

MEMORANDUM

TO: Frank Salvato, City Manager

FROM: Bob van Til, AICP
Director of Community Development

RE: Current Impact Fee Capital Improvements Information

DATE: October 5, 2004

The purpose of this memorandum is to transmit to you and the City Council the requested capital improvements identified in the current impact fee ordinance.

The City Council requested this information during the last Council meeting. The attached spreadsheets identify expected improvements and associated costs.

Adding the column "capital cost total" will add up to the \$5.5 million identified in the semi-annual impact fee report. That amount is a result of multiplying the "construction cost" by the ratio in the "excess <10 years" column.

Please let me know if you have any questions by contacting me at 352-5990 or via email at bob.vantil@ci.taylor.tx.us

CIP INVENTORY AND COSTING
WATER UTILITY

FACILITY TYPE / NAME	CONSTRUCTION COST	FACILITY CAPACITY				2000-2010	
		TOTAL	FOR CURRENT CUSTOMERS	EXCESS < 10 YEARS	EXCESS > 10 YEARS	CAPITAL COST TOTAL	COST PER LINE (M)
WATER TREATMENT AND SUPPLY							
EXISTING FACILITIES							
Raw Water Pump Station	\$393,039	6,000	3,900	0.972	1,128	\$63,672	
Lake Granger Water Treatment Plant	\$4,293,169	4,872	3,900	0.972	0,000	\$856,519	
<i>Subtotal Existing Treatment</i>	\$4,686,208	4,872	3,900	0.972	0,000	\$920,191	
FUTURE FACILITIES							
Lake Grange Water Treatment Plant Expansion	\$4,180,000	2,000	0,000	0.547	1,453	\$1,137,837	
<i>Subtotal Future Treatment</i>	\$4,180,000	2,000	0,000	0.547	1,453	\$1,137,837	
TOTAL WATER TREATMENT	\$8,846,208	6,872	3,900	2.1% 1.519	1,453	\$2,058,028	\$878.76
GROUND STORAGE							
EXISTING FACILITIES							
Ford Ground Storage	\$53,851	1,000 MG					
Southwood Hills Ground Storage	\$249,522	0,250					
<i>Subtotal Existing Facilities</i>	\$303,373	1,250	1,024	0.226	0,000	\$54,873	
FUTURE FACILITIES							
<i>Subtotal Future Facilities</i>	\$0	0,000	0,000	0,000	0,000		
TOTAL GROUND STORAGE	\$303,373	1,250	1,024	0.226	0,000	\$54,873	\$23.46

CIP INVENTORY AND COSTING
WATER UTILITY

FACILITY TYPE / NAME	CONSTRUCTION COST	FACILITY CAPACITY				CAPITAL COST TOTAL	2000-2010 COST PER LIE (\$)
		TOTAL	FOR CURRENT CUSTOMERS	EXCESS < 10 YEARS	EXCESS > 10 YEARS		
ELEVATED STORAGE							
EXISTING FACILITIES							
Murphy Park Tank - Being removed from service							
Mallard Lane Tank	\$82,010	0.500					
Southwood Hills Tank	\$249,522	0.250					
		<u>MG</u>					
Subtotal Existing Facilities	\$331,532	0.750	0.731	0.019	0.000	\$8,239	
FUTURE FACILITIES							
* Loop 427 and FM 973 Tank	\$1,469,000	1.000	0.000	0.439	0.561		
Subtotal Future Facilities	\$1,469,000	1.000	0.000	0.439	0.561	\$044,796	
TOTAL ELEVATED STORAGE	\$1,800,532	1.750	0.731	0.458	0.561	\$653,035	\$279.16
MAJOR TRANSMISSION LINES							
EXISTING FACILITIES							
Existing Lines	\$1,104,465	100%	35%	15%	50%	\$165,670	
Treated Water Line from Lake Granger WTP	\$2,600,000	100%	32%	8%	59%	\$210,600	
Subtotal Existing Facilities	\$3,704,465	100%				\$376,270	

CIP INVENTORY AND COSTING
WATER UTILITY



FACILITY TYPE / NAME	CONSTRUCTION COST	FACILITY CAPACITY			CAPITAL COST TOTAL	COST PER LUE (¢)
		TOTAL	FOR CURRENT CUSTOMERS	EXCESS < 10 YEARS		
FUTURE FACILITIES						
FM 397 Transmission Main Phase 2	\$1,750,385	100%	0%	43%	\$752,666	
Loop 427 24" Transmission Main	\$560,996	100%	0%	43%	\$241,228	
PRV's for Pressure Plane Delineators	\$175,500	100%	50%	23%	\$40,152	
West 2nd Street Waterline Improvements	\$779,779	100%	100%	0%	\$0	
Symes Street Waterline Improvements	\$313,779	100%	5%	41%	\$128,179	
<i>Subtotal Future Facilities</i>	<i>\$3,580,439</i>	<i>100%</i>	<i>25%</i>	<i>32%</i>	<i>\$1,162,225</i>	
TOTAL TRANSMISSION LINES						
	\$7,284,904	100%			\$1,538,494	\$657.87
TOTALS	\$18,235,017				\$4,304,431	\$1,040.04

(a) Assumes the following gals to LUE conversion factors :

Treatment:	649 gals daily
Total Storage:	292 gals
Elevated Storage:	122 gals

Sources: Rust Lichtler/Jameson; Earth Techn; City Staff.

CIP INVENTORY AND COSTING
WASTEWATER UTILITY

FACILITY TYPE / NAME	CONSTRUCTION COST	FACILITY CAPACITY				CAPITAL COST TOTAL	COST PER LUE
		TOTAL	FOR CURRENT CUSTOMERS	EXCESS < 10 YEARS	EXCESS > 10 YEARS		
2000-2010							
MAJOR COLLECTION LINES							
EXISTING FACILITIES (c)							
Existing Lines and Manholes	\$1,019,007	%	100.00%	70.00%	10.00%	20.00%	\$101,901
<i>Subtotal Existing Facilities</i>	<i>\$1,019,007</i>		<i>100.00%</i>	<i>70.00%</i>	<i>10.00%</i>	<i>20.00%</i>	<i>\$101,901</i>
FUTURE FACILITIES							
Mustang Creek Interceptor Phase I	\$1,407,770	%	100.00%	44.00%	24.08%	31.92%	\$338,991
Mustang Creek Interceptor Phase II	\$590,980		100.00%	21.00%	33.97%	45.03%	\$200,756
South Doak Street Interceptor	\$397,241		100.00%	89.00%	4.73%	6.27%	\$18,789
Bull Branch Interceptor Phase I	\$1,189,812		100.00%	75.00%	10.75%	14.25%	\$127,905
Mustang Creek Interceptor Phase III	\$514,969		100.00%	0.00%	43.00%	57.00%	\$221,437
Sloan Street Interceptor	\$267,124		100.00%	48.00%	22.36%	29.64%	\$59,729
Bull Branch Interceptor Phase II	\$673,985		100.00%	34.00%	28.38%	37.62%	\$191,277
CBD Wastewater Line Replacement	\$82,264		100.00%	100.00%	0.00%	0.00%	\$0
<i>Subtotal Future Facilities</i>	<i>\$5,124,145</i>		<i>100.00%</i>				<i>\$1,158,884</i>
TOTAL TRANSMISSION LINES	\$5,124,145		200.00%	70.00%	10.00%	20.00%	\$1,260,784
WASTEWATER CONSTRUCTION COST TOTAL	\$5,124,145						\$1,260,784
							\$338,95

Fee-payers requiring construction of additional new lift stations will also be assessed cost of their prorata share of the facilities.
Sources: Rust, Lichtler/Jameson; Earth Tech; City Staff.