APPROVAL Slw	REQUEST FOR COMMON COUNCIL ACTION	MEETING DATE Nov 7, 2017
REPORTS & RECOMMENDATIONS	An Ordinance to amend Ordinance 2016-2240 adopting the 2017 annual budgets for the City of Franklin for the General, Solid Waste, Capital Outlay, Capital Improvement, and TID 3 Funds for the City of Franklin to provide additional personnel service appropriations for overtime, employee benefits and reclassifying contingency appropriations to Police Safety equipment purchases and to carryforward Street lighting appropriations from 2016 into 2017.	ITEM NUMBER

Background

During the preparation of the 2018 Mayor's Recommended Budget, estimates of 2017 Forecasted activity was compared to the 2017 Original Budget. In that process, several departments are expected to exceed their 2018 appropriations for various reasons. This analysis indicates total 2017 Personnel costs are expected to be \$140,000 favorable to plan (before a Retiree Healthcare/OPEB impact discussed below). However, there are certain depts that will exceed budget for various reasons.

An under expenditure budget is an attempt to estimate the vacancy value for the year. That estimate for 2017 was \$455,820. It's likely that little of the under expenditure estimate will come from personnel vacancies once the Retiree Healthcare cost (noted below) is considered; nearly all of that will need to come from other appropriations.

A preliminary biennial Retiree Healthcare actuarial report has increased the 2017 Actuarially Determined Contribution (ADC) which gets charged out by Dept. The increased Retiree Healthcare cost for all Funds is \$142,300 greater than the 2017 budget appropriations. Public Safety and Public Works have the largest number of participants and the longest benefit period, which then accounts for the bulk of the ADC. This larger than expected ADC results in additional appropriation requirements.

Clerk's Office- a change in health insurance election between 2016 and 2017 resulted in additional employer health costs. The Clerk's office is now anticipated to exceed the 2017 personnel services appropriations.

Finance Dept –temporary help (used to collect the tax roll) was inadvertently left out of the 2017 budget. There have been no vacancies within this staff to provide these appropriations.

Police Dept – the increased Retiree Healthcare cost will need additional appropriations.

Fire Dept – Overtime costs and increased Retiree Healthcare costs require additional appropriations. We continue to monitor overtime costs. At this time, a budget amendment is recommended to address identified issues.

Health Dept – The Health Director is using additional overtime to provide services. The added overtime will be paid for by Health Grants. Staff recommends adding \$5,000 in revenues and \$5,000 in personnel services.

Solid Waste fund – the use of overtime rather than straight time and additional Retiree Healthcare costs require additional appropriations.

<u>Analysis</u>

Individual dept analysis follows with estimates of the impact:

	Orig Bud	Forecast	difference
Clerk			
w/o health	269,408	264,080	(5,328)
health	32,629	47,023	14,394
total budget	302,037	311,103	9,066
Finance			
w/o Temp help	416,896	414,865	(2,031)
Temp Help		4,810	4,810
Total-Budget	416,896	419,675	2,779
Police			
w/o OPEB	7,086,330	7,066,652	(19,678)
OPEB	178,719	224,224	45,505
total budget	7,265,049	7,2790,876	25,827
Fire			
w/o OPEB/OT	5,322,424	5,311,695	(10,729)
Overtime	190,500	255,000	64,500
OPEB	127,908	160,183	32,275
total budget	5,640,832	5,726,878	86,046
Solid Waste			
w/o OPEB/OT	11,872	6,348	(5,524)
Overtime	1,199	14,828	13,629
OPEB	144	218	74
total budget	13,215	21,394	8,179

Staff recommends these adjustments come from Restricted Contingency.

Other General Fund Expenditure issues:

Health Supplies for vaccines are more expensive in 2017 than anticipated. The Health Dept is charging more for flu shots to compensate and will have greater revenues. The Health Director expects Clinic Service revenues to be \$6,000 greater than previously estimated and supplies to require a similar amount to pay for needed vaccine.

Recommended adjustment:

Clinic Service Revenues 6,000 increase Health Supplies 6,000 increase

The Common Council approved a \$33,138 purchase of safety equipment using the General Fund Contingency appropriation (Sept 5, 2017 – G6). This capital purchase more appropriately belongs in the Capital Outlay fund. A recommended budget amendment would transfer \$33,138 from General Fund to the Capital Outlay Fund and then create a \$33,138 safety equipment appropriation for Police. By recording the transaction as such, additional transportation aids become available to the City.

Recommended Entry:

General Fund

Transfers Out 33,138 increase
Contingency (33,138) decrease

Capital Outlay

Transfers in 33,138 increase Police Safety Equip 33,138 increase

The Municipal Judge requires additional appropriations for prisoner boarding. Thru Sept these costs have exceeded the annual appropriation by \$5,683. In the fourth quarter 2015 & 2016, these costs were \$20,115 and \$19,229, respectively. An Additional appropriation of \$27,700 (\$22,000 plus \$5,700) is recommended at this time. [Please note the Finance Committee did not review the prisoner boarding costs.]

Recommended Entry:

General Fund

Municipal Court – non-personnel 27,700 increase Contingency 27,700 decrease

The 2016 Capital Improvement Fund included a \$310,000 appropriation for street lights on S 27th Street, which were to be Specially Assessed to benefiting property owners. The work was not completed until June, 2017, at which time the Special Assessment billings totaling \$113,516 were sent. The vendor, the Wisconsin Dept of Transportation, has not yet billed for the project; however, the City is now liable for the work performed. The entire 27th Street project is a TID 3 project, except for that portion which is funded by Special Assessments. The 2016 Capital Improvement Fund appropriation was not encumbered at Dec 31, 2016, and expired at that time. A new appropriation is needed in 2017 from fund balance to fund the specially assessed portion of the project.

Staff is recommending the following Budget amendments:

In Capital Improvement Fund

Transfers Out to Fd 48 \$113,516 increase

In TID 3 -

\$113,516 increase Transfers In

Capital – Street Lights 113,516 increase

Recommendation

The Finance Committee reviewed this budget amendment and recommended adoption subject to corrections from the final Retiree Healthcare Actuarial report. Those corrections have now been included.

COMMON COUNICL ACTION REQUESTED

Motion adopting An Ordinance to amend Ordinance 2016-2240 adopting the 2017 annual budgets for the City of Franklin for the General, Solid Waste, Capital Outlay, Capital Improvement, and TID 3 Funds for the City of Franklin to provide additional personnel service appropriations for overtime, employee benefits and reclassifying contingency appropriations to Police Safety equipment purchases and to carryforward Street lighting appropriations from 2016 into 2017

Roll call vote required

STATE OF WISCONSIN: CITY OF FRANKLIN: MILWAUKEE COUNTY

ORDINANCE NO.	2017
	- 01,

AN ORDINANCE TO AMEND ORDINANCE 2016-2240, ADOPTING THE 2017 ANNUAL BUDGETS FOR GENERAL, SOLID WASTE, CAPITAL OUTLAY, CAPITAL IMPROVEMENT AND TID3 FUNDS FOR THE CITY OF FRANKLIN TO PROVIDE APPROPRIATIONS FOR ADDITIONAL PERSONNEL SERVICE APPROPRIATIONS FOR OVERTIME, EMPLOYEE BENEFITS AND RECLASSIFYING CONTINGENCY APPROPRIATIONS TO POLICE SAFETY EQUIPMENT PURCHASES AND TO CARRY FORWARD STREET LIGHTING APPROPRIATIONS FROM 2016 TO 2017

WHEREAS, the Common Council adopted the 2017 Budget for the City of Franklin providing resources and appropriations for 2017; and

WHEREAS, the overtime in the Fire Department has been required to properly staff positions to protect the public; and

WHEREAS, employee elections for certain 2017 health plans was more expensive than planned; and

WHEREAS, the retiree health plan costs are greater than expected related to an updated biennial actuarial report, and

WHEREAS, vaccine supplies have increased in price but remain an excellent safeguard against communicable disease, and

WHEREAS, the Common Council approved the purchase of Police safety equipment using General Fund contingency appropriations that are more appropriately classified as Public Safety purchases in the Capital Outlay Fund; and

WHEREAS, prisoner boarding costs are expected to exceed the annual appropriation related to public safety issues, and

WHEREAS, the 2016 appropriations for Street Lighting equipment purchases in the Capital Improvement Fund expired unencumbered at December 31, 2016 yet the project was completed in June 2017 subsequently special assessed to the benefited property owners; and

WHEREAS, the Common Council of the City of Franklin believes these expenditures provide for the well being of the Community.

NOW, THEREFORE, the Common Council of the City of Franklin does hereby ordain as follows:

Section 1 That the 2017 Budget of Fund be adjusted as follows:

Revenues Clinic Service Revenues Increased 11,000
Clerk Personnel Services Increased 14,500
Municipal Court Non-Personnel Services Increase 27,700

	Finance	Personnel Services	Increased	5,000
	Police	Personnel Services	Increased	45,500
	Fire	Personnel Services	Increased	97,000
	Health	Personnel Services	Increased	5,000
	Health	Non-Personnel Services	Increased	6,000
	Other	Restricted Contingency	Decreased	189,700
	Transfers Ou	t	Increased	33,138
	Other	Unrestricted Contingency	Decreased	33,138
Section 2	That the 201	7 Solid Waste Fund Budget b	e adjusted as fo	llows:
	Personnel Se	rvices	Increased	15,000
Section 3	That the 201	7 Capital Improvement Fund	Budget be adju	sted as follows:
	Transfers Ou	t	Increased	113,516
Section 4	That the 201	7 Capital Outlay Fund Budge	t be adjusted as	follows:
	Transfers In		Increased	33,138
	Police	Safety Equipment	Increased	33,138
Section 5	That the 201	7 TID3 Budget be adjusted as	s follows:	
	Transfers In		Increased	113,516
	Highway	Street Lights	Increased	113,516
Section 6	Pursuant to \{ 1 notice of the	\$65.90(5)(a), Wis. Stats., the his budget amendment within	City Clerk is di ten days of ado	rected to publish a Class ption of this ordinance.
	ed and adopted lay of	at a regular meeting of the C, 2017.	Common Counc	il of the City of Franklin
		APPROVE	D:	
		Stonban D (Olson, Mayor	
ATTEST:		Stephen K (zison, mayor	
		GL I		
Sandra L. V	Vesolowski, City	/ Clerk		
AYES	NOESABS	ENT		

APPROVAL Slw	REQUEST FOR COUNCIL ACTION	MEETING DATE Nov 7, 2017
REPORTS &	September, 2017 Monthly Financial Report	ITEM NUMBER
RECOMMENDATIONS	<u> </u>	G.16.

Background

The September, 2017 Financial Report is attached.

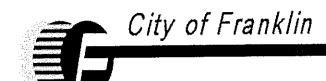
The Finance Committee has reviewed the report at its Oct 24, 2017 meeting and unanimously recommends acceptance.

Highlights of the report are contained in the transmittal memo.

The Finance Director will be on hand to answer any questions.

COUNCIL ACTION REQUESTED

Motion to Receive and place on file



Date:

Oct 17, 2017

To:

Mayor Olson, Common Council and Finance Committee Members

From:

Paul Rotzenberg, Director of Finance & Treasurer

Subject:

Nine months ended Sept 2017 Financial Report

The September, 2017 financial reports for the General Fund, Debt Service Fund, TID3, TID4, TID5, Library, Solid Waste Fund, Capital Outlay Fund, Equipment Replacement Fund, Street Improvement Fund, Capital Improvement Fund, Development Fund, Utility Development, Sanitary Sewer, Water Utility, Self Insurance Fund, Employee Retirement Insurance Fund and Minor Funds are attached.

The budget allocation is completed using an average of the last five years actual spending. Caution is advised in that spending patterns may have changed. Comments on specific and trending results are provided below to aid in understanding or explaining current year financial results. Budget allocations are based upon the amended budget.

A Cash & Investments Summary – identifies the resources available to meet current activities. Cash & investments are positions with safety and liquidity as primary objectives as stated in the City's Investment policy. Investment returns are secondary in the investment decisions, while return potential is not ignored.

Cash & Investments in the General Governmental Funds decreased \$1,931,452 in the last month. With the last of the tax settlements in August, the bulk of the resources are now recorded, and payroll and operating costs use those resources.

The Other Funds decreased \$285,650 reflecting the payroll costs in the utility funds with few collections of service billings in Sept.

GENERAL FUND revenues of \$21,683,851 are \$282,934 (1.3%) less than budget, principally due to the lack of Building Permit revenues.

Comments on specific types of revenues follow:

 Building permit revenues of \$378,787 are \$295,215 behind budget (56% of budget). A \$44,000 permit was pulled in May for a new development in the business park. The slow level of new development impacts several funds, as noted later.

- \$102,710 of Landfill Siting Revenues have been credited to the General Fund, representing 76% of budget. Total Landfill siting revenues across all funds are \$594,528 representing 81% of budget, which is behind pace for the year.
- All of the permitted 2017 Room taxes have been collected in the General Fund. The Tourism Commission is now receiving the remaining revenues.

Total Expenditures of \$18,844,188 are \$167,406 under spent. General Government has underspent by \$150,316 thru September. Public Works is also underspent by \$138,846 on reduced Labor costs due to vacancies. Several of the other Activities are overspent, primarily due to one additional payroll in September. As the fourth quarter moves along, this unfavorable budget performance will move back to budget.

- General Government expenditures of \$2,273,098 are \$150,316 under spent. Court
 prisoner boarding costs are currently over budget, having exceeded the annual budget.
 Information Systems is spending slower than budget by \$48,084, delayed Assessing
 service billings accounts for \$46,500. These costs are expected to occur by year's end.
 Administration is underspent by \$40,775, with postage and labor attorney having the
 greatest underspending.
- Public Safety costs of \$12,622,247, is \$87,943 over spent. Three payrolls in Sept has pushed labor costs over budget, but will mostly even out as Q4 moves along. Police overtime may become an issue with current spending patterns. Overtime in the Fire Dept continues to plague spending (\$263,920 176% of budget). There have been vacancies in Dispatch (\$64,144). Fire plan reviews \$16,520 are only 38% of budget.
- Public Works expenditures of \$2,984,961 are \$138,846 underspent. The biggest savings are on fuel and vehicle maintenance. Q4 can change this picture with unfavorable weather conditions.
- Summer work is temporarily pushing Parks labor costs over budget (\$14,850)

A \$2,839,663 surplus is \$115,528 greater than budget. The majority of revenues have been received for the year, while 25% of the expenditures are yet to occur. This will eliminate the current surplus and generate a deficit by year's end.

A \$1.492 million deficit was budgeted (consisting primarily of a \$500,000 contingency, a one-time \$680,000 contribution to the Defined Benefit Retirement plan,\$103,000 of expected retirement costs, and \$80,000 of tax refunds). The deficit will be less than the budgeted deficit to the extent that Building Permit revenues meet the budget and the \$500,000 Restricted Contingency is not required.

The Finance Committee is considering some budget amendments in the personnel categories and for selected areas at its October 24, 2017 meeting.

DEBT SERVICE – Debt payments were made March 1 and Sept 1 as required with no budget issues.

TID Funds – TID 3 has unresolved commitments on the S 27th Street reconstruction project, but otherwise is on budget. The Dept. of Transportation implemented a new billing system, which is delaying billings on projects, with the S 27th Street project impacting Franklin.

TID 3 will have a \$5 million borrowing in Dec 2017 to fund an expected developer's agreement.

The TID 4 budget was amended to provide for a developer's incentive. That program is awaiting a finalized developer's agreement.

TID 4 is scheduling the sale of \$10 million of Anticipation notes in December 2017 for an infrastructure project in 2018.

TID 5 is substantially inactive until the Ball Park Commons developer's agreement is concluded.

TID 5 is scheduled to have a \$18.6 million Anticipation Note in December 2017 for expected 2018 project costs.

LIBRARY FUND – Library fund revenues are on budget. While Service costs are over budget, most expenditure lines are within budget thru Sept.

SOLID WASTE FUND - Activity is occurring as budgeted.

CAPITAL OUTLAY FUND – revenues are in line with budget, with landfill siting revenues running slower than the budget anticipated.

General Government expenditures relate to the Information Technology programs. Public Safety purchases relate to the 2017 patrol cars, (2) K-9 units, Tasers, safety equipment, (11) Police desktop PC's and the Fire Dept Zoll defibrillator unit and four turnout gear sets. Public Works has purchased \$24,223 of trees.

The \$26,950 transfer out is the reclassification of an IT expenditure that was originally budgeted as a software purchase but re-characterized as professional services in the General Fund.

EQUIPMENT REPLACEMENT FUND — Revenues are in line with budget.

The 2017 ambulance and two Jeep vehicles in Inspection are the Public Safety expenditures. In Public Works, the snow blower has arrived, the snow plow and self propelled paver are nearly complete.

STREET IMPROVEMENT FUND – Revenues are in line with budget.

The 2017 street improvement program contract is nearly complete. The portion of the program related to W St Martin's Road and the bridge replacement are yet to be completed.

CAPITAL IMPROVEMENT FUND – Few resources to this fund have been received as yet. The Common Council adopted a \$42.7 million debt offering for Q4, which will fund the launch of the TID 5 programs and several 2018 City projects. Refund revenues relate to insurance proceeds on the HVAC equipment struck by lightning at the Police Station.

Expenditure wise, projects are in various state of completion:

The General Government project is the Health Wing remodeling - \$39,123 spent to date.

Public Safety is completing the 2016 Communications Center project. The Emergency Vehicle Pre-emption system 2016 project is also in the completion stage. Lightning struck the Police HVAC equipment, which has been replaced.

Within Public Works \$75,714 has been spent on the 2016 Emergency Vehicle Pre-emption system related to traffic signals, and part of the St. Martin's Road/Tess Corners bridge project (\$592,245) has been completed, and the City's share of the St Martin's Road reconstruction County project (\$139,155).

Very little has been spent on 2017 Park projects. An \$18,210 engineering purchase order is outstanding on the River Park trail project.

None of the Ball Park Commons projects have been approved as yet.

DEVELOPMENT FUND – Impact fee collections are smaller than expected on reduced development activity. Impact fee collections are less than half (39%) of what was expected to this point in the year.

Most of the \$4 million fund balance relates to Park Impact fees - \$3.3 million and Water Impact fees of \$635,000. The Park Impact fee holding period is on extension until 2019. Significant park expenditures are needed to utilize the Park Impact fees collected, or they must be rebated to property owners.

Transfers to the Debt Service Fund totaled \$113,997 thru Sept. This represents only 31% of budget. Future Debt Service tax levy will have to further supplement the lack of impact fee collections. Receipts are not sufficient to pay debt service for these programs.

UTILITY DEVELOPMENT FUND – Activity is infrequent in this fund. No projects have materialized in 2017.

Sanitary Sewer Fund – revenues are less than budget as the expected rate increase was less than budget. Expenditures of \$2,378,119 are less than budget, with operating margin of \$110,372, slightly less than budget.

The Sanitary Sewer Fund has generated slightly more cash than in 2016 at this time and appears to be adequately funded for operating requirements.

Water Utility Fund – revenues are \$171,159 less than budget with the cooler than normal summer and lower water usage.

Operating expenditures are in line with budget except for Administrative costs, which include the professional fees contesting the water supplier's construction case with the PSC.

The \$386,215 of operating margin is considerably more than 2016 and slightly behind budget. The rate increase granted by the PSC in June 2016, is one of the principal factors. The water loss reduction effort in 2016 and early 2017 has really improved operating results.

SELF INSURANCE FUND – Revenues are 95% of budget. The 2017 revenue budget was not adjusted when the Council reduced health premium cost in the General Fund. As a result, revenues are 5% below budget.

Claims costs are rather strong so far in 2017, not unlike 2016. The budget includes a \$591,500 contingency for excess claims before Aggregate insurance coverage becomes available. 2017 looks to require much of that contingency. Monitoring of the Stop Loss coverage is more difficult now that the Stop Loss carrier is separated from the claims processor. Currently, there are no expected recoveries from the Stop Loss policy.

Results thru September reflect a \$513,785 deficit, about what was expected (including the contingency) but worse than the prior year. Current fund performance is eating up more of the \$2.7 million beginning of the year fund balance.

RETIREE HEALTH FUND – Plan resources are keeping up with plan costs. That will not always be the case. Eventually, the Actuarially Determined Contribution will not be sufficient to cover plan costs, and fund balance will be required to finance plan costs.

The fund is incurring an implicit rate subsidy (the amount that retiree health costs exceed active employee health costs) totaling \$38,865.

Positive investment results are healthy following market returns so far in 2017 (\$482,484 favorable, compared to \$296,603 in 2016). The fund is invested in passive index investments and will mirror market returns for the mix of investment classes used in the fund. The Finance committee is provided regular portfolio performance updates.

Caution is advised, as equity market returns can be volatile, and current positive gains will be reduced or temporarily lost due to market gyrations.

City of Franklin Cash & Investments Summary September 30, 2017

		Cash		American Deposit anagement	Institutional Capital Management	Local Government Invest Pool	•	delity stments	Total	Aug Total
General Fund	\$	(298,082)	\$	2,941,479	\$ 5,532,204	\$ 3,109,942	\$	-	\$11,285,544	\$ 12,961,951
Debt Service Funds		9,222		113,087	515,721	-		-	638,030	616,479
TIF Districts		49,729		2,985,436	1,229,895	-		-	4,265,060	4,275,057
Nonmajor Governmental Funds		669,896		4,173,138	9,010,719	-	ú	-	13,853,753	14,120,353
Total Governmental Funds		430,765		10,213,140	 16,288,539	3,109,942			30,042,388	31,973,840
Sewer Fund		404,750		351,176	731,913	-		-	1,487,839	1,605,763
Water Utility		72,712		1,548,229	-	-		-	1,620,942	1,887,546
Self Insurance Fund		(10,673)	_	50,518	2,151,547	-		-	2,191,392	2,209,024
Retiree Health Fund		(17,175)		-	-	_	5	450,119	5,432,944	5,331,435
Property Tax Fund		34,031		545	-	***		-	34,576	22,603
Other Trust Funds		12,470		-	-	-		-	12,470	9,441
Total Other Funds		496,115		1,950,468	 2,883,460	 _	5	450,119	10,780,162	11,065,812
Grand Total Cash & Investments		926,880		12,163,608	19,171,999	 3,109,942	5	450,119	40,822,549	43,039,652
Average Rate of Return				1.02%	1.34%	1.03%				
Maturities: Demand Fixed Income & Equities 2017 - Q4 2018 - Q1 2018 - Q2 2018 - Q3 2018 - Q4 2019 2020 2021 2022 2023 2024 2025		926,880		11,163,608 - - - 1,000,000 - - - - -	32,837 3,992,035 1,089,619 1,009,698 2,025,314 2,979,147 5,509,462 980,398 1,553,491	3,109,942		57,621 960,257 - 171,309 150,449 174,356 177,350 173,016 176,819 204,229 204,713	15,290,889 3,960,257 3,992,035 1,089,619 2,009,698 2,196,623 3,129,596 5,683,818 1,157,748 1,726,507 176,819 204,229 204,713	17,536,051 3,863,288 2,999,487 1,089,844 2,010,646 2,201,406 4,129,833 5,713,584 1,164,915 1,741,946 177,520 204,873 206,258
	_	926,880		12,163,608	 19,171,999	 3,109,942	5	450,119	40,822,549	43,039,652

City of Franklin General Fund Comparative Statement of Revenue, Expenses and Fund Balance For the 9 months ended September 30, 2017

Revenue	2017 Original Budget	2017 Amended Budget	2017 Year-to-Date Budget	2017 Year-to-Date Actual	Var to Budget Surplus (Deficiency)
Property Taxes Other Taxes Intergovernmental Revenue Licenses & Permits Law and Ordinance Violations Public Charges for Services Intergovernmental Charges Investment Income Sale of Capital Assets Miscellanous Revenue Transfers from Other Funds	\$ 16,423,500 726,958 2,237,400 1,051,865 500,000 1,753,250 203,200 220,000	2,237,400 1,051,865 500,000 1,753,250 203,200 220,000	\$ 16,371,019 387,085 1,521,996 852,225 397,536 1,235,123 94,399 165,000 - 111,767 830,635	\$ 16,415,435 432,343 1,516,291 570,603 379,232 1,159,026 104,729 158,591 925 132,226 814,450	\$ 44,416 45,258 (5,705) (281,622) (18,304) (76,097) 10,330 (6,409) 925 20,459 (16,185)
Total Revenue	\$ 24,291,823	\$ 24,318,773	\$ 21,966,785	\$ 21,683,851 98.71%	\$ (282,934)
Expenditures	2017 Original Budget	2017 Amended Budget	2017 Year-to-Date Budget	2017 Year-to-Date Actual	Var to Budget Surplus (Deficiency)
General Government Public Safety Public Works Health & Human Services Culture & Recreation Conservation and Development Contingency & Unclassified Anticipated Underexpenditures Transfers to Other Funds Encumbrances	\$ 3,063,257 16,768,325 4,196,359 684,797 172,218 623,677 707,500 (455,820 24,000	16,773,897 4,239,523 684,797 179,454 631,177 707,750) (455,820)	A 12,534,304 A 3,123,807 514,572 A 130,804 A 441,975	\$ 2,273,098 12,622,247 2,984,961 525,938 142,106 419,640 54,651 24,000 (202,453)	(11,366) E (11,302) E 22,335 (33,480)
Total Expenditures	\$ 25,784,313	\$ 25,874,985	\$ 19,214,047	\$ 18,844,188 98.08%	\$ 167,406
Excess of revenue over (under) expenditures	(1,492,490) (1,556,212)	2,752,738	2,839,663	\$ (115,528)
Fund Balance, beginning of year	7,690,684	7,690,684		7,690,684	-
Fund Balance, end of period	\$ 6,198,194	\$ 6,134,472		\$ 10,530,347	:

A Represents an amendment to Adopted Budget

E Represents an ecumbrance for current year from prior year

City of Franklin General Fund Comparative Statement of Revenue For the 9 months ended September 30, 2017

Revenue	2017 Original Budget	,	2017 Amended Budget	Ye	2017 ear-to-Date Budget	_ Y	2017 ear-to-Date Actual	S	to Budget urplus ficiency)
Property Taxes	\$ 16,423,500	\$	16,423,500	_\$_	16,371,019	\$	16,415,435	\$	44,416
Other Taxes:									(10.010)
Cable television franchise fees	530,000		530,000		283,391		242,778		(40,613)
Mobile Home	22,600		22,600		16,950		15,207		(1,743)
Room tax	 174,358		174,358		86,744		174,358		87,614
Total Other taxes	 726,958		726,958		387,085		432,343		45,258
Intergovernmental Revenue:									
State shared revenue	403,400		403,400		69,276		72,424		3,148
Expenditure restraint revenue	207,900		207,900	1	207,537		207,922		385
State computer aid	220,600		220,600		220,600		219,437		(1,163)
State transportation aids	1,100,000		1,100,000		825,000		820,004		(4,996)
Fire insurance dues	141,500		141,500		141,500		153,400		11,900
Other grants	164,000		164,000		58,083		43,104		(14,979)
Total Intergovernmental Revenue	 2,237,400		2,237,400		1,521,996		1,516,291		(5,705)
Licenses & Permits:									
Licenses	148,300		148,300		141,867		149,136		7,269
Permits	903,565		903,565		710,358		421, 4 67		(288,891)
	 1,051,865		1,051,865		852,225		570,603		(281,622)
Law & Ordinance Violations:									
Fines, Forfeitures & Penalties	 500,000		500,000		397,536		379,232	-	(18,304)
Public Charges for Services:									
Planning Related Fees	64,000		64,000		47,940		65,825		17,885
General Government	8,950		8,950		6,742		8,331		1,589
Architectural Board Review	5,500		5,500		4,408		3,685		(723)
Police & Related	7,500		7,500		4,722		2,969		(1,753)
Ambulance Services - ALS	716,000		716,000		542,362		609,158		66,796
Ambulance Services - BLS	425,000		425,000		321,954		223,383		(98,571)
Fire Safety Training	1,000		1,000		545		243		(302)
Fire Sprinkler Plan Review	60,000		60,000		42,885		23,765		(19,120)
Fire Inspections	20,000		20,000		13,586		15,124		1,538
Quarry Reimbursement	43,300		43,300		25,882		24,300		(1,582)
Weed Cutting	12,000		12,000		5,825		5,010		(815)
Engineering Fees	11,250		11,250		8,623		10,306		1,683
Public Works Fees	25,000		25,000		9,004		12,894		3,890
Weights & Measures	8,000		8,000		2,477		20		(2,457)
Landfill Operations - Siting	180,000		180,000		135,000		102,710		(32,290)
Landfill Operations - Emerald Park	75,000		75,000		50,801		42,649		(8,152)
Health Department	 90,750		90,750		12,367		8,654		(3,713)
Total Public Charges for Services	\$ 1,753,250	\$	1,753,250	\$	1,235,123	\$	1,159,026	_\$	(76,097)

A Represents an amendment to Adopted Budget

E Represents an ecumbrance for current year from prior year

City of Franklin General Fund Comparative Statement of Revenue For the 9 months ended September 30, 2017

Revenue	2017 Original Budget	2017 Amended Budget	2017 Year-to-Date Budget	2017 Year-to-Date Actual	Var to Budget Surplus (Deficiency)
Intergovernmental Charges: Milwaukee County - Paramedics School Liaison Officer	\$ 125,000 78,200	\$ 125,000 78,200	\$ 64,933 29,466	\$ 61,787 42,942	\$ (3,146) 13,476
Total Intergovernmental Charges	203,200	203,200	94,399	104,729	10,330
investment Income: Interest on investments Market Value Change on investments Interest - Tax Roll Other Interest	135,000 - 85,000	135,000 - 85,000	101,250 - 63,750	70,938 14,930 69,742 2,981	(30,312) 14,930 5,992 2,981
Total investment Income	220,000	220,000	165,000	158,591	(6,409)
Sale of Capital Assets	<u> </u>	-		925	925
Miscellaneous Revenue: Rental of Property Refunds/Reimbursements Insurance Dividend Other Revenue	45,000 22,500 45,000 13,150	45,000 22,500 45,000 13,150	43,914 11,804 45,000 11,049	51,692 26,954 45,097 8,483	7,778 15,150 97 (2,566)
Total Miscellaneous Revenue	125,650	125,650	111,767	132,226	20,459
Transfer from Other Funds: Capital Outlay Fund Water Utility-Tax Equivalent Total Transfers from Other Funds	1,050,000 1,050,000	A 26,950 1,050,000 1,076,950		26,950 787,500 814,450	(16,185) (16,185)
Total Revenue	\$ 24,291,823	\$ 24,318,773	\$ 21,966,785	\$ 21,683,851 98.71%	\$ (282,934)

A Represents an amendment to Adopted Budget

E Represents an ecumbrance for current year from prior year

City of Franklin General Fund Comparative Statement of Expenditures For the 9 months ended September 30, 2017

Expenditures	2017 Original Budget	2017 Amended Budget	2017 Year-to-Date Budget	2017 Year-to-Date Actual	Var to Budget Surplus (Deficiency)
General Government:					
Mayor & Aldermen - Labor	\$ 65,979	\$ 65,979	\$ 50,753	\$ 49,454	\$ 1,299
Mayor & Aldermen - Non-Personnel	31,110	31,110	26,598	23,502	3,096
Municipal Court - Labor	190,061	190,061	146,201	141,184	5,017
Municipal Court - Non-Personnel	47,150	47,150	37,805	51,351	(13,546)
City Clerk Labor	302,038	302,038	232,495	236,636	(4,141)
City Clerk - Non-Personnel	28,000	28,000	21,235	20,781	454
Elections - Labor	31,082	31,082	21,286	18,917	2,369
Elections - Non-Personnel	9,600	9,600	7,692	5,830	1,862
Information Services - Labor	119,720	119,720	89, 944	91,542	(1,598)
Information Services - Non-Personnel	363,067	390,017	•	251,933	48,084
Administration - Labor	289,457	289,457	217,093	221,139	(4,046)
Administration - Non-Personnel	138,015	138,015	105,520	65,183	40,337
Finance - Labor	416,898	416,898	312,973	321,155	(8,182)
Finance - Non-Personnel	96,724	96,724	65,598	62,601	2,997
Independent Audit	36,500	36,500	30,000	26,505	3,495
Assessor - Labor	-	-	-	-	-
Assessor - Non-Personnel	222,375	222,375	166,799	120,299	46,500
Legal Services	337,532	337,532	251,182	244,582	6,600
Municipal Buildings - Labor	125,159	125,159	102,667	109,723	(7,056)
Municipal Buildings - Non-Personnel	119,215	119,215	84,264	76,624	7,640
Property/liability insurance	93,575	93,575	153,292	134,157	19,135
Total General Government	3,063,257	3,090,207	2,423,414	2,273,098	150,316
Public Safety:					
Police Department - Labor	8.360.642	8.360,642	6,265,620	6,374,122	(108,502)
Police Department - Non-Personnel	1,145,626	1,150,853	A 813,274	744,825	E 68,449
Fire Department - Labor	5,679,632	5,679,632	4,267,568	4,419,114	(151,546)
Fire Department - Non-Personnel	473.100	473,100	349,795	291,367	E 58,428
Public Fire Protection	283,900	283,900	219,810	210,162	9,648
Building Inspection - Labor	788,275	788,275	591,024	560,560	30,464
Building Inspection - Non-Personnel	29,550	29,895	A 19,613	14,497	5,116
Weights and Measures	7,600	7,600	7,600	7,600	14
Total Public Safety	16,768,325	16,773,897	12,534,304	12,622,247	(87,943)
Public Works:					
Engineering - Labor	624,790	624,790	475,598	417,038	58,560
Engineering - Labor Engineering - Non-Personnel	21,820	29,220	18,108	29,037	•
Engineering - Noti-Fersonner Highway - Labor	2,399,102	2.399.102	1,942,259	1,853,693	88,566
Highway - Labor Highway - Non-Personnel	790,797	807,318		, ,	€ (40,356)
	344,800	364,043	•	205,057	
Street Lighting Weed Control	15,050	15,050	11,461	3,100	8,361
Total Public Works	\$ 4,196,359	\$ 4,239,523	\$ 3,123,807	\$ 2,984,961	\$ 138,846

A Represents an amendment to Adopted Budget

E Represents an ecumbrance for current year from prior year

City of Franklin General Fund

Comparative Statement of Revenue, Expenses and Fund Balance For the 9 months ended September 30, 2017

Expenditures	2017 Original Budget	Original Amended		2017 Year-to-Date Actual	Var to Budget Surplus (Deficiency)	
Health & Human Services:	\$ 581,507	\$ 581.507	\$ 435,600	\$ 438.937	\$ (3,337)	
Public Health - Labor Public Health - Non-Personnel	68,790	68.790	49,572	58,801	(9,229)	
Animai Control	34,500	34,500	29,400	28,200	1,200	
Total Health & Human Services	684,797	684,797	514,572	525,938	(11,366)	
Culture & Recreation:						
Senior Travel & Activities	21,400	23,686	19,028	14,733	4,295	
Parks - Labor	109,093	109,093	82,689	97,539	(14,850)	
Parks - Non-Personnel	41,725	46,675	A 29,087	29,834	(747)	
Total Culture & Recreation	172,218	179,454	130,804	142,106	(11,302)	
Conservation & Development:						
Planning - Labor	336,310	336,310	252,232	255,692	(3,460)	
Planning - Non-Personnel	60,550	60,550	39,713	34,550	5,163	
Economic Dev - Labor	102,617	102,617	76,963	79,449	(2,486)	
Economic Dev - Non-Personnel	124,200	131,700	А 73,067	49,949	23,118	
Total Conservation & Development	623,677	631,177	441,975	419,640	22,335	
Contingency & Unclassified:						
Restricted - other	500,000	500,000	=	-	-	
Unrestricted	125,000	125,250		34,668	(34,668)	
Unclassified	82,500	82,500	21,171	19,983	1,188	
Total Contingency & Unclassified	707,500	707,750	21,171	54,651	(33,480)	
Anticipated Underexpenditures	(455,820)	(455,820)				
Transfers to Other Funds:						
Capital Improvement Fund	=			-	-	
Other Funds	24,000	24,000	24,000	24,000	-	
Total Transfers to Other Funds	24,000	24,000	24,000	24,000		
Total Expenditures	\$ 25,784,313	\$ 25,874,985	\$ 19,214,047	\$ 19,046,641	\$ 167,406	
Less Encumbrances Net Expenditures % of YTD Budget				(202,453) \$ 18,844,188 98.08%		

A Represents an amendment to Adopted Budget

E Represents an ecumbrance for current year from prior year

City of Franklin General Fund Balance Sheet

ASSETS		9/30/2017
Cash & Investments	\$	11,285,544
Accounts & Taxes Receivable		485,906
Due from/Advances to Other Funds		296,146
Due from Other Governments		101,237
Prepaid Expenditures & Inventories		32,510
Total Assets	\$	12,201,343
LIABILITIES		
Accounts Payable	\$	607,743
Accrued Liabilities		812,110
Due to Other Funds & Governments		128,820
Special Deposits		95,219
Unearned Revenue		27,104
Total Liabilities		1,670,996
FUND BALANCES		
Nonspendable - Inventories, Prepaids, Advances, Assigned		328,656
Unassigned		10,201,691
Total Fund Balances	_	10,530,347
Total Liabilities & Fund Balances	\$	12,201,343

City of Franklin Debt Service Funds Balance Sheet September 30, 2017 and 2016

Assets	2017 Special Assessment	2017 Debt Service	2017 Total	2016 Special Assessment	2016 Debt Service	2016 Total
Cash and investments Special assessment receivable Total Assets	\$ 637,758 130,308 \$ 768,066	\$ - \$ -	\$ 637,758 130,308 \$ 768,066	\$ 512,164 111,456 \$ 623,620	\$ 126,355 <u>\$ 126,355</u>	\$ 638,519 111,456 \$ 749,975
<u>Liabilities and Fund Balance</u> Unearned & unavailable revenue Unassigned fund balance Total Liabilities and Fund Balance	\$ 130,308 637,758 \$ 768,066	\$ - - \$ -	\$ 130,308 637,758 \$ 768,066	\$ 111,456 512,164 \$ 623,620	\$ - 126,355 \$ 126,355	\$ 111,456 638,519 \$ 749,975

Statement of Revenue, Expenses and Fund Balance For the Nine months ended September 30, 2017 and 2016

Revenue	2017 Special Assessment	2017 Debt Service	2017 Year-to-Date Actual	2017 Amended Budget	2016 Special Assessment	2016 Debt Service	2016 Year-to-Date Actual
Property Taxes	\$ -	\$ 1,300,000	\$ 1,300,000	\$ 1,300,000	\$ -	\$ 1,500,000	\$ 1,500,000
Special Assessments	65,933	-	65,933	-	-	-	-
Investment Income	5,408	735	6,143		6,138	2,350	8,488
Total Revenue	71,341	1,300,735	1,372,076	1,300,000	6,138	1,502,350	1,508,488
Expenditures:							
Debt Service:							
Principal	-	1,355,000	1,355,000	1,355,000	-	1,300,000	1,300,000
Interest	-	144,613	144,613	272,463	-	223,596	223,596
Bond Issuance Cost						53,789	53,789
Total expenditures		1,499,613	1,499,613	1,627,463		1,577,385_	1,577,385
Transfers in	-	114,370	114,370	327,113	_	170,931	170,931
Transfers out	(373)	-	(373)	-	-	-	-
Refunding Bond Issuance	()	_	•	_	-	5,770,000	5,770,000
Premium (Discount) on Refunding Bonds		-	_	-		154,202	154,202
Repayment of Refunded bonds		-	_	-		(5,895,000)	(5,895,000)
Net change in fund balances	70,968	(84,508)	(13,540)	(350)	6,138	125,098	131,236
Fund balance, beginning of year	566,790	84,508	651,298	651,298	506,026	1,257	507,283
Fund balance, end of period	\$ 637,758	<u> </u>	\$ 637,758	\$ 650,948	\$ 512,164	\$ 126,355	\$ 638,519

City of Franklin Tax Increment Financing District #3 Balance Sheet September 30, 2017 and 2016

Assets Cash & investments Total Assets	2017 \$ 1,839,758 \$ 1,839,758	2016 \$ 1,784,751 \$ 1,784,751
<u>Liabilities and Fund Balance</u>		
Accounts payable Interfund advance from Development Fund Total Liabilities	\$ 498 550,000 550,498	\$ 552,128 552,128
Assigned fund balance Total Liabilities and Fund Balance	1,289,260 \$ 1,839,758	1,232,623 \$ 1,784,751

Statement of Revenue, Expenses and Fund Balance For the Nine months ended September 30, 2017 and 2016

	2017 Annual Budget	2017 Amended Budget	2017 Year-to-Date Budget	2017 Year-to-Date Actual	2016 Year-to-Date Actual
Revenue					
General property tax levy	\$ 1,300,000	\$ 1,300,000	\$ 1,300,000	\$ 1,253,575	\$ 1,730,642
State exempt computer aid	464,300	464,300	464,300	458,196	355,862
Investment income	3,000	3,000	2,652	17, 4 08	9,481
Transfer from other funds					M
Total revenue	1,767,300	1,767,300	1,766,952	1,729,179	2,095,985
Expenditures					
Transfer to other funds	-	-	-	-	62,289
Debt service principal	1,675,000	1,675,000	1,675,000	1,675,000	650,000
Debt service interest & fees	55,325	55,325	55,325	54,902	86,519
Administrative expenses	12,720	12,720	9,300	10,064	34,592
Interfund interest	19,250	19,250	19,250	14,398	17,818
Capital outlays	,	1,421,608	970,389	1,383,323	2,352,954
Encumbrances	-	-		(1,356,363)	(1,344,350)
Total expenditures	1,762,295	3,183,903	2,729,264	1,781,324	1,859,822
Revenue over (under) expenditures	5,005	(1,416,603)	\$ (962,312)	(52,145)	236,163
Fund balance, beginning of year	1,341,405	1,341,405		1,341,405	996,460
Fund balance, end of period	\$ 1,346,410	\$ (75,198)		\$ 1,289,260	\$ 1,232,623

City of Franklin Tax Increment Financing District #4 Balance Sheet September 30, 2017 and 2016

Assets Cash & investments Total Assets	\$ \$	2017 2,418,104 2,418,104	\$ 2016 1,253,038 1,253,038
Liabilities and Fund Balance Accounts payable	_\$	9,524	\$ _
Total Liabilities Assigned fund balance Total Liabilities and Fund Balance	\$	9,524 2,408,580 2,418,104	\$ 1,253,038 1,253,038

Statement of Revenue, Expenses and Fund Balance For the Nine months ended September 30, 2017 and 2016

•	2017 Annual Budget	 2017 Amended Budget	2017 Year-to-Date Budget		Year-to-Date		Ye	2017 Year-to-Date Actual		2016 ear-to-Date Actual
Revenue										
General property tax levy	\$ 994,000	\$ 994,000	\$	994,000	\$	1,013,892	\$	1,289,709		
Payment in Lieu of Taxes	85,000	85,000		85,000		148,174		91,206		
State exempt computer aid	16,200	16,200		16,200		15,960		18,043		
Investment income	19,200	19,200		14,400		17,854		2,606		
Total revenue	1,114,400	1,114,400		1,109,600		1,195,880		1,401,564		
Expenditures										
Debt service/interfund interest	-	-		-		-		920		
Administrative expenses	9,075	89,075		6,806		82,430		21,490		
Development incentive/grant	_	980,000		735,000		-		-		
Encumbrances	_	_		-		(52,848)		(12,100)		
Total expenditures	9,075	 1,069,075		741,806		29,582		10,310		
Revenue over (under) expenditures	1,105,325	45,325	\$	367,794		1,166,298		1,391,254		
Fund balance, beginning of year	 1,242,282	1,242,282				1,242,282		(138,216)		
Fund balance, end of period	\$ 2,347,607	\$ 1,287,607			\$	2,408,580	<u>\$</u>	1,253,038		

City of Franklin Tax Increment Financing District #5 Balance Sheet September 30, 2017 and 2016

Assets	2	017	2016
Cash & investments	\$	7,199	\$ -
Total Assets	\$	7,199	\$ -
<u>Liabilities and Fund Balance</u> Interfund advance from General Fund	\$	74,695	\$ -
Total Liabilities		74,695	**
Unassigned fund balance		(67,496)	-
Total Liabilities and Fund Balance	\$	7,199	\$ -

Statement of Revenue, Expenses and Fund Balance For the Nine months ended September 30, 2017 and 2016

	2017 Annual Budget	2017 Amended Budget	2017 Year-to-Date Budget	2017 Year-to-Date Actual	2016 Year-to-Date Actual
Revenue			m 44 400 040	•	Φ.
Bond proceeds	\$ 11,430,312	\$ 11,430,312	\$ 11,430,312	\$ -	\$ -
Transfer from other funds		_			
Total revenue	11,430,312	11,430,312	11,430,312		
Expenditures					
Transfer to other funds	10,949,250	10,949,250	4,500,000	-	₩
Debt service interest & fees	206,700	206,700	79,925	-	-
Administrative expenses	61,270	91, 4 18	67,671	42,798	-
Encumbrances	<u></u>	-	-	(27,148)	_
Total expenditures	11,217,220	11,247,368	4,647,596	15,650	
Revenue over (under) expenditures	213,092	182,944	\$ 6,782,716	(15,650)	-
Fund balance, beginning of year	(51,846)	(51,846)		(51,846)	
Fund balance, end of period	\$ 161,246	\$ 131,098		\$ (67,496)	\$ -

City of Franklin Library Fund Balance Sheet September 30, 2017 and 2016

	Operating					Restricted			
Assets	<u></u>	2017	2016		2017		2016		
Cash and investments Prepaid expenses	\$	703,368	\$	668,080	\$	139,585 650	\$	116,229 650	
Total Assets	\$	703,368	\$	668,080	\$	140,235	\$	116,879	
Liabilities and Fund Balance									
Accounts payable	\$	22,553	\$	24,609	\$	1,291	\$	658	
Accrued salaries & wages		23,020		19, 4 67		-		-	
Nonspendable fund balance		-		-		650		650	
Assigned fund balance		657,795		624,004		138,294		115,571	
Total Liabilities and Fund Balance	\$	703,368	\$	668,080	\$	140,235	\$	116,879	

Statement of Revenue, Expenses and Fund Balance - Operating Fund For the Nine months ended September 30, 2017 and 2016

Revenue	2017 Annual Budget	2017 Amended Budget	2016 Year-to-Date Budget	2017 Year-to-Date Actual	2016 Year-to-Date Actual
Property taxes	\$ 1,296,600	\$ 1,296,600	\$ 1,296,600	\$ 1,296,600	\$ 1,287,000
Reciprocal borrowing (restricted)	90,000	90,000	-	-	-
Investment income	8,500	8,500	6,375	6,975	9,631
Transfers in	-	-	-	-	-
Total Revenue	1,395,100	1,395,100	1,302,975	1,303,575	1,296,631
Expenditures:					
Salaries and benefits	977,951	977,951	733,463	671,877	714,589
Contractual services	19,300	19,300	17,114	12,283	16,617
Supplies	37,400	37,400	28,057	25,151	26,847
Services and charges	64,010	64,010	49,881	51,881	43,511
Contingency	14,000	14,000	10,500	-	-
Facility charges	254,210	254,210	188,721	174,988	178,170
Capital outlay	88,500	97,500	67,991	80,971	99,756
Capital outlay (restricted)	-	-		-	-
Total Library Costs	1,455,371	1,464,371	1,095,727	- 1,017,151	1,079,490
Total expenditures	1,455,371	1,464,371	1,095,727	1,017,151	1,079,490
Revenue over (under) expenditures	(60,271)	(69,271)	207,248	286,424	217,141
Fund balance, beginning of year	371,371	371,371		371,371	406,863
Fund balance, end of period	\$ 311,100	\$ 302,100		\$ 657,795	\$ 624,004

City of Franklin Solid Waste Collection Fund Balance Sheet September 30, 2017 and 2016

<u>Assets</u>	 2017	2016
Cash and investments	\$ 862,323	\$ 790,166
Accrued Receivables	233	-
Total Assets	\$ 862,556	\$ 790,166
Liabilities and Fund Balance Accounts payable Accrued salaries & wages Restricted fund balance Total Liabilities and Fund Balance	\$ 129,668 - 732,888 862,556	\$ 124,791 292 665,083 790,166

Statement of Revenue, Expenses and Fund Balance For the Nine months ended September 30, 2017 and 2016

	2017	2017	2016
	Adopted	Year-to-Date	Year-to-Date
Revenue	Budget	Actual	Actual
Grants	\$ 69,200	\$ 68,838	\$ 65,995
User Fees	1,203,200	1,210,068	1,198,161
Landfill Operations-tippage	346,000	232,127	222,859
Investment Income	2,500	7,745	9,225
Sale of Recyclables	500	28	905
Total Revenue	1,621,400	1,518,806	1,497,145
Expenditures:			
Personal Services	13,215	11,582	14,064
Refuse Collection	666,751	506,278	494,152
Recycling Collection	355,650	276,860	272,896
Leaf & Brush Pickups	54,300	18,086	17,787
Tippage Fees	455,000	302,081	291,010
Miscellaneous	3,500	1,914	2,982
Printing	1,800	-	115
Total expenditures	1,550,216	1,116,801	1,093,006
Revenue over (under) expenditures	71,184	402,005	404,139
Fund balance, beginning of year	330,883	330,883	260,944
Fund balance, end of period	\$ 402,067	\$ 732,888	\$ 665,083

City of Franklin Capital Outlay Fund Balance Sheet September 30, 2017 and 2016

Assets	2017	2016
Cash and investments	\$ 419,470	\$ 660,473
Total Assets	\$ 419,470	\$ 660,473
Liabilities and Fund Balance Accounts payable Miscellaneous claims payable Encumbrance Assigned fund balance	\$ 79,527 - 78,100 261,843	\$ 3,358 6,422 55,140 595,553
Total Liabilities and Fund Balance	\$ 419,470	\$ 660,473

Statement of Revenue, Expenses and Fund Balance For the Nine months ended September 30, 2017 and 2016

		2017 Original		2017 Amended		2017 ar-to-Date		2017 ar-to-Date Actual *		2016 ar-to-Date Actual
Revenue		Budget	***************************************	Budget		Budget	\$	444,300	\$	437,100
Property Taxes	\$	444,300	Þ	444,300	Ф	444,300	Φ		Φ	,
Grants				-		- 47 000		5,050		2,693
Landfill Siting		148,000		148,000		147,086		106,300		67,000
Investment Income		6,000		6,000		4,500		4,413		9,611
Miscellanous Revenue		25,000		58,470		12,485		53,390		16,711
Transfers from Other Funds		3,500		3,500		2,625		-		-
Total Revenue		626,800		660,270		610,996		613,453		533,115
Expenditures:										
General Government		217,379		294,918		145,729		119,259		23,063
Public Safety		389,589		525,012		393,602		497,381		486,279
Public Works		51,000		51,000		34,352		31,871		81,690
Health and Human Services		_		-		-		-		-
Culture and Recreation		7,000		17,776		10,099		13,453		12,690
Conservation and Development		1,900		1,900		1,425		1,618		-
Contingency		30,000		20,470		22,500		-		-
Transfers to Other Funds		•		26,950		-		26,950		-
Total expenditures		696,868		938,026	_	607,707		690,532		603,722
Revenue over (under) expenditures		(70,068)		(277,756)		3,289		(77,079)		(70,607)
Fund balance, beginning of year		338,922		338,922			,	338,922		666,160
Fund balance, end of period	\$	268,854	<u>\$</u>	61,166				261,843	\$	595,553

^{*} Amount shown is actual expenditures plus encumbrance

City of Franklin Equipment Replacement Fund Comparative Balance Sheet September 30, 2017 and 2016

Assets	2017	2016
Cash and investments	\$ 2,350,928	\$ 2,446,155
Total Assets	\$ 2,350,928	\$ 2,446,155
<u>Liabilities and Fund Balance</u>	\$ -	\$ -
Accounts payable Encumbrance	88.644	μ 107,953
Assigned fund balance	2,262,284	2,338,202
Total Liabilities and Fund Balance	\$ 2,350,928	\$ 2,446,155

Comparative Statement of Revenue, Expenses and Fund Balance For the Nine months ended September 30, 2017 and 2016

	2017 Original	2017 Amended	2017 Year-to-Date	2017 Year-to-Date	2016 Year-to-Date
Revenue:	Budget	Budget	Budget	Actual *	Actual
Property Taxes Landfill	\$ 348,300 200,000	\$ 348,300 200,000	\$348,300 198,764	\$ 348,300 144,800	\$ 342,600 200,000
Investment Income	25,000	25,000	18,750	24,899	24,319
Property Sales	15,000	15,000	8,607	28,201	81,279
Total revenue	588,300	588,300	574,421	546,200	648,198
Expenditures:	272 200	050.000	005 005	007.050	
Public Safety	250,000	250,000	235,895	237,358	- 614,639
Public Works	400,000	436,891	324,216	417,561	
Total expenditures	650,000	686,891	560,111	654,919	614,639
Revenue over (under) expenditures	(61,700)	(98,591)	14,310	(108,719)	33,559
Fund balance, beginning of year	2,371,003	2,371,003		2,371,003	2,304,643
Fund balance, end of period	\$ 2,309,303	\$ 2,272,412		\$ 2,262,284	\$ 2,338,202

^{*} Amount shown is actual expenditures plus emcumbrance

City of Franklin Street Improvement Fund Balance Sheet September 30, 2017 and 2016

Assets		2017	2016
Cash and investments	\$	1,049,189	\$ 394,725
Accrued receivables		-	28,856
Total Assets	\$	1,049,189	\$ 423,581
Liabilities and Fund Balance			
Accounts payable	\$	723,187	\$ 37,889
Assigned fund balance	•	326,002	 385,692
Total Liabilities and Fund Balance	\$	1,049,189	\$ 423,581

Statement of Revenue, Expenses and Fund Balance For the Nine months ended September 30, 2017 and 2016

Revenue:	2017 Original Budget	2017 Year-to-Da Totals	2016 ate Year-to-Date Totals
Property Taxes Landfill Siting Investment Income Refunds and Reimbursements	\$ 704,900 133,000 5,500	\$ 704,9 96,4 5,8	00 133,000
Total revenue	843,400	807,1	75 860,081
Expenditures: Street Reconstruction Program - Current Year	940,000	738,5	01 720,344
Revenue over (under) expenditures	(96,600)	68,6	74 139,737
Fund balance, beginning of year	257,328	257,3	28 245,955
Fund balance, end of period	\$ 160,728	\$ 326,0	02 \$ 385,692

City of Franklin Capital Improvement Fund Balance Sheet September 30, 2017 and 2016

Assets Cash and investments Accrued receivables Total Assets	2017 \$ 2,737,975 847 \$ 2,738,822	2016 \$ 2,456,657 847 \$ 2,457,504
Liabilities and Fund Balance		
Accounts payable	\$ 335,162	\$ 26,863
Contracts Payable	-	-
Accrued payables	90,000	52,000
Fund Balance - Encumbrance	845,789	659,321
Assigned fund balance	<u> 1,467,871</u>	1,719,320
Total Liabilities and Fund Balance	\$ 2,738,822	\$ 2,457,504

Statement of Revenue, Expenses and Fund Balance For the Nine months ended September 30, 2017 and 2016

	2017	2017	2017	2016
	Original	Amended	Year-to-Date	Year-to-Date
Revenue:	Budget	Budget	Totals	Totals
Block Grants	\$ -	\$ -	\$ -	\$ -
Landfill Siting	389,500	389,500	144,319	216,650
Transfers from Other Funds	390,000	390,000	-	62,289
Transfers from General Funds	10,949,250	10,949,250	-	900,000
Transfers from Impact Fees	2,779,725	2,779,725	-	137,319
Transfers from Connection Fees	900,000	900,000	-	-
Bond Proceeds	8,500,000	8,500,000	-	-
Refunds & Reimbursements	-	207,480	97,480	-
Investment Income	5,000	5,000	27,025	6,124
Total revenue	23,913,475	24,120,955	268,824	1,322,382
Expenditures:				
General Government	1,800,000	1,930,000	39,123	4,343
Public Safety	102,800	396,857	274,867	383,581
Public Works	11,653,000	12,615,494	1,145,800	249,233
Culture and Recreation	4,824,326	4,848,801	55,351	537,509
Sewer & Water	4,059,500	4,059,500	-	118,232
Contingency	2,196,375	2,157,855	3,084	-
Bond/Note Issuance Cost	170,000	170,000	-	
Total expenditures	24,806,001	26,178,507	1,518,225	1,292,898
Revenue over (under) expenditures	(892,526)	(2,057,552)	(1,249,401)	29,484
Fund balance, beginning of year	2,717,272	2,717,272	2,717,272	1,689,836
Fund balance, end of period	\$ 1,824,746	\$ 659,720	\$ 1,467,871	\$ 1,719,320

City of Franklin Development Fund Comparative Balance Sheet September 30, 2017 and 2016

Assets Cash and investments	2017 \$ 3,946,445	2016 \$ 3,842,093
Due From TID 3	275,000	275,000
Total Assets	\$ 4,221,445	\$ 4,117,093
Liabilities and Fund Balance	•	*
Accounts payable Payable to Developers- Oversizing	\$ - 79.732	\$ -
Non-Spendable Fund Balance - Advances	275,000	275,000
Encumberance	3,321	3,321
Assigned fund balance	3,863,392	3,838,772
Total Fund Balance	4,138,392	4,113,772
Total Liabilities and Fund Balance	\$ 4,221,445	\$ 4,117,093

Comparative Statement of Revenue, Expenses and Fund Balance For the Nine months ended September 30, 2017 and 2016

		2017		2017		2017		2016
		Original	Yea	ar-to-Date	Yea	ar-to-Date	Yea	ar-to-Date
Revenue:		Budget	-	Budget		Actual		Actual
Impact Fee: Parks	\$	300,000	\$	250,039	\$	57,078	\$	188,878
Impact Fee: Southwest Sewer Serv		-		-		-		-
Impact Fee: Administration		6,000		5,090		2,530		4,675
Impact Fee: Water		275,000		219,335		108,853		186,689
Impact Fee: Transportation		37,000		30,515		18,954		8,150
Impact Fee: Fire Protection		40,000		33,185		16,614		28,048
Impact Fee: Law Enforcement		73,000		60,501		30,497		52,101
Impact Fee: Library		60,000		49,655	,	16,614		53,330
Total Impact Fees		791,000		648,320		251,140		521,871
Investment Income		35,000		26,250		38,474		42,910
Interfund Interest Income		1,618		1,214		7,199		8,909
Total revenue		827,618		675,784		296,813		573,690
Francis and Mariana			•					
Expenditures: Other Professional Services		5,000		5,000		3,321		3,321
Transfer to Debt Service:		3,000		0,000		0,021		0,02.
Law Enforcement		205,000		164,000		34,654		63,044
Fire		43,100		34,480		43,006		42,957
		73,250		58,600		11,024		10,000
Transportation		133,100		106,480		25,313		54,930
Library Total Transfers to Debt Service		454,450		363,560		113,997		170,931
		10 1, 100		,		•		•
Transfer to Capital Improvement Fund	d:			4 400 500				127 210
Park		2,891,185		1,428,599				137,319
Total Transfers to Capital Improveme		2,891,185		1,428,599		-		137,319
, ,		•						
Water Fees		500,000		375,000		99,665		-
Total expenditures		3,850,635		2,172,159		216,983		311,571
Revenue over (under) expenditures		(3,023,017)		(1,496,375)		79,830		262,119
Fund balance, beginning of year		4,058,562				4,058,562	,	3,851,653
Fund balance, end of period	\$	1,035,545			\$	4,138,392	\$	4,113,772_

City of Franklin Development Fund Financial Report For the nine months ended September 30, 2017

Effective with all permits applied for after May 31, 2002, in accordance with our Impact Fee Ordinance 2002-1712 new impact fees were adopted. The fees are automatically increased 5% in January of each year. The components of the fees for 2017 are as follows.

			Multi	
	Single	Two	Family	
	Family	Family	per Unit	
Park and Playground Facilities	\$ 3,171.00	\$ 6,342.00	\$ 2,249.00	
Fire Protection Facilities	452.00	904.00	313.00	
Law Enforcement Facilities	840.00	1,680.00	584.00	
Water system ¹ per every 169 gallons of daily use	2,281.00	4,562.00	2,281.00	1
Transportation Facilities	88.00	176.00	62.00	
Administrative Fee	55.00	110.00	55.00	
Library Facilities	923.00	1,846.00	616.00	
Sanitary Sewer - Ryan Creek	2,928.00	5,856.00	see note	2
	\$10,738.00	\$21,476.00	\$ 6,160.00	

In addition to the above, there is an established commercial impact fee of \$.523 psf, an industrial impact fee of \$.136 psf and an institutional impact fee of \$.738 psf. There is also a charge on each commercial, industrial or institutional building for water of \$2,069 per REC (residential equivalency) and an administrative fee of \$55 for the first 10,000 sq. ft. plus \$55 for each additional 10,000 sq. ft.

The funds generated are available for capital projects or related debt service of those municipal activities. Interest revenue is credited to each account balance.

On May 21, 2013, the Common Council adopted Ordinance 2013-2105 to provide for the extension of and cost recovery of public sanitary sewer within the southwest sanitary sewer service area served by the Ryan Creek Interceptor public sanitary sewer. The fee for a single family dwelling with a 0.75" meter is \$2,928.00. For a multi family dwelling the fee is \$2,928.00 for the first unit and \$1,464.00 for each additional unit.

2

Development Fund

Summary of Impact Fee Activity

For the nine months ended September 30, 2017

Cash Acct Revenue Acct Expanditure Acct	1	4292	4293	4294	4295	4296	4297	4299	27.1100.1111 -27.2000.2117 Net
באלפו ימוניו פ אכני	Parks		Admin *			Fire	Law		Cash
	Recreation	SW Sewer	Fee	Water	Transportation	Protection	Enforcement	Library	Balance
Beginning Bal, 12/31/16	3,284,554.91	33,803.63	66,900.24	618,917.95	3,103.76	27,087.61	9,634.92	14,558.81	4,058,561.83
1st Quarter Impact Fees	12,684.00	00.00	385.00	22,156.00	2,027.00	2,618.00	4,868.00	3,692.00	48,430.00
Expenditures subtotal	3,297,238.91	33,803.63	67,285.24	0.00	5,130.76	29,705.61	0.00	0.00 18,250.81	4,106,991.83
Transfers	13.945.37	143.24	284.31	2,669.64	17.45	(28,220.25) 120.33	(12,000.00) 51.14	(8,784.26) 69.52	(49,004.51) 17,301.00
Ending balance 3/31/2017	3,311,184.28	33,946.87	67,569.55	643,743.59	5,148.21	1,605.69	2,554.06	9,536.07	4,075,288.32
2nd Quarter Impact Fees	19,026.00	0.00	1,595.00	50,941.00	15,707.00	10,131.00	18,458.00	5,538.00	121,396.00
Expenditures subtotal	3,330,210.28	33,946.87	69,164.55	(99,665.00) 595,019.59	20,855.21	11,736.69	21,012.06	15,074.07	4,097,019.32
Transfers Investment Income	13,458.95	137.20	279.53	2,404.76	84.29	47.43	84.92	60.92	0.00 16,558.00
Ending balance 6/30/2017	3,343,669.23	34,084.07	69,444.08	597,424.35	20,939.50	11,784.12	21,096.98	15,134.99	4,113,577.32
3rd Quarter Impact Fees	25,368.00	0.00	550.00	35,756.00	1,220.00	3,865.00	7,171.00	7,384.00	81,314.00
Experiorures subtotal	3,369,037.23	34,084.07	69,994.08	633,180.35	11,135.50	863.49	5,613.88	5,990.03	4,129,898.63
Transfers Investment income	9.637.47	97.50	200.23	1,811.28	31.85	2.47	16.06	17.14	0.00 11,814.00
Ending balance 9/30/2017	3,378,674.70	34,181.57	70,194.31	634,991.63	11,167.35	865.96	5,629.94	6,007.17	4,141,712.63
2017 Impact Fees	57,078.00	0.00	2,530.00	108,853.00	18,954.00	16,614.00	30,497.00	16,614.00	251,140.00
2016 Impact Fees	203,953.00	00.00	4,950.00	206,237.00	8,570.00	30,198.00	56,096.00	57,725.00	420,854.00
2015 Impact Fees	137,670.00	2,928.00	3,630.00	133,352.00	20,533.00	27,116.00	50,222.00	38,526.00	413,977.00
2014 Impact Fees	184,592.00	17,568.00	5,830.00	235,415.00	51,436.00	48,134.00	88,431.00	51,821.00	683,227.00
2013 Impact Fees	317,206.00	11,712.00	6,160.00	427,429.00	31,829.00	45,110.00	82,280.00	66,179.00	987,905.00
• Funded by an Administrative Fee not an impact fee	/e Fee not an impa	of fee							

Funded by an Administrative Fee not an impact fee

Oversizing payments due in future periods 79,732.00

1,099,029.73 134,103.83

205,021.90 1,863,400.00

42,974.50 359,200.00

73,635.62 899,899.74

¹ Debt service payments

Oversizing payments made
 Transfer to Water Utility for Puetz Road Water Tower Project

City of Franklin Utility Development Fund Comparative Balance Sheet September 30, 2017 and 2016

Assets	2017	2016
Cash and investments - Water	\$ 541,192	\$ 405,882
Cash and investments - Sewer	714,145	591,016
Special Assessment - Water Current	212,416	290,434
Special Assessment - Water Deferred	332,962	362,373
Special Assessment - Sewer Current	297,705	363,553
Special Assessment - Sewer Deferred	76,728	116,426
Reserve for Uncollectible	(40,982)	(110,090)
Total Assets	\$ 2,134,166	\$ 2,019,594
Liabilities and Fund Balance		
Accounts payable	\$ -	\$ -
Unearned Revenue	878,829	1,022,696
Total Fund Balance	1,255,337	996,898
Total Liabilities and Fund Balance	\$ 2,134,166	\$ 2,019,594

Comparative Statement of Revenue, Expenses and Fund Balance For the Nine months ended September 30, 2017 and 2016

Revenue:	2017 Original Budget	Year-	017 to-Date dget	2017 Year-to-Date Actual		2016 e Year-to-Date Actual	
Special Assessments Water Sewer	\$ 73,000 50,000		31,944 23,533	\$	468 -	\$	40,243 29,816
Connection Fees Water Sewer	4,100 35,000	:	4,100 29,101	,	2,281 17,280		- 14,700
Total Impact Fees	162,100		88,678		20,029		84,759
Special Assessment Interest Investment Income Total revenue	44,400 - 206,500		12,651 - 01,329		17 11,101 31,147		2,383 2,753 89,895
Transfer to Capital Improvement Fu Water Sewer	450,000 450,000	1	- 97,957		-		-
Total Transfers to Capital Improven	900,000	1	97,957		-	,	+
Revenue over (under) expenditures	(693,500)	(96,628)	;	31,147		89,895
Fund balance, beginning of year				1,2	24,190		907,003
Fund balance, end of period				\$ 1,2	55,337	\$	996,898

City of Franklin Sanitary Sewer Fund

Statement of Revenue, Expenditures, and Changes in Net Assets

For the Nine months ended September 30	, 2017 and 2016
--	-----------------

	2017	2017	Current	Prior	
	Amended	Year-to-Date			
	Budget	Budget	Totals	Year-to-Date Totals	
Operating Revenue					
Residential	\$ 1,876,560	\$ 1,500,242	\$ 1,350,862	\$ 1,341,086	
Commercial	484,500	391,104	375,062	376,646	
Industrial	430,500	347,222	304,654	308,627	
Public Authority	152,000	122,534	105,060	112,205	
Penalties/Other	32,000	16,336	16,224	18,563	
Multi Family	468,800	351,600	336,629	346,081	
Total Operating Revenue	3,444,360	2,729,038	2,488,491	2,503,208	
Operating Expenditures	e 460.000	e 252.750	¢ 269.750	\$ 336,836	
Salaries and benefits	\$ 460,800	\$ 352,750	\$ 368,759		
Contractual services	108,000	89,944	87,807 37,434	81,400 54,106	
Supplies	91,300	68,475 47,094	37,124 39,145		
Facility charges	62,900	47,084 3,750	38,145	43,587	
Shared meter costs	5,000	3,750	1 610 006	1 614 006	
Sewer service - MMSD	2,258,400	1,693,800	1,618,896	1,614,096	
Other operating costs	28,200	21,551	11,815	13,684	
Allocated expenses	116,500	87,375	94,103	91,853	
Sewer improvements	170,000	151,053	46,185	60,806	
Retirement - GASB 68	-	75.000	75.005	70.050	
Depreciation	100,400	75,300	75,285	79,650	
Total operating expenditures	3,401,500	2,591,082	2,378,119	2,376,018	
Operating Income (Loss)	42,860	137,956	110,372	127,190	
Non-Operating Revenue (Expenditures)					
Miscellaneous income	-	-	1,725	2,095	
Refunds/Reimbursements	-	-	_	38,975	
Investment income	510,856	383,142	271,963	277,992	
Interest expense	(507,356)	(350,517)	(260,975)	(275,218)	
Total non-operating revenue (expenditures)	3,500	32,625	12,713	43,844	
Income (Loss) before Capital Contributions	46,360	170,581	123,085	171,034	
Retained Earnings- Beginning	1,685,002	1,685,002	1,685,002	1,537,815	
Transfer (to) from Invested in Capital Assets	(271,000)	(203,250)	60,129	47,366	
Retained Earnings- Ending	1,460,362	1,652,333	1,868,216	1,756,215	
Canifel Contributions	600,000	450,000	_	_	
Capital Contributions Depreciation - CIAC	(586,000)	(439,500)	(1,508,103)	(448,650)	
Transfer (to) from Retained Earnings	271,000	203,250	(60,129)	(47,366)	
Change in Net Investment in Capital Assets	285,000	213,750	(1,568,232)	(496,016)	
Net Investment in Capital Assets-Beginning	65,071,887	65,071,887	65,071,887	44,608,914	
Net Investment in Capital Assets-Ending	65,356,887	65,285,637	63,503,655	44,112,898	
·	¢ 66 017 040	\$ 66 027 070	¢ 65 271 974	\$ 45 860 112	
Total net assets	\$ 66,817,249	\$ 66,937,970	\$ 65,371,871	\$ 45,869,113	

City of Franklin Sanitary Sewer Fund Comparative Balance Sheet September 30, 2017 and 2016

	2017	2016
Assets		
Current assets:	\$ 1,487,839	\$ 866,325
Cash and investments Accounts receivable	985,077	1,019,354
Due from Franklin Water Utility	69,091	6,872
Miscellaneous receivable	7,031	286,116
Prepaid expenses	••	2,319
Total current assets	2,549,038	2,180,986
Non current assets: Due from MMSD	20,014,692	23,774,270
Sanitary Sewer plant in service:		
Land	725,594	358,340
Buildings and improvements	3,292,878	3,277,771
Improvements other than buildings	78,725,672	54,380,956
Machinery and equipment	826,541 485	813,848 34,202
Construction in progress	83,571,170	58,865,117
Less accumulated depreciation	(20,067,515)	(14,752,219)
Net sanitary sewer plant in service	63,503,655	44,112,898
Deferred assets:		
Pension assets	168,109	80,922
Total Assets	\$ 86,235,494	\$ 70,149,076
<u>Liabilities and Net Assets</u>		
Current liabilities:	4	
Accounts payable	\$ 565,665	\$ 20,028
Accrued liabilities Due to Franklin Water Utility	27,937 488	593,497 363
Due to General Fund - non-interest bearing	86,992	2,290,408
Total current liabilities	681,082	2,904,296
Total current liabilities	001,002	£,00+,200
Non current liabilities:		
Accrued compensated absences	74,066	67,229
Pension liability (GASB 68)	41,843 20,014,693	108,210 21,200,228
General Obligation Notes payable - CWF		
Total liabilities	20,811,684	24,279,963
Deferred inflows: Pension liabilities	51,939	-
Net Assets:		
Invested in capital assets, net of related debt	63,503,655	44,112,898
Sewer equipment replacement	394,227	356,106
Retained earnings	1,473,989	1,400,109
Total net assets	65,371,871	45,869,113
Total Liabilities and Net Assets	\$ 86,235,494	\$ 70,149,076

City of Franklin Sanitary Sewer Fund Statement of Cash Flows

For the Nine months ended September 30, 2017 and 2016

	2017	2016	
Cash Flows from Operating Activities Operating income (loss)	\$ 110,372	\$ 127,190	
Adjustments to reconcile operating income to			
net cash provided by operating activities:			
Depreciation	75,285	79,650	
(Increase) decrease in assets:			
Accounts receivable	(125,467)	(161,922)	
Taxes receivable	121,939	124,633	
Due from other funds	(12,920)	82,184	
Miscellaneous receivable	98	-	
Prepaid expenses	2,214	2,109	
Increase (decrease) in liabilities:			
Accounts payable	7,580	(569,190)	
Accrued expenses		542,923	
Due to other funds	(20,004)	(49,667)	
GASB 68 pension	(138,600)	-	
Total Adjustments	(89,875)	50,720	
Net Cash Provided by Operating Activities	\$ 20,497	\$ 177,910	
Cash Flows From Capital & Related Financing Activities			
Due from MMSD & Other Governments	3,940,407	1,537,629	
Due to general fund	(2,198,615)	-	
Notes payable	(1,185,535)	(1,157,048)	
Acquisition of capital assets	(15,156)	(32,284)	
Net Cash Provided (Used) in Capital	, , ,	•	
and Financing Activities	541,101	348,297	
Cash Flows from Investing Activities			
Interest and other income	273,688	319,062	
	(260,975)	(275,218)	
Interest exepense	(200,010)	(210,210)	
Net Change in Cash and Cash Equivalents	574,311	570,051	
Cash and Cash Equivalents, beginning of period	913,528	296,274	
Cash and Cash Equivalents, end of period	\$ 1,487,839	\$ 866,325	

Franklin Municipal Water Utility Notes to the Financial Statements For the period ended September 30, 2017 and 2016

¹ Operating revenue is \$171,159 less than budget at September 30, 2017.

2	Operating expenditures a	are \$120,430 less th	nan budget for th	ne first three qua	rters.

Water Connection Fee

Prior to May 31, 2002, the City collected a water connection fee on new construction and connections to existing properties, to be used to fund water main construction projects. The water connection fees on hand on September 30, 2017 total \$541,192.

Water Impact Fee

Since May 31, 2002 a water impact fee on residential and commercial construction replaced the water connection fee. Water Impact Fees collected in 2017 total \$166,147. Water Impact fees on hand at September 30, 2017 total \$633,180.

Franklin Municipal Water Utility Comparative Statement of Revenue, Expenditures, and Changes in Net Assets For the period ended September 30, 2017 and 2016

For the period ende	d September 30,	2017 and 2010	Fav (Unf)	
Operating Revenue	2017	YTD Budget	Variance	2016
Total metered sales	4,112,859	4,267,315	(154,456)	4,110,862
Fire protection	497,523	515,907	(18,384)	490,577
Forfeited discounts, penalties and other	29,206	27,525	1,681	38,564
Total Operating Revenue	4,639,588	4,810,747	(171,159)	4,640,003
Operating Expenditures				
Operation and maintenance expenses:				
Source of supply	2,324,823	2,326,326	1,503	2,474,052
Pumping	99,224	111,432	12,208	88,870
Water treatment	2,175	9,866	7,691	2,086
Transmission and distribution	255,300	338,200	82,900	356,444
Customers' accounts	34,125	38,366	4,241	33,613
Administrative and general	343,334	263,794	(79,540)	372,044
Total operation and maintenance expenses	3,058,981	3,087,984	29,003	3,327,109
Depreciation	290,250	294,373	4,123	290,250
Amortization and Pension Expenses	98,001	98,000	(1)	98,001
Taxes	806,141	824,596	18,455	843,049
Total Operating Expenditures	4,253,373	4,304,953	51,580	4,558,409
Operating Income (Loss)	386,215	505,794	(119,579)	81,594
Non-Operating Revenue (Expenses)				
Sundry	58,407	44,861	13,546	90,747
Interest on investments	5,676	1,125	4,551	1,911
Interest on long term debt	(33,388)	(24,825)	(8,563)	(34,487)
Interest-Debt to Municipality	(2,400)	•••	(2,400)	_
Depreciation - CIAC	(586,035)	(586,050)	15	(577,800)
Total Non-Operating Revenue (Expenses)	(557,740)	(564,889)	7,149	(519,629)
Income before Capital Contributions	(171,525)	(59,095)	(112,430)	(438,035)
Capital Contributions-Developer & Municipality				
Net change in net assets	(171,525)	(59,095)	(112,430)	(438,035)
Net Assets, beginning of period	46,403,954			45,924,817
Net Assets, end of period	\$ 46,232,429			\$45,486,782

Franklin Municipal Water Utility Comparative Balance Sheet September 30, 2017 & 2016

Assets	2017	2016
Current Assets:		
Cash and investments	\$ 1,620,941	\$ 680,737
Accounts receivable	1,982,414	2,139,238
Taxes receivable	(106)	(106)
Due from City of Franklin	3,049	7,248
Prepaid expenses		2,319_
Total current assets	3,606,298	2,829,436
Utility plant in service:		400.00
Land	162,885	162,885
Buildings and improvements	3,384,279	3,369,172
Construction in Progress	733	36,654
Improvements other than buildings	55,599,147	54,748,756
Machinery and equipment	4,597,260	4,447,082_
	63,744,304	62,764,549
Less accumulated depreciation	19,004,646_	18,015,542
Net utility plant in service	44,739,658	44,749,007
Deferred Assets:		
Pension Assets	188,850	148,355
Deferred Costs	205,390	336,056
Total deferred assets	394,240	484,411
Total Assets	\$ 48,740,196	\$48,062,854
Liabilities and Net Assets		
Liabilities:		
Accounts payable	\$ 29,106	\$ 35,376
Accrued liabilities	934,885	1,015,752
Due to City of Franklin	95,192	77,734
Advance from municipality	155,700	-
Pension liability	47,005	212,661
Compensated absences reserve	74,066	67,229
Bond Payable	1,113,466	1,167,320
Bond i dyddio	2,449,420	2,576,072
Deferred Liabilities:	, ,	
Pension Liabilities	58,347	-
Total liabilities	2,507,767	2,576,072
Net Assets		
Invested in capital assets, net of related debt	43,776,582	45,085,063
Retained earnings	2,455,847	99,274
Total net assets	46,232,429	45,184,337
Total Liabilities and Net Assets	\$ 48,740,196	\$47,760,409

Franklin Municipal Water Utility Comparative Statement of Cash Flows For the period ended September 30, 2017 and 2016

	2017	2016
Cash Flows from Operating Activities		
Operating income (loss)	\$ 386,215	\$ 81,
Adjustments to reconcile operating income to		•
net cash provided by operating activities:		
Depreciation & Amortization	388,251	388,2
(Increase) decrease in assets:		
Accounts receivable	(566,365)	(832,0
Due from other funds	23,226	103,1
Taxes receivable	183,568	167,1
Prepaid expenses	2,304	4,0
Increase (decrease) in liabilities:		
Accounts payable	(701,377)	(794,8
Accrued expenses	923,000	982,3
Due to other funds	24,242	(108,6
Advance from municipality	155,700	
GASB 68 pension	(155,700)	
Total Adjustments	276,849	(90,4
Net Cash Provided (Used) by Operating Activities	663,064	(8,8)
Cash Flows From Capital & Related Financing Activ		(141,9
Acquisition of capital assets	(206,822)	
Interest paid on long term debt	(33,388)	(34,4
Principal on long term debt	(55,000)	<u>(55,0</u>
Net Cash Provided (Used) in Capital	(005.040)	(224.4
and Financing Activities	(295,210)	(231,4
Cash Flows from Investing Activities		
Interest, property rental & other income	64,083	92,6
Net Change in Cash and Cash Equivalents	431,937	(147,6
Cash and Cash Equivalents, beginning of period	1,189,004	828,3
Cash and Cash Equivalents, end of period	\$ 1,620,941	\$ 680,7

City of Franklin Self Insurance Fund - Actives Balance Sheet September 30, 2017 and 2016

Assets	2017	2016
Cash and investments	\$ 2,276,392	\$ 3,068,856
Accounts receivable	594	576
Interfund advance receivable	275,000	275,000
Prepaid expenses	13,500	57,500
Total Assets	\$ 2,565,486	\$ 3,401,932
Liabilities and Net Assets		
Accounts payable	\$ 62,696	\$ 4,447
Claims payable	270,500	270,500
Unrestricted net assets	2,232,290_	3,126,985
Total Liabilities and Fund Balance	<u>\$ 2,565,486</u>	\$ 3,401,932

City of Franklin Self Insurance Fund - Actives Statement of Revenue, Expenses and Fund Balance For the Nine months ended September 30, 2017 and 2016

		2017	2017	2016	
	2017	Year-to-Date	Year-to-Date	Year-to-Date	
Revenue	Budget	Budget	Actual	Actual	
Medical Premiums-City	\$ 2,573,850	1,966,902	\$ 1,825,639	\$ 1,854,312	
Medical Premiums-Employee	426,800	324,335	317,287	313,441	
Other - Investment Income, etc.	35,000	26,250	46,353	46,958	
Medical Revenue	3,035,650	2,317,487	2,189,279	2,214,711	
Dental Premiums-City	115,400	74,240	81,330	80,169	
Dental Premiums-Retirees	5,850	5,850	3,492	3,456	
Dental Premiums-Employee	56,100	42,934	40,993	42,357	
Dental Revenue	177,350	123,024	125,815	125,982	
Total Revenue	3,213,000	2,440,511	2,315,094	2,340,693	
Expenditures:					
Active Employees-Medical					
Medical claims - Current Year	2,119,200	1,424,034	1,561,707	1,568,242	
Medical claims - Prior Year	•	-	267,708	263,316	
Prescription drug claims	335,000	235,914	214,487	218,283	
Refunds-Stop Loss Coverage			(4,349)	(188,482)	
Total Claims-Actives	2,454,200	1,659,948	2,039,553	1,861,359	
Medical Claim Fees	224,300	177,839	146,619	137,489	
Memberships		, -	3,180	3,120	
Miscellaneous Wellness	75,000	25,885	17,536	13,554	
Section 125 administration Fee	6,200	4,634	2,286	1,730	
Stop Loss Premiums	635,900	499,794	469,938	485,830	
ACA Fees	25,000	25,000	1,309	27,143	
Total Medical Costs-Actives	3,420,600	2,393,100	2,680,421	2,530,225	
Active Employees-Dental					
Dental Claims	152,000	112,433	128,186	128,955	
Dental Claim Fees	12,000	9,349	<u> 15,180</u>	9,156	
Total Dental Costs-Actives	164,000	121,782	143,366	138,111	
Retirees-Dental					
Dental Claims	6,100	4,806	4,857	7,114	
Dental Claim Fees	200	159	235_	140	
Total Dental Costs-Retirees	6,300	4,965	5,092	7,254	
Total Dental Costs	170,300	126,747	148,458	145,365	
Claims contingency	591,500	443,625	· -	-	
Total Expenditures	4,182,400	2,963,472	2,828,879	2,675,590	
Revenue over (under) expenditures	(969,400)	\$ (522,961)	(513,785)	(334,897)	
Net assets, beginning of year	2,746,075		2,746,075	3,461,882	
Net assets, end of period	\$ 1,776,675		\$ 2,232,290	\$ 3,126,985	

City of Franklin City of Franklin Post Employment Benefits Trust Balance Sheet September 30, 2017 and 2016

<u>Assets</u>	2017		2016
Cash and investments	\$ -	\$	_
Investments held in trust - Fixed Inc	1,888,077		1,470,866
Investments held in trust - Equities	3,562,042		3,534,624
Accounts receivable	17,892		9,955
Due from Water Utility	408		178
Total Assets	\$ 5,468,419	\$	5,015,623
Liabilities and Net Assets		-	
Accounts payable	\$ 6,525	\$	353
Claims payable	45,000		45,000
Due to City	17,175		192,638
Net assets held in trust for post emp	5,399,719		4,777,632
Total Liabilities and Fund Balance	\$ 5,468,419	\$	5,015,623

City of Franklin Post Employment Benefits Trust Statement of Revenue, Expenses and Fund Balance For the Nine months ended September 30, 2017 and 2016

	2017	2016	
	Year-to-Date		
Revenue	Actual	Actual	
ARC Medical Charges - City	\$ 192,680	\$ 174,680	
Medical Charges - Retirees	90,851	83,392	
Implicit Rate Subsidy	38,865	18,681	
Medical Revenue	322,396	276,753	
Expenditures:			
Retirees-Medical			
Medical claims - Current Year	145,168	103,058	
Medical claims - Prior Year	19,032	33,289	
Prescription drug claims	82,706	66,047	
Refunds-Stop Loss Coverage		3,239	
Total Claims-Retirees	246,906	205,633	
Medical Claim Fees	16,102	12,767	
Stop Loss Premiums	58,957	55,880	
Miscellaneous Expense	300	255	
ACA Fees	<u>131</u>	2,218	
Total Medical Costs-Retirees	322,396	276,753	
Revenue over (under) expenditures	-	-	
Annual Required Contribution-Net	31,399	(36,956)	
Other - Investment Income, etc.	482,484	296,603	
Total Revenues	513,883	259,647	
Net Revenues (Expenditures)	513,883	259,647	
Net assets, beginning of year	4,885,836	4,517,985	
Net assets, end of period	\$ 5,399,719	\$ 4,777,632	

COMBINING STATEMENT OF REVENUES, EXPENDITURES AND CHANGES IN FUND BALANCE NONMAJOR GOVERNMENTAL FUNDS FOR CITY OF FRANKLIN Period Ending 09/30/2017

<u> </u>	Library- Restricted Fund	Tourism Commission Fund	Fire Dept Grant Fund	St Martins Fair Fund	Health Dept Grant Fund	Other Grants	Donations Fund	Civic Celebrations Fund	TOTAL
Revenues									
Taxes	-	17,050	-	-	-	-	-	-	17,050
Real estate taxes	-	-	-	-	-	-	-	-	-
Special assessments	-	-	4 660	-	115,192	-	-	-	119,853
Intergovernmental	-	-	4,660	25,285	115,192	-	-	600	25,885
Licenses & permits	0.044	•	-	25,265	-	-	-	114,256	25,665 120,896
Charges for services	6,641	-	-	450	8,665	-	43,096	25,838	125,786
Miscellaneous revenue	47,738 74	-	-		6,065	-	43,080	20,030	74
Investment earnings Total Revenues	54,452	17,050	4,660	25,735	123,858		43,096	140,693	409,544
Expenditures									
Personal Services	-	-	-	27,730	39,720	-	-	27,330	94,780
Employee Benefits	-	-	-	7,972	10,855	-	_	9,867	28,693
Contractual Services	8,567	-	-	350	18,128	-	3,495	50,910	81,450
Supplies	22,211	-	1,250	1,283	25,934	-	21,343	26,307	98,328
Services & Charges	5,711	-	-	15,205	19,574	-	-	20,908	61,398
Facility Charges	-	-	_	-	-	-	-	-	-
Interest	-	-		-	<u></u>	<u> </u>	-	-	-
Total Expenditures	36,489	<u>.</u>	1,250	52,540	114,210	-	24,838	135,322	364,650
Excess (deficiency) of Revenues vs, Expenditures	17,963	17,050	3,410	(26,805)	9,648	-	18,257	5,371	44,894
Other Financing Sources Fund Transfers	-	. •	-	11,000	-	-	-	13,000	24,000
Other Financing Uses Capital Outlay	3,308	•	-	-	7,224	-	40,024	-	50,556
Net Change in Fund Balance	14,655	17,050	3,410	(15,805)	2,424	-	(21,767)	18,371	18,338
Fund Balance - Beginning:	124,289	_	14,869	(18,470)	146,387	315	177,333	48,386	493,109
Fund Balance - Ending:	138,944	17,050	18,279	(34,275)	148,811	315	155,566	66,757	511,447

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APPROVAL Slur Pol

REQUEST FOR COUNCIL ACTION

MEETING DATE Nov 7, 2017

REPORTS & RECOMMENDATIONS

Report on removal of Investment in the OPEB
Trust upon review by Finance Committee

ITEM NUMBER

G.17.

Background

The City of Franklin established an Other Post Employment Benefit Trust (OPEB) in 2008 to provide resources to pay retiree health benefits. That Trust has been managed by the Director of Finance & Treasurer since November 2013, when the investment advisor relationship was separated (related to mediocre investment results).

Since that time the Trust has primarily held index related passively managed equity investments and fixed income securities, all in compliance with the Investment Policy the Common Council last updated in June 2014.

One position, the Convergence Core Plus Institutional Fund, an actively managed equity product, was added to the Trust while still managed by the outside investment advisor. The investment totals \$552,197 on Oct 18, 2017 (15.3% of the equity portfolio).

Analysis

A recent review of the Convergence fund noted that it had a 29.1% short position in equities.

The OPEB Investment policy (section VII) prohibits short sales of securities, but the policy states that: "However, to the extent that mutual funds or separate account managers utilize such investments and strategies, then such activity will be acceptable within the general confines of this policy provided that they are not a CORE ATTRIBUTE [emphasis added] of such fund or manager."

A short sale is the sale of a security that you do not already own, requiring the seller to purchase the security in the future (potentially at an unlimited loss).

Finance Committee discussion centered on the 29.1% short position in this fund. The size of the short position, and the stated investment objectives of the fund, indicate that short selling is a core investment strategy.

Other considerations would include:

- The fund is rather small (with only \$126.6 million in assets) and
- has a high relative expense ratio (1.31% which compares poorly to the 0.04% to 0.07% for the passive index investments).
- The Convergence Core Plus Institutional fund has performed over the last three years slightly above its category and slightly below the S&P 500.

The Committee voted to sell the position in agreement with the Treasurer's recommendation to immediately liquidate the investment due to the investment policy restriction on short sales. The security was sold Oct 25, 2017 with an \$80,000 gain.

Due to the nature of this transaction, the complete removal of an investment and the reason for the removal, the Finance Committee expressed a desire that the Treasurer make the Common Council aware of this transaction.						
COUNCIL ACTION REQUESTED						
Informational only, No action is requested.						
Such action as the Common Council deems appropriate.						
Finance Dept - Paul						

Slw M

REQUEST FOR COUNCIL ACTION

MEETING DATE

11/07/2017

REPORTS & RECOMMENDATIONS

Authorize the Director of Administration to Execute the Necessary Agreement with Paragon Development Systems (PDS) for Services and Equipment for the "Wireless Access Points with Monitoring" 2017 IS Capital Project ITEM NUMBER

G.18,

The project technical scope and requirements were modified to include all City of Franklin offices (except Water). Completed in the manner set forth below, the proposed 2018 capital project for wireless networking expansion (which was not funded) has been superseded by this project and is no longer needed.

Executive Summary:

Wireless networks within the City of Franklin are a mixture of different equipment vendors and models, which lack the ability to be centrally configured and monitored. Most of the equipment is obsolete and is no longer being patched by the hardware manufacturers. This leads the equipment being exposed to emergent security threats, such as the WPA2 KRACK encryption vulnerability that was announced on October 16, 2017. Current guest networks are vulnerable to new security vulnerabilities and could potentially allow guest users access to internal networks and resources. All wireless equipment deployed today lacks any central monitoring or logging of wireless activity.

The need for wireless connectivity for business purposes has extended beyond providing Internet access to visitors as a convenience and, instead, has become essential for undertaking daily business activities. More and more devices, sensors, printers, and cameras are being connected to business networks that require stable and reliable wireless connectivity. Mobile devices must be allowed to easily and securely connect to network and Internet resources. This need is further extended when Emergency Management wireless connectivity must be provided to PD command centers and communications facilities.

This proposal requests the implementation of new Aruba wireless access points with internal software controllers to replace all existing wireless networking equipment. The City of Franklin Technology Commission has unanimously approved the usage of the Aruba Central cloud-based wireless configuration and management services. This service is a low-cost solution to providing centralized configuration, reporting, and security monitoring for all wireless devices, without the needed expense of having a dedicated hardware wireless controller at each location. This is a significant cost savings of \$2,000 - \$4,000 per office. Under the hybrid architecture of using SDN (software defined networking) wireless access points with cloud-based management services, a highly secure wireless network can be easily provisioned and managed at a significantly reduced cost. Under this proposal, all City of Franklin offices (except Water) will be provisioned with standardized Aruba wireless networking equipment and secured using cloud-based technology.

Background:

Existing wireless infrastructure is currently inadequate to meet changing demands of a growing mobile workforce. Wireless network connectivity, once thought only as a convenience for guests and conference visitors, is rapidly growing as an operational necessity. More and more devices require wireless network

connectivity in order to correctly function. An example can be seen with the Zoll defibrillators at each fire station. Within 2017, Milwaukee County made significant changes to their reporting infrastructure. These changes mandated that each Zoll connect wirelessly and synchronize field usage data to a County portal website. FTP transfers using a desktop synchronization software was abandoned in favor of full wireless synchronization.

As usage of internal guest and employee wireless networks increases, so does the need for segmenting and separating this traffic from sensitive internal resources. Wireless access points remain a point of penetration, hence all equipment should be enterprise grade and have the ability to automatically detect and prevent rogue traffic. Wireless access points should have integrated Intrusion Detection & Prevention Systems (IDS/IDP), along with the ability to create network access control lists. Rules separate network traffic and limit bandwidth consumed by wireless devices. Without bandwidth throttling mechanisms, wirelessly connected guest devices can consume large portions of Internet bandwidth. Wireless devices need to be segmented, secured, throttled, and monitored. Inexpensive consumer grade wireless access points cannot adequately perform any of these functions.

Proposed Solution:

Aruba/HP was selected as the main wireless infrastructure vendor due to deep integration with the 2920 and 4500 HP switches that were purchased in 2016. Within the Aruba/HP ecosystem, full end-to-end monitoring was possible between mobile devices connected to a wireless access point and a server/infrastructure switch that was being utilized for internal system access. The platform allows software defined controllers that are integrated into each wireless access point. This allows a user to roam between access points within a building and still maintain an uninterrupted connection. The platform has strong security features built into the access point; along with centralized reporting and configuration mechanisms. The Aruba IAP-325 access point was selected as the standard "smart" wireless controller, due to its ability to integrate and extend the features of the existing HP equipment. The Aruba IAP-325 access point has been selected for high-density user areas (75-100 anticipated users), while the more cost-effective, mid-grade IAP-315 access point is used in areas where usage is more sparse. All EOC (Emergency Operation Centers) will be equipped with high-density equipment, since the number of users occupying this area cannot be easily predicted.

Technical requirements for the project are as follows:

- Integrated wireless controllers for easy roaming between rooms/areas.
- Up to 14 independent wireless networks can be created and assigned to the access point.
- Full segmented guest networks, which allow for different levels of user/visitor authentication.
- Assignment of access control lists to restrict access to servers and networks. This is done on the access point itself, and not further on down the network.
- 802.11 AC compatibility that allows for both 5 and 2.4 GHZ access. Up to 1.7 Gbps file transfer rates can be achieved, equal to that of a wired network.
- Integrated security monitoring and IDS/IDP intrusion controls.
- Bandwidth throttling for each wireless network, giving priority to bandwidth and network access for critical job functions.
- Endpoint to Endpoint visibility of all traffic traversing both the wired and wireless network.
- Centralized configuration management, allowing all access points to be uniformly provisioned and deployed. This creates a highly stable and predictable network.
- All access points support Power Over Ethernet (POE) standards and receive power directly from the HP network switches.
- Full support of MIMO Wave 2 standards.

The proposed architecture will provide the following connectivity:

- 19 wireless access points (plus purchase of two demonstration units)
 - o City Hall 6 APs (2 IAP-325 High Density Access Points & 4 IAP-315 Access Points)
 - Common Council Room (HD), Community Room (HD), Hearing Room, Engineering Conference, Clerk's Office, Finance/Health Suite
 - Police Department 6 APs (1 IAP-325 High Density Access Points & 5 IAP-315 Access Points)
 - EOC (HD), Executive Conference Room, Court Room, Training Room, Briefing Room, Data Center/IT
 - o Fire Stations 1, 2, & 3 2 APs Each (2 IAP-315 Access Points)
 - Training Center, Garage
 - o DPW 1 AP (1 IAP-315 Access Point)

Fiscal:

Capital funding has allocated \$20,300 towards the initial project. Anticipated project costs are:

- \$13,975 (PDS) Purchase of 19 Aruba wireless access points plus two existing demonstration units.
 - Includes 3-year, next day replacement warranty.
 - o Include 5-year Aruba Central license per access point.
- \$2,960 (PDS) 16 hours of senior wireless LAN engineering time to assist to creating a highly secure central AP configuration and the initial setup of Aruba Central.
- \$3,365 CAT-6a Supplemental LAN cabling to correctly ceiling-mount all units for greatest signal strength.

Project Timeline:

Because cloud services will be used to push down a new configuration to each access point, initial provisioning of the equipment should be able to be performed in a matter of days. The greatest amount of time needed for the project will be the installation of cabling that may be needed to correctly surface-mount the access points to the appropriate areas of the ceiling tiles.

- 2 days Initial run through of all offices to determine the placement of the access points and expected range of the signal strength.
- 14 days Installation of additional CAT6 cable runs.
- 1 day Configuration of Aruba Central, AP configuration, and enterprise certificate installation.
- 1 day Installation of access points and enabling configuration.
- 2 days Testing and certification of equipment.

COUNCIL ACTION REQUESTED

Authorize the Director of Administration to execute the necessary agreement with Paragon Development Systems (PDS) for services and equipment for the "Wireless Access Points with Monitoring" 2017 capital project.

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APPROVAL

REQUEST FOR COUNCIL ACTION

MEETING DATE

11/07/2017

REPORTS & RECOMMENDATIONS

Carpeting Replacement Project in the City Clerk's Area of Franklin City Hall and Consideration of Asbestos Abatement ITEM NUMBER

G.19.

The 2017 budget has \$18,000 in the Municipal Buildings budget for the replacement of carpeting, which was intended to be used within the area around the City Clerk's Office, including the individual offices. Before final bidding, the Director of Administration is seeking direction from the Common Council on addressing or ignoring the asbestos-containing tiles underneath the existing carpeting.

The City has re-carpeted other areas multiple times over these same tiles and has not had a problem with the tiles separating or breaking. For example, the carpeting in the Planning Department was recently relaid over the existing old tiles. The same strategy was used successfully when the current Finance Department area was remodeled. In both instances, there were no problems with the tiles. This was not the case with the Health Department project. With the Health Department project, the removal of the old carpet caused sufficient damage to the tiles, such that the carpet project was delayed. The delay was necessary to obtain asbestos remediation quotes. Assuming the remediation is over \$5,000, a notice would also need to be published. Such a project also has a delay caused by the contractor having to make application to the DNR. Additionally, a separate contractor has to come and remove and later re-install a window so that a temporary ventilation system (fans) creating negative pressure can be installed for the enclosed project area.

The asbestos remediation in the Health wing was instigated because the damaged tile was quickly approaching the maximum allowable area of impact without remediation, which is understood to be just three square feet of impacted area. The cost for abatement was \$4,374 for approximately 1,365 square feet. At the same cost per square foot, the Clerk's area (2,688 square feet when including the tile in front of the front counter) would cost \$8,600, plus around \$1,100 for window removal and air sampling (required). [Note the larger project area could change the method of removal which could increase costs by 10-15%, based upon previous information.]

We have pulled up small sections of the carpet in 5 areas and there was no problem, but it is not possible to guarantee problems would not occur. The underlying flooring is different since the Health Department is at grade, whereas the City Clerk's Office is a second floor above the Planning Department. Will this mean the tile will stay adhered as it did in Planning or Finance and during the limited testing? It is impossible to tell.

Options:

- 1) Determine to proceed with the carpet project including mitigation. The added project costs of between \$10,000 and \$15,000 would be attributed to the City Hall project as the asbestos abatement resolves a long-term issue. Staff relocation time would be approximately 3 to 4 weeks.
- 2) Determine to proceed with the carpet without mitigation and there <u>are no tile issues</u>. Save abatement costs and shorten staff relocation time to about 2 weeks. Risk of option 3 occurs.
- 3) Determine to proceed with the carpet without mitigation and there <u>are tile issues</u>. The added remediation costs will occur. Staff relocation time would be approximately 6 to 8 weeks.

Recommendation: If cost is the only consideration, then one would risk leaving the tiles in place. If one considers that asbestos regulations aren't likely to lessen in the future, then the sooner the asbestos is removed the cheaper it will be to do so. Also, it is simply no longer a problem waiting to happen. Additionally, the longer the relocation of staff, the worse the solution. Given these simple assumptions, the Director of Administration would lean toward the first option: coordinating the abatement and carpeting contracts so each step promptly follows the other.
COUNCIL ACTION REQUESTED
Direct staff to proceed with the project for the carpeting of the City Clerk's Office including abatement of the asbestos-containing tiles, with costs in excess of the existing Capital Outlay project to come from the Capital Improvement Fund City Hall project.

Slw MM

REQUEST FOR COUNCIL ACTION

MEETING DATE

11/07/2017

REPORTS & RECOMMENDATIONS

Contract with Liechty & Associates, Inc. for Design of an HVAC System Replacement for Franklin City Hall ITEM NUMBER

6,20,

The Common Council previously authorized a contract with Liechty & Associates, Inc. for a preliminary review of the HVAC system at City Hall. That study was presented to and received by the Common Council at their meeting of June 20, 2017 (a copy is attached for your convenience). The two primary results of that study were determination of a strategy/technology to be used in the project and an improved project cost estimate. That project cost estimate is important because it helps determine what portion of the City Hall Remodeling Project is available for addressing a redesign of building entrances and addressing replacement/redesign of the perimeter boards circling the top, exterior of the City Hall, since those need to be addressed in relation to the roofing portion of the project.

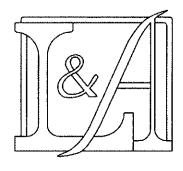
Selecting and completing design alternatives with an architect was delayed this summer due, in part, to the extra work of starting the Common Council budget process in June. Nonetheless, it is desirous to get the full project moving. While work is instigated and proceeds with an architect, the Director of Administration recommends moving forward with design of the HVAC component. Since the Common Council has previously determined that there would not be significant interior renovations, the HVAC design should be able to move forward. There is some potential for a limited change order if the final architectural design alters the main entrance vestibule substantially, but that should be a small component of the overall HVAC design project.

The overall project will involve detailed designs and plans for installation of a variable refrigerant flow (VRF) system throughout the portion of City Hall that is served by the two rooftop units being replaced (essentially the areas of the City Hall from the Council Chambers through to the Health Department), including both floors. The benefits and flexibility of a VRF system, particularly in a retro-fit scenario, are described in the attached HVAC assessment. It is worth noting that eventually when the unit serving the north end of the building (i.e., Building Inspection) is addressed, it can be treated as a module expansion of this system and the controls could be interfaced and administered as one multi-part system.

Randall Liechty has proposed a fixed fee of \$29,700 for HVAC engineering services. This is between 5.1 and 4.6 percent of the estimated cost of the HVAC portion of the total project. The attached proposal will be revised to a format acceptable to the City Attorney and will be expanded to include his typical boilerplate items. Additionally, the deadlines and references to bidding timelines will be altered to provide flexibility so that it can be coordinated with the overall project and the design work to be performed by an architect.

COUNCIL ACTION REQUESTED

Motion to authorize the Director of Administration to execute a Professional Services Agreement with Liechty & Associates, Inc. for design of an HVAC system replacement for the central and southern portions of Franklin City Hall for \$29,700 in a form as approved by the City Attorney.



LIECHTY & ASSOCIATES INC. CONSULTING ENGINEERS

15220 GEBHARDT ROAD, ELM GROVE, WI 53122 PHONE: 262-366-3676 email: rliechtype@msn.com

June 5, 2017

City of Franklin 9229 W. Loomis Road Franklin, WI 53132

Attention: Mr. Mark W. Luberda - Director of Administration

RE: VRF - HVAC systems replacement - Franklin City Hall

Dear Mark,

I am pleased to propose HVAC Engineering services to prepare plans and specifications for a variable refrigerant flow (VRF) building retrofit. The HVAC design will address the west council chambers and offices currently served by (3) Mammoth rooftop multi-zone heating / cooling units.

In summary, I've established the following HVAC design parameters:

- 1. The west main and lower level will be heated and air conditioned throughout with a VRF system with supplemental heat provided by the existing hot water boiler system.
- 2. Dehumidification will be provided through the air conditioning system (s).
- 3. Fresh air will be introduced through air-to-air heat exchangers, and exhaust air will be removed from toilet rooms, utility and work room areas.
- 4. Temperature control will be integrated with a DDC automation system, with an interface to a desktop computer or laptop.
- 5. Local temperature sensors will be used with set point adjustment and over-ride control.
- 6. Remote monitoring will be accessible via an internet interface.

I am pleased to propose HVAC Engineering and Design services that will include the following:

HVAC Design for competitive bidding utilizing:

DX heating and cooling with a combination of fully ducted and ductless air distribution systems, with centralized equipment and supplemental hydronic heat.

Design of a fully ducted ventilation system.

Calculations and worksheets for local review.

Sizing and selection of all new equipment.

Meeting time to discuss and present HVAC concepts.

Preparation of HVAC plans using AutoCad on background files provided by our office.

Preparation of specifications for competitive bidding.

Answer questions during bidding.

Review of work phasing and scheduling with the Contractor

Review of shop drawings and submittals.

Four (4) site visits, (2) observations during construction, (1) following demolition of existing ducts and RTU equipment removal, and (1) final on-site observation at completion.

Review of start-up reports and balancing data.

Prepare a final observation report at the completion of construction.

HVAC System Replacement June 5, 2017

For HVAC engineering services including estimated mechanical construction and replacement costs, I am proposing a fixed fee of \$29,700.

Scheduling: HVAC Engineering would be completed, and documents released for Bidding the end of August, 2017.

Insurance

The following insurance coverage will be maintained with an authorized insurance carrier during the life of this agreement:

Α.	General/Commercial Liability	\$1,000,000
В.	Auto Liability: Bodily injury/ Property Damage	\$1,000,000
C.	Workers Compensation and Employee Liability	\$ 500,000
D.	Professional Liability	\$1,000,000

If higher limits or additional coverage is required, the above proposed fee will be adjusted to cover policy expenses.

If you would elect to retain our services, please indicate by signing below and return a copy of this proposal to our office. If you should have any questions, please do not hesitate to call. Thank you for allowing me to propose the services of Liechty & Associates Inc.

Respectfully,	
Randall L. Liechty, P.E., LEED A	,p
President	_
rl	D (
Accented By:	- Ilate

This document has important legal consequences; consultation with an attorney is encouraged with respect to its use or modification. This document should be adapted to the particular circumstances of the contemplated Project and the controlling Laws and Regulations.

SHORT FORM OF AGREEMENT BETWEEN OWNER AND ENGINEER FOR PROFESSIONAL SERVICES

Prepared by



and

Issued and Published Jointly by









AMERICAN COUNCIL OF ENGINEERING COMPANIES

ASSOCIATED GENERAL CONTRACTORS OF AMERICA

AMERICAN SOCIETY OF CIVIL ENGINEERS

PROFESSIONAL ENGINEERS IN PRIVATE PRACTICE

A Practice Division of the

NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

SHORT FORM OF AGREEMENT BETWEEN OWNER AND ENGINEER FOR PROFESSIONAL SERVICES

	S AN AGREEMENT effective as of JUNE 12, 2017 between	("Effective
_c	MY OF FRANKLIN WISCONSIN	("Owner")
and		
11	ECHTY & ASSOCIATES, INC.	("Engineer").
Owner follow	's Project, of which Engineer's services under this Agreement are a part, is gene s:	rally identified as
VR	F-HVAC SYSTEMS REPLACEMENT	("Project").
Engine	eer's Services under this Agreement are generally identified as follows:	
	EE ATTACHEN PROPOSAL DATED JUNE 5, 2 ribe scope of services, or refer to an attachment. See Exhibit A, EJCDC E-500, ope of engineering services.]	o 1 7 for an example of a
Owne	and Engineer further agree as follows:	
1.01	Basic Agreement and Period of Service	
A.	Engineer shall provide, or cause to be provided, the services set forth in authorized by Owner, or if required because of changes in the Project, Esservices in addition to those set forth above. Owner shall pay Engineer for its in Paragraphs 7.01 and 7.02.	ngineer shall furnish
В.	Engineer shall complete its services within a reasonable time, or within the for period: [Here insert any specific completion date, or the time for completion months from the Effective Date].	- -
C.	If the Project includes construction-related professional services, then completion of services is conditioned on the time for Owner and its conconstruction not exceeding months. If the actual time to complete connumber of months indicated, then Engineer's period of service and its total control of the control of t	struction exceeds the

appropriately adjusted.

2.01 Payment Procedures

A. Invoices: Engineer shall prepare invoices in accordance with its standard invoicing practices and submit the invoices to Owner on a monthly basis. Invoices are due and payable within 30 days of receipt. If Owner fails to make any payment due Engineer for services and expenses within 30 days after receipt of Engineer's invoice, then the amounts due Engineer will be increased at the rate of 1.0% per month (or the maximum rate of interest permitted by law, if less) from said thirtieth day. In addition, Engineer may, after giving seven days written notice to Owner, suspend services under this Agreement until Engineer has been paid in full all amounts due for services, expenses, and other related charges. Owner waives any and all claims against Engineer for any such suspension. Payments will be credited first to interest and then to principal.

3.01 Termination

A. The obligation to continue performance under this Agreement may be terminated:

1. For cause,

a. By either party upon 30 days written notice in the event of substantial failure by the other party to perform in accordance with the Agreement's terms through no fault of the terminating party. Failure to pay Engineer for its services is a substantial failure to perform and a basis for termination.

b. By Engineer:

- upon seven days written notice if Owner demands that Engineer furnish or perform services contrary to Engineer's responsibilities as a licensed professional; or
- 2) upon seven days written notice if the Engineer's services for the Project are delayed for more than 90 days for reasons beyond Engineer's control.

Engineer shall have no liability to Owner on account of a termination by Engineer under Paragraph 3.01.A.1.b.

- c. Notwithstanding the foregoing, this Agreement will not terminate as a result of a substantial failure under Paragraph 3.01.A.1.a if the party receiving such notice begins, within seven days of receipt of such notice, to correct its substantial failure to perform and proceeds diligently to cure such failure within no more than 30 days of receipt of notice; provided, however, that if and to the extent such substantial failure cannot be reasonably cured within such 30 day period, and if such party has diligently attempted to cure the same and thereafter continues diligently to cure the same, then the cure period provided for herein shall extend up to, but in no case more than, 60 days after the date of receipt of the notice.
- 2. For convenience, by Owner effective upon Engineer's receipt of written notice from Owner.
- B. The terminating party under Paragraph 3.01.A may set the effective date of termination at a time up to 30 days later than otherwise provided to allow Engineer to complete tasks whose value would

- otherwise be lost, to prepare notes as to the status of completed and uncompleted tasks, and to assemble Project materials in orderly files.
- C. In the event of any termination under Paragraph 3.01, Engineer will be entitled to invoice Owner and to receive full payment for all services performed or furnished in accordance with this Agreement and all reimbursable expenses incurred through the effective date of termination.

4.01 Successors, Assigns, and Beneficiaries

- A. Owner and Engineer are hereby bound and the successors, executors, administrators, and legal representatives of Owner and Engineer (and to the extent permitted by Paragraph 4.01.B the assigns of Owner and Engineer) are hereby bound to the other party to this Agreement and to the successors, executors, administrators, and legal representatives (and said assigns) of such other party, in respect of all covenants, agreements, and obligations of this Agreement.
- B. Neither Owner nor Engineer may assign, sublet, or transfer any rights under or interest (including, but without limitation, moneys that are due or may become due) in this Agreement without the written consent of the other, except to the extent that any assignment, subletting, or transfer is mandated or restricted by law. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under this Agreement.
- C. Unless expressly provided otherwise, nothing in this Agreement shall be construed to create, impose, or give rise to any duty owed by Owner or Engineer to any contractor, subcontractor, supplier, other individual or entity, or to any surety for or employee of any of them. All duties and responsibilities undertaken pursuant to this Agreement will be for the sole and exclusive benefit of Owner and Engineer and not for the benefit of any other party.

5.01 General Considerations

- A. The standard of care for all professional engineering and related services performed or furnished by Engineer under this Agreement will be the care and skill ordinarily used by members of the subject profession practicing under similar circumstances at the same time and in the same locality. Engineer makes no warranties, express or implied, under this Agreement or otherwise, in connection with Engineer's services. Subject to the foregoing standard of care, Engineer and its consultants may use or rely upon design elements and information ordinarily or customarily furnished by others, including, but not limited to, specialty contractors, manufacturers, suppliers, and the publishers of technical standards.
- B. Engineer shall not at any time supervise, direct, control, or have authority over any contractor's work, nor shall Engineer have authority over or be responsible for the means, methods, techniques, sequences, or procedures of construction selected or used by any contractor, or the safety precautions and programs incident thereto, for security or safety at the Project site, nor for any failure of a contractor to comply with laws and regulations applicable to such contractor's furnishing and performing of its work.

- C. This Agreement is to be governed by the law of the state or jurisdiction in which the Project is located.
- D. Engineer neither guarantees the performance of any contractor nor assumes responsibility for any contractor's failure to furnish and perform its work in accordance with the contract between Owner and such contractor. Engineer is not responsible for variations between actual construction bids or costs and Engineer's opinions or estimates regarding construction costs.
- E. Engineer shall not be responsible for the acts or omissions of any contractor, subcontractor, or supplier, or of any of their agents or employees or of any other persons (except Engineer's own employees) at the Project site or otherwise furnishing or performing any construction work; or for any decision made regarding the construction contract requirements, or any application, interpretation, or clarification of the construction contract other than those made by Engineer.
- F. The general conditions for any construction contract documents prepared hereunder are to be the "Standard General Conditions of the Construction Contract" as prepared by the Engineers Joint Contract Documents Committee (EJCDC C-700, 2007 Edition) unless the parties agree otherwise.
- All documents prepared or furnished by Engineer are instruments of service, and Engineer retains an ownership and property interest (including the copyright and the right of reuse) in such documents, whether or not the Project is completed. Owner shall have a limited license to use the documents on the Project, extensions of the Project, and for related uses of the Owner, subject to receipt by Engineer of full payment for all services relating to preparation of the documents and subject to the following limitations: (1) Owner acknowledges that such documents are not intended or represented to be suitable for use on the Project unless completed by Engineer, or for use or reuse by Owner or others on extensions of the Project, on any other project, or for any other use or purpose, without written verification or adaptation by Engineer; (2) any such use or reuse, or any modification of the documents, without written verification, completion, or adaptation by Engineer, as appropriate for the specific purpose intended, will be at Owner's sole risk and without liability or legal exposure to Engineer or to its officers, directors, members, partners, agents, employees, and consultants; (3) Owner shall indemnify and hold harmless Engineer and its officers, directors, members, partners, agents, employees, and consultants from all claims, damages, losses, and expenses, including attorneys' fees, arising out of or resulting from any use, reuse, or modification of the documents without written verification, completion, or adaptation by Engineer; and (4) such limited license to Owner shall not create any rights in third parties.
- H. To the fullest extent permitted by law, Owner and Engineer (1) waive against each other, and the other's employees, officers, directors, agents, insurers, partners, and consultants, any and all claims for or entitlement to special, incidental, indirect, or consequential damages arising out of, resulting from, or in any way related to the Project, and (2) agree that Engineer's total liability to Owner under this Agreement shall be limited to \$50,000 or the total amount of compensation received by Engineer, whichever is greater.
- I. The parties acknowledge that Engineer's scope of services does not include any services related to a Hazardous Environmental Condition (the presence of asbestos, PCBs, petroleum, hazardous substances or waste as defined by the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. §§9601 et seq., or radioactive materials). If Engineer or any other party

encounters a Hazardous Environmental Condition, Engineer may, at its option and without liability for consequential or any other damages, suspend performance of services on the portion of the Project affected thereby until Owner: (1) retains appropriate specialist consultants or contractors to identify and, as appropriate, abate, remediate, or remove the Hazardous Environmental Condition; and (2) warrants that the Site is in full compliance with applicable Laws and Regulations.

- J. Owner and Engineer agree to negotiate each dispute between them in good faith during the 30 days after notice of dispute. If negotiations are unsuccessful in resolving the dispute, then the dispute shall be mediated. If mediation is unsuccessful, then the parties may exercise their rights at law.
- 6.01 Total Agreement
 - A. This Agreement (including any expressly incorporated attachments), constitutes the entire agreement between Owner and Engineer and supersedes all prior written or oral understandings. This Agreement may only be amended, supplemented, modified, or canceled by a duly executed written instrument.
- 7.01 Basis of Payment—Lump Sum
 - A. Using the procedures set forth in Paragraph 2.01, Owner shall pay Engineer as follows:
 - 1. A Lump Sum amount of \$ 29,700
 - B. The portion of the compensation amount billed monthly for Engineer's services will be based upon Engineer's estimate of the percentage of the total services actually completed during the billing period.

[or]

- 7.01 Basis of Payment—Hourly Rates Plus Reimbursable Expenses
 - A. Using the procedures set forth in Paragraph 2.01, Owner shall pay Engineer as follows:
 - 1. An amount equal to the cumulative hours charged to the Project by each class of Engineer's employees times standard hourly rates for each applicable billing class for all services performed on the Project, plus reimbursable expenses and Engineer's consultants' charges, if any.
 - 2. Engineer's Standard Hourly Rates are attached as Appendix 1.
 - 3. The total compensation for services and reimbursable expenses is estimated to be \$

[or]

- -7.01 Basis of Payment—Percentage of Construction Cost
 - A. Using the procedures set forth in Paragraph 2.01, Owner shall pay Engineer as follows:

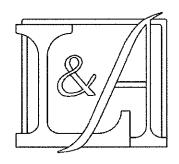
1. An amount equal to percent of the cost to construct the work designed or specified by the Engineer ("Construction Cost"). This amount includes compensation for Engineer's Services and services of Engineer's consultants, if any. The percentage of Construction Costs noted herein accounts for labor, overhead, profit, and reimbursable expenses.
As a basis for payment to Engineer, Construction Cost will be based on one or more of the following determinations with precedence in the order listed:
 For work designed or specified by Engineer and incorporated in the completed Project, the actual final cost of the work performed by Contractor.
b. For work designed or specified by Engineer but not constructed, the lowest bona fide bid received from a qualified bidder for such work; or, if the work is not bid, the lowest bona fide negotiated proposal or contractor's estimate for such work.
c. For work designed or specified but not constructed, upon which no bid, proposal, or estimate is received, Engineer's most recent opinion of probable Construction Cost.
B. The portion of the compensation amount billed monthly for Engineer's services will be based upon Engineer's estimate of the percentage of the total services actually completed during the billing period.
[or]
7.01 Basis of Payment—Direct Labor Costs Times Factor, Plus Reimbursables
A. Using the procedures set forth in Paragraph 2.01, Owner shall pay Engineer as follows:
1. An amount equal to Engineer's Direct Labor Costs times a factor of for services of Engineer's employees engaged on the Project, plus reimbursable expenses, and Engineer's consultants' charges, if any.
2. The total compensation for services and reimbursable expenses is estimated to be \$
7.02 Additional Services: For additional services of Engineer's employees engaged directly on the Project, Owner shall pay Engineer an amount equal to the cumulative hours charged to the Project by each class of Engineer's employees times standard hourly rates for each applicable billing class; plus reimbursable expenses and Engineer's consultants' charges, if any. Engineer's standard hourly rates are attached as Appendix 1.

Attachments: Appendix 1, Engineer's Standard Hourly Rates [Exclude Appendix 1, Engineer's Standard Hourly Rates, only if hourly rates are not to be used for either basic compensation (Paragraph 7.01) or additional services (Paragraph 7.02)]

[Itemize any other attachments that will be part of the Agreement].

IN WITNESS WHEREOF, the parties hereto have executed this Agreement, the Effective Date of which is indicated on page 1.

OWNER:	ENGINEER: .
Ву:	By: James RANDAULIECHTY
Title:	Title: PRESIDENT
Date Signed:	Date Signed: 06.05-2017
_	Engineer License or Firm's Certificate Number: E - 21542
	State of: Wiscopsin
Address for giving notices:	Address for giving notices:
	15220 GEBHAROT ROAD
	ELM GROK, WI 53122

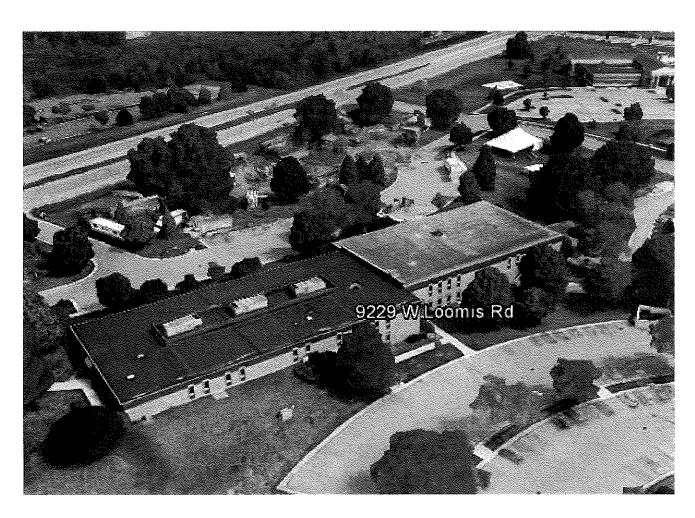


LIECHTY & ASSOCIATES INC. CONSULTING ENGINEERS

15220 GEBHARDT ROAD, ELM GROVE, WI 53122 PHONE: 262-366-3676, email: rliechtype@msn.com

HVAC ASSESSMENT AND EQUIPMENT REPLACEMENT REPORT

CITY HALL - FRANKLIN, WISCONSIN



WEST OFFICES & COUNCIL CHAMBERS MAY 31, 2017

GENERAL INFORMATION AND CONDITION

The HVAC (Heating Ventilation and Air Conditioning) systems serving the west First Floor and Lower Level areas of City Hall consist of (3) multi-zone heating and cooling manufactured in 1992and installed in 1993. Each of these units provide between 9 and 11 zones of heating and cooling control. The typical useful service life of rooftop HVAC equipment is estimated at 18-20 years. The existing units have been serving this facility for 24 years. Replacement parts are expensive, and may no longer be available. Energy Codes and changes in control technology have rendered multi-zone control out -of -date and obsolete.

Multi-zone control is simple, yet inherently inefficient to operate. The general concept behind multi-zone control is based upon the idea of providing conditioned air with zoning control to multiple areas with a single rooftop unit.

To accomplish multi-zone control, a heating coil temperature is maintained to provide adequate heat to satisfy the zone with greatest need for heat. Likewise, a cooling coil temperature, or an outside air damper setting is maintained to provide adequate cooling to satisfy the zone with greatest need for cooling. The zones served by the rooftop unit which are not at either extreme use a mixture of air that is too hot and air that is too cool to maintain temperature control in the zone served.

The current zoning is not favorable to the use and layout of present workspaces due to interior modifications and changes in use. The existing glass fiber air distribution ductwork is in poor condition. I am recommending removal and replacement of the glass fiber distribution ductwork to eliminate leaks both present and future. The taped joints over time dry out and fail.

Control and monitoring of the HVAC systems and interior building conditions is not possible with the existing controls serving this area.

DISCUSSION

There are several options to consider when contemplating an Office Building HVAC retrofit or replacement. Technology continues to evolve and efficiency improvements create opportunities to reduce costs to operate.

Reuse of existing equipment that is in working order, serviceable and efficiently operating is a primary consideration.

Disruption to existing occupancy and building operations is also a major consideration. Typically a phased approach is put in place when construction takes place in order to accommodate ongoing business procedures.

OPTIONS

Single zone rooftop units and furnaces are rarely used where office space exceeds 2000 SF, unless an open concept is appropriate or individualized tenant billing is desired.

Variable air volume (VAV) systems were introduced in the mid to late 1970's, and are common today in many office buildings, providing good efficiency by reducing fan energy, and offering flexibility for changes in building use over time. Controls for these systems have evolved, and have become standardized to communicate information from each component in order to optimize efficiency and alert the building engineer to malfunctions or failures. Some reheating of air conditioned cool air is still required to prevent sub-cooling of spaces with low occupancy.

Variable refrigerant flow (VRF) systems began to be applied in the early 2000's, and are a frequently used HVAC option for building retrofits as well as for new building construction. A VRF system distributes heating and cooling with refrigerant. Refrigerant piping to each terminal unit is small and well suited for applications where mechanical space above the ceiling is limited, or where limitations are imposed by existing plumbing and electrical utilities in remodeled spaces. Distribution ductwork to occupied spaces is smaller when it is supplying only ventilation air. Some supplemental heat is usually required in our climate when outdoor temperatures drop to single digits and below.

RECOMMENDATION

Following an analysis of the existing building layout and use, I am recommending an HVAC replacement which will incorporate a conversion to a VRF (Variable Refrigerant Flow) heat pump system while taking advantage of existing hot water boiler capacity to provide greater zone control. This will also incorporate a dedicated outdoor air (DOA) ventilation unit to maximize efficiency and minimize the size of replacement air distribution ductwork and equipment.

The existing rooftop units represent a centralized approach to conditioning the interior environment. All the air is heated or cooled at the rooftop unit and is then mixed and distributed to the spaces or zones served. A majority of the air is then brought back to be filtered, heated or cooled, mixed and redistributed.

The spaces conditioned in this portion of the building can be characterized as having a diverse load profile. Public spaces can be filled to capacity at times, and virtually empty at other times. While load diversity can be problematic for some HVAC systems, diversity is actually a benefit to VRF. Terminal units with refrigerant coils can function as either evaporator coils (for cooling) or condensing coils (for heating). Utilizing both sides of the compressor cycle allows waste heat to be recovered instead of rejecting the heat to outside. New refrigerant gases have increased heat pump efficiency and lowered the economic balance point where air source heat pumps can operate in a winter climate.

Hot water heat from the existing boiler system (currently serving the multi-zone rooftop units) will be routed to perimeter spaces allowing supplemental heat to be introduced during extreme weather. Existing piping above the ceiling would be extended to new perimeter heat.

A dedicated outside air (DOA) system will be utilized to introduce preconditioned ventilation air to the entire area served, and will incorporate energy recovery from spaces mechanically exhausted.

With the proposed system, the replacement ductwork will be approximately 1/10 the size of the existing system ductwork, which will occupy less ceiling space and reduce fan energy.

Projected useful life for this system is in the range of 20-25 years. Modular terminal units and refrigerant manifolds offer flexibility for future changes to interior space planning and change of use.

Reduced fan motor horsepower and energy recovery through a dedicated outside air system will result in reductions to current operating costs, assuming comparable operating schedules and building use. Although engineering is preliminary at this point and final equipment selections have not been made, it is estimated that a VRF system replacement would result in annual operating cost savings of approximately \$8000/yr. at current energy costs.

PRELIMINARY BUDGETING

Existing Gas and Electric Utility Services to the building are adequate to support the proposed system replacement.

Estimated HVAC Replacement Cost: \$580,000-\$640,000

APPENDIX

Utility Energy Use Summary - 2016 - WE Energies

Existing building Heat Loss/ Gain calculations - Summary

WE Energies Electric -Summary

_									
			Calendar 20	16			Percent		Electric
MONTH	Elec	ON PK	Elec OFF Pk	ΚV	VH Charges	Demand Charges	Demand		TOTAL\$
JANUARY	\$	0.07842	\$0.05622	\$	2,437.82	\$1,529.36	38.6	\$	3,967.18
FEBRUARY	\$	0.07842	\$0.05622	\$	2,390.29	\$1,661.88	41.0	\$	4,052.17
MARCH	\$	0.07842	\$0.05622	\$	2,372.46	\$1,492.28	38.6	\$	3,864.74
APRIL	\$	0.07842	\$0.05622	\$	2,320.00	\$1,893.72	44.9	\$	4,213.72
MAY	\$	0.07842	\$0.05622	\$	3,241.46	\$2,258.04	41.1	\$	5,499.50
JUNE	\$	0.07842	\$0.05622	\$	3,777.12	\$2,478.96	39.6	\$	6,256.08
JULY	\$	0.07842	\$0.05622	\$	4,311.93	\$2,554.08	37.2	\$	6,866.01
AUGUST	\$	0.07842	\$0.05622	\$	3,831.08	\$2,355.36	38.1	\$	6,186.44
SEPTEMBER	\$	0.07842	\$0.05622	\$	2,665.34	\$1,924.80	41.9	\$	4,590.14
OCTOBER	\$	0.07842	\$0.05622	\$	2,501.05	\$1,991.68	44.3	\$	4,492.73
NOVEMBER	\$	0.07842	\$0.05622	\$	2,622.95	\$1,759.20	40.1	\$	4,382.15
DECEMBER	\$	0.07842	\$0.05622	\$	2,437.69	\$1,560.48	39.0	\$	3,998.17
	Tot	al		\$	34,909.19	\$23,459.84	40.2	Ś	58,369.03

				Nat	. Gas
Gas Use	Therms		\$/Therm	TOT	TAL\$
JANUARY	3241	\$	0.574	\$	1,860.92
FEBRUARY	3050	\$	0.532	\$	1,621.11
MARCH	2548	\$	0.528	\$	1,345.65
APRIL	1310	\$	0.477	\$	624.50
MAY	297	\$	0.494	\$	146.59
JUNE	0		0	\$	24.65
JULY	0		0	\$	24,65
AUGUST	0		0	\$	25.50
SEPTEMBER	92	\$	0.703	\$	64.66
OCTOBER	1053	\$	0.480	\$	505.13
NOVEMBER	2446	\$	0.587	\$	1,435.94
DECEMBER	3375	\$	0.595	\$	2,007.58
Total	17.412	Ś	0.556	Ś	9.686.88

Franklin City Hall RTU Replacement HVAC Load Analysis

for

City Of Franklin 9229 W. Loomis Franklin, WI



Prepared By:

Randall Liechty PE Liechty & Associates Inc. 15220 Gebhardt Road Elm Grove, WI 53122 262-366-3676 Wednesday, May 31, 2017



Elite Software Development, Inc. Franklin City Hall RTU Replacement Page 2

Building Envelope Report

Envelope F	cepon usi	ing Summer U-Fac	wis				
Material		Gross	Glass	Net	-U-	Area x	Average
Types		Area	Area	Area	Factor	U-Factor	U-Factor
Roof	1	13,900.5	0.0	13,900.5	0.094	1,306.647	0.094
Tot.Roof		13,900.5	0.0	13,900.5	N/A	1,306.647	0.094
Wall	1	5,742.0	525.0	5,217.0	0.130	678.210	0.130
Tot.Wall		5,742.0	525.0	5,217.0	N/A	678.210	0.130
Glass	1	315.0	N/A	315.0	0.300	94.500	0.300
Glass	2	168.0	N/A	168.0	0.790	132.720	0.790
Glass	3	42.0	N/A	42.0	0.360	15.120	0.360
Tot.Glass		525.0	N/A	525.0	N/A	242.340	0.462
Totals				19.642.5		2.227.197	0.113

Wall	Wall	Glass	Wall Net	Wall Avg	Glass Avg	Glass Avg
Direction	Area	Area	Area	U-Factor	U-Factor	Shd.Coef
N	0.0	0.0	0.0	0.000	0.000	0.000
NE	2,618.0	239.5	2,378.5	0.130	0.384	0.334
E	0.0	0.0	0.0	0.000	0.000	0.000
SE	891.0	66.5	824.5	0.130	0.654	0.313
S	0.0	0.0	0.0	0.000	0.000	0.000
SW	1,875.5	219.0	1,656.5	0.130	0.488	0.325
W	0.0	0.0	0.0	0.000	0.000	0.000
NW	357.5	0.0	357.5	0.130	0.000	0.000
Totals	5,742.0	525.0	5,217.0	0.130	0.462	0.327



Elite Software Development, Inc. Franklin City Hall RTU Replacement

Building Summary Loads

Building	peaks	in August at 3pm.	

Elm Grove, WI 53122

Bldg Load	Area	Sen	%Tot	Lat	Sen	Net	%Net
Descriptions	Quan	Loss	Loss	Gain	Gain	Gain	Gain
Roof	13,901	104,532	24.05	0	43,368	43,368	10.26
Wall	5,217	54,257	12.48	0	10,925	10,925	2.58
Glass	525	23,369	5.38	0	9,420	9,420	2.23
Floor Slab	0	0	0.00	0	0	0	0.00
Skin Loads		182,157	41.91	0	63,713	63,713	15.07
Lighting	18,201	0	0.00	0	58,187	58,187	13.76
Equipment	10,451	0	0.00	0	33,702	33,702	7.97
Pool Latent	0	0	0.00	0	0	0	0.00
People	279	0	0.00	51,455	62,288	113,743	26.90
Partition	1,865	6,981	1.61	0	0	0	0.00
Cool. Pret.	0	0	0.00	0	0	0	0.00
Heat. Pret.	0	0	0.00	0	0	0	0.00
Cool. Vent.	2,031	0	0.00	87,2 4 1	36,817	124,058	29.34
Heat. Vent.	2,931	245,479	56.48	0	0	0	0.00
Cool. Infil.	0	0	0.00	0	0	0	0.00
Heat. Infil.	0	0	0.00	0	0	0	0.00
Draw-Thru Fan	0	0	0.00	0	9,122	9,122	2.16
Blow-Thru Fan	0	0	0.00	0	0	0	0.00
Reserve Cap.	0	0	0.00	0	1,836	1,836	0.43
Reheat Cap.	0	0	0.00	0	0	0	0.00
Supply Duct	0	0	0.00	0	15,256	15,256	3.61
Return Duct	0	0	0.00	0	3,273	3,273	0.77
Misc. Supply	0	0	0.00	0	0	0	0.00
Misc. Return	0	0	0.00	0	0	0	0.00
Building Totals		434,617	100.00	138,697	284,193	422,890	100.00

Building	Sen	%Tot	Lat	Sen	Net	%Net
Summary	Loss	Loss	Gain	Gain	Gain	Gain
Ventilation	245,479	56.48	87,241	36,817	124,058	29.34
Infiltration	0	0.00	0	0	0	0.00
Pretreated Air	0	0.00	0	0	0	0.00
Room Loads	189,138	43.52	51,455	219,726	271,181	64.13
Plenum Loads	0	0.00	0	0	0	0.00
Fan/Duct/Misc Loads	0	0.00	0	27,651	27,651	6.54
Building Totals	434,617	100.00	138,697	284,193	422,890	100.00

Check Figures

Total Building Supply Air (based on a 16° 1D):	14,309	CHIVI
Total Building Vent. Air (14.20% of Supply):	2,031	CFM

Total Conditioned Air Space: Supply Air Per Unit Area:

Area Per Cooling Capacity:

Cooling Capacity Per Area:

Heating Capacity Per Area:

Total Heating Required With Outside Air: Total Cooling Required With Outside Air:

18,201 Sq.ft 0.7861 CFM/Sq.ft

516.5 Sq.ft/Ton 0.0019 Tons/Sq.ft

23.88 Btuh/Sq.ft

434,617 Btuh

35.24 Tons

Chvac - Full Commercial HVAC Loads Calculation Program Liechty & Associates, Inc Elm Grove, WI 53122 Elite Software Development, Inc. Franklin City Hall RTU Replacement Page 4
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Air H	andler #1 - Offices	- Summar	y Loads				Fage 4
Rm No	Description Room Peak Time	Area People Volume	Htg.Loss Htg.CFM CFM/Sqft	Sen.Gain Clg.CFM CFM/Sqft	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.CFM Act.CFM	Clg.O,A. Req.CFM Act.CFM
2	Stairway 2pm August	261 0 2,868	3,104 99 0.38	2,459 160 0.61	0 0 0	7.5/P 0 38	7.5/P 0 23
3	Priv. Off. 2pm August	115 1 1,262	1,380 44 0.38	1,271 83 0.72	218 0 0	7.5/P 9 17	7.5/P 9 12
4	Priv. Off. 4pm August	162 2 1,782	1,781 57 0.35	1,704 111 0.68	308 0 0	7.5/P 12 22	7.5/P 12 16
5	File Storage 9pm August	182 0 2,005	3,089 98 0.54	1,770 115 0.63	0 0 0	7.5/P 0 38	7.5/P 0 16
6	2 Person Off. 9pm August	126 1 1,386	229 7 0.06	1,004 65 0.52	239 0 0	7.5/P 9 3	7.5/P 9 9
7	LL. Open Off. 9pm August	938 5 10,322	1,400 45 0.05	5,953 388 0.41	950 0 0	7.5/P 38 17	7.5/P 38 55
8	Eng. Recept. 9pm August	272 2 2,992	0 0 0.00	1,852 121 0.44	380 0 0	7.5/P 15 0	7.5/P 15 17
9	Eng. Conf. 9pm August	166 2 1,829	721 23 0.14	1,233 80 0.48	316 .0 0	7.5/P 12 9	7.5/P 12 11
10	Large Eng. Conf. 9pm August	263 10 2,888	0 0 0.00	3,644 237 0.90	1,900 0 0	7.5/P 75 0	7.5/P 75 34
11	Comm Equip. 9pm August	44 0 481	721 23 0.52	1,274 83 1.90	83 0 0	7.5/P 3 9	7.5/P 3 12
12	Lobby/Waiting 9pm August	215 4 2,360	0 0 0.00	2,018 131 0.61	760 0 0	7.5/P 30 0	7.5/P 30 19
13	Phone / Elec./Comp. 9pm August	255 0 2,805	1,945 62 0.24	5,430 354 1.39	0 0 0	7.5/P 0 24	7.5/P 0 50
15	Open Off. 9pm August	300 2 3,300	0 0 0.00	1,995 130 0.43	380 0 0	7.5/P 15 0	7.5/P 15 18
16	Priv. Office 9pm August	140 1 1,540	577 18 0.13	1,039 68 0.48	266 0 0	7.5/P 11 7	7.5/P 11 10

Chvac - Full Commercial HVAC Loads Calculation Program Liechty & Associates, Inc Elm Grove, WI 53122 Elite Software Development, Inc. Franklin City Hall RTU Replacement Page 5										
Air Handler #1 - Offices - Summary Loads (cont'd)										
Rm No	Description Room Peak Time	Area People Volume	Htg.Loss Htg.CFM CFM/Sqft	Sen.Gain Clg.CFM CFM/Sqft	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.CFM Act,CFM	Clg,O.A. Req.CFM Act.CFM			
17	Open Office 9pm August	680 5 7,480	2,265 72 0.11	4,630 302 0.44	950 0 0	7.5/P 38 28	7.5/F 38 43			
18	Priv. Off/Work Rm. 9pm August	245 2 2,695	1,297 41 0.17	1,817 118 0.48	466 0 0	7.5/P 18 16	7.5/P 18 17			
19	Main Lobby 2pm August	1,178 50 12,958	10,525 335 0.28	22,061 1,437 1.22	9,500 0 0	7.5/P 375 129	7.5/P 375 204			
20	Priv. Off. 2pm August	154 2 1,694	2,824 90 0.58	2,149 140 0.91	293 0 0	7.5/P 12 35	7.5/P 12 20			
21	Hearing Room 2pm August	816 8 8,976	12,787 407 0.50	10,277 669 0.82	1,550 0 0	7.5/P 61 157	7.5/P 61 95			
22	Admin. Conf./Meeting 2pm August	195 6 2,145	1,466 47 0.24	3,049 199 1.02	1,140 0 0	7.5/P 45 18	7.5/P 45 28			
23	Admin. Assist. 2pm August	98 1 1,073	733 23 0.24	1,059 69 0.71	185 0 0	7.5/P 7 9	7.5/P 7 10			
24	Admin. Office 2pm August	143 1 1,573	1,075 34 0.24	1,553 101 0.71	272 0 0	7.5/P 11 13	7.5/P 11 14			
25	Admin. Corr. 2pm August	442 4 4,862	3,324 106 0.24	4,801 313 0.71	840 0 0	7.5/P 33 41	7.5/P 33 44			
26	Council Chambers 2pm August	1,530 100 16,830	16,539 527 0.34	37,046 2,412 1.58	19,000 0 0	7.5/P 750 203	7.5/P 750 342			
28	Priv. Office 4pm August	210 2 2,310	3,703 118 0.56	3,303 215 1.02	399 0 0	7.5/P 16 46	7.5/P 16 31			
29	Inform./Open Off. 2pm August	1,055 8 11,602	7,931 253 0.24	10,869 708 0.67	1,520 0 0	7.5/P 60 98	7.5/F 60 100			
30	Priv. Off. 4pm August	130 1 1,430	3,281 104 0.80	3,092 201 1.55	247 0 0	7.5/P 10 40	7.5/P 10 29			

Chvac - Full Commercial HVAC Loads Calculation Program	The Elite Software Development, Inc.
Gilvac - Foil Commercial rivac Loads Calculation Flogram	g zinte Software Development, inc.
Liechty & Associates, Inc	Feedlin City Unit Designment
Lieutity & Associates, Itic	Franklin City Hall RTU Replacement
Elm Grove, WI 53122	Elite Software Development, Inc. Franklin City Hall RTU Replacement Page 6
Lill 6:000 101 05122	rayeo

VII I	landler #1 - Offices	s - Summar y	/ Loaas (c	conta)			
m	Description	Area	Htg.Loss	Sen.Gain	Lat.Gain	Htg.O.A.	Clg.O./
lo -	Room Peak Time	People	Htg.CFM	Clg.CFM	S.Exh	Req.CFM	Req.CFI
		•	CFM/Sqft	CFM/Sqft	W.Exh	Act.CFM	Act.CF
1	Priv. Off.	130	2,873	2,411	247	7.5/P	7.5
	4pm August	1 120	91	157	0	10	
		1,430	0.70	1.21	0	35	:
2	Priv. Off.	100	2,647	2,098	190	7.5/P	7.5
	4pm August	1	84	137	0	8	
		1,100	0.84	1.37	0	33	
	Priv. Off.	100	2,647	2,098	190	7.5/P	7.5
	4pm August	100	84	137	0	8	7.0
	· [· · · · · · · · · · · · · · · · · ·	1,100	0.84	1.37	Ö	33	
	0	222	0.707		224	= = (5)	
i	Supply/Work/Copy	360	2,707	3,910	684	7.5/P	7.5
	2pm August	4 3,960	86 0.24	255 0.71	100 100	27 33	
		5,800	0.24	0.71	100	55	
	Main Corridor	855	6,430	7,320	0	7.5/P	7.5
	2pm August	0	205	477	0	0	
		9,405	0.24	0.56	0	79	
	Accessor Open Off.	775	5,828	8,417	1,473	7.5/P	7.5
	2pm August	8	186	548	0	58	, , ,
	, •	8,525	0.24	0.71	0	72	
	Priv. Off.	99	2,182	1,506	188	7.5/P	7.5
	2pm August	1	69	98	0	7.57	7.3
	2piii riagaot	1,089	0.70	0.99	ŏ	27	
	Priv. Off.	99	0.400	4 500	400	7 5 (5)	- -
	2pm August	99	2,182 69	1,506 98	188	7.5/P 7	7.5
	zpin August	1,089	0.70	0.99	0	27	
					_		
	Priv. Off.	138	2,872	2,004	261	7.5/P	7.5
	2pm August	1 542	91	130	0	10	
		1,513	0.67	0.95	0	35	
	Open Treasurer	456	3,429	4,364	380	7.5/P	7.5
	2pm August	2	109	284	0	15	
		5,016	0.24	0.62	0	42	
	Open Office	585	4,399	6,354	1,112	7.5/P	7.5
	2pm August	6	140	414	0	44	, , ,
	- 	6,435	0.24	0.71	Ö	54	
	Priv. Off.	99	0.400	1 500	400	7 5 10	. د
	2pm August	99 1	2,182 69	1,506 98	188 0	7.5/P 7	7.5
	zpili August	1,089	0.70	0.99	0	27	
	D: 0"						
	Priv. Off.	143	2,513	1,984	272	7.5/P	7.5
	2pm August	1 1,573	80 0.56	129 0.90	0	11 31	
		1,073	0.50	0.30	U	31	
	Clinic Priv. Off.	121	2,348	1,745	230	7.5/P	7.5
	2pm August	1	75	114	0	9	
		1,331	0.62	0.94	0	29	

Liechty	- Full Commercial HVAC Load & Associates, Inc ove, WI 53122	Elite Software Development, Inc. Franklin City Hall RTU Replacement Page 7						
	Handler #1 - Offices	s - Summai	ry Loads	(cont'd)	Page			
Rm No	Description Room Peak Time	Area People Volume	Htg.Loss Htg.CFM CFM/Sqft	Sen.Gain Clg.CFM CFM/Sqft	Lat.Gain S.Exh W.Exh	Htg.O.A. Req.CFM Act.CFM	Clg.O.A Req.CFM Act.CFM	
51	Clinic Lobby 2pm August	450 5 4,950	3,384 108 0.24	4,887 318 0.71	W.E.XII 855 0 0	7.5/P 34 42	7.5/F 34 4!	
52	Clinic Restroom 2pm August	4,350 66 1	496 16	717 47	125 80	7.5/P 5	7.5/F	
	, ,	726	0.24	0.71	80	6	•	
53	Clinic Deck Stor. 3pm August	252 0 2,772	6,013 191 0.76	3,218 210 0.83	0 0 0	7.5/P 0 74	7.5/F (3(
54	Clinic Recv'g/Stor. 11am August	225 0 2,475	3,912 125 0.55	3,074 200 0.89	0 0 0	7.5/P 0 48	7.5/F (28	
55	Clinic Exam 2 2pm August	59 2 644	440 14 0.24	961 63 1.07	380 0 0	7.5/P 15 5	7.5/I 1:	
56	Clinic Exam 1 2pm August	59 2 644	440 14 0.24	961 63 1.07	380 0 0	7.5/P 15 5	7.5/l 1	
57	Clinic Conf. 2pm August	135 4 1,485	1,015 32 0.24	2,076 135 1.00	760 0 0	7.5/P 30 12	7.5/) 3 1	
58	Clinic Conf. Stor. 4pm August	84 1 924	2,004 64 0.76	1,383 90 1.07	160 0 0	7.5/P 6 25	7.5/\ 1	
59	Clinic Corr. 2pm August	96 0 1,056	722 23 0.24	822 54 0.56	0 0 0	7.5/P 0 9	7.5/F	
3 1	Health Dept Open Office 3pm August	1,112 4 12,233	15,757 502 0.45	13,514 880 0.79	760 0 0	7.5/P 30 194	7.5/I 3 12	
62	Health Priv. Off. 4pm August	143 1 1,573	2,971 95 0.66	2,547 166 1.16	272 0 0	7.5/P 11 37	7.5/ 1 2	
	Room Peak Totals: Total Rooms: 52 Unique Rooms: 52	17,053 271 187,582	165,092 5,257 0.31	219,731 14,309 0.84	51,455 180 180	2,031 2,031	2,03 2,03	



Elite Software Development, Inc. Franklin City Hall RTU Replacement Page 8

Air Handler #1 - Offices - Total Load Summary

Air Handler Description:

Offices Constant Volume - Sum of Peaks

Supply Air Fan:

Draw-Thru with program estimated horsepower of 3.71 HP

Fan Input:

85% motor and fan efficiency with 1.4 in. water across the fan

Sensible Heat Ratio:

0.83

--- This system occurs 1 time(s) in the building. ---

Air System Peak Time:

3pm in August.

Outdoor Conditions:

Clg: 89° DB, 77° WB, 125.39 grains, Htg: -10° DB

Indoor Conditions:

Cig: 72° DB, 50% RH, Htg: 70° DB

Summer: Ventilation controls outside air, ---- Winter: Ventilation controls outside air.

Room Space sensible loss:

165.092 Btuh

Infiltration sensible loss:

0 Btuh

Outside Air sensible loss:

170.105 Btuh 0 Btuh

Supply Duct sensible loss: Return Duct sensible loss:

Return Plenum sensible loss:

0 Btuh 0 Btuh

Total System sensible loss:

Heating Supply Air: 165,092 / (.969 X 1.08 X 30) =

5.257 CFM 2,031 CFM

0 CFM

2.031 CFM

Winter Vent Outside Air (38.6% of supply) =

Room space sensible gain:

217,890 Btuh

Infiltration sensible gain:

0 Btuh

Draw-thru fan sensible gain:

9,122 Btuh 15,256 Btuh

Supply duct sensible gain: Reserve sensible gain:

1,836 Btuh

Total sensible gain on supply side of coil:

244,104 Btuh

335,197 Btuh

Cooling Supply Air: 244,104 / (.969 X 1.1 X 16) =

14.309 CFM 2.031 CFM

Summer Vent Outside Air (14.2% of supply) =

Return duct sensible gain:

3.273 Btuh 0 Btuh

Return plenum sensible gain:

36,817 Btuh 2.031 CFM

Outside air sensible gain: Blow-thru fan sensible gain:

0 Btuh

Total sensible gain on return side of coil:

40,089 Btuh

Total sensible gain on air handling system:

284,193 Btuh

Room space latent gain:

51,455 Btuh

Infiltration latent gain:

0 Btuh

Outside air latent gain:

87,241 Btuh

Total latent gain on air handling system:

138,697 Btuh

Total system sensible and latent gain:

422,890 Btuh

Check Figures

Total Air Handler Supply Air (based on a 16° TD): Total Air Handler Vent. Air (14.20% of Supply):

14,309 CFM 2.031 CFM

Total Conditioned Air Space:

17,053 Sq.ft

Supply Air Per Unit Area:

0.8391 CFM/Sq.ft

Area Per Cooling Capacity: Cooling Capacity Per Area: Heating Capacity Per Area:

483.9 Sq.ft/Ton 0.0021 Tons/Sa.ft

Total Heating Required With Outside Air:

19.66 Btuh/Sq.ft

Total Cooling Required With Outside Air:

335.197 Btuh 35.24 Tons

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Chvac - Full Commercial HVAC Loads Calculation Program	Elite Software Development, Inc.
Liechty & Associates, Inc	Franklin City Hall RTU Replacement
LIECTLY & ASSOCIATES, ITC	
Elm Grove, WI 53122	Page 9

₹m	Description	Area	Htg.Loss	Sen.Gain	Lat,Gain	Htg.O.A.	Clg.O.A
٧o	Room Peak Time	People	Htg.CFM	Clg.CFM	S.Exh	Reg.CFM	Req.CFM
ENV.		Volume	CFM/Sqft	CFM/Sqft	W.Exh	Act.CFM	Act.CFM
	Lower Vestibule	33	2,596	0	0	0.1AC/Hr	Non
	-	0	108	0	0	1	
		363	3.27	0,00	0	97	
4	L.L. Toilets/J.Clos.	165	1,934	0	0	0.1AC/Hr	Non
	-	2	80	0	300	3	
		1,815	0.49	0.00	300	72	
7	Main Vestibule	77	6,004	0	0	0.1AC/Hr	Nor
	-	0	250	0	0	_ 1	
		847	3.24	0.00	0	225	
4	Safe/ Stor.	187	2,665	0	0	0.1AC/Hr	Nor
	-	0	111	0	0	3	
		2,057	0.59	0.00	0	100	
,	Men	195	1,466	0	0	0.1AC/Hr	No
	-	2	61	0	300	4	
		2,145	0.31	0.00	300	55	
3	Custodial	156	1,173	0	0	0.1AC/Hr	No
	-	2	49	0	0	3	
		1,716	0.31	0.00	0	44	
9	Women	169	2,758	0	0	0.1AC/Hr	No
	-	2	115	0	300	3	
		1,859	0.68	0.00	300	103	
3	Off. Storage	55	986	0	0	0.1AC/Hr	No
	-	1	41	0	0	1	
		605	0.75	0.00	0	37	
1	Treasurer Vault	55	986	0	0	0.1AC/Hr	No
	-	1	41	0	0	1	
		605	0.75	0.00	0	37	
)	Clinic Vest.	56	3,479	0	0	0.1AC/Hr	No
	-	0	145	0	0	1	
		616	2.58	0.00	0	130	
	Room Peak Totals:	1,148	24,046	0	0		
	Total Rooms: 10	8	1,000	0	900	21	
	Unique Rooms: 10	12,628	0.87	0.00	900	900	



Elite Software Development, Inc. Franklin City Hall RTU Replacement Page 10

99,420 Btuh

Air Handler #2 - Heating Only - Total Load Summary

Air Handler Description:

Heating Only Constant Volume - Proportion

Supply Air Fan:

Fan Input:

Draw-Thru with program estimated horsepower of 0.00 HP 0% motor and fan efficiency with 0 in. water across the fan

Outdoor Conditions:

Elm Grove, WI 53122

-10° DB (System is Heating Only)

Indoor Conditions:

-10 DB (System is neating Uniy)

Winter: Exhaust controls outside air.

Room Space sensible loss:

24,046 Btuh

Infiltration sensible loss:
Outside Air sensible loss:

0 Btuh 75,374 Btuh

Supply Duct sensible loss:

0 Btuh 0 Btuh

Return Duct sensible loss: Return Plenum sensible loss:

0 Btuh

Total System sensible loss:

D.Co. 1

Heating Supply Air: 24,046 / (.969 X 1.08 X 23) = Winter Vent Outside Air (90.0% of supply) =

1,000 CFM 900 CFM

0 CFM

900 CFM

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Room space sensible gain:

0 Btuh 0 Btuh

Infiltration sensible gain: Draw-thru fan sensible gain:

0 Bluin

Supply duct sensible gain:

0 Bluh

Reserve sensible gain:

0 Btuh

Total sensible gain on supply side of coil:

0 Btuh

Cooling Supply Air: 0 / (.969 X 1.1 X 0) = Summer Vent Outside Air (0.0% of supply) =

0 CFM 0 CFM

Return duct sensible gain:

0 Btuh

Return plenum sensible gain: Outside air sensible gain:

0 Btuh

Blow-thru fan sensible gain:

0 Btuh 0 CFM 0 Btuh

Total sensible gain on return side of coil:

Total sensible gain on air handling system:

0 Btuh

Room space latent gain:

0 Btuh

Infiltration latent gain:

0 Btuh

Outside air latent gain:

0 Btuh

Total latent gain on air handling system:

0 Btuh

Total system sensible and latent gain:

0 Btuh

0 Btuh

Check Figures

Total Air Handler Supply Air (based on a 23° TD):

1,000 CFM

Total Air Handler Vent. Air (90.00% of Supply):

900 CFM

Total Conditioned Air Space:

1,148 Sq.ft

Supply Air Per Unit Area:

0.8711 CFM/Sq.ft

Area Per Cooling Capacity: Cooling Capacity Per Area:

0.0 Sq.ft/Ton 0.0000 Tons/Sq.ft

Heating Capacity Per Area:

86.60 Btuh/Sq.ft

Total Heating Required With Outside Air:

99,420 Btuh

Total Cooling Required With Outside Air:

0.00 Tons

APPROVAL Slw	REQUEST FOR COUNCIL ACTION	MEETING DATE 11/07/2017
REPORTS AND RECOMMENDATIONS	Schedule Committee of the Whole and Common Council Meetings for January, February, March and April 2018	item number 6,2/,

Due to City Hall's closure on January 1 and 2, 2018, the Spring Primary Election on February 20, 2018,

				C	Decemb	er 2017						Marc	h 2018
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2					1	2	
3	4 COMM. OF THE WHOLE	COUNCIL MTG.	6	7	8	- 9	4	5 COMM. OF THE WHOLE	COUNCIL MTG.	7	8	9	1(
10	11	12	13	14	15	16	11	12	13	14	15	16	17
.17	18	19 COUNCIL MTG.	20	21	22	23	18	19	20 COUNCIL MTG,	21	22	23	. 24
24	25 CHRISTMAS DAY	26 CITY HALL CLOSED	27	28	29	30	25	26	27	28	29	30	aı
31				!			1					Apr	il 2018
					Janua	ry 2018	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Sun	Mon 1 NEW YEAR'S	Tue 2 CITY HALL	Wed 3	Thu 4	Fri 5	Sat 6	EASTER	2 COMM. OF THE WHOLE/ COUNCIL	3 SPRING ELECTION	4	5	6	1
7.	DAY 8	CLOSED 9	10	11	12	13	8	MTG.	10	11	12	13	14
	COMM. OF THE WHOLE	COUNCIL MTG.					Market 1						
14	15	16	17	18	19	20	15	16	17 COUNCIL MYG.	18	19	20	21
21	22	23 COUNCIL MTG.	24	25	26	27	22	23	24	25	26	27	28
28	29	30	31				29	30 COMM. DF THE WHOLE					
					Februa	rv 2018			·			Ma	y 2018
Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3	STATE		COUNCIL MTG.	2	3	4	
4	5 COMM. OF THE WHOLE	COUNCIL MTG.	7	8	9	10	6	7	8	9	10	11	1;
11	12	13	14	15	15	17	13.	14	15 COUNCIL MTG.	16	. 17	18	19
18	19 COUNCIL MTG.	20 PRIMARY ELECTION	21	22	23	24	20	21	22	23	24	25	26
25	26	27	28				27	28 MEMORIAL DAY	29	90	31		

COUNCIL ACTION REQUESTED

Motion to establish 2018 meetings as follows: Committee of the Whole on January 8, Common Council on January 9 and 23, Committee of the Whole on February 5, Common Council on February 6 and 19, Committee of the Whole on March 5, Common Council on March 6 and 20, Combined Committee of the Whole and Common Council on April 2, Common Council on April 17, and Committee of the Whole on April 30, 2018.

OR

As directed.

APPROVAL Sla	REQUEST FOR COUNCIL ACTION	MEETING DATE 11/07/2017
REPORTS & RECOMMENDATIONS	Lowe's Home Centers v. City of Franklin, Milwaukee County Circuit Court, Case No. 16CV8356: Claim of Excessive Assessment. The Common Council may enter closed session pursuant to Wis. Stat. §19.85(1)(g), to confer with legal counsel for the Common Council who is rendering advice concerning strategy to be adopted by the body with respect to the subject litigation, and to reenter open session at the same place thereafter to act on such matters discussed therein as it deems appropriate.	ITEM NUMBER

Lowe's Home Centers filed a Claim for Excessive Assessment with the Milwaukee County Circuit Court. The League of Wisconsin Municipalities Mutual Insurance Company is providing defense of the claim and has assigned Attorney Ryan Braithwaite with Crivello Carlson, S.C. to the defense. As a regular part of the claim resolution process, mediation was recently held relative to the claim. Attorney Braithwaite will be present to discuss the claim and the matter in detail.

The Common Council may enter closed session pursuant to Wis. Stat. §19.85(1)(g), to confer with legal counsel for the Common Council who is rendering advice concerning strategy to be adopted by the body with respect to the subject litigation, and to reenter open session at the same place thereafter to act on such matters discussed therein as it deems appropriate.

COUNCIL ACTION REQUESTED

Motion to enter closed session pursuant to Wis. Stat. §19.85(1)(g), to confer with legal counsel for the Common Council who is rendering advice concerning strategy to be adopted by the body with respect to the subject litigation, and to reenter open session at the same place thereafter to act on such matters discussed therein as it deems appropriate.

APPROVAL Slw	REQUEST FOR COUNCIL ACTION	MEETING DATE 11/07/17
LICENSES AND PERMITS	MISCELLANEOUS LICENSES	ITEM NUMBER H.1.

See attached list from meeting of November 7, 2017.

COUNCIL ACTION REQUESTED



414-425-7500

License Committee Agenda* Aldermen's Room November 7, 2017 – 5:20 pm

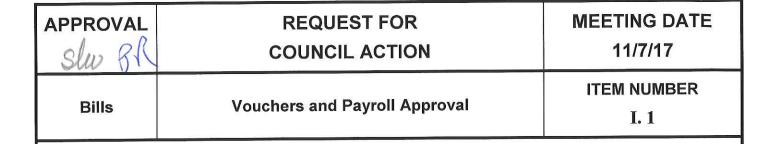
1.	Call to Order & Roll Call	Time:			
2.	Applicant Interviews & Decisions				
	icense Applications Reviewed	Recommendations			
Type/ Time	Applicant Information	Approve	Hold	Deny	
Extraordinary Entertainment & Special Event 5:30p.m.	Arthritis Foundation Jingle Bell Run				
	Person in Charge: Jennifer Blatz				
	Location: Rock Snow Park, 7900 W Crystal Ridge Dr				
	Date of Event: November 12, 2017				
Class A Liquor & Beer	Ultra Mart Foods LLC				
Request for Change in Premise Description 5:40p.m.	DBA Pick N Save #6360				
	7201 S 76 th St				
	Justin Perez, Agent				
Restaurant License	QT Pizza, LLC				
2017-18 5:50p.m.	DBA Rounding Third				
	7119 S 76 th St				
	Susan Toetz, Agent				
Class A Combination 2017-18 New 5:55p.m.	New Liquor & Food, Inc				
	DBA Franklin Liquor Store				
	8305 S 27 th St				
	Gurjeet Singh, Agent				
Operator	Sierra L Kisting				
6:00p.m.	S63W18485 Martin Dr				
	Muskego, WI 53150				
	Hideaway Pub & Eatery				
Operator	Amy L Mast				
6:05p.m.	W186S8961 Cardinal Ct				
	Muskego, WI 53150				
	Irish Cottage				
Operator	Robin E Conti				
	8316 W Crawford Ave				
	Milwaukee, WI 53220				
	Pick N Save – Advanced Solutions				
Operator	Justin D Kagerbauer				
	142 ½ Riverside Dr				
	Waterford, WI 53185				
	Croatian Park				
Operator	Cindy L Kelley]			
	7527 N Tichigan Rd				
	Waterford, WI 53185				
	Pick N Save – Advanced Solutions				
Operator	Stanford T Kraft, Jr			'	
	1417 E Crawford Ave				
	Milwaukee, WI 53207				
	Country Lanes				
Operator	Vicki M Listwan				
	1				

9319 W Morgan Ave Milwaukee, WI 53228

Pick N Save - Advanced Solutions

Operator	Beau A G Mitchell		
	5314 Robin Dr		
	Greendale, WI 53129		
	Walgreen – S 76 th St		
Operator	Victoria M Sberna		
	2576 S 77 th St		
	West Allis, WI 53219		
	Pick N Save – Advanced Solutions		
3.	Adjournment		
		Time	

^{*}Notice is given that a majority of the Common Council may attend this meeting to gather information about an agenda item over which they have decision-making responsibility. This may constitute a meeting of the Common Council per State ex rel. Badke v. Greendale Village Board, even though the Common Council will not take formal action at this meeting.



Attached are vouchers dated October 13, 2017 through November 2, 2017 Nos. 166611 through Nos. 166820 in the amount of \$ 5,440,372.79. Included in this listing are EFT's Nos. 3608 through Nos. 3626 and Library vouchers totaling \$18,630.62.

Early release disbursements dated October 13, 2017 through November 1, 2017 in the amount of \$4,638,371.94 are provided on a separate listing and are also included in the complete disbursement listing. These payments have been released as authorized under Resolution 2013-6920.

The net payroll dated October 27, 2017 is \$ 394,835.11, previously estimated at \$ 370,000.00. Payroll deductions dated October 27, 2017 are \$482,172.16 previously estimated at \$ 485,000.00.

The estimated payroll for November 9, 2017 is \$ 391,000.00 with estimated deductions and matching payments of \$ 238,000.00.

Attached is a list of property tax refunds dated October 13, 2017 through November 2, 2017 Nos. 17210 through Nos. 17213 and EFT Nos. 174 in the amount of \$ 2,837.12. These payments have been released as authorized under Resolution 2013-6920. Voided checks in the amount of \$ (2,722.43) are separately listed.

COUNCIL ACTION REQUESTED

Motion approving the following:

- City vouchers with an ending date of November 2, 2017 in the amount of \$ 5,440,372.79 and
- Payroll dated October 27, 2017 in the amount of \$ 394,835.11 and payments of the various payroll deductions in the amount of \$ 482,172.16 plus City matching payments and
- Estimated payroll dated November 9, 2017 in the amount of \$ 391,000.00 and payments of the various payroll deductions in the amount of \$ 238,000.00, plus City matching payments and
- Property tax refunds with an ending date of November 2, 2017 in the amount of \$ 2,837.12.

ROLL CALL VOTE NEEDED