City of Manor
Roadway Impact Fee - Revised

## Roadway impact fee background

- Roadway Impact fees are one-time fees.
- They typically are assessed at plat recordation stage of the development process
- They are typically paid at the building permit stage of the development process
- Roadway impact fees are used to recover costs associated with roadway infrastructure that will be needed to serve future development in the City
- Roadway impact fees are governed by Chapter 395 of the Texas Local Government Code;
- Impact fees were established in Texas in 1987
- Water, Wastewater, Roadway, and Drainage impact fees allowed in Texas
- Manor already has water and wastewater impact fees


## Service Units - recap

WHAT IS A SERVICE UNIT?

* FOR ROADWAY IMPACT FEES THE SERVICE UNIT IS A VEHICLE MILE, NOT LUES
* IN ORDER TO DETERMINE THE COST PER SERVICE UNIT, THE ESTIMATED GROWTH IN VEHICLE MILES IN EACH SERVICE AREA NEEDS TO BE CALCULATED FOR A TEN-YEAR PERIOD (2023-2033)
* ALL CURRENTLY DEVELOPED LAND AND ALL DEVELOPABLE LAND WILL BE CATEGORIZED AS EITHER RESIDENTIAL OR NON-RESIDENTIAL.
* NON-RESIDENTIAL WILL BE BROKEN INTO THREE (3) CATEGORIES:
* RETAIL, SERVICE, AND BASIC


## Service areas

- Currently three service areas are proposed for Manor.
- A service area is limited to a maximum six-mile trip length.
- Roadway impact fees differ from water and wastewater fees. Roadway impact fees are required to be used in the service area where the fee is assessed, whereas, for water and wastewater, those fees can be used for citywide projects.


## Vehicle miles calculations

*THE VEHICLE MILES FOR RESIDENTIAL ARE CALCULATED BY MULTIPLYING THE TDF FOR EITHER SINGLE-FAMILY OR MULTIFAMILY BY THE NUMBER OF DWELLING UNITS
*THE NON-RESIDENTIAL VEHICLE MILES WERE CALCULATED BY ESTIMATING THE SQUARE FOOTAGE OF EACH NON-RESIDENTIAL USE AND THEN MULTIPLYING THE TDF BY THE NUMBER OF THOUSAND SQUARE FEET FOR EACH LAND USE.
*THE RESIDENTIAL AND NON-RESIDENTIAL VEHICLE MILES WERE ADDED together to get a total vehicle miles for each service area.

## Vehicle miles

*the total ESTIMATED VEHICLE MILES TO BE ADDED BETWEEN 2023 AND 2033:
*SERVICE AREA $1=17,621$ MILES
*SERVICE AREA $2=11,997 \mathrm{MILES}$
*SERVICE AREA $3=13,500$
*TOTAL MILES ADDED = 43,118 (ALL 3 SERVICE AREAS)

## Manor Road Impact Fee Map



Manor Road Impact Fee Map
Subdivision Locations


Manor Road Impact Fee Map Project Locations





## Roadway impact for each service area - with thoroughfare plan projects

- The maximum impact fee allowable in each of the three service areas is calculated by dividing the Roadway Impact Fee CIP Attributable to Growth by the number of vehicle-miles in the corresponding Service Area.
- This calculation is performed for each service area individually; each service area has a stand-alone Roadway Impact Fee CIP and 10-year growth projection.


## Maximum Roadway impact fees per service area - with thoroughfare projects

- CALCULATIONS = SERVICE AREA IMPROVEMENT COSTS/NUMBER OF VEHICLE MILES ADDED
- SERVICE AREA $1=\$ 25,640,000 / 17621=\$ 1455.08$ per vehicle mile
- SERVICE AREA $2=\$ 12,405,000 / 11997=\$ 1034.01$ per vehicle mile
- SERVICE AREA $3=\$ 14,785,000 / 13500=\$ 1095.19$ per vehicle mile


## Roadway impact fees per service area- with thoroughfare plan projects - with credits

- SERVICE AREA 1- Max Impact fee: $\$ 1455.08$ per vehicle mile
- SERVICE AREA $1-50 \%$ Impact fee: $\$ 727.54$ per vehicle mile
- SERVICE AREA 1 - 75\% Impact fee: $\$ 363.77$
- SERVICE AREA 2 - Max Impact fee: $\$ 1034.01$ per vehicle mile
- SERVICE AREA 2 - 50\% Impact fee: \$517.01per vehicle mile
- SERVICE AREA 2 - 75\% Impact fee: $\$ 258.50$
- SERVICE AREA 3 - Max Impact fee: $\$ 1095.19$ per vehicle mile
- SERVICE AREA 3 - 50\% Impact fee: $\$ 547.60$ per vehicle mile
- SERVICE AREA 3-75\% Impact fee: $\$ 273.80$ per vehicle mile


## CALCULATION OF ROADWAY IMPACT FEES

- The calculation of roadway impact fees for new development involves a two-step process. Step one is the calculation of the total number of service units that will be generated by the development. Step two is the calculation of the impact fee due by the new development.

Step 1: Determine number of service units (vehicle-miles) generated by the development using the equivalency table.

| No. of Development <br> Units | $x$ | Vehicle-miles <br> per development unit | Development's <br> Vehicle-miles |
| :---: | :---: | :---: | :---: |

Step 2: Calculate the impact fee based on the fee per service unit for the service area where the development is located.

# CALCULATION EXAMPLES - with thoroughfare plan projects included in fee calculations 

- SERVICE AREA 1 HAS A MAXIMUM COST PER VEHICLE MILE OF \$1455.08

Single-Family Dwelling:
500 dwelling units $\times 4.3$ vehicle-miles/dwelling unit $=2150$ vehicle-miles 2150 vehicle-miles $x \$ 1455.08 /$ vehicle-mile $=\$ 3,128,422$

20,000 square foot (s.f.) Office Building:
20 (1,000 s.f. units) x 3.9 vehicle-miles $/ 1,000$ s.f. units $=78$ vehicle-miles
78 vehicle-miles $\times \$ 1455.08 /$ vehicle-mile $=\$ 113,496.24$

## 50\% credit of maximum fee

- SERVICE AREA 1 - 50\% FEE PER VEHICLE MILE OF \$727.54

Single-Family Dwelling:
500 dwelling units $\times 4.3$ vehicle-miles/dwelling unit $=2150$ vehicle-miles
2150 vehicle-miles $x$ \$727.54/vehicle-mile = \$1,564,211

20,000 square foot (s.f.) Office Building:
20 (1,000 s.f. units) $\times 3.9$ vehicle-miles $/ 1,000$ s.f. units $=78$ vehicle-miles 78 vehicle-miles $\times \$ 727.54 /$ vehicle-mile $=\$ 56,748.12$

## $75 \%$ credit of maximum fee

- SERVICE AREA 1 - 75\% FEE PER VEHICLE MILE OF \$363.77

Single-Family Dwelling:
500 dwelling units $\times 4.3$ vehicle-miles/dwelling unit $=2150$ vehicle-miles 2150 vehicle-miles $x \$ 363.77 /$ vehicle-mile $=\$ 782,105.50$

20,000 square foot (s.f.) Office Building:
20 (1,000 s.f. units) $\times 3.9$ vehicle-miles $/ 1,000$ s.f. units $=78$ vehicle-miles 78 vehicle-miles $\times \$ 363.77 /$ vehicle-mile $=\$ 28,374.06$

## Maximum fee

50,000 s.f. Retail Center - Maximum Fee:
50 (1,000 s.f. units) $\times 3.9$ vehicle-miles $/ 1,000$ s.f. units $=195$ vehiclemiles
195 vehicle-miles $\times \$ 1455.08 /$ vehicle-mile $=\$ 283,740.60$

100,000 s.f. Industrial Development - Maximum Fee:
100 ( 1,000 s.f. units) $\times 3.8$ vehicle-miles $/ 1,000$ s.f. units $=380$ vehiclemiles
380 vehicle-miles $\times \$ 1455.08 /$ vehicle-mile $=\$ 552,930.40$

## 50\% credit of maximum fee

## 50,000 s.f. Retail Center - $50 \%$ Fee:

50 (1,000 s.f. units) $\times 3.9$ vehicle-miles $/ 1,000$ s.f. units $=195$ vehiclemiles
195 vehicle-miles $\times \$ 727.54$ /vehicle-mile $=\$ 141,870.30$

100,000 s.f. Industrial Development - 50\% Fee:
100 ( 1,000 s.f. units) $\times 3.8$ vehicle-miles $/ 1,000$ s.f. units $=380$ vehiclemiles
380 vehicle-miles $\mathrm{x} \$ 727.54$ /vehicle-mile $=\$ 276,465.20$

## $75 \%$ credit of maximum fee

50,000 s.f. Retail Center - 75\% Fee:
50 (1,000 s.f. units) x 3.9 vehicle-miles $/ 1,000$ s.f. units $=195$ vehiclemiles
195 vehicle-miles $\times \$ 363.77$ /vehicle-mile $=\$ 70,935.15$

100,000 s.f. Industrial Development - 75\% Fee:
100 ( 1,000 s.f. units) $\times 3.8$ vehicle-miles $/ 1,000$ s.f. units $=380$ vehiclemiles
380 vehicle-miles $\times \$ 363.77 /$ vehicle-mile $=\$ 138,232.60$

## Maximum fee

- SERVICE AREA 2 - MAXIMUM COST PER VEHICLE MILE OF \$ 1034.01
- Single-Family Dwelling:

500 dwelling units $\times 4.3$ vehicle-miles/dwelling unit $=2150$ vehicle-miles 2150 vehicle-miles $x \$ 1034.01$ /vehicle-mile $=\$ 2,223,121.50$

20,000 square foot (s.f.) Office Building:
20 ( 1,000 s.f. units) $\times 3.9$ vehicle-miles $/ 1,000$ s.f. units $=78$ vehicle-miles 78 vehicle-miles $\times \$ 1034.01 /$ vehicle-mile $=\$ 80,652.78$

## 50\% credit of maximum fee

- SERVICE AREA 2 - 50\% FEE PER VEHICLE MILE OF \$517.01
- Single-Family Dwelling:

500 dwelling units $\times 4.3$ vehicle-miles/dwelling unit $=2150$ vehicle-miles 2150 vehicle-miles $x \$ 517.01 /$ vehicle-mile $=\$ 1,111,571.50$

20,000 square foot (s.f.) Office Building:
20 ( 1,000 s.f. units) x 3.9 vehicle-miles $/ 1,000$ s.f. units $=78$ vehicle-miles 78 vehicle-miles $x \$ 517.01 /$ vehicle-mile $=\$ 40,326.78$

## $75 \%$ credit of maximum fee

- SERVICE AREA 2 - 75\% FEE PER VEHICLE MILE OF \$258.50
- Single-Family Dwelling:

500 dwelling units $\times 4.3$ vehicle-miles/dwelling unit $=2150$ vehicle-miles 2150 vehicle-miles $x$ \$258.50 /vehicle-mile $=\$ 555,775.00$

20,000 square foot (s.f.) Office Building:
20 (1,000 s.f. units) x 3.9 vehicle-miles $/ 1,000$ s.f. units $=78$ vehicle-miles
78 vehicle-miles x $\$ 258.50 /$ vehicle-mile $=\$ 20,163.00$

## Maximum fee

## 50,000 s.f. Retail Center -MAXIMUM FEE:

50 (1,000 s.f. units) $\times 3.9$ vehicle-miles $/ 1,000$ s.f. units $=195$ vehiclemiles
195 vehicle-miles $\times \$ 1034.01 /$ vehicle-mile $=\$ 201,631.95$

100,000 s.f. Industrial Development - MAXIMUM FEE:
100 ( 1,000 s.f. units) $\times 3.8$ vehicle-miles $/ 1,000$ s.f. units $=380$ vehiclemiles
380 vehicle-miles $\times \$ 1034.01 /$ vehicle-mile $=\$ 392,923.80$

## 50\% credit of maximum fee

## 50,000 s.f. Retail Center - 50\% FEE:

50 (1,000 s.f. units) $\times 3.9$ vehicle-miles $/ 1,000$ s.f. units $=195$ vehiclemiles
195 vehicle-miles $\mathrm{x} \$ 517.01 /$ vehicle-mile $=\$ 100,815.98$

100,000 s.f. Industrial Development - $50 \%$ FEE:
100 ( 1,000 s.f. units) $\times 3.8$ vehicle-miles $/ 1,000$ s.f. units $=380$ vehiclemiles
380 vehicle-miles $\mathrm{x} \$ 517.01$ /vehicle-mile $=\$ 196,463.80$

## $75 \%$ credit of maximum fee

## 50,000 s.f. Retail Center - 50\% FEE:

50 (1,000 s.f. units) $\times 3.9$ vehicle-miles $/ 1,000$ s.f. units $=195$ vehiclemiles
195 vehicle-miles $\times \$ 258.50 /$ vehicle-mile $=\$ 50,407.50$

100,000 s.f. Industrial Development - 50\% FEE:
100 ( 1,000 s.f. units) $\times 3.8$ vehicle-miles $/ 1,000$ s.f. units $=380$ vehiclemiles
380 vehicle-miles $\mathrm{x} \$ 258.50 /$ vehicle-mile $=\$ 968,230.00$

## Maximum fee

- SERVICE AREA 3 HAS A MAXIMUM FEE OF \$ 1095.19
- Single-Family Dwelling:

500 dwelling units $\times 4.3$ vehicle-miles/dwelling unit $=2150$ vehicle-miles 2150 vehicle-miles $\times \$ 1095.19 /$ vehicle-mile $=\$ 2,354,658.50$

20,000 square foot (s.f.) Office Building:
20 (1,000 s.f. units) $\times 3.9$ vehicle-miles $/ 1,000$ s.f. units $=78$ vehicle-miles 78 vehicle-miles $x \$ 1095.19 /$ vehicle-mile $=\$ 85,424.82$

## 50\% credit of maximum fee

- SERVICE AREA 3 50\% FEE OF \$ 547.60
- Single-Family Dwelling:

500 dwelling units $\times 4.3$ vehicle-miles/dwelling unit $=2150$ vehicle-miles 2150 vehicle-miles x $\$ 547.60 /$ vehicle-mile $=\$ 1,177,340.00$

20,000 square foot (s.f.) Office Building:
20 ( 1,000 s.f. units) x 3.9 vehicle-miles $/ 1,000$ s.f. units $=78$ vehicle-miles 78 vehicle-miles $\mathrm{x} \$ 547.60 /$ vehicle-mile $=\$ 42,712.80$

## $75 \%$ credit of maximum fee

- SERVICE AREA 3 75\% FEE OF $\$ 273.80$
- Single-Family Dwelling:

500 dwelling units $\times 4.3$ vehicle-miles/dwelling unit $=2150$ vehicle-miles 2150 vehicle-miles $x \$ 273.80 /$ vehicle-mile $=\$ 588,670.00$

20,000 square foot (s.f.) Office Building:
20 ( 1,000 s.f. units) $\times 3.9$ vehicle-miles $/ 1,000$ s.f. units $=78$ vehicle-miles 78 vehicle-miles $\mathrm{x} \$ 273.80 /$ vehicle-mile $=\$ 21,356.40$

## Maximum fee

## 50,000 s.f. Retail Center - MAX FEE:

50 (1,000 s.f. units) x 3.9 vehicle-miles/1,000 s.f. units $=195$ vehiclemiles
195 vehicle-miles $\times \$ 1095.19 /$ vehicle-mile $=\$ 213,562.05$

100,000 s.f. Industrial Development - MAX FEE:
100 ( 1,000 s.f. units) $\times 3.8$ vehicle-miles $/ 1,000$ s.f. units $=380$ vehiclemiles
380 vehicle-miles $x \$ 1095.19 /$ vehicle-mile $=\$ 416,172.20$

## 50\% credit of maximum fee

## 50,000 s.f. Retail Center - 50\% FEE:

50 (1,000 s.f. units) $\times 3.9$ vehicle-miles $/ 1,000$ s.f. units $=195$ vehiclemiles
195 vehicle-miles $\mathrm{x} \$ 547.60 /$ vehicle-mile $=\$ 106,782.00$

100,000 s.f. Industrial Development - 50\% FEE:
100 ( 1,000 s.f. units) $\times 3.8$ vehicle-miles $/ 1,000$ s.f. units $=380$ vehiclemiles
380 vehicle-miles $\mathrm{x} \$ 547.60 /$ vehicle-mile $=\$ 208,088.00$

## $75 \%$ credit of maximum fee

## 50,000 s.f. Retail Center - 75\% FEE:

50 (1,000 s.f. units) $\times 3.9$ vehicle-miles $/ 1,000$ s.f. units $=195$ vehiclemiles
195 vehicle-miles $x \$ 273.80 /$ vehicle-mile $=\$ 53,391.00$

100,000 s.f. Industrial Development - 75\% FEE:
100 ( 1,000 s.f. units) $\times 3.8$ vehicle-miles $/ 1,000$ s.f. units $=380$ vehiclemiles
380 vehicle-miles $\times \$ 273.80 /$ vehicle-mile $=\$ 104,044.00$

