station	IZ	1200	600	\$ 3,021,000.00	50.00%	\$ 1,511,000.00
CIP-1	2021	Expansion	1,075 gpm, 2nd WW	1586	1586	\$ 1.367.000.00	100.00%	\$ 1,367,000.00
CIP-1	2023	Bell Farms Lift Station Expansion	1,400 gpm, 2nd WW	2172	2172	\$ 716,000.00	100.00%	\$ 716,000.00
CIP-Z	2023	Presidential Glen Lift Station	1,400 gpm, 2nd ww	2112	2112	\$ 710,000.00	100.00%	\$ 710,000.00
CIP-3	2023	Expansion	2,275 gpm, 2nd WW	3517	1119	\$ 716,000.00	31.82%	\$ 228,000.00
CIP-4	2023	US 290 WW Line Expansion	12" & 15"	3600	2300	\$ 1,736,000.00	63.89%	\$ 1,109,000.00
OII - 4	2024	Travis County Rural Center Lift	12 0 13	3000	2300	ψ 1,730,000.00	03.0370	ψ 1,109,000.00
CIP-6	2020	Station, force main	500 gpm	679	340	\$ 2,524,000.00	50.07%	\$ 1,264,000.00
			<u> </u>			,,		\$ 79,084,000.00

Previously Completed Projects

	Total LUE					10-Year LUE		Pro	Rata Project
Year	Capacity	Name	Description	Project Cost	LUEs Used	Demand	Pro Rata Share		Cost
			Gravity Sewer Line to Serve						
2001	300	Hamilton Point Sewer Main	Hamilton Point Sub	\$ 128,000.00	300	0	0%	\$	-
		Creekside Offsite/Onsite and	Lift Station, Forced Main and						
2003	1091	Wilbarger WWTP	WWTP	\$ 1,033,000.00	726	375	34%	\$	355,000.00
		East Old Highway 20 Gravity Line,	Gravity Line Lift Station and						
		Lift Staion, Forced Main (Bell Farms	Forced Main to Serve new						
2004	1264	FM)	growth along Old Highway 20	\$ 1,034,873.04	616	650	51%	\$	532,000.00
			Gravity Line Along US 290 to						
2005	1885	Greenbury Gravity Line	Serve Greenbury Sub	\$ 619,007.39	308	682	36%	\$	224,000.00
		Carriage Hills Lift Station and Forced	Lift Station and Forced Main to						
2008	888	Main	Serve Carriage Hills Sub	\$ 680,972.01	165	175	20%	\$	134,000.00
			Totals	\$ 3,495,852.45				\$	1,245,000.00

CIF Ineligible Projects

2009	727	Wilbarger WWTP Capacity Buyback	
		Creekside Lift Station Forced Main	
	2005	Adjustment	



EXHIBIT B-6 CITY OF MANOR WASTEWATER IMPROVEMENTS 10-YEAR CAPITAL IMPROVEMENTS PLAN MISCELLANEOUS PROJECT COSTS MARCH 2023

Description	Total Cost
CIF Studies	\$ 21,000.00
Gilleland Creek COA Impact Fee (34 LUEs @ \$1,400)	\$ -
Study Cost for Wastewater, Mapping, Modeling	\$ 303,100.00
Total Sewer-Related Costs	\$ 324,100.00



EXHIBIT B-7 CITY OF MANOR WASTEWATER IMPACT FEE CALCULATION MARCH 2023

CATEGORY	AMOUNT		
Total CIP Eligible Project Cost :	\$	80,653,000.00	
Number of LUEs added:		4,900.00	
Maximum Wastewater CIF:	\$	16,460.00	
50% Credit:	\$	(8,230.00)	
MAXIMUM ASSESSABLE CIF:	\$	8,230.00	



EXHIBIT B-8 CITY OF MANOR WATER AND WASTEWATER IMPACT FEE FACTORS MARCH 2023

1. RESIDENTIAL DEVELOPMENT

Community Impact Fees for residential development shall be assessed based upon the number of dwelling units proposed for development times the appropriate LUE Factor for water as shown below.

Dwelling Type	Units	LUE Factor		
Single Family Residential	Per Housing Unit	1		
Two-Family Residential	Per Residential Unit	0.7		
Three-Family Residential	Per Residential Unit	0.7		
Multi-Family Residential	Per Residential Unit	0.5		

2. NON-RESIDENTIAL DEVELOMENT

Community Impact Fees for all non-residential development shall be assessed based upon the water meter size and type installed to serve the proposed development water, as shown below.

Meter Size (Inch)	Туре	LUE Factor		
5/8	Positive	1		
	Displacement			
3/4	Positive	1.5		
	Displacement			
1	Positive	2.5		
	Displacement			
1-1/2	Positive	5		
	Displacement			
2	Positive	8		
	Displacement			
2	Compound	8		
2	Turbine	10		
3	Compound	16		
3	Turbine	24		
4	Compound	25		
4	Turbine	42		
6	Compound	50		
6	Turbine	92		
8	Compound	80		
8	Turbine	160		
10	Compound	115		
10	Turbine	250		
12	Turbine	330		



City of Manor Water and Wastewater

Impact/Tap Fee Comparison Chart - APRIL 2023

City	,	Water Impact Fee ¹	Wastewater Impact Fee ¹		Water Tap Fee ¹	٧	Wastewater Tap Fee ¹	Total
Bastrop	\$	8,182.00	\$ 5,089.00	\$	350.00	\$	300.00	\$ 13,921.00
Bartlett - 11		Vary	Vary	\$	1,000.00	\$	1,000.00	\$ 2,000.00
Belton ³				\$	1,000.00	\$	800.00	\$ 1,800.00
Elgin	\$	3,790.00	\$ 2,348.00	\$	2,000.00	\$	2,000.00	\$ 10,138.00
Florence ³	\$	2,527.00	\$ 1,144.00	\$	1,000.00	\$	800.00	\$ 5,471.00
Georgetown ⁷	\$	11,000.00	\$ 6,129.00	\$	850.00	\$	800.00	\$ 18,779.00
Harker Heights ⁶	N	o CIF Program for Water	\$ 6,133.00	\$	275.00	\$	275.00	\$ 6,683.00
Holland	\$	1,000.00	\$ 1,000.00	\$	2,000.00	\$	2,000.00	\$ 6,000.00
Jarrell ²	\$	4,000.00	\$ -	\$	750.00	\$	-	\$ 4,750.00
Liberty Hill ⁸	\$	7,037.00	\$ 4,000.00	\$	3,500.00	\$	600.00	\$ 15,137.00
Leander	\$	4,309.00	\$ 2,820.00	\$	840.00	\$	750.00	\$ 8,719.00
Manor	\$	1,325.00	\$ 4,047.00	\$	750.00	\$	750.00	\$ 6,872.00
Manor - proposed	\$	2,343.00	\$ 8,230.00	\$	750.00	\$	750.00	\$ 12,073.00
Pflugerville	\$	7,897.00	\$ 8,184.00	\$	250.00	\$	250.00	\$ 16,581.00
Round Rock - 12	\$	4,025.00	\$ 2,099.00		Vary		Vary	\$ 6,124.00
Salado ^{4,5}		Vary	\$ 5,152.00	\$	3,400.00	\$	4,000.00	\$ 12,552.00
Taylor -13	\$	4,717.00	\$ 2,654.00	\$	1,375.00	\$	1,340.00	\$ 10,086.00
Temple ³		No CIF Program	No CIF Program		Varies		Varies	\$ <u>-</u>
Troy		No CIF Program	No CIF Program	\$	900.00	\$	725.00	\$ 1,625.00
Waco ⁹		No CIF Program	No CIF Program	qu	uoted on per cost basis		quoted on per cost basis	\$ -
Average	\$	4,780.92	\$ 3,935.27	\$	1,234.71	\$	1,008.24	\$ 7,965.55
Average CIF Program Cities	\$	5,207.45	\$ 3,626.83	\$	1,413.75	\$	1,126.25	\$ 9,780.25

Notes:

- 1 Fees for a standard single family residential house (1 LUE) with a standard 5/8" x 3/4" meter and 4" ww service; water fee is for production and distribution
- 2 Jarrell water supplied by Jarrell Schwertner Water Supply Corporation, Impact Fee includes Capital Recovery and Tap Fee; City of Jarrell provides water service to portions of City
- 3 prices based on project; no set amount available
- 4 Tap fee includes: \$100 membership fee, \$300 tap fee and \$700 installation fee
- 5 Salado does not have a sewer system, \$6,300 represents low price for a septic system; Salado Water Supply Corporation supplues water
- 6 Harker Heights charges for water and sewer connections on a cost basis, fees range from minimum of \$200 to over \$1,000; flat fee to connect to utility system, connection fee \$275.00 Wastewater Impact Fee only in select areas
- $7\hbox{ --Georgetown water and sewer tap fees include a $500 each engineering and inspection fee; Imapct fee effective October 2018}$
- 8 Liberty Hill charges \$6,000 fee for gravity section of City
 - Liberty Hill WSC charges \$100 membership fee, plus average of \$400-\$700 for tap
- 9 Waco quotes on an individual basis
- 10- City supplied water
- 11 varies based on level of project and distance to tap location New to impact fees; currently have new projects that will be "test" subjects to process
- 12 fee information https://www.roundrocktexas.gov/departments/planning-and-development-services/building-inspection/new-single-family-construction/residential/; no tap fee, built in cost with total construction that the contractor bills his client
- 13 Vary Impact Fee http://www.ci.taylor.tx.us/DocumentCenter/View/6981