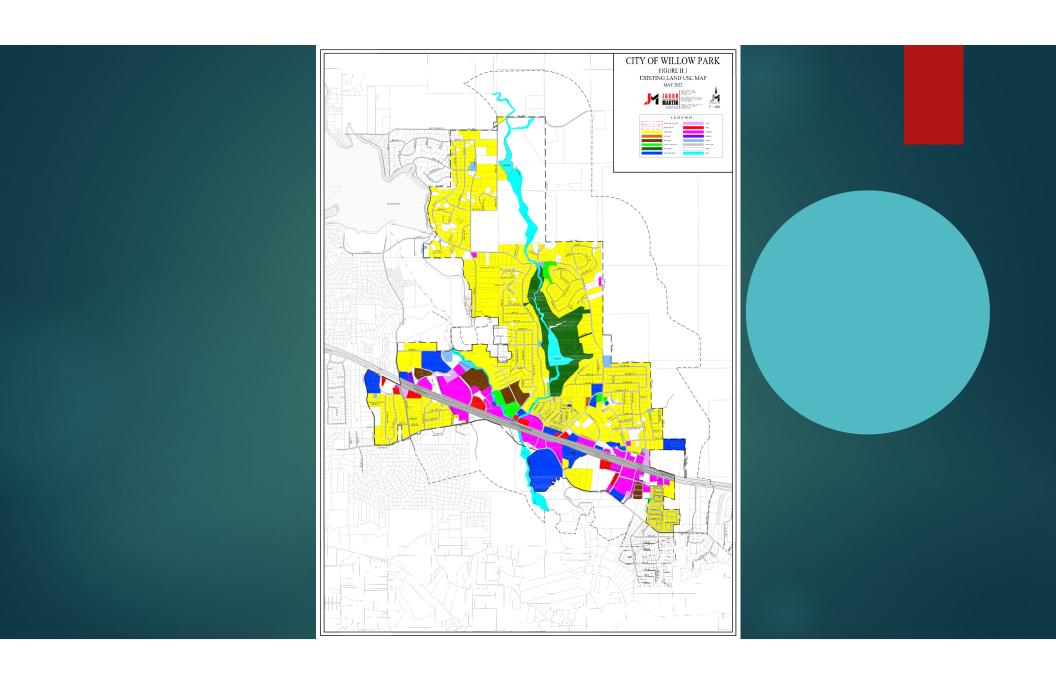


## Willow Park Capital Improvement Plan & Land Use Discussion

DEREK TURNER, P.E.



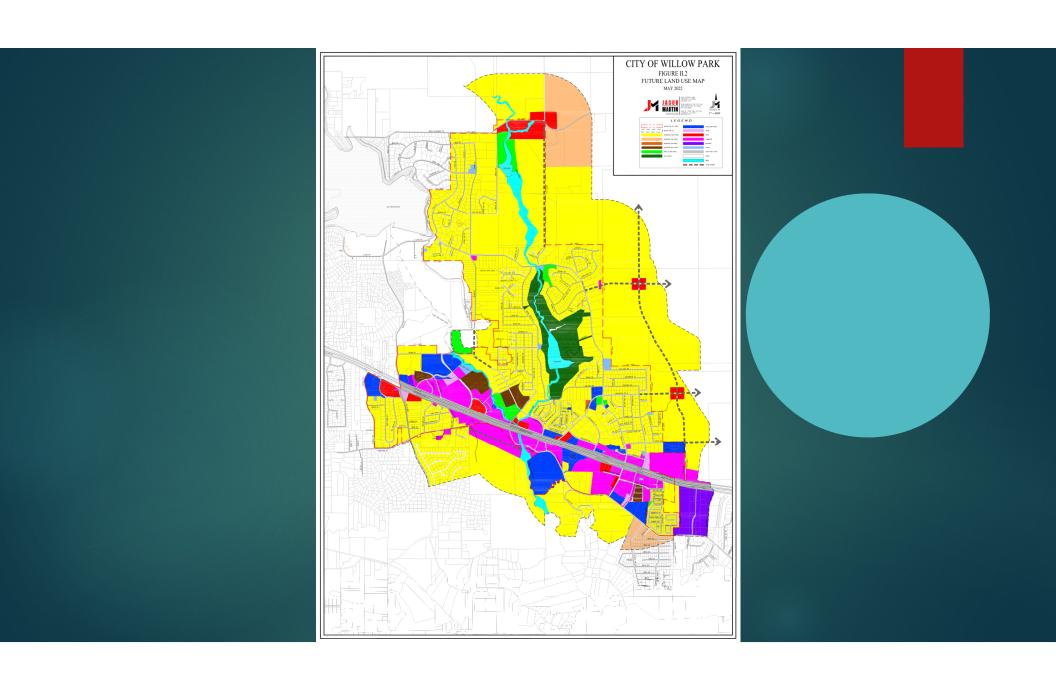


Table 3.5: Cost Allocation for Proposed Capital Improvements

Table 3.5: Cost Allocation for Proposed Capital Improvements													
CIP							2022-	Impact Fee					
#	Project	Location		Cost	2022	2032	2032	Eligible					
1	El Chico to Fox Hunt Transmission Line	El Chico/Fox Hunt	\$	2,500,000.00	0%	50%	50%	\$ 1,425,000.00					
2	Disinfection Improvements	All Well Sites	\$	100,000.00	0%	100%	100%	\$ 100,000.00					
3	<b>Emergency Generators</b>	All Well Sites	\$	500,000.00	0%	100%	100%	\$ 500,000.00					
4	Willow Springs Oaks Interconnect	IH20 & Crown Pointe Blvd	\$	50,000.00	0%	25%	25%	\$ 18,750.00					
5	New 0.5 MG Elevated Tank	Fox Hunt	\$	2,500,000.00	33%	50%	17%	\$ 510,000.00					
6	Replace Deteriorated Lines	City Wide	\$	2,000,000.00	25%	25%	0%	\$ -					
7	Bankhead 8" Water Line	Bankhead South of IH20	\$	600,000.00	0%	35%	35%	\$ 309,750.00					
8	Crown Road 12" Loop	Crown Road	\$	1,750,000.00	0%	50%	50%	\$ 875,000.00					
9	Bay Hill Loop	Bay Hill	\$	500,000.00	0%	15%	15%	\$ 86,250.00					
10	New 0.5 MG Elevated Tank	South of IH 20	\$	3,250,000.00	0%	50%	50%	\$ 1,875,000.00					
11	Fire Hydrant Additions	City Wide	\$	100,000.00	0%	75%	75%	\$ 75,000.00					
12	Russell Road Water Line	Russell Road	\$	600,000.00	0%	15%	15%	\$ 124,500.00					
13	Upsize Lines	City Wide	\$	1,500,000.00	85%	95%	10%	\$ 200,000.00					
14	Fee Studies		\$	35,000.00	0%	100%	100%	\$ 35,000.00					
			\$	18,950,000.00			46%	\$ 6,134,250.00					

Table 5: Cost Allocation for Proposed Capital Improvements

			· ·	Pe	rcent Ut	ilization	
CIP						2022-	Impact Fee
#	Project	Location	Cost	2022	2032	2032	Eligible
1	New WWTP	Site	\$ 14,130,000.00	75%	95%	20%	\$ 2,826,000.00
2	South of IH20 Sewer Transmission	South of IH 20	\$ 1,500,000.00	0%	25%	25%	\$ 375,000.00
3	Line Testing	City Wide	\$ 150,000.00	0%	100%	100%	\$ 150,000.00
4	Lift Station Improvements	All Lift Stations	\$ 150,000.00	0%	50%	50%	\$ 37,500.00
5	Replace Deteriorated Lines	City Wide	\$ 650,000.00	75%	85%	10%	\$ 55,000.00
6	Fee Studies		\$ 35,000.00	0%	100%	100%	\$ 35,000.00
			\$ 16,615,000.00			51%	\$ 3,526,000.00

## 5.1.1 Maximum Water Impact Fee

The impact fee for water service includes the following:

Total Water Capital Improvement Costs (all costs): \$18,950,000

Total Eligible Water Costs (new development eligible): \$6,134,250

Total Water Impact Fee Credit (50%):
 \$3,067,125

The total eligible cost associated with the proposed water system improvements necessary to meet projected growth over the next ten years is \$6,134,250. The increase in the number of service units due to growth over the next ten years is projected as 1,537 water service accounts.

Maximum Water = (Total Eligible Costs – Credit)/(10-Year Growth in Service Accounts)

Impact Fee

**With Credit** = \$6,134,250 - \$3,067,125) / (1,537 Water Service Accounts)

= \$1,995 per 5/8" Water Service Account

\$2,993 is the recommended Water Impact Fee per ¾" service unit for the City of Willow Park.

## 5.1.2 Maximum Wastewater Impact Fee

The impact fee for wastewater service includes the following:

• Total Wastewater Capital Improvement Costs (all costs): \$16,615,000

• Total Eligible Costs (new development eligible): \$3,526,000

• Total Wastewater Impact Fee Credit (50%): \$1,763,000

The total eligible cost associated with the proposed wastewater system improvements to meet projected growth over the next ten years is \$3,526,000. The increase in the number of service accounts due to growth over the next ten years is projected as 814 service accounts.

Max. Wastewater = (Total Eligible Costs – Credit)/(10-Year Growth in Accounts)

Impact Fee

**With Credit** = (\$3,478,500 - \$1,739,250) / (814 Wastewater Service Accounts)

= \$2,165 per Wastewater Service Account (5/8" Water Meter)

\$3,249 is the recommended Wastewater Impact Fee per ¾" service unit for the City of Willow Park.

	PRO	OPOSED												
Meter Size	5/8" 3/4"		3/4"	1		1-1/2"		2"		3"		4"	6"	
Equivalency Factor		1.0		1.5		2.5		5.0		8.0		15.0	25.0	50.0
Water Impact Fee	\$	1,995	\$	2,993	\$	4,988	\$	9,975	\$	15,960	\$	29,925	\$ 49,875	\$ 99,750
Wastewater Impact Fee	\$	2,165	\$	3,248	\$	5,413	\$	10,825	\$	17,320	\$	32,475	\$ 54,125	\$ 108,250
TOTAL	\$	4,160	\$	6,240	\$	10,400	\$	20,800	\$	33,280	\$	62,400	\$ 104,000	\$ 208,000

	EXISTING															
Meter Size		5/8"		3/4"		1	:	1-1/2"		2"		3"		4"		6"
Equivalency Factor		0.67		1.00		1.67		3.33		5.33		10.67		16.68		33.33
Water Impact Fee	\$	2,510	\$	3,746	\$	6,256	\$	12,475	\$	19,967	\$	39,971	\$	62,477	\$	124,857
Wastewater Impact Fee		1,948	\$	2,908	\$	4,856	\$	9,683	\$	15,499	\$	31,027	\$	48,474	\$	96,919
TOTAL	\$	4,458	\$	6,654	\$	11,112	\$	22,158	\$	35,466	\$	70,998	\$	110,951	\$	221,776

## STREET & DRAINAGE CIP

- ► STREET CIP = \$30,831,820
- ► DRAINAGE CIP = \$3,965,000

