Engineering / Traffic Operations Center (TOC)

Paul P. Holzen, Director

ENGINEERING

The Engineering Department plans for the future infrastructure needs of the City of Franklin and consists of three divisions. The divisions include Engineering, Traffic Operations and Stormwater. The department works with other City Departments, elected officials, and the public to ensure that our infrastructure is designed and installed properly and that it meets all Local, State and Federal standards and guidelines. Both City-funded and private infrastructure projects are managed and reviewed by the Engineering Department.

The Traffic Operations Division manages the transportation network within the City of Franklin and is responsible for signal timing. A goal of the Traffic Operations Division is to perform timing optimizations for signal systems. Currently there are three major systems in the City - Cool Springs, SR 96 E (Murfreesboro Rd.), and Downtown (Main St, Fifth Ave, Columbia Ave). An optimization is like a tune-up for a car engine. Everyone that uses those optimized systems saves time and fuel over the previous conditions they may have experienced.

The Stormwater Division helps the City maintain compliance with mandates set by the Federal (EPA) and State (TDEC) Governments to minimize stormwater runoff pollution. Under the Clean Water Act of 1972, the Environmental Protection Agency (EPA) requires municipalities like Franklin to manage stormwater. The City has received a Phase II Municipal Separate Storm Sewer System (MS4) Permit from the Tennessee Department of Environment and Conservation (TDEC) to allow Franklin to discharge stormwater into nearby rivers and streams.

TRANSPORTATION OPERATIONS CENTER (TOC)

The Traffic Operations Center (TOC) provides traffic management services to the City of Franklin. The center currently manages 103 traffic signals and 22 Closed Circuit Television (CCTV) cameras. In past years the TOC has worked towards providing better traffic flow throughout the City through the Congestion Management Program. That program requires data collection at each of those intersections every 3 years and optimizing the signal timing in each of the City's main corridors.

That work continues as we work towards providing a communications network that allows us to manage and monitor traffic conditions better. FY 2012-2013 provided a major increase in the infrastructure necessary to provide this service when we increased our CCTV cameras from 12 to 22 and the number of traffic signals we communicate directly with from 52 to 66.

The TOC will be addressing new challenges as we move into the future. First will be the Comprehensive Transportation Network Plan which will study the transportation network with attention to the roadway network, bike and pedestrian facilities and transit. This study will replace the traditional Major Thoroughfare Plan Update and will provide a more complete planning document for use by the city in applying for Federal Highway Administration or Federal Transit Administration funding. The second challenge is to deploy an Adaptive Traffic

Signal Control System in the Cool Springs Area. This action will provide the benefits of constant signal optimization.

Traffic Data Collection Program:
Traffic Counts or Data Collection have been and continue to be the most basic building blocks of any traffic management system. With the rapid growth and development of the City of Franklin in the recent past, traffic volumes have also grown and developed. This program was designed to perform "turning movement counts" for each peak hour at each of our nearly 103 signalized intersections every three years.

1. SR 96 E, Mack Hatcher and Hillsboro Rd Corridors.
2. Cool Springs Blvd, Carothers Parkway and Mallory Lane Corridors.
3. Downtown Franklin, SR 96 W and Franklin Road Corridors.

The data collected is used to develop traffic signal timing plans that will best move traffic with highest degree of safety and minimal delay. By utilizing traffic modeling software, we develop intersection timing plans that best manage those rush hour flows.

Traffic Signal Timing Optimization Program:
Traffic Signal Optimization is the primary activity utilizing the data collected by the Annual Traffic Data Collection Program. A 2005 Institute of Transportation Engineers White Paper on *Benefits of Retiming Traffic Signals* states, "An operating agency with a budget to retime traffic signals every 3 years, especially in developing areas and/or areas with sustained growth, will maintain a high quality of traffic operations."

The City of Franklin currently has 3 primary signal systems. They are SR 96 E, Downtown and the Cool Springs Galleria area. The chart below indicates some of the benefits achieved through Traffic Signal Optimization. The data presented shows reductions in 3 key areas: Travel Time Delay and reduced Hydrocarbon and Carbon Monoxide emissions.

Improvements	**2011 Actual**	**2012 Actual**	**2013 Projected**	**2014 Goal**
System	SR 96 E *	West Main/5th Ave/Hillsboro/ Columbia	Cool Springs	SR 96 E
Delay	10%	17.4%	15%	15%
Hydrocarbon	Avg./Results	16.6%	Avg./Results	Avg. /Results
Carbon Monoxide	Avg./Results	16.6%	Avg./Results	Avg. Results

The City of Franklin using Data and results provided in 2008 for SR 96E to perform an adjustment to the SR 96 E system in 2011. This adjustment took into consideration changing traffic flow on Carothers Pkwy not previously consider in the 2008 study.

STORMWATER
One of the Stormwater Division's goals is to reduce and eliminate non-stormwater flows (called illicit discharges) from the City of Franklin Municipal Separate Storm Sewer System (MS4) to improve water quality in the Harpeth River Watershed. MS4s discharge directly to rivers and streams without being treated at a treatment plant. This means whatever washes into the city's

storm sewer system ends up in our rivers and streams. By monitoring each outfall point, the City is able to identify and eliminate sources of water pollution. The City will inform public employees, businesses, and the general public of the hazards associated with illegal discharges and improper disposal of waste. The public can report suspected illicit discharges via the City website or the Stormwater Pollution Hotline (615-791-3218). Documented illicit discharges will be eliminated as soon as possible.

Performance Measure: Field screen each major outfall in the Franklin City Limits for pollutants. If pollutants are identified follow-up inspections will be made to find and eliminate the source of pollution.

Measure/Goal	FY12 Actual	FY13 Projected	FY14 Goal
Watersheds Screened	Inventory 90% Complete; begin Fieldscreening or Major outfalls	2	2
Number of Outfalls testing positive for pollutants	0	1*	TBD
Number of Illicit Discharges Eliminated from Outfalls	0	1*	TBD

*** Outfall screening is still being completed. Currently, one has been positive with pollutants.**

RIGHT-OF-WAY

When meeting with property owners to acquire right-of-way and easements we strive to give the property owner all the information about the upcoming project. We also work extremely hard to meet with affected property owners on more than one occasion (even before or after normal working hours). Although it is our goal to get all documents signed without using condemnation, it is not always possible. Some property owners are unwilling to work with the city, others will not respond to certified mail or phone messages. When this situation persists, we have no choice but to enter into condemnation proceedings. This performance measurement is comparing how many properties were to be acquired, how many were successfully acquired without condemnation and how many times the city entered into condemnation. In the future we will also be keeping up with the number of times we made contact or met with property owners. We hope this information will be helpful in the future for budgeting, staffing and scheduling needs.

The Right-of-Way Goal for the Engineering Department is to successfully acquire 80% of the properties through negotiations (without having to go into condemnation proceedings). See the chart below for the most recent property acquisition data:

PROJECT NAME	TOTAL NUMBER OF PROPERTIES	NUMBER OF OFFERS	SIGNED, AGREED OR CLOSED	CONDEMNATIONS

PROJECT NAME	TOTAL NUMBER OF PROPERTIES	NUMBER OF OFFERS	SIGNED, AGREED OR CLOSED	CONDEMNATIONS
Hillsboro Road Improvements Project	63	43	36	7
MTEMC Offsite Easements	67	67	65	2
Century/Beasley Connector	1	0	0	0
Mack Hatcher NW Quad	45	45	41	4
McEwen Drive at Wilson Pike	5	5	3	2
TOTAL	181	160	145	15
			90.6%	9.4%

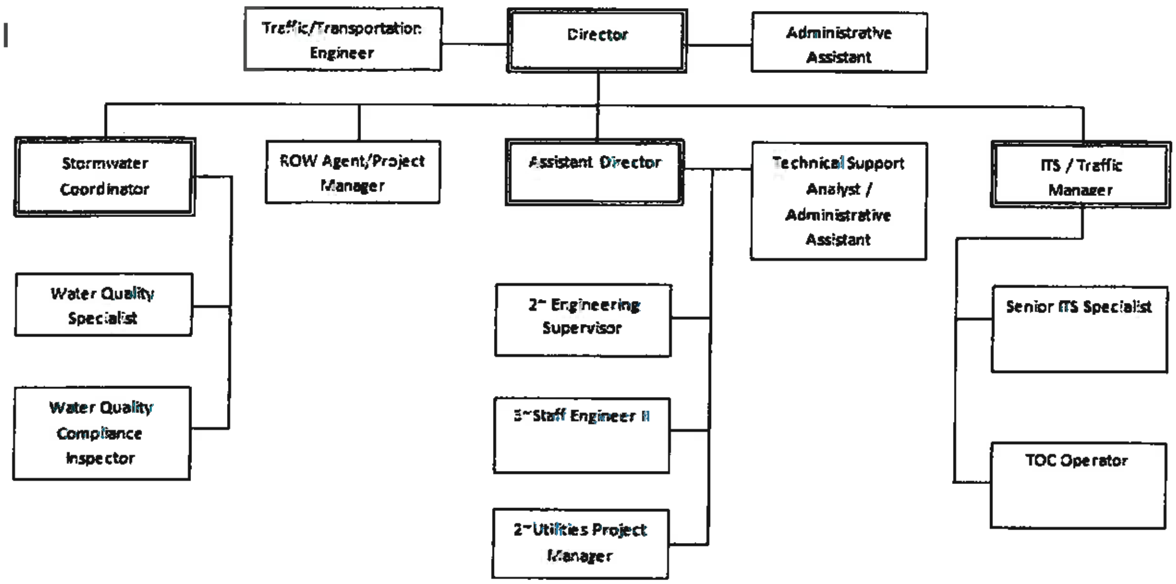
Sustainable Franklin

The Engineering Department has continued to be proactive to incorporate sustainable measures into infrastructure projects. Over the past year, staff has implemented a new pilot program that grants water quality and detention credit for Permeable Interlocking Concrete Pavers. This was done to promote infiltration of stormwater to reduce the overall amount of runoff leaving a site. Additionally, staff has promoted widespread integration of low impact development designs, including promoting rain gardens into development project designs. Staff will continue to seek opportunities to incorporate alternative modes of transportation, energy efficient lighting and other sustainable measures into the infrastructure projects planned for the City.

Both Engineering and Planning have worked together to establish the City's first renewable energy public-private partnership. This project consisted of building a 200kW solar array at the City's wastewater treatment plant. Construction is anticipated to be complete by May 2012.

The Engineering Department will continue to move towards implementing "paperless" office strategies by moving all review of plans to electronic files instead of multiple paper copies. This will result in less paper being wasted as well requiring significantly less physical storage space for sets of paper plans. Ongoing initiatives include migrating to a new web-based electronic plan review system and establishing a digital archive of approved construction plans.

Organizational Chart



Note: 2 Utilities Project Manager funded through Water Management Department

Staffing by Position

City of Franklin
2013-2014 Fiscal Year Budget
Personnel by Position

Engineering Department

Position	Pay	FY 2013			FY 2014		
	Grade	Full-Time	Part-Time	Not Funded	Full-Time	Part-Time	Not Funded
Director of Engineering	25	1	0	0	1	0	0
Assistant Director of Engineering	23	1	0	0	1	0	0
Engineering Supervisor	22	2	0	0	2	0	0
Engineer II	21	3	0	0	3	0	0
Engineer I	20	0	0	0	0	0	0
Right of Way Agent/Project Mgr	18	1	0	0	1	0	0
Technical Support Analyst	15	0	0	0	1	0	0
Administrative Asst.	12	2	0	0	1	0	0
	TOTALS	10	0	0	10	0	0

Traffic Operations Center (TOC)

Position	Pay	FY 2013		FY 2014	
	Grade	Full-Time	Part-Time	Full-Time	Part-Time
Traffic/Transportation Engineer	23	1	0	1	0
ITS Project Manager	19	1	0	1	0
ITS Specialist	17	1	0	1	0
TOC Operator	14	1	0	1	0
		4	0	4	0

Budget Notes/Objectives
Engineering

- The Engineering Department is requesting 1 additional positions to include an additional Utilities Project Manager to assist with infrastructure planning, capital projects and development projects.

- TOC is requesting $140,000 in Consultant services as part of the operations budget. This funding is part of the Traffic Signal Timing Optimization and Testing Program for the Cool Springs Area.

- TOC is requested $2,125,000 in Capital. Of this amount $1,432,000 will be reimbursed to the City through grants.

- Stormwater is requesting $235,000 in consultant services as part of the operations budget. This funding is for our BMP Manual Update, GIS Impervious Surface Update and Stormwater Management Master Plan.

- Stormwater is requesting $1,840,000 in Capital for storm water improvement projects.

	Account	Label	Actual 2011	Actual 2012	Budget 2013	Estd 2013	Budget 2014	Forecast 2015	Forecast 2016
		Personnel							
=	81110	REGULAR PAY	390,519	519,516	578,829	558,570	585,768	603,341	621,441
	81120	OVERTIME PAY	127	232	100	150	150	150	150
	81199	VACANCY ADJUSTMENT			(20,259)		(20,502)	(21,117)	(21,750)
=	XWAGE	TOTAL WAGES	390,646	519,748	558,670	558,720	565,416	582,374	599,841
=	81410	FICA (EMPLOYER'S SHARE)	28,676	37,849	44,280	44,280	44,811	46,155	47,540
=	81420	MEDICAL PREMIUMS	87,957	101,575	106,892	106,892	106,892	110,100	113,402
=	81430	GROUP INSURANCE PREMIUMS	7,352	9,561	10,172	10,172	10,183	10,488	10,803
=	81440	EMPLOYEE INSURANCE CONTRIBUTIONS	(16,949)	(21,152)	(20,808)	(20,808)	(20,808)	(21,432)	(22,075)
	81450	RETIREMENT CONTRIBUTIONS	61,599	56,685	64,900	64,900	65,678	67,648	69,678
	81455	DEFERRED COMP MATCH		83	1,450	1,450	1,450	1,494	1,538
	81470	WORKERS COMPENSATION PREMIUMS	(4)	60	541	541	541	557	574
	81475	WORKERS COMPENSATION CLAIMS							
	81482	CAR ALLOWANCE		2,215	4,800	4,430	4,560	4,697	4,837
=	XBEN	TOTAL BENEFITS	168,631	186,876	212,227	211,857	213,308	219,707	226,297
=	XPER	TOTAL PERSONNEL	559,277	706,624	770,897	770,577	778,724	802,081	826,138
		Operations							
	82110	MAILING & OUTBOUND SHIPPING SERVICES	985	812	1,000	1,110	1,500	1,500	1,500
	82120	FREIGHT FOR INBOUND PURCHASED ITEMS							
	82130	VEHICLE LICENSES & TITLES	50	20					
=	XTRC	TOTAL TRANSPORTATION CHARGES	1,035	832	1,000	1,110	1,500	1,500	1,500
+	82210	PRINTING & COPYING SERVICES, OUTSOURCED	142	520	5,410	5,262	5,270	5,275	5,280
	1	Business Cards			120	120	120	120	120
	2	Envelopes			200	142	150	155	160
	3	Various	142	355					
	4	4CCAD - Reprographics - Scan Plans in the Garage/prints			5,000	5,000	5,000	5,000	5,000
	*	Amount missing from detail		165					
	82230	ARCHIVING/RECORDS MANAGEMENT SERVICES				150	150	150	150
	82250	TESTING & PHYSICALS	309	650	730	730	730	730	730
=	XOPSV	TOTAL OPERATING SERVICES	451	1,170	6,140	6,142	6,150	6,155	6,160
	82310	LEGAL NOTICES	1,424	4,174	1,500	1,500	1,500	1,500	1,500
+	82350	DUES FOR MEMBERSHIPS	1,259	1,337	2,880	614	1,802	1,887	2,287
	1	Various	1,259	610					400
	10	Patricia Proctor ($182 AWWA & $245 ASCE)					427	432	432
	11	Katie Rubush ($50 LEED AP BD+C)						50	50
	12	Engineer I					300	300	300
	2	Paul Holzen - ($160 APWA & $40 ASHE) ($25 ASHE)			200	25	25	30	30
	3	Dan Allen - ($160 APWA) ($265 ULI)			425				
	4	Tom Ingram - ($210 ASCE) ($165 ASFM) (nothing 13/14)			375				
	5	Micky Dobson - ($150 APWA) ($265 ULI) (no longer employed)			425				

	Account	Label	Actual 2011	Actual 2012	Budget 2013	Estd 2013	Budget 2014	Forecast 2015	Forecast 2016
	6	William Banks - ($210 ASCE) (Nothing 13/14)			210				
	7	Jonathan Marston - ($160 APWA & $265 ULI) ($200 APWA)			425	179	200	220	220
	8	Ben Worley ($160APWA & $250IRWA) ($200APWA $250IRWA $400 AIM			410	410	850	855	855
	9	Director of Engineer - ($210 ASCE) ($160 APWA) ($40 ASHE)			410				
	*	Amount missing from detail		727					
	82360	PUBLIC RELATIONS & EDUCATION (CITY SPONSORED)	1						
	82390	PUBLICATIONS, NON-TRAINING	158	406	300	300	500	500	500
=	XNSP	TOTAL NOTICES, SUBSCRIPTIONS, PUBLICITY	2,842	5,917	4,680	2,414	3,802	3,887	4,287
	82435	SOLID WASTE SERVICE				161	200	200	200
	82450	TELEPHONE SERVICE	750	846	900	850	850	900	900
	82451	800 MHZ ACCESS LINE SERVICE	46	47	50	50	50	50	50
+	82455	CELLULAR TELEPHONE SERVICE	1,403	2,075	3,000	3,160	3,300	3,300	3,300
	1	Various	1,403	1,064					
	2	Director of Engineering (Service)			750				
	3	Paul Holzen (Service)			750				
	4	Dan Allen (Service)			750				
	5	Ben Worley (Service)			750				
	6	Cell phone service for (Paul, Dan, & Ben)				3,160	3,300	3,300	3,300
	*	Amount missing from detail		1,011					
	82470	INTERNET & RELATED SERVICES	504	554	530	550	550	550	550
=	XUTIL	TOTAL UTILITIES	2,703	3,522	4,480	4,771	4,950	5,000	5,000
	82510	COMPUTER SERVICES							
	82520	LEGAL SERVICES	825						
+	82560	CONSULTANT SERVICES	330		10,000	3,500	25,000	25,000	25,000
	1	Various Consultant Services			7,500		10,000	10,000	10,000
	2	Misc. Surveying Services			2,500	3,500	15,000	15,000	15,000
	4	Various	330						
	*	Amount missing from detail							
=	XCTS	TOTAL CONTRACTUAL SERVICES	1,155		10,000	3,500	25,000	25,000	25,000
	82610	VEHICLE REPAIR & MAINTENANCE SERVICES	808	1,488	1,000	1,000	1,000	1,200	1,200
+	82620	EQUIPMENT REPAIR & MAINTENANCE SERVICES	962	1,786	1,600	1,200	1,200	1,200	1,200
	1	Various	962		400				
	2	NovaCopy			1,200	1,200	1,200	1,200	1,200
	*	Amount missing from detail		1,786					
	82660	BUILDING REPAIR & MAINTENANCE SERVICES		630					
=	XRMSV	TOTAL REPAIR & MAINTENANCE SERVICES	1,770	3,904	2,600	2,200	2,200	2,400	2,400
	82750	EMPLOYEE RECOGNITION/RECEPTIONS	150	109	400	400	500	500	500
+	82780	TRAINING, OUTSIDE	(183)	769	425		3,860	2,000	2,000
	1	Tom Ingram (Certified Floodplain Manager)			425				
	2	Various	(183)					2,000	2,000
	3	PMP Certification (Dan & William)					1,300		
	4	RWA Certification (Ben)					1,660		
	5	Appraisal Institute Certification (Ben)					900		
	*	Amount missing from detail		769					
=	XEPG	TOTAL EMPLOYEE PROGRAMS	(33)	878	825	400	4,360	2,500	2,500

	Account	Label	Actual 2011	Actual 2012	Budget 2013	Estd 2013	Budget 2014	Forecast 2015	Forecast 2016
+	82810	REGISTRATIONS	1,742	2,445	4,525	5,835	5,000	5,000	5,000
	1	Various	1,742	817					
	3	Continuing Education			4,525	5,835	5,000	5,000	5,000
	*	Amount missing from detail		1,628					
+	82820	GROUND TRANSPORTATION (OUTSIDE WILLIAMSON COUNTY)	352	949	900	900	1,000	1,000	1,000
	1	Various	352	312					
	3	Continuing Education			900	900	1,000	1,000	1,000
	*	Amount missing from detail		637					
+	82830	AIR TRAVEL	842	1,122	4,310	3,000	3,000	3,000	3,000
	1	Various	842						
	2	Continuing Education			4,310	3,000	3,000	3,000	3,000
	*	Amount missing from detail		1,122					
+	82840	LODGING	2,832	4,112	7,540	7,540	6,000	6,000	6,000
	1	Various	2,832	2,932					
	2	Continuing Education			7,540	7,540	6,000	6,000	6,000
	*	Amount missing from detail		1,180					
+	82850	MEALS (OUTSIDE WILLIAMSON COUNTY)	590	1,169	4,310	4,310	3,500	3,500	3,500
	1	Various	590	804					
	2	Continuing Education			4,310	4,310	3,500	3,500	3,500
	*	Amount missing from detail		365					
+	82890	OTHER TRAVEL EXPENSES		732	750	100	500	500	500
	1	Various		94					
	2	Local PDH Meetings			750	100	500	500	500
	*	Amount missing from detail		638					
=	XPDT	TOTAL PROFESSIONAL DEVELOPMENT/TRAVEL	6,358	10,529	22,335	21,685	19,000	19,000	19,000
+	83110	OFFICE SUPPLIES	1,524	1,894	2,500	2,500	3,100	2,600	2,700
	1	Black leather portfolios with COF logo embossed (20 @ $30 each)					600		
	2	Various				2,500	2,500	2,600	2,700
	*	Amount missing from detail	1,524	1,894	2,500				
	83130	EMPLOYEE BENEVOLENCE ITEMS	110		150	150	150	150	150
	83140	MEALS & FOOD (INSIDE WILLIAMSON COUNTY)	786	1,273	1,300	1,300	1,300	1,300	1,300
=	XOFS	TOTAL OFFICE SUPPLIES	2,420	3,167	3,950	3,950	4,550	4,050	4,150
+	83250	SAFETY SUPPLIES	6	589	1,500	1,500	500	500	500
	1	Various	6		500	500	500	500	500
	2	High Visibility Construction Jackets			1,000	1,000			
	*	Amount missing from detail		589					
+	83260	UNIFORMS PURCHASED	163	562	815	815	900	955	960
	1	Boots			240	240	240	240	240
	2	Uniforms			575	575	660	715	720
	3	Various	163	245					
	4								
	*	Amount missing from detail		317					
	83299	OTHER OPERATING SUPPLIES	17		200	200	200	220	220
=	XOPS	TOTAL OPERATING SUPPLIES	186	1,151	2,515	2,515	1,600	1,675	1,680
	83310	GASOLINE & DIESEL FOR FLEET (INSIDE WILLIAMSON COUNTY)	2,803	1,990	3,250	2,500	3,000	3,500	4,000

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	Account	Label	Actual 2011	Actual 2012	Budget 2013	Estd 2013	Budget 2014	Forecast 2015	Forecast 2016
=	XFUEL	TOTAL FUEL & MILEAGE	2,803	1,990	3,250	2,500	3,000	3,500	4,000
+	83510	FURNITURE, FIXTURES (<$25,000)			2,000	2,000	2,500	200	300
	1	Various							
	2	Desk Chair (7 12/13) (7 13/14)			2,000	2,000	2,000	200	300
	3	Reception Seating for front office					500		
	*	Amount missing from detail							
+	83530	MACHINERY & EQUIPMENT (<$25,000)		64	250		16,250	500	250
	1	New Cell Phone Paul					250		
	2	Upgrade Cell Phone for Ben						250	
	3	New Cell Phone Director			250			250	
	4	Upgrade Cell Phone for Dan							250
	5	New Copy Machine (2006) (Max Life 7 Years)					16,000		
	*	Amount missing from detail		64					
+	83540	COMPUTER HARDWARE (<$25,000)	3,105	6,529	14,500	11,000	1,400	3,000	3,000
	1	Various	3,105	4,684	1,000			3,000	3,000
	3	Computer Replacement (Director Paul Dan Ben)			7,500	5,000			
	4	hi-res large size monitor			6,000	6,000			
	5	laptop with docking station (Katie 1 @ $1400)					1,400		
	*	Amount missing from detail		1,845					
+	83550	COMPUTER SOFTWARE (<$25,000)		10,293	5,900	5,900	2,550	3,250	3,250
	1	CADD Software			2,500			1,500	1,500
	2	Microsoft Project License			1,600				
	3	Adobe Acrobat Professional			1,800		250	250	250
	4	Various		10,293	4,100	5,900		1,500	1,500
	5	Scan License for OnBase (SR)					2,000		
	6	Dragon Software (dictation of meeting minutes)					300		
	*	Amount missing from detail			(4,100)				
=	XMEU	TOTAL MACHINERY & EQUIPMENT (<$25,000)	3,105	16,886	22,650	18,900	22,700	6,950	6,800
	83620	EQUIPMENT PARTS & SUPPLIES	14	75	100				
=	XRMS	TOTAL REPAIR & MAINTENANCE SUPPLIES	14	75	100				
	85110	PROPERTY INSURANCE	2,849	3,041	1,016	714	720	720	720
	85111	FRAUD INSURANCE				22	25	25	25
	85112	INLAND MARINE INSURANCE				318	325	325	325
	85113	AUTO PHYSICAL DAMAGE				124	125	125	125
	85115	LIABILITY INSURANCE			2,515	604	625	625	625
	85116	E&O LIABILITY INSURANCE				469	475	475	475
	85117	VEHICLE LIABILITY INSURANCE				740	750	750	750
	85118	LAW ENFORCEMENT LIABILITY INSURANCE				621	625	625	625
	85119	UMBRELLA LIABILITY				225	225	225	225
	85120	PROPERTY DAMAGE COSTS			100				
+	85140	SURETY/NOTARY BONDS		50			50	50	50
	1	Various					50		50
	2	Ben Worley (Budget for May 2014)							
	3	Sarah Roop (Budget for June 2015)		50				50	
	4	Amanda Ray							

	Account	Label	Actual 2011	Actual 2012	Budget 2013	Estd 2013	Budget 2014	Forecast 2015	Forecast 2016
	*	Amount missing from detail							
=	XPLC	TOTAL PROPERTY & LIABILITY COSTS	2,849	3,091	3,631	3,837	3,945	3,945	3,945
+	85320	STATE FEES	1,625	2,005	3,250	2,820	2,805	3,085	2,945
	1	Various	1,625	405					
	2	State Privilege Tax ($400)			2,400	2,400	2,400	2,400	2,400
	3	Engineering License ($140)			560	420	280	420	280
	4	Water Distribution License - BW (no longer using)			25				
	5	PE Exam			265			265	265
	6	Appraisal Trainee Application Fee (Ben)					125		
	*	Amount missing from detail		1,600					
	85340	RECORDING & FILING FEES		97	100	100	100	100	100
=	XPERM	TOTAL PERMITS	1,625	2,102	3,350	2,920	2,905	3,185	3,045
	85990	MISCELLANEOUS			200				
=	XOBE	TOTAL OTHER BUSINESS EXPENSES			200				
=	XOP	TOTAL OPERATIONS	29,283	55,214	91,706	76,844	105,662	88,747	89,467
		Capital							
=	XTOT	TOTAL EXPENDITURES	588,560	761,838	862,603	847,421	884,386	890,828	915,605

2014 Budget - 11041610 TRAFFIC OPERATIONS CENTER (TOC)
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	Account	Label	Actual 2011	Actual 2012	Budget 2013	Estd 2013	Budget 2014	Forecast 2015	Forecast 2016
		Personnel							
=	81110	REGULAR PAY	169,967	177,154	207,403	200,144	214,897	221,344	227,984
	81120	OVERTIME PAY	80	105	200	200	200	200	200
	81199	VACANCY ADJUSTMENT			(7,259)		(7,521)	(7,747)	(7,979)
=	XWAGE	TOTAL WAGES	170,047	177,259	200,344	200,344	207,576	213,797	220,205
=	81410	FICA (EMPLOYER'S SHARE)	12,463	13,072	15,866	15,866	16,440	16,933	17,441
=	81420	MEDICAL PREMIUMS	27,870	27,870	34,362	34,362	42,757	44,040	45,361
=	81430	GROUP INSURANCE PREMIUMS	2,152	2,275	3,192	3,192	3,771	3,884	4,001
=	81440	EMPLOYEE INSURANCE CONTRIBUTIONS	(4,449)	(4,673)	(5,613)	(5,613)	(8,106)	(8,349)	(8,600)
	81450	RETIREMENT CONTRIBUTIONS	23,099	18,876	19,470	19,470	20,174	20,779	21,402
	81470	WORKERS COMPENSATION PREMIUMS	(1)	30	271	271	271	279	287
	81475	WORKERS COMPENSATION CLAIMS							
=	XBEN	TOTAL BENEFITS	61,134	57,450	67,548	67,548	75,306	77,586	79,892
=	XPER	TOTAL PERSONNEL	231,181	234,709	267,892	267,892	282,883	291,363	300,097
		Operations							
	82110	MAILING & OUTBOUND SHIPPING SERVICES		41	200	95	150	160	170
	82120	FREIGHT FOR INBOUND PURCHASED ITEMS		52					
=	XTRC	TOTAL TRANSPORTATION CHARGES		93	200	95	150	160	170
	82210	PRINTING & COPYING SERVICES, OUTSOURCED	174		150		150	150	150
	82245	FINGERPRINTING FEES							
+	82250	TESTING & PHYSICALS	46		670	700	200	200	200
	1	New Employees			500	500			
	2	Random Drug Screening			170	200	200	200	200
	3	Various	46						
	*	Amount missing from detail							
	82299	OTHER OPERATING SERVICES							
=	XOPSV	TOTAL OPERATING SERVICES	220		820	700	350	350	350
	82310	LEGAL NOTICES	723	258	800	400	400	800	800
+	82350	DUES FOR MEMBERSHIPS	1,801	1,903	2,365	1,040	1,040	1,070	1,100
	1	Various	1,801	806					
	10	Kevin - (APA $320) (ITE $260)			580				
	11	Chris - (IMSA $60)			60				
	12	New Employee (IMSA $60)			60				
	2	IMSA - (Chris & TOC O)				140	140	150	160
	3	ITE - (Carl & Kevin)				570	570	580	590
	4	APA - (Kevin)				230	230	235	240
	6	Work Zone and Level 1 - New Employee (moved to 82810)			365				
	7	ITSA - City Membership			1,000	100	100	105	110
	9	Carl - (ITE $260) (ASHE $40)			300				
	*	Amount missing from detail		1,097					
+	82390	PUBLICATIONS, NON-TRAINING	250	246	500	106	300	300	300
	1	Traffic Engineering Handbook 6th Edition				106			
	3	Various	250		500		300	300	300
	*	Amount missing from detail		146					
=	XNSP	TOTAL NOTICES, SUBSCRIPTIONS, PUBLICITY	2,774	2,407	3,665	1,546	1,740	2,170	2,200

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	Account	Label	Actual 2011	Actual 2012	Budget 2013	Estd 2013	Budget 2014	Forecast 2015	Forecast 2016
	82450	TELEPHONE SERVICE	1,934	1,647	1,000	600	600	610	620
	82451	800 MHZ ACCESS LINE SERVICE	34	40	50	50	50	55	65
+	82455	CELLULAR TELEPHONE SERVICE		635	800	600	600	610	620
	1	Kevin Cell Phone		170	800	600	600	610	620
	*	Amount missing from detail		465					
	82470	INTERNET & RELATED SERVICES	504	554	550	550	600	610	620
=	XUTIL	TOTAL UTILITIES	2,472	2,876	2,400	1,800	1,850	1,885	1,925
+	82510	COMPUTER SERVICES	995	1,450		1,200	1,200	1,200	1,200
	1	Various	995	1,200					
	2	Caliper Corporation (TransCAD Support)				1,200	1,200	1,200	1,200
	*	Amount missing from detail		250					
	82540	ENGINEERING SERVICES							
+	82560	CONSULTANT SERVICES	54,600	36,863	152,000	116,003	290,000	130,000	245,000
	1	Various	54,600	30,305					
	10	Comprehensive Transportation Network Study					200,000		
	2	ROW and Esmt Survey and Descriptions			6,000	3,000			
	3	Traffic Data Collection - Annual Program			6,000	6,003	30,000	30,000	30,000
	4	Traffic Signal Timing Optimization and Testing - Cool Springs Area			140,000	107,000			
	5	Downtown Circulation Study							40,000
	6	Traffic Signal Timing Optimization and Testing - Downtown							75,000
	7	Traffic Signal Timing Optimization and Testing - 96East						100,000	
	8	Traffic Signal Timing Optimization and Testing - Columbia					60,000		
	9	Traffic Signal Timing Optimization and Testing - Hillsboro Road							100,000
	*	Amount missing from detail		6,558					
	82599	OTHER CONTRACTUAL SERVICES		59					
=	XCTS	TOTAL CONTRACTUAL SERVICES	55,595	38,372	152,000	117,203	291,200	131,200	246,200
	82610	VEHICLE REPAIR & MAINTENANCE SERVICES	203	950	1,000	1,011	500	500	500
+	82620	EQUIPMENT REPAIR & MAINTENANCE SERVICES	529	4,905	150	500	500	500	500
	1	NovaCopy			150	500	500	500	500
	3	Various	529	2,779					
	*	Amount missing from detail		2,126					
=	XRMSV	TOTAL REPAIR & MAINTENANCE SERVICES	732	5,855	1,150	1,511	1,000	1,000	1,000
	82750	EMPLOYEE RECOGNITION/RECEPTIONS	46		100	100	150	150	150
	82780	TRAINING, OUTSIDE							
=	XEPG	TOTAL EMPLOYEE PROGRAMS	46		100	100	150	150	150
+	82810	REGISTRATIONS	1,569	1,950	1,400	2,150	2,650	2,650	2,650
	1	Various	1,569	555					
	2	ASCE (Carl)					50	50	50
	3	ASHE (Carl)				50	50	50	50
	7	ITSA Conference (Kevin & Carl)				700	800	800	800
	8	PE - Registrations			700	700	800	800	800
	9	Non PE - Registrations			700	700	950	950	950
	*	Amount missing from detail		1,395					
+	82820	GROUND TRANSPORTATION (OUTSIDE WILLIAMSON COUNTY)	57	306	1,150	1,150	1,150	1,150	1,250
	1	Various	57	306		1,150			
	3	PE - Ground Transportation			750		750	750	800
	4	Non PE - Ground Transportation			400		400	400	450
	*	Amount missing from detail							
+	82830	AIR TRAVEL	449		1,400	1,400	900	900	1,000

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	Account	Label	Actual 2011	Actual 2012	Budget 2013	Estd 2013	Budget 2014	Forecast 2015	Forecast 2016
	3	PE - Air Travel			700		450	450	500
	4	Non PE - Air Travel			700		450	450	500
	5	Various	449			1,400			
	*	Amount missing from detail							
+	82840	LODGING	689	307	1,850	1,850	2,450	2,500	2,550
	4								
	7	PE - Lodging			1,200		900	800	850
	8	Non PE - Lodging			650		1,550	1,700	1,700
	9	Various	689	307		1,850			
	*	Amount missing from detail							
+	82850	MEALS (OUTSIDE WILLIAMSON COUNTY)	28	107	1,500	1,500	1,600	1,650	1,650
	4								
	7	PE - Meals			1,200		500	550	550
	8	Non PE - Meals			300		1,100	1,100	1,100
	9	Various	28	107		1,500			
	*	Amount missing from detail							
	82890	OTHER TRAVEL EXPENSES		32	200	25	100	100	100
=	XPDT	TOTAL PROFESSIONAL DEVELOPMENT/TRAVEL	2,792	2,702	7,500	8,075	8,850	8,950	9,200
	83110	OFFICE SUPPLIES	69	26	200	200	200	250	300
	83130	EMPLOYEE BENEVOLENCE ITEMS			100	100	100	100	100
	83140	MEALS & FOOD (INSIDE WILLIAMSON COUNTY)	104		110	110	110	110	110
=	XOFS	TOTAL OFFICE SUPPLIES	173	26	410	410	410	460	510
	83210	TRAINING SUPPLIES			100				
	83250	SAFETY SUPPLIES			420	420	240	245	250
	83260	UNIFORMS PURCHASED	89	75	140	105	160	170	180
	83299	OTHER OPERATING SUPPLIES	6		100				
=	XOPS	TOTAL OPERATING SUPPLIES	95	75	760	525	400	415	430
	83310	GASOLINE & DIESEL FOR FLEET (INSIDE WILLIAMSON COUNTY)	682	1,268	1,200	1,000	1,200	1,300	1,400
=	XFUEL	TOTAL FUEL & MILEAGE	682	1,268	1,200	1,000	1,200	1,300	1,400
+	83530	MACHINERY & EQUIPMENT (<$25,000)	25,951	66,117			11,200	5,000	5,000
	1	Various	25,951	6,750				5,000	5,000
	2	4ea - Treehaven AXIS Video Field Box (4X $1600)					6,400		
	3	4 IE 3000 switches (4x$1200)					4,800		
	*	Amount missing from detail		59,367					
+	83540	COMPUTER HARDWARE (<$25,000)	6,605	1,950	22,700	25,298	18,000		3,000
	1	47" LCD/LED Back up Monitors			800	800			
	2	Hi-Res Monitor for TOC Conference Room			2,400	2,400			
	3	TOC 1 Toughbook			1,500	1,500			3,000
	4	Cisco Video Matrix - Lease Payment			18,000	18,000	18,000		
	5	Various	6,605	1,879		2,598			
	*	Amount missing from detail		71					
+	83550	COMPUTER SOFTWARE (<$25,000)	313		5,000	5,150	700	800	820
	1	HCS2010			250	400	400	450	460
	2	Synchro 8			2,000	2,000			
	3	TransCAD (moved to 82510)			1,550	1,550			
	4	Trip Generation			300	300	300	350	360
	5	Adobe			900	900			
	6	Various	313						
	*	Amount missing from detail							

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	Account	Label	Actual 2011	Actual 2012	Budget 2013	Estd 2013	Budget 2014	Forecast 2015	Forecast 2016
=	XMEU	TOTAL MACHINERY & EQUIPMENT (<$25,000)	32,869	68,067	27,700	30,448	29,900	5,800	8,820
	83620	EQUIPMENT PARTS & SUPPLIES	100	951	200		200	200	200
+	83641	TRAFFIC SIGNAL PARTS & SUPPLIES			1,200	1,200	1,000	1,000	1,000
	1	6-8' Ladder			100	100			
	2	Pop-Up Utility Tent			1,100	1,100			
	3	Various					1,000	1,000	1,000
	*	Amount missing from detail							
=	XRMS	TOTAL REPAIR & MAINTENANCE SUPPLIES	100	951	1,400	1,200	1,200	1,200	1,200
	84310	TRAFFIC OPERATIONS CENTER		3,106					
	84955	FRANKLIN ITS - ARRA # 5	768,851	291,788					
=	XOPU	TOTAL OPERATIONAL UNITS	768,851	294,894					
	85110	PROPERTY INSURANCE	1,122	1,195	399	275	275	275	275
	85111	FRAUD INSURANCE				10	10	10	10
	85112	INLAND MARINE INSURANCE				125	125	125	125
	85113	AUTO PHYSICAL DAMAGE				50	50	50	50
	85115	LIABILITY INSURANCE			988	250	250	250	250
	85116	E&O LIABILITY INSURANCE				200	200	200	200
	85117	VEHICLE LIABILITY INSURANCE				300	300	300	300
	85118	LAW ENFORCEMENT LIABILITY INSURANCE				250	250	250	250
	85119	UMBRELLA LIABILITY				100	100	100	100
=	XPLC	TOTAL PROPERTY & LIABILITY COSTS	1,122	1,195	1,387	1,560	1,560	1,560	1,560
	85310	PERMITS		1,250	400				
	85320	STATE FEES	400	540	140	140		140	
	85340	RECORDING & FILING FEES							
=	XPERM	TOTAL PERMITS	400	1,790	540	140		140	
	86600	LEASE/LOAN PRINCIPAL			10,000				
	86700	LEASE/LOAN INTEREST			339				
=	XDSV	TOTAL DEBT SERVICE			10,339				
=	XOP	TOTAL OPERATIONS	868,923	420,571	211,571	166,313	339,960	156,740	275,115
		Capital							
+	89530	MACHINERY & EQUIPMENT (>$25,000)	304,701	(4,307)	1,415,000	1,137,000	2,615,000	550,000	500,000
	1	Ph 3 TOC, Eng & Technical Svcs (Siemens)							
	10	Traffic Operations Center Remodel							
	11	SR 96 & Southwinds Intersection			35,000	57,000			
	12	ITS - ARRA (Adaptive Signal 80/20 Match)				200,000	1,000,000		
	13	Gallene Blvd						200,000	
	14	Mallory Station Road @ Mallory Lane and South Springs			210,000		210,000		

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	Account	Label	Actual 2011	Actual 2012	Budget 2013	Estd 2013	Budget 2014	Forecast 2015	Forecast 2016
	16	Various	304,701	155,620					
	16	Carothers @ SR96 Turn Lane Extension					120,000		
	2	Ph 3 TOC Infra & Upgrades (AECOM)			580,000	580,000			
	20	Columbia @ Southeast Pkwy/Shadow Green Dr ($195,000 from developer)					285,000		
	4	Ph 2 TOC, Fiber Optic Comm Duct (Stansell)							
	5	CCTV (RPM)							
	7	Traffic Signal Upgrade Program			90,000			350,000	500,000
	8	Franklin ITS Extension (80/20 Match)			500,000	300,000	1,000,000		
	9	School Flashing Beacon Upgrades							
	-	Amount missing from detail		(159,927)					
	89531	MACHINERY & EQUIPMENT (>25,000) NON-GRANT		185,936					
	89532	MACHINERY & EQUIPMENT (>$25,000) GRANT		105,633					
=	XMEO	TOTAL MACHINERY & EQUIPMENT (>$25,000)	304,701	287,262	1,415,000	1,137,000	2,615,000	550,000	500,000
=	XCAP	TOTAL CAPITAL	304,701	287,262	1,415,000	1,137,000	2,615,000	550,000	500,000
=	XTOT	TOTAL EXPENDITURES	1,404,805	942,542	1,894,463	1,571,205	3,237,843	998,103	1,075,212

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	Account	Label	Actual 2011	Actual 2012	Budget 2013	Estd 2013	Budget 2014	Forecast 2015	Forecast 2016
		Personnel							
=	81110	REGULAR PAY	443,388	567,471	633,175	611,014	657,449	677,172	697,488
	81120	OVERTIME PAY	8,806	9,536	6,400	10,500	10,815	11,135	11,460
	81199	VACANCY ADJUSTMENT			(22,161)		(23,011)	(23,701)	(24,412)
=	XWAGE	TOTAL WAGES	450,174	577,007	617,414	621,514	645,253	664,606	684,536
=	81410	FICA (EMPLOYER'S SHARE)	32,022	41,168	48,438	48,438	50,295	51,804	53,358
=	81420	MEDICAL PREMIUMS	123,681	191,911	198,114	198,114	201,371	207,412	213,634
=	81430	GROUP INSURANCE PREMIUMS	9,655	14,248	15,401	15,401	16,568	17,065	17,577
=	81440	EMPLOYEE INSURANCE CONTRIBUTIONS	(24,191)	(38,557)	(41,074)	(41,074)	(41,882)	(43,138)	(44,433)
	81450	RETIREMENT CONTRIBUTIONS	84,698	100,669	103,730	103,730	107,707	110,938	114,266
	81455	DEFERRED COMP MATCH		1,494	134	1,340	134	138	142
	81460	UNEMPLOYMENT CLAIMS							
	81470	WORKERS COMPENSATION PREMIUMS	351	231	2,705	2,705	2,705	2,786	2,870
	81475	WORKERS COMPENSATION CLAIMS							
=	XBEN	TOTAL BENEFITS	226,216	311,164	327,448	328,654	336,898	347,005	357,414
=	XPER	TOTAL PERSONNEL	676,390	888,171	944,862	950,168	982,151	1,011,611	1,041,950
		Operations							
+	82110	MAILING & OUTBOUND SHIPPING SERVICES	26	104	200	142	200	200	200
	1	Streets			100				
	2	Engineering			100	42	200	200	200
	3	Various	26						
	*	Amount missing from detail		104					
!	82120	FREIGHT FOR INBOUND PURCHASED ITEMS			100	50	100	100	100
	82130	VEHICLE LICENSES & TITLES	18		100	1	100	100	100
	82140	VEHICLE TOW-IN SERVICES			250	200	250	257	264
=	XTRC	TOTAL TRANSPORTATION CHARGES	44	104	650	393	650	657	664
+	82210	PRINTING & COPYING SERVICES, OUTSOURCED		59	100	100	100	100	100
	1	Engineering				100	100	100	100
	*	Amount missing from detail		59	100				
+	82250	TESTING & PHYSICALS	1,364	398	500	100	500	300	300
	1	Various	1,364	55	400			100	100
	2	Engineering			100	100	500	200	200
	*	Amount missing from detail		343					
	82260	UNIFORM RENTAL & SERVICES	2,680	2,816	1,500	100	250	257	264
	82270	LANDFILL & BIOSOLIDS MANAGEMENT SERVICES			520	1	500	514	528
=	XOPSV	TOTAL OPERATING SERVICES	4,044	3,273	2,620	301	1,350	1,171	1,192
+	82310	LEGAL NOTICES	432	779	520	2,000	2,000	2,000	2,000
	1	Engineering				2,000	2,000	2,000	2,000
	*	Amount missing from detail	432	779	520				
+	82350	DUES FOR MEMBERSHIPS	597	777	1,015	1,253	1,271	1,277	1,284
	1	Streets			250	300	206	212	219
	2	Engineering - Crystal CMS4S Certification Renewal			75	75	75	75	75
	3	Engineering - Southeastern Stormwater Association (SESWA)			525	513	525	525	525
	4	Engineering - American Water Resource Association (AWRA)			165	165	165	165	165
	5	Engineering - Tennessee Stormwater Association (TNSA)				300	300	300	300
	6	Various	597						
	*	Amount missing from detail		777					

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	Account	Label	Actual 2011	Actual 2012	Budget 2013	Estd 2013	Budget 2014	Forecast 2015	Forecast 2016
+	82360	PUBLIC RELATIONS & EDUCATION (CITY SPONSORED)	9,211	609	10,000	10,000	10,000	10,000	10,000
	1	Streets							
	2	Eng - Public Service Announcements (Radio and TV) - MS4 Permit Requirement			2,500	2,500	2,500	2,500	2,500
	3	Eng - Public Involvement and Outreach - MS4 Permit Requirement			2,500	2,500	2,500	2,500	2,500
	4	Eng - Public Education Materials - MS4 Permit Requirement			5,000	5,000	5,000	5,000	5,000
	5	Various	9,211						
	*	Amount missing from detail		609					
	82370	PROMOTIONS & SPECIAL EVENTS (NOT CITY SPONSORED)		410					
	82371	EMERGENCY RELIEF	5,799						
	82390	PUBLICATIONS, NON-TRAINING			150	215	250	250	250
=	XNSP	TOTAL NOTICES, SUBSCRIPTIONS, PUBLICITY	16,039	2,575	11,685	13,468	13,521	13,527	13,534
	82410	ELECTRIC SERVICE	9,087	9,230	4,123	3,500	4,243	4,356	4,480
	82420	WATER & SEWER SERVICE			100		100	100	100
!	82435	SOLID WASTE SERVICE		12,202	30,000	30,000	31,000	31,800	33,000
	82450	TELEPHONE SERVICE				31	50	50	50
	82451	800 MHZ ACCESS LINE SERVICE	24	14	100	13	25	26	27
+	82455	CELLULAR TELEPHONE SERVICE	5,768	5,753	9,000	8,800	10,300	11,062	11,225
!	1	Streets	5,768						
	2	Engineering - Gauging Stations			3,500	4,000	5,400	5,562	5,725
	3	Engineering - Crystal Cell Phone			5,000	4,400	4,500	5,000	5,000
	*	Amount missing from detail		5,753	500	400	400	500	500
	82470	INTERNET & RELATED SERVICES	504	554	510	545	550	565	580
=	XUTIL	TOTAL UTILITIES	15,383	27,753	43,830	42,889	46,268	47,959	49,452
	82510	COMPUTER SERVICES							
	82520	LEGAL SERVICES			260	260	270	270	270
+	82560	CONSULTANT SERVICES	16,730	32,350	271,000	216,526	397,000	335,000	335,000
	1	Streets			5,000	1	5,000	5,000	5,000
	10	Eng - Hatcher Springs Master Plan Modeling				110,000			
	11	Eng - USACE Feasibility Study					90,000	90,000	90,000
	2	Engineering TMDL Sampling - Macroinvertebrate Analysis			10,000	10,000	10,000	12,000	12,000
	3	Engineering TMDL Sampling - E. Coli Analysis			2,000	2,000	2,000	3,000	3,000
	4	Eng - USGS Stream Gauging Stations			19,000	15,000	15,000	25,000	25,000
	5	Various	16,730					100,000	100,000
	6	Eng - BMP Manual Update			100,000	25,000	75,000		
	7	Eng - Impervious Surface Update			85,000	25,125			
	8	Eng - Stormwater Management Master Plan Modeling			50,000	29,400	100,000	100,000	100,000
	9	Eng - Jordan Road Branch					100,000		
	*	Amount missing from detail		32,350					
	82599	OTHER CONTRACTUAL SERVICES							
=	XCTS	TOTAL CONTRACTUAL SERVICES	16,730	32,350	271,260	216,786	397,270	335,270	335,270
!+	82610	VEHICLE REPAIR & MAINTENANCE SERVICES	19,236	12,126	17,000	10,000	12,000	12,350	12,650
	1	Streets	19,236	10,320	17,000	10,000	12,000	12,350	12,650
	*	Amount missing from detail		1,806					
+	82620	EQUIPMENT REPAIR & MAINTENANCE SERVICES	2,381	14,847	7,500	7,614	7,810	8,020	8,240
	1	Streets			7,000	7,000	7,210	7,420	7,640
	2	Engineering Nova Copy			500	614	600	600	600
	3	Various	2,381						
	*	Amount missing from detail		14,847					
!	82640	PAVING & REPAIR SERVICES					10,000	10,000	10,000
!	82645	STORMWATER MAINTENANCE SERVICES		15,907					
!	82646	CONCRETE CURB REPAIR		8,850			10,000	10,000	10,000
	82660	BUILDING REPAIR & MAINTENANCE SERVICES		553					
!	82699	OTHER REPAIR & MAINTENANCE SERVICES					10,000	10,000	10,000

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	Account	Label	Actual 2011	Actual 2012	Budget 2013	Estd 2013	Budget 2014	Forecast 2015	Forecast 2016
=	XRMSV	TOTAL REPAIR & MAINTENANCE SERVICES	21,617	52,283	24,500	17,614	49,810	50,370	50,890
+	82750	EMPLOYEE RECOGNITION/RECEPTIONS	50	300	2,100	1,700	2,150	2,200	2,250
I	1	Streets			2,000	1,600	2,000	2,000	2,000
	2	Engineering			100	100	150	200	250
	3	Various	50						
	*	Amount missing from detail		300					
+	82780	TRAINING, OUTSIDE	400	825	1,000	1,000	1,050	1,100	1,150
	1	Streets (hazardous materials training certification	400		1,000	1,000	1,050	1,100	1,150
	*	Amount missing from detail		825					
+	82790	TRAINING, IN-HOUSE			1,500	1,500	1,545	1,590	1,640
	1	Streets traffic control / work zone safety training			1,500	1,500	1,545	1,590	1,640
	*	Amount missing from detail							
=	XEPG	TOTAL EMPLOYEE PROGRAMS	450	1,125	4,600	4,200	4,745	4,890	5,040
+	82810	REGISTRATIONS	2,016	844	4,475	4,160	4,375	3,980	3,780
	1	Streets Stormwater (2) inspectors, (1) supervisor Stormcon Certs			2,400	2,000	2,100	2,200	2,300
	10	Engineering - Nat'l Water Quality Monitoring Conf (JW)					500	550	550
	11	Engineering - StormCon Annual Meeting (CP)					500	550	550
	2	Engineering - Stormwater Coordinator			1,675	1,675			
	3	Engineering - AWRA (CP, JW & ECS)					375	380	380
	6	Engineering - TNEPSC 2 (ECS)					400		
	7	Various	2,016			485			
	8	Engineering - TNSA Aunnual Conf (CP, JW & ECS)					300	300	
	9	Engineering - TNEPSC 1 (ECS)			400		200		
	*	Amount missing from detail		844					
+	82820	GROUND TRANSPORTATION (OUTSIDE WILLIAMSON COUNTY)	456	1,318	1,325	1,125	2,565	2,595	2,625
	1	Streets Stormwater (2) insp & (1) supervisor Stormcon			600	400	500	530	560
	2	Engineering - Stormwater Coordinator			475		1,030	1,030	1,030
	3	Engineering - Water Quality Specialist			250		695	695	695
	4	Engineering - Erosion Control Specialist					340	340	340
	5	Various	456			725			
	*	Amount missing from detail		1,318					
+	82830	AIR TRAVEL	606	240	2,025	1,500	2,800	2,845	2,890
	1	Streets Stormwater (2) insp & (1) supervisor Stormcon			1,500	1,500	1,500	1,545	1,590
	2	Engineering - Stormwater Coordinator			525		700	700	700
	3	Engineering - Water Quality Specialist					600	600	600
	4	Various	606						
	5	Line item 5							
	6	Line item 6							
	*	Amount missing from detail		240					
+	82840	LODGING	880	1,894	4,500	4,200	3,694	4,368	4,420
	1	Streets Stormwater (2) insp & (1) supervisor Stormcon			2,100	1,800	1,854	1,906	1,960
	2	Engineering - Stormwater Coordinator			1,300		1,020	1,200	1,200
	3	Engineering - Water Quality Specialist			1,100		660	1,100	1,100
	4	Engineering - Erosion Control Specialist					160	160	160
	5	Various	880			2,400			
	*	Amount missing from detail		1,894					
+	82850	MEALS (OUTSIDE WILLIAMSON COUNTY)	241	435	1,885	1,285	1,710	1,885	1,910
	1	Streets			1,200	600	800	825	850
	2	Engineering - Stormwater Coordinator			585		350	500	500
	4	Engineering - Water Quality Specialist			100		420	420	420
	5	Engineering - Erosion Control Specialist					140	140	140
	6	Various	241			685			
	*	Amount missing from detail		435					
	82890	OTHER TRAVEL EXPENSES		6					

	Account	Label	Actual 2011	Actual 2012	Budget 2013	Estd 2013	Budget 2014	Forecast 2015	Forecast 2016
=	XPDT	TOTAL PROFESSIONAL DEVELOPMENT/TRAVEL	4,399	4,737	14,210	12,270	15,144	15,673	15,625
+	83110	OFFICE SUPPLIES	116	1,124	350	300	450	450	450
	1	Streets			150	100	150	150	150
	2	Engineering			200	200	300	300	300
	3	Various	116						
	*	Amount missing from detail		1,124					
	83130	EMPLOYEE BENEVOLENCE ITEMS		68					
+	83140	MEALS & FOOD (INSIDE WILLIAMSON COUNTY)	28	265	500	300	500	500	500
	1	Streets				150	300	300	300
	2	Engineering				150	200	200	200
	*	Amount missing from detail	28	265	500				
=	XOFS	TOTAL OFFICE SUPPLIES	144	1,457	850	600	950	950	950
	83210	TRAINING SUPPLIES	114		150		150	150	150
	83220	CHEMICALS & LAB SUPPLIES							
+	83250	SAFETY SUPPLIES	5,516	4,612	4,285	4,185	5,195	4,240	5,805
!	1	Streets			4,000	4,000	4,120	4,240	4,360
	2	Engineering - Waders			100	100	200		400
	3	Engineering - Winter Water Proof Coats					200		400
	4	Engineering - Boots			85	85	255		225
	5	Engineering - write in the rain books and pens (moved to office supplies)			100				
	6	Various	5,516						
	7	Engineering - Wader Boots					140		140
	8	Engineering - Rain Pants					280		280
	*	Amount missing from detail		4,612					
!+	83260	UNIFORMS PURCHASED	1,544	3,630	5,570	5,570	5,620	5,795	5,970
	1	Streets			5,500	5,500	5,500	5,665	5,830
	2	Engineering			70	70	120	130	140
	3	Various	1,544						
	*	Amount missing from detail		3,630					
+	83299	OTHER OPERATING SUPPLIES	3,935	1,929	1,500		1,500	1,500	1,500
	1	Streets			1,500		1,500	1,500	1,500
	10								
	11								
	12								
	13								
	14	Various	3,935						
	16								
	6								
	7								
	8								
	9								
	*	Amount missing from detail		1,929					
=	XOPS	TOTAL OPERATING SUPPLIES	11,109	10,171	11,505	9,755	12,465	11,685	13,425
	83310	GASOLINE & DIESEL FOR FLEET (INSIDE WILLIAMSON COUNTY)	47,340	60,649	55,000	60,000	64,000	66,000	68,000
=	XFUEL	TOTAL FUEL & MILEAGE	47,340	60,649	55,000	60,000	64,000	66,000	68,000
+	83510	FURNITURE, FIXTURES (<$25,000)			500	150	900	500	900
	1	Streets				150	500	500	500
	2	Engineering - Chairs					400		400
	*	Amount missing from detail			500				
!+	83520	VEHICLES (<$25,000)					47,000		
	1	Streets					25,000		

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	Account	Label	Actual 2011	Actual 2012	Budget 2013	Estd 2013	Budget 2014	Forecast 2015	Forecast 2016
	2	Engineering (4WD pickup truck)					22,000		
	*	Amount missing from detail							
+	83530	MACHINERY & EQUIPMENT (<$25,000)	10,214	9,984	25,225	36,225	14,090	6,400	6,700
	1	Inspectors Lazer Level					1,500		
	10	Engineering - Ilicit Discharge Dection (Detergent Kit Refills)			200	200	200	200	200
	11	Engineering - Ilicit discharge Detection (Ammonia)			150	150	150	200	200
	12	Engineering - Ilicit discharge Detection (Chlorine Kit Refills)			150	150	150	200	200
	13	Engineering - TMDL Sampling Equip (Nalgene Bottles)			350	350	500	500	500
	14	Engineering - TMDL Sampling Equip (Dissecting Microscope)			400	400			
	15	Engineering - TMDL Sampling Equip (Magnifying Glass)			25	25			
	16	Engineering - Various			500	500	1,000	1,000	1,000
	17	Line Item 17	10,214						
	18	Engineering - Multi-Parameter Rugged Water Quality Meter				10,000			
	19	Engineering - Hardware Tools for Transects (Hammer, Stakes, Tape)					300		300
	2	Streets - Tracked Excavator Grapple Attachment							
	20	Engineering - Water Quality Station Stream Gauges					1,100	1,100	1,100
	21	Engineering - Folding Table					40		
	22	Inspectors consumable tools					2,000	2,000	2,000
	3	Streets - Chain Saw			1,000	1,000	1,000	1,000	1,000
	4	Streets - Jumping Jack trench compactor			5,500	5,500			
	5	Streets - Tracked Skid Steer loader Attachment			5,500	5,500	6,000		
	6	Streets - Weigh / load log for rubber tired loader			3,800	3,800			
	7	Streets - Walk behind tracked excavator			5,500	5,500			
	8	Engineering - Spectrophotometer			3,000	3,000			
	9	Engineering - Ilicit discharge Detection (Phosphate Kit Refills)			150	150	150	200	200
	*	Amount missing from detail		9,984					
+	83540	COMPUTER HARDWARE (<$25,000)	959	4,852	2,500	2,500	8,000	4,000	2,500
	1	Streets Inspectors Laptops			2,500	2,500	2,500	2,500	2,500
	2	Engineering - Computers					3,000	1,500	
	3	Various	959						
	4	Engineering - Field Appropriate Notebook Tablet (2)					2,500		
	*	Amount missing from detail		4,852					
+	83550	COMPUTER SOFTWARE (<$25,000)			200	200	400	200	
	1	Engineering - Full Version of Adobe Acrobat			200	200	400	200	
	*	Amount missing from detail							
=	XMEU	TOTAL MACHINERY & EQUIPMENT (<$25,000)	11,173	14,836	29,425	39,075	70,390	11,100	10,100
'	83610	VEHICLE PARTS & SUPPLIES	21,973	17,260	15,000	30,000	16,000	16,500	17,000
	83620	EQUIPMENT PARTS & SUPPLIES	6,066	6,904	5,000	5,000	5,150	5,300	5,450
	83640	PAVING & REPAIR SUPPLIES	223	672	5,000				
	83645	STORMWATER MAINTENANCE SUPPLIES		13	2,500	50	250	250	250
	83652	LANDSCAPING SUPPLIES			2,500	500	2,500	2,575	2,650
	83653	IRRIGATION SUPPLIES			1,000				
	83660	BUILDING MAINTENANCE SUPPLIES	218	592	1,200	1,651	1,250	1,300	1,350
|+	83699	OTHER REPAIR & MAINTENANCE PARTS & SUPPLIES	113,979	96,520	151,700	71,700	161,350	159,700	159,000
	1	Streets - Misc Drainage Projects Throughout City	113,979		150,000	70,000	159,000	159,000	159,000
	2	Engineering - TMDL Sampling Equip Maint (Calibration Solution)			500	500	500	500	
	3	Engineering DO Sensor Replacement Cap			200	200	200	200	
	4	Engineering - Troll Cable Extendor			500	500			
	5	Engineering - Troll Carrying Case			500	500			
	6	Engineering - Bubler Housing for DO sensor calibration					250		
	7	Engineering - pH sensor maintenance solution					200		
	6	Engineering - other repairs					1,200		
	*	Amount missing from detail		96,520					
=	XRMS	TOTAL REPAIR & MAINTENANCE SUPPLIES	142,459	121,981	183,900	108,901	186,500	185,625	185,700

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	Account	Label	Actual 2011	Actual 2012	Budget 2013	Estd 2013	Budget 2014	Forecast 2015	Forecast 2016
	84710	ADMIN SERVICES PROVIDED BY GENERAL FUND	252,010	150,144	171,449	160,836	166,000	170,000	175,000
=	XOPU	TOTAL OPERATIONAL UNITS	252,010	150,144	171,449	160,836	166,000	170,000	175,000
	85110	PROPERTY INSURANCE	5,500	5,945	1,987	1,400	1,400	1,400	1,400
	85111	FRAUD INSURANCE				50	50	50	50
	85112	INLAND MARINE INSURANCE				625	625	625	625
	85113	AUTO PHYSICAL DAMAGE				250	250	250	250
	85115	LIABILITY INSURANCE			4,917	1,150	1,150	1,150	1,150
	85116	E&O LIABILITY INSURANCE				900	900	900	900
	85117	VEHICLE LIABILITY INSURANCE				1,425	1,425	1,425	1,425
	85118	LAW ENFORCEMENT LIABILITY INSURANCE				1,190	1,190	1,190	1,190
	85119	UMBRELLA LIABILITY				450	450	450	450
	85120	PROPERTY DAMAGE COSTS							
=	XPLC	TOTAL PROPERTY & LIABILITY COSTS	5,500	5,945	6,904	7,440	7,440	7,440	7,440
	85240	EQUIPMENT RENTAL & LEASES	190	646	5,000	1,500	5,000	5,000	5,000
=	XRENT	TOTAL RENTALS	190	646	5,000	1,500	5,000	5,000	5,000
!	85310	PERMITS	100		520	1	500	500	500
+	85320	STATE FEES	3,460	3,482	4,460	3,460	3,960	3,960	3,960
	1	Streets			500		500	500	500
	2	Engineering - TDEC Small MS4 Permit TNS075311			3,460	3,460	3,460	3,460	3,460
	3	Various	3,460	22					
	4	Engineering - TNEPSC Level 1 & 2 (moved to registrations)			500				
	*	Amount missing from detail		3,460					
	85330	UTILITY DISTRICT FEES							
	85340	RECORDING & FILING FEES	27		6,240	100	500	500	500
=	XPERM	TOTAL PERMITS	3,587	3,482	11,220	3,561	4,960	4,960	4,960
	85570	BAD DEBT EXPENSE (NET OF RECOVERIES)	4,441	6,804		2,800	5,000	5,150	5,300
=	XFLF	TOTAL FINANCIAL FEES	4,441	6,804		2,800	5,000	5,150	5,300
	85990	MISCELLANEOUS	73						
=	XOBE	TOTAL OTHER BUSINESS EXPENSES	73						
	86600	LEASE/LOAN PRINCIPAL	11,977	12,528		12,000	13,000	13,390	13,800
	86700	LEASE/LOAN INTEREST	1,118	566		500	500	500	500
=	XDSV	TOTAL DEBT SERVICE	13,095	13,094		12,500	13,500	13,890	14,300
=	XOP	TOTAL OPERATIONS	569,827	513,389	848,608	714,889	1,064,963	951,317	961,852
		Capital							
+	89410	DRAINAGE	258,172	1,094,170	1,840,000	891,599	1,946,000	2,201,000	1,636,000
	1	Various	258,172					1,500,000	
	11	Eng - Stream & Rainfall Gauging Stations			100,000	36,000	36,000	36,000	36,000
	2	Eng - Battle Ave Design and Construction			1,100,000	48,500	1,130,000		
	4	Eng - Parkview Drainage Improvements Design/Construction			65,000			85,000	1,000,000
	7	Eng - On Call Stream Restoration Design/Construction			500,000	784,844	660,000	500,000	500,000
	8	Eng - Regional Retention/Detention Basins			75,000	43,255	75,000	100,000	100,000
	9	Streets - Fieldstone Farms Sump Pumps					45,000		
	*	Amount missing from detail		1,094,170					

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	89420	STREETS			10,000	10,000			
	89430	CURB & GUTTER REPLACEMENT			10,000	14,569			
	89460	SIDEWALKS			10,000	5,431			
=	XINFR	TOTAL INFRASTRUCTURE	258,172	1,094,170	1,870,000	921,599	1,946,000	2,201,000	1,636,000
+=	89520	VEHICLES (>$25,000)	44,264						
	1		44,264						
	2	Streets							
	*	Amount missing from detail							
+	89530	MACHINERY & EQUIPMENT (>$25,000)		55,300	145,000		84,000	45,000	
	1	Mulch / Compost Blower					45,000		
!	2	Tracked Skid Steer					39,000		
	3	Tracked Mini Excavator						45,000	
	*	Amount missing from detail		55,300	145,000				
	89550	COMPUTER SOFTWARE (>$25,000)	34,169						
=	XMEO	TOTAL MACHINERY & EQUIPMENT (>$25,000)	78,433	55,300	145,000		84,000	45,000	
=	XCAP	TOTAL CAPITAL	336,605	1,149,470	2,015,000	921,599	2,030,000	2,246,000	1,636,000
=	XTOT	TOTAL EXPENDITURES	1,582,822	2,551,030	3,808,470	2,586,656	4,077,114	4,208,928	3,639,802