

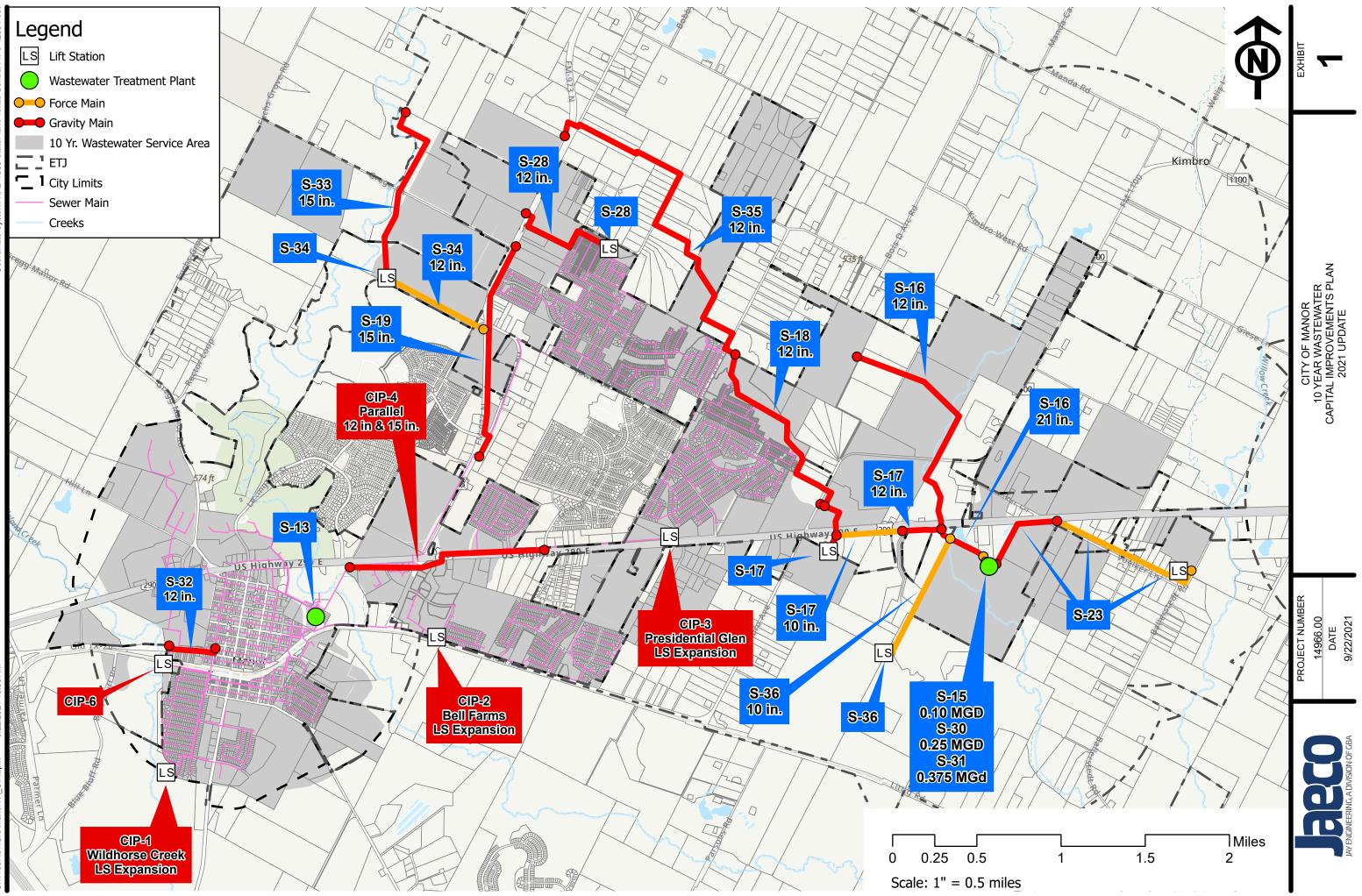
EXHIBIT A-2 CITY OF MANOR WATER IMPROVEMENTS 10-YEAR CAPITAL IMPROVEMENTS PLAN SEPTEMBER 2021

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

						Construction Cost			(adjusted for Inflation @ 5% per		Contingency (10%			
Project No.	Year	Description	Size	Unit	Length (ft)	(2020 Dollars)	Annual Interest	Period (yr)	annum)	Soft Costs	+ 1% per annum)	Financing Cost (5% over 20 Years)	Total Project Costs	Detailed Description
					• • •				·				-	Transmission main from
														downtown along Blake Mar
														Road to future FM 973.
		Blake Manor Road Water												Includes replacing 400 LF of
W-6	2021	Line	12	inch	3,200	\$ 268,800.00	0.050	20	\$ 322,560.00 \$	48,400.00	\$ 48,200.00	\$ 253,529.66	\$ 673,000.00	pipe in Downtown Plant
W/ 40	0000		10	la ele	0.450	¢ 000 000 00	0.050	00		50,000,00	¢ 40.000.00	¢ 050.044.74	¢	Water Distribution main alo
W-10	2020	Hill Lane Water Line	12	inch	3,450	\$ 289,800.00	0.050	20	\$ 333,270.00 \$	50,000.00	\$ 46,000.00	\$ 259,644.71	\$ 689,000.00	Hill Lane to serve new grov Connect 12" water lines on
		US 290 Crossing at Golf												north and south sides of U
W-13	2023	Course	12	inch	250	\$ 100,000.00	0.050	20	\$ 130,000.00 \$	19,500.00	\$ 22,400.00	\$ 103,974.01	\$ 276,000.00	
VV-13	2023	Course	12	Inch	230	φ 100,000.00	0.050	20	φ 130,000.00 φ	13,500.00	φ 22,400.00	φ 105,574.01	φ 270,000.00	250,000 gal Ground Storag
														Tank and 1,400 gpm
		Gregg Manor Road Water												expandable pump station for
		Supply - Ground Storage												wholesale water supply
W-14	2022	Tank and Pumps	250,000	gallon		\$ 2,000,000.00	0.050	20	\$ 2,500,000.00 \$	375,000.00	\$ 402,500.00	\$ 1,982,401.59	\$ 5,260,000.00	
		·	·							·	· ·	· · ·		
														Transmission main from US
														290 to serve new growth or
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	east and west sides of FM
						• • • • • • • • • • • •					• • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • • • •	Parallel 12" waterline to
W-16	2022	US 290 Water Line	12	inch	2900	\$ 243,600.00	0.050	20	\$ 304,500.00 \$	45,700.00	\$ 49,000.00	\$ 241,456.82	\$ 641,000.00	increase US 290 capacity
														Extend transmission main f
14/ 47	2020	US 290 Water Line	16	inch	4400	Φ Ε 40,000,00	0.050	20	¢ 601.000.00 ¢	02 200 00	¢ 95 700 00	¢ 402.020.04	¢ 1 201 000 00	Presidential Glen to Old Kir
W-17	2020	Old Kimbro Road Water	16	Inch	4400	\$ 540,000.00	0.050	20	\$ 621,000.00 \$	93,200.00	\$ 85,700.00	\$ 483,820.91	\$ 1,284,000.00	Transmission main to serve
W-18	2020	Line	12	inch	3000	\$ 474,000.00	0.050	20	\$ 545,100.00 \$	81,800.00	\$ 75,200.00	\$ 424,666.41	\$ 1 127 000 00	new growth north of US 290
VV-10	2020	Line	12	Inch	3000	φ 474,000.00	0.050	20	ψ 545,100.00 ψ	01,000.00	φ 75,200.00	ψ +2+,000.+1	ψ 1,127,000.00	new growin north of 66 23
		Bois D'Arc Lane Water												Transmission main to impro
W-20	2023	Line	16	inch	2700	\$ 302,400.00	0.050	20	\$ 393,120.00 \$	59,000.00	\$ 67,800.00	\$ 314,474.52	\$ 834,000.00	delivery of water from East
		Bois D'Arc Lane Water				· · ·			· · · ·		· ·	· ·	· · ·	Transmission main to serve
W-22	2023	Line	12	inch	2500	\$ 210,000.00	0.050	20	\$ 273,000.00 \$	41,000.00	\$ 47,100.00	\$ 218,411.96	\$ 580,000.00	new growth north of Tower
														Increase Pump Capacity (a
		Gregg Manor Road Pump												contracted supply) at whole
W-24	2025	Improvements	1200	gpm		\$ 200,000.00	0.050	20	\$ 280,000.00 \$	42,000.00	\$ 54,700.00	\$ 227,847.65	\$ 605,000.00	water connection
														Transmission main along F
														973 from Tower Road to
M/ 21	2022	EM 072 Water Line	10	inch	5200	\$ 436,800.00	0.050	20	\$ 546,000.00 \$	81,900.00	¢ 97 000 00	\$ 432,952.88	¢ 1 1 40 000 00	Canopy Lane to serve new
W-31	2022	FM 973 Water Line	12	inch	5200	\$ 436,800.00	0.050	20	φ 546,000.00 φ	61,900.00	φ 67,900.00	φ 432,952.00	\$ 1,149,000.00	growin.
														Transmission main from
		Gregg Lane to Tower												Manville WSC Booster Stat
Water CIP-1	2020	Road Waterline	12	inch	3400	\$ 1,560,000.00	0.050	20	\$ 1,794,000.00 \$	260 100 00	\$ 247,600.00	¢ 1 307 630 02	\$ 3 708 000 00	to East Elevated Storage Ta
	2020	Road Watenine	12	Inch	3400	φ 1,300,000.00	0.050	20	φ 1,794,000.00 φ	209,100.00	φ 247,000.00	φ 1,397,030.92	\$ 3,708,000.00	1350 Meter bodies and AM
														registers, 810 replacement
														meter box lids, software, tw
														vehicle transmitter units, tw
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 AM
														registers, 810 replacement
														meter box lids, software, tw
														vehicle transmitter units, tw
Vater 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	laptops.
													\$ 19,167,000.00	

Water LUEs are defined as requiring 451 gallons of water per day per single family residence as determined in the the City of Manor Water Master Plan.





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EXHIBIT A-4 CITY OF MANOR WASTEWATER IMPROVEMENTS 10-YEAR CAPITAL IMPROVEMENTS PLAN 2021 UPDATE

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 (2021 Dollars)	Interest	Period (months)	Paym	ent T	Total Payment	Size	Construction Cost (adjusted for Inflation Length @ 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	2021	Cottonwood WWTP, Phase 1, 0.20 MGD	\$5,119,897.50	0.00425	240	\$ 49,	195.04 \$	11,806,810.71	0.20 MGD	\$ 6,143,877.00 \$	398,000.00	\$ 850,400.00	\$ 4,414,533.71	\$ 11,807,000.00	Build plant at Regional Site, road and electrical improvements add \$500,000
S-16	2021	East Cottonwood Gravity Line	\$ 1,500,000.00	0.00425	240	\$ 12	777.45 \$	3,066,589.17	12"	3,200 \$ 1,800,000.00 \$	51,000.00	\$ 69.000.00	\$ 1,146,589.17	\$ 3.067.000.00	Extend East Cottonwood gravity ww to Regional Site sized for 10-year capacity
S-17	2021	West Cottonwood LS and FM	\$ 949.000.00	0.00425	240				6" FM and 350 gpm LS	3,700 \$ 1,138,800.00 \$	·	. ,			Extend 27" and 30" gravity ww from confluence with Cottonwood to US 290, ultimate capacity
S-18	2022	West Cottonwood Gravity Line, Phase 2	• • • • • • • • • • •	0.00425	240		·	2,140,223.69	15"	8,200 \$ 1,230,000.00 \$	l l		• • • • • • • • •	,,	Serves West Cottonwood Sub-Basin up to Bois D'A 21" and 24" gravity ww sized for ultimate capacity
S-19	2022	FM 973 Gravity Wastewater Line	\$ 684.400.00	0.00425	240			, ,	15"	5,800 \$ 855,500.00 \$	·		· · ·	\$ 1,473,000.00	Serves FM 973 Corridor up to Wilbarger Basin divid
S-23		Willow Lift Station and Force Main	\$ 685.000.00	0.00425					200 gpm	\$ 924.750.00 \$,				Lift Station and Force Main to serve 220 LUEs in W Basin along US 290. 10-Yr ADF approx. 60,000 gpc PWWF approx 200 gpm
S-28		High School gravity line to Stonewater Lift Station; Stonewater Lift Station Upgrades	\$ 26,271.96	0.00425		<u> </u>	210.84 \$	50,601.98	12"	3,100 \$ 27,585.56 \$					Gravity main to serve new high school; upgrades existing Stonewater Lift Station.
S-30		Expand Cottonwood WWTP to 0.40 MGD Capacity	\$ 2,000,000.00	0.00425	240	\$ 21,	811.51 \$	5,234,763.54	0.40 MGD	\$ 2,500,000.00 \$	375,000.00	\$ 402,500.00	\$ 1,957,263.54	\$ 5,235,000.00	New Treatment Plant Capacity to Serve Addl Gro
S-31	2025	Expand Cottonwood WWTP to 0.50 MGD Capacity	\$ 2,500,000.00	0.00425	240	\$ 31,	340.04 \$	7,521,608.52	0.50 MGD	\$ 3,500,000.00 \$	525,000.00	\$ 684,300.00	\$ 2,812,308.52	\$ 7,522,000.00	New Treatment Plant Capacity to Serve Addl Gro
S-32	2021	Bastrop-Parsons WW Improvements	\$ 418,097.00	0.00425	240	\$4,	339.12 \$	1,041,388.76	12"	\$ 501,716.40 \$	75,300.00	\$ 75,000.00	\$ 389,372.36	\$ 1,041,000.00	Replacement of existing wastewater line in Bast Parsons; to correct current capacity issues and a additional growth
S-33	2022	Wilbarger Basin Gravity Line to Lift Station (off Gregg Lane)	\$ 670,000.00	0.00425	240	\$7,	306.44 \$	1,753,545.96	15"	6,200 \$ 837,500.00 \$	125,600.00	\$ 134,800.00	\$ 655,645.96	\$ 1,754,000.00	New wastewater line to serve growth along Greg
S-34	2022	Wilbarger Basin lift station and force main (off Gregg Lane)	\$ 947,500.00	0.00425	240	\$ 10,	333.60 \$	2,480,064.06	12" FM and 225 gpm LS	3,500 \$ 1,184,375.00 \$	177,700.00	\$ 190,700.00	\$ 927,289.06	\$ 2,480,000.00	New lift station and force main to servie growth a Gregg Lane.
S-35	2022	Gravity line from City Limits to tie in to Wastewater line to Cottonwood	\$ 850,000.00	0.00425	240	\$9,	270.31 \$	2,224,874.33	12"	8,130 \$ 1,062,500.00 \$	159,400.00	\$ 171,100.00	\$ 831,874.33	\$ 2,225,000.00	Option 1 -New gravity wastewater line to extend wastewater service to City Limits for future grow
S-36	2022	Lift Station and Force main to Cottonwood WWTP	\$ 2,000,000.00	0.00425	240	\$ 21,	811.51 \$	5,234,763.54	10" FM 1,575 LUEs	\$ 2,500,000.00 \$	375,000.00	\$ 402,500.00	\$ 1,957,263.54	\$ 5,235,000.00	New lift station and force main to serve areas so US Hwy 290 along Old Kimbro Road.
CIP-1	2021	Wildhorse Creek Lift Station Expansion	\$ 750,000.00	0.00425	240	\$7,	520.06 \$	1,804,815.50	1,075 gpm, 2nd WW	\$ 900,000.00 \$	135,000.00	\$ 95,000.00	\$ 75,900.00	\$ 1,206,000.00	Change in discharge point increased Phase 1 ca from 440 to 1026 LUEs, currently at about 706 L Will need to expand LS when Lagos develops to ultimate 1586 LUE capacity.
CIP-2	2022	Bell Farms Lift Station Expansion	\$ 300,000.00	0.00425	240	\$2,	984.94 \$	716,385.60	1,400 gpm, 2nd WW	\$ 375,000.00 \$	45,000.00	\$ 30,000.00	\$ 266,385.60	\$ 716,000.00	Presently at approximately 730 LUES. Current property is 1264 LUES. Ultimate Capcity at pha 2172.
CIP-3	2022	Presidential Glen Lift Station Expansion	\$ 300,000.00	0.00425	240	\$ 2,	984.94 \$		2,275 gpm, 2nd WW	\$ 375,000.00 \$	45,000.00	\$ 30,000.00	\$ 266,385.60	\$ 716,000.00	Presently at approximately 1281 LUES. Actual p capacity with current wastewater flows is in exce 1500 LUES. Ultimate Capcity at phase 2 is 351
CIP-4	2022	US 290 WW Line Expansion	\$ 603,378.00	0.00425	240	<u>\$</u> 6,	579.87 \$	1,579,169.64	12" & 15"	1,566 & 2,760 \$ 754,222.50 \$	<u>113,100.</u> 00	\$ <u>121,400.</u> 00	\$ 590,447.14	\$ 1,579,000.00	Presently at approximately 264 PG+308 SW = 5 LUEs out of 1800 LUE capacity, expansion will c capacity.
		Travis County Rural Center Lift													Lift Station and Force Main from Rural Center to

