

**City of Johnson City, Tennessee**  
**Capital Improvements Program**  
**Fiscal Years 2017 - 2021**

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**Board of Commissioners**

Clayton Stout, Mayor  
David Tomita, Vice-Mayor  
Jeff Banyas  
Jenny Brock  
Ralph Van Brocklin

**Administration**

M. Denis Peterson, City Manager  
Charles J. Stahl IV, Assistant City Manager  
Robert L. Wilson, Assistant City Manager  
Lora A. Grogg, Director of Budget and Performance Management  
Dustin B. Thompson, Management Analyst

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**City of Johnson City, Tennessee  
Capital Improvements Program  
Fiscal Years 2017-2021**

**Expenditure Summary  
(000's)**

<b>PROGRAM</b>	<b>Projected 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>TOTAL 5 YEARS 2017-2021</b>
Equipment	6,848	5,778	7,301	8,250	5,190	5,585	32,104
General Facilities	6,785	5,670	630	2,148	12,665	12,785	33,898
Parks & Recreation	140	955	1,045	990	5,085	1,625	9,700
Schools	750	9,360	5,500	980	10,070	425	26,335
Transportation	10,370	10,455	10,165	20,625	12,300	10,720	64,265
Utilities	7,655	24,510	27,560	15,800	16,675	15,875	100,420
<b>TOTAL</b>	<b>32,548</b>	<b>56,728</b>	<b>52,201</b>	<b>48,793</b>	<b>61,985</b>	<b>47,015</b>	<b>266,722</b>

**City of Johnson City, Tennessee  
Capital Improvements Program  
Fiscal Years 2017-2021**

**Funding Summary  
(000's)**

SOURCE	Projected 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL 5 YEARS 2017-2021
Capital Outlay Note	-	350	350	-	500	-	1,200
Economic Development Reserve	1,550	-	-	-	-	-	-
Federal - Grants, FWHA, and Safety-Lu	3,758	3,070	5,614	664	5,952	1,810	17,110
General Fund	7,006	7,482	7,477	7,398	7,309	7,762	37,428
General Obligation Bond Issue	-	9,800	2,650	9,156	18,860	18,430	58,896
General Obligation Bond Proceeds	5,755	4,375	-	-	-	-	4,375
Other	840	1,332	408	362	362	362	2,826
PEP Bond Issue	-	810	1,000	-	-	-	1,810
Solid Waste Fund	759	1,694	2,329	665	178	206	5,072
State of Tennessee	1,988	2,005	363	12,868	69	1,370	16,675
Storm Water Fund	1,400	550	450	450	450	450	2,350
Storm Water Bond Proceeds	1,200	-	-	-	-	-	-
Washington County	-	-	500	-	1,360	-	1,860
Washington County Bond Issue	-	-	2,750	680	9,520	-	12,950
Water/Sewer Bond Issue	-	9,700	13,800	11,300	13,000	8,000	55,800
Water/Sewer Bond Proceeds	3,750	9,650	9,250	-	-	-	18,900
Water/Sewer Fund	4,542	5,910	5,260	5,250	4,425	8,625	29,470
<b>TOTAL</b>	<b>32,548</b>	<b>56,728</b>	<b>52,201</b>	<b>48,793</b>	<b>61,985</b>	<b>47,015</b>	<b>266,722</b>

Capital Projects Requiring New Debt Financing  
 FY 2017 - 2021  
 (000's)

	2017	2018	2019	2020	2021	TOTAL 5 Years 2017 - 2021
<u>Equipment/Facilities/Parks</u>						
Fire Trucks	400	400	400	400	950	2,550
Fleet Management Equipment			2,906			2,906
Park Facility Improvements		200	450	4,250	1,200	6,100
Public Safety Facility		50	1,200	11,900	11,900	25,050
<b>Total Equipment/Facilities/Parks</b>	<b>400</b>	<b>650</b>	<b>4,956</b>	<b>16,550</b>	<b>14,050</b>	<b>36,606</b>
<u>Schools</u>						
Lake Ridge Renovation and Improvements		200				200
Langston Demolition and Replacement	4,000					4,000
North Side Renovation		550				550
School Facilities Resurfacing	350	250	200	350	200	1,350
Science Hill Renovation	3,800					3,800
Town Acres Renovation		500				500
<b>Total Schools</b>	<b>8,150</b>	<b>1,500</b>	<b>200</b>	<b>350</b>	<b>200</b>	<b>10,400</b>
<u>Transportation</u>						
Downtown Streetscape Improvements	800			300	300	1,400
I-26/Boones Creek Interchange			1,000			1,000
Innovation Park			3,000			3,000
Knob Creek Road/Bridge - SOF to Stone Ridge SD		500		1,360	3,880	5,740
Roadway Enhancement Projects				300		300
V.A. Access Road	450					450
<b>Total Transportation</b>	<b>1,250</b>	<b>500</b>	<b>4,000</b>	<b>1,960</b>	<b>4,180</b>	<b>11,890</b>
<b>Total Debt Funded Projects</b>	<b>9,800</b>	<b>2,650</b>	<b>9,156</b>	<b>18,860</b>	<b>18,430</b>	<b>58,896</b>

Capital Projects Requiring Debt Funding Beyond 5-Year CIP or Not Funded  
 FY 2017 - 2021  
 (000's)

Facilities

Fire Department	Construction of Fire Station #10	1,250
Freedom Hall	Erosion correction and brick wall replacement	100
	Parking lot repairs/resurfacing - lots B & C	150
	Concessions Renovations	200
	Arena ceiling fall protection cabling system	150
	Exterior plaza brick/planter removal and concrete replace	50
	Hallways/concrete floors - grind, polish, and seal	50
	Portable stage and security barricade purchase	30
	Interior and exterior security cameras, monitoring screens	40
		770
	Total Facilities	2,020

Transportation

Boones Creek Road Interchange	Local Match	600
Boone Station Development		4,000
Brown's Mill Road Extension	Carroll Creek to Boone's Creek (development driven)	14,000
Carroll Creek Road Widening	Bristol Highway 11E to Lake Ridge School	10,000
Indian Ridge Road Connector	Indian Ridge to Claude Simmons	5,000
Green Pond Road Improvements	Walnut to Market Street	5,000
Walnut Street Improvement	Huffine to State of Franklin	5,000
Sunset/State of Franklin Intersection	Intersection Improvements (development driven)	1,250
Watauga Road Super 2 Lane	Watauga to Johnson City (SR 400)	5,000
	Total Transportation	49,850
	<b>Total Projects Beyond 5-Yr CIP</b>	<b>51,870</b>

**SUMMARY OF PROPOSED IMPROVEMENTS BY FUNDING SOURCE**  
(000's)

PROJECTS	PROPOSED FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL 5 YEARS 2017-2021
<b>CAPITAL OUTLAY NOTE</b>						
<b>Parks and Recreation</b>						
Lighting Improvements	350	350	-	500	-	1,200
<b>Total - Capital Outlay Note</b>	<b>350</b>	<b>350</b>	<b>-</b>	<b>500</b>	<b>-</b>	<b>1,200</b>
<b>FEDERAL (GRANTS, FWHA, SAFETY-LU) (funding source)</b>						
<b>Equipment (section of the capital plan)</b>						
Mass Transit Equipment	50	614	664	672	690	2,690
<b>Transportation</b>						
Indian Ridge/State of Franklin Interchange	2,420	-	-	-	-	2,420
Knob Creek Road/Bridge - SOF to Stone Ridge SD	-	5,000	-	5,280	1,120	11,400
VA Access Road - Market Street to VA	600	-	-	-	-	600
<b>Total - Transportation</b>	<b>3,020</b>	<b>5,000</b>	<b>-</b>	<b>5,280</b>	<b>1,120</b>	<b>14,420</b>
<b>Total - Federal</b>	<b>3,070</b>	<b>5,614</b>	<b>664</b>	<b>5,952</b>	<b>1,810</b>	<b>17,110</b>
<b>GENERAL FUND</b>						
<b>Equipment</b>						
Fire Department - Operations Equipment	150	85	270	443	313	1,261
Fleet Management Equipment	189	487	23	90	32	821
Golf Course Equipment - Buffalo Valley	46	47	45	27	50	215
Golf Course Equipment - Pine Oaks	39	47	41	33	42	202
Information Technology Equipment	266	266	266	266	266	1,330
Johnson City Public Library	33	30	100	30	30	223
Mass Transit (local match)	5	63	68	69	70	275
Parks & Recreation Equipment	92	105	67	22	22	308
Police Department - Equipment	578	525	525	525	525	2,678
Public Works Equipment	790	677	751	775	728	3,721
Senior Services - Equipment	25	-	-	-	-	25
Student Transportation	484	455	479	479	479	2,376
<b>Total - Equipment</b>	<b>2,697</b>	<b>2,787</b>	<b>2,635</b>	<b>2,759</b>	<b>2,557</b>	<b>13,435</b>

**SUMMARY OF PROPOSED IMPROVEMENTS BY FUNDING SOURCE**  
(000's)

PROJECTS	PROPOSED FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL 5 YEARS 2017-2021
<b>General Facilities</b>						
Facility Improvements	450	75	-	150	100	775
Fire Station Improvements	95	55	55	115	335	655
Freedom Hall Improvements	-	-	30	50	-	80
Johnson City Public Library Roof Replacement	-	-	213	-	-	213
Total - General Facilities	545	130	298	315	435	1,723
<b>Parks &amp; Recreation</b>						
Golf Course Improvements - Buffalo Valley	-	75	75	-	-	150
Golf Course Improvements - Pine Oaks	300	145	65	-	-	510
Lighting Improvements	100	-	100	60	-	260
Playground Equipment Replacement/Repair	155	125	300	275	425	1,280
Soccer Field Improvements	50	50	-	-	-	100
Winged Deer Park Pavilion	-	50	-	-	-	50
Total - Parks & Recreation	605	445	540	335	425	2,350
<b>Johnson City Schools</b>						
School Facilities - General Maintenance	200	250	100	200	225	975
<b>Transportation</b>						
<i>(Included in Public Works operating budget)</i>						
Community Beautification Project	100	100	100	100	100	500
Downtown Streetscape	-	400	-	-	-	400
Roadway Enhancements	100	100	200	-	220	620
Sidewalk/Trail Construction	235	165	275	200	200	1,075
Street Resurfacing	3,000	3,100	3,250	3,400	3,600	16,350
Total - Transportation	3,435	3,865	3,825	3,700	4,120	18,945
<b>Total - General Fund</b>	<b>7,482</b>	<b>7,477</b>	<b>7,398</b>	<b>7,309</b>	<b>7,762</b>	<b>37,428</b>

**SUMMARY OF PROPOSED IMPROVEMENTS BY FUNDING SOURCE**  
(000's)

PROJECTS	PROPOSED FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL 5 YEARS 2017-2021
<b>GENERAL OBLIGATION BOND ISSUE</b>						
<b>Equipment</b>						
Fire Department - Pumpers/Engines/Platforms	400	400	400	400	950	2,550
Fleet Management Equipment	-	-	2,906	-	-	2,906
Total - Equipment	400	400	3,306	400	950	5,456
<b>General Facilities</b>						
Public Safety Facility	-	50	1,200	11,900	11,900	25,050
<b>Parks &amp; Recreation</b>						
Ball Fields - Design and Construction	-	-	250	2,000	1,200	3,450
Keefauver Farm Improvements - Master Plan	-	200	-	-	-	200
Memorial Park Community Center	-	-	200	2,250	-	2,450
Total - Parks & Recreation	-	200	450	4,250	1,200	6,100
<b>Johnson City Schools</b>						
Lake Ridge Renovations and Improvements	-	200	-	-	-	200
Langston Demolition and Replacement	4,000	-	-	-	-	4,000
North Side Renovation	-	550	-	-	-	550
School Facilities - Resurfacing	350	250	200	350	200	1,350
Science Hill Renovation	3,800	-	-	-	-	3,800
Town Acres Renovation	-	500	-	-	-	500
Total - Johnson City Schools	8,150	1,500	200	350	200	10,400
<b>Transportation</b>						
Downtown Streetscape Improvements	800	-	-	300	300	1,400
I-26/Boones Creek Interchange	-	-	1,000	-	-	1,000
Innovation Park	-	-	3,000	-	-	3,000
Knob Creek Road/Bridge - SOF to Stone Ridge SD	-	500	-	1,360	3,880	5,740
Roadway Enhancements	-	-	-	300	-	300
VA Access Road - Market Street to VA	450	-	-	-	-	450
Total - Transportation	1,250	500	4,000	1,960	4,180	11,890
<b>Total - General Obligation Bond Issue</b>	<b>9,800</b>	<b>2,650</b>	<b>9,156</b>	<b>18,860</b>	<b>18,430</b>	<b>58,896</b>

**SUMMARY OF PROPOSED IMPROVEMENTS BY FUNDING SOURCE**  
(000's)

PROJECTS	PROPOSED FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL 5 YEARS 2017-2021
<b>GENERAL OBLIGATION BOND PROCEEDS</b>						
<b>General Facilities</b>						
Freedom Hall Improvements	4,375	-	-	-	-	4,375
<b>Total - General Obligation Proceeds</b>	<b>4,375</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,375</b>
<b>OTHER</b>						
<b>Equipment</b>						
Information Technology (Enterprise Funds)	114	114	114	114	114	570
Police Department - Detention Facility Camera System (Technology Fund)	25	-	-	-	-	25
Police Department Vehicles (Drug Fund)	73	73	73	73	73	365
Police Department Vehicles - Lights/cameras, etc. (Technology Fund)	75	75	75	75	75	375
Student Transportation (vehicle sales)	95	96	100	100	100	491
Total - Equipment	382	358	362	362	362	1,826
<b>Parks and Recreation</b>						
Winged Deer Park Pavilion (Private Donations)	-	50	-	-	-	50
<b>Schools</b>						
Lake Ridge Renovation and Improvements (Wash. Co. Bond Issue)	-	1,800	200	-	-	2,000
Liberty Bell Middle School - Cafeteria and Gymnasium (Wash. Co. Bond Issue)	-	-	480	7,520	-	8,000
North Side Renovation (Wash. Co. Bond Issue)	-	950	-	-	-	950
Science Hill Renovation (State Grants)	200	-	-	-	-	200
Woodland School Addition (Wash. Co. Bond Issue)	-	-	-	2,000	-	2,000
Total - Schools	200	2,750	680	9,520	-	13,150
<b>Transportation</b>						
VA Access Road - Market Street to VA (grant)	750	-	-	-	-	750
<b>Total - Other</b>	<b>1,332</b>	<b>3,158</b>	<b>1,042</b>	<b>9,882</b>	<b>362</b>	<b>15,776</b>

**SUMMARY OF PROPOSED IMPROVEMENTS BY FUNDING SOURCE**  
(000's)

PROJECTS	PROPOSED FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL 5 YEARS 2017-2021
<b>PEP BOND ISSUE</b>						
<b>Johnson City Schools</b>						
School Facilities - Roof Replacement	810	1,000	-	-	-	1,810
<b>Total - PEP Bond Issue</b>	<b>810</b>	<b>1,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1,810</b>
<b>SOLID WASTE FUND</b>						
<b>Equipment</b>						
Municipal Solid Waste Equipment	1,494	2,329	177	178	206	4,384
Regional Solid Waste Equipment	-	-	288	-	-	288
<b>Total - Equipment</b>	<b>1,494</b>	<b>2,329</b>	<b>465</b>	<b>178</b>	<b>206</b>	<b>4,672</b>
<b>General Facilities</b>						
Facility Improvements	200	-	200	-	-	400
<b>Total Solid Waste Fund</b>	<b>1,694</b>	<b>2,329</b>	<b>665</b>	<b>178</b>	<b>206</b>	<b>5,072</b>
<b>STATE OF TENNESSEE</b>						
<b>Equipment</b>						
Mass Transit Equipment	5	63	68	69	70	275
<b>Transportation</b>						
I-26/Boones Creek Interchange	-	-	12,500	-	-	12,500
Lark Street Extension	1,700	-	-	-	-	1,700
Traffic Signal Installation	300	300	300	-	1,300	2,200
<b>Total - Transportation</b>	<b>2,000</b>	<b>300</b>	<b>12,800</b>	<b>-</b>	<b>1,300</b>	<b>16,400</b>
<b>Total - State of Tennessee</b>	<b>2,005</b>	<b>363</b>	<b>12,868</b>	<b>69</b>	<b>1,370</b>	<b>16,675</b>

**SUMMARY OF PROPOSED IMPROVEMENTS BY FUNDING SOURCE**  
(000's)

PROJECTS	PROPOSED FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL 5 YEARS 2017-2021
<b>STORM WATER FUND</b>						
<b>General Facilities</b>						
Storm Water Improvements	550	450	450	450	450	2,350
<b>Total - Storm Water Fund</b>	<b>550</b>	<b>450</b>	<b>450</b>	<b>450</b>	<b>450</b>	<b>2,350</b>
<b>WASHINGTON COUNTY</b>						
<b>Transportation</b>						
Total - Transportation	-	500	-	1,360	-	1,860
<b>Total - Washington County</b>	<b>-</b>	<b>500</b>	<b>-</b>	<b>1,360</b>	<b>-</b>	<b>1,860</b>
<b>WATER/SEWER FUND (Rate-funded Capital)</b>						
<b>Equipment</b>						
Water/Sewer Equipment	750	750	750	750	750	3,750
<b>Projects</b>						
Annexation Services	100	100	100	100	100	500
Architectural Improvements/Equip Replacement @ W/S Facilities	-	100	-	-	-	100
City Water Main Rehabilitation	300	300	300	300	300	1,500
Emergency Preparedness	75	75	75	75	75	375
Equipment Replacement at Water/Sewer Facilities	100	100	100	100	100	500
Galvanized Waterline Replacement	650	650	650	650	650	3,250
Pump Station Equipment Replacement and Rehabilitation	75	75	75	-	-	225
Sewer Line Rehabilitation and Replacement	900	1,000	1,100	1,200	1,300	5,500
Tank Maintenance	500	500	500	500	500	2,500
Technology Plan - Advanced Metering Infrastructure	-	-	-	-	4,000	4,000
Technology Plan - Work Order System	1,800	1,200	900	500	600	5,000
Unicoi Spring Collection System Rehabilitation	-	50	250	-	-	300
Unicoi Water Treatment Plant - PLC Replacement	100	-	-	-	-	100
Utility Road Relocations for Water Projects	250	250	250	250	250	1,250
Wastewater Treatment Plants - Clarifier Rehabilitation	200	-	200	-	-	400
Watauga Water Treatment Plant Flocculator Replacement	110	110	-	-	-	220
Total - Projects	5,160	4,510	4,500	3,675	7,875	25,720
<b>Total - Water/Sewer Fund (Rate-Funded Capital)</b>	<b>5,910</b>	<b>5,260</b>	<b>5,250</b>	<b>4,425</b>	<b>8,625</b>	<b>29,470</b>

**SUMMARY OF PROPOSED IMPROVEMENTS BY FUNDING SOURCE**  
(000's)

PROJECTS	PROPOSED FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL 5 YEARS 2017-2021
<b>WATER/SEWER BOND ISSUE</b>						
<b>Projects</b>						
Brush Creek Wastewater Treatment Plant - SCADA Improvements	-	-	2,000	2,000	2,000	6,000
Knob Creek Interceptor Improvements	-	-	500	4,000	4,000	8,500
Knob Creek Boat Dock Road Pump Station and Force Main	-	500	1,000	-	-	1,500
Knob Creek to Brush Creek Force Main	-	-	250	2,000	2,000	4,250
Knob Creek to Brush Creek Sewer Lift Station	-	250	2,000	2,000	-	4,250
Lower Brush Creek Interceptor Replacement	9,500	9,500	-	-	-	19,000
Redundant Raw Water Line	-	-	500	1,500	-	2,000
Regional Capacity Improvements (Phase III - B Station Force Main)	-	-	1,800	-	-	1,800
Sinking Creek Lift Station Repairs and Upgrades	-	750	750	-	-	1,500
Warehouse Renovations at Water Service	200	2,800	2,000	-	-	5,000
Water Storage Tank (New)	-	-	500	1,500	-	2,000
<b>Total Water/Sewer Bond Issue</b>	<b>9,700</b>	<b>13,800</b>	<b>11,300</b>	<b>13,000</b>	<b>8,000</b>	<b>55,800</b>
<b>WATER/SEWER BOND PROCEEDS</b>						
<b>Projects</b>						
Brush Creek Wastewater Treatment Plant Improvements	3,500	3,500	-	-	-	7,000
Knob Creek Wastewater Treatment Plant Improvements	2,100	2,100	-	-	-	4,200
Regional Capacity Improvements (Phase III - B Station Force Main)	250	1,950	-	-	-	2,200
Tannery Knob Replacement	1,800	1,700	-	-	-	3,500
Upper King Creek Interceptor	900	-	-	-	-	900
Watauga Disinfection Change	1,100	-	-	-	-	1,100
<b>Total Water/Sewer Bond Proceeds</b>	<b>9,650</b>	<b>9,250</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>18,900</b>
<b>Total - Water/Sewer Capital (rate-funded and bond-funded)</b>	<b>25,260</b>	<b>28,310</b>	<b>16,550</b>	<b>17,425</b>	<b>16,625</b>	<b>104,170</b>
<b>GRAND TOTAL - CIP 2017-2021</b>	<b>56,728</b>	<b>52,201</b>	<b>48,793</b>	<b>61,985</b>	<b>47,015</b>	<b>266,722</b>



**EQUIPMENT**

**SUMMARY OF PROPOSED IMPROVEMENTS  
(000's)**

<b>EQUIPMENT</b>	<b>PROJECTED FY 2016</b>	<b>PROPOSED FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>TOTAL 5 YEARS 2017-2021</b>
Fire Department Equipment Replacement	565	550	485	670	843	1,263	3,811
Fleet Management Equipment/Vehicle Replacement	960	189	487	2,929	90	32	3,727
Golf Course Equipment Replacement - Buffalo Valley	-	46	47	45	27	50	215
Golf Course Equipment Replacement - Pine Oaks	-	39	47	41	33	42	202
Information Technology Systems - Upgrade/Replacement	380	380	380	380	380	380	1,900
Johnson City Public Library	-	33	30	100	30	30	223
Parks & Recreation Equipment Replacement	113	92	105	67	22	22	308
Police Department Detention Facility Camera System	-	25	-	-	-	-	25
Police Department Vehicle Replacement	482	726	673	673	673	673	3,418
Public Works Equipment Replacement	647	790	677	751	775	728	3,721
Senior Services Equipment Replacement	-	25	-	-	-	-	25
Solid Waste Equipment Replacement	759	1,494	2,329	465	178	206	4,672
Transit Equipment Replacement/Purchase - Mass	2,185	60	740	800	810	830	3,240
Transit Equipment Replacement/Purchase - School	120	579	551	579	579	579	2,867
Water/Sewer Equipment Replacement	637	750	750	750	750	750	3,750
<b>TOTAL</b>	<b>6,848</b>	<b>5,778</b>	<b>7,301</b>	<b>8,250</b>	<b>5,190</b>	<b>5,585</b>	<b>32,104</b>

**FUNDING SUMMARY  
(000's)**

	<b>PROJECTED FY 2016</b>	<b>PROPOSED FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>TOTAL 5 YEARS 2017-2021</b>
Federal	1,658	50	614	664	672	690	2,690
General Fund	2,866	2,697	2,787	2,635	2,759	2,557	13,435
General Obligation Bond Issue	-	400	400	3,306	400	950	5,456
Other	740	382	358	362	362	362	1,826
Solid Waste Fund	759	1,494	2,329	465	178	206	4,672
State of Tennessee	188	5	63	68	69	70	275
Water/Sewer Fund	637	750	750	750	750	750	3,750
<b>TOTAL</b>	<b>6,848</b>	<b>5,778</b>	<b>7,301</b>	<b>8,250</b>	<b>5,190</b>	<b>5,585</b>	<b>32,104</b>

PROJECT FIRE DEPARTMENT EQUIPMENT REPLACEMENT

PROGRAM Equipment RESPONSIBLE DEPARTMENT Fire Department

SUMMARY

FY 2017 - One sedan for Training Captain (\$25,000)  
 One 2002 Pierce Contender Apparatus E-2. Replace with 2000 GPM Pumper (\$400,000)  
 One 2001 Ford 450 (Air Truck 7). Replace with Heavy Duty 4 x 4 Truck (\$50,000)  
 One 2006 Dodge 1500 (SCBA Tech.). Replace with 4 x 4 Truck (\$30,000)  
 One Set of Rescue Tools. Replace with comparable set (\$25,000)  
 Two Thermal Imaging Cameras (\$20,000)

FY 2018 - One 1998 Pierce Freightliner Apparatus E-9. Replace with 2000 GPM Pumper (\$400,000)  
 One 1997 Ford F-250 Brush Truck. Replace with Heavy Duty 4 x 4 Brush Truck (\$65,000)  
 Two Thermal Imaging Cameras (\$20,000)

FY 2019 - One 1998 Freightliner Apparatus E-8. Replace with 2000 GPM Pumper (\$400,000)  
 One Sets of Rescue Tools. Replace with comparable set (\$25,000)  
 One 2007 Dodge 1500 (Training). Replace with SUV 4 x 4 (\$30,000)  
 One 2008 Chevy Impala (Assistant Chief). Replace with sedan (\$30,000)  
 One 1991 Ford F-350 Bus (Rehab Unit). Replace with similar vehicle (\$55,000)  
 Replacement of two (2) 6000 PSI Breathing Air Compressors (\$85,000)  
 One 2006/2007 Dodge 1500 Trucks (Fire Prevention). Replace with Sedan (\$25,000)  
 Two Thermal Imaging Cameras (\$20,000)

FY 2020 - One 2002 Pierce Contender Apparatus E-7. Replace with 2000 GPM Pumper (\$400,000)  
 One Sets of Rescue Tools. Replace with comparable set (\$25,000)  
 One Chevy Van (Training). Replace with similar vehicle (\$35,000)  
 Replacement of one (1) 6000 PSI Breathing Air Compressor (\$45,000)  
 Two Sets of Rescue Tools. Replace with comparable set (\$55,000)  
 Thirty-five (35) 4500 PSI SCBA Bottles. Replace with comparable bottle (\$28,000)  
 Thirty-five (35) 4500 PSI SCBA Air Packs. Replace with comparable air pack (\$210,000)  
 One 2006/2007 Dodge 1500 Trucks (Fire Prevention). Replace with Sedan (\$25,000)  
 Two Thermal Imaging Cameras (\$20,000)

FY 2021 - One 1999 Pierce Quantum 105' Ladder Truck. Replace with similar vehicle (\$950,000)  
 One 2011 Chevy Impala (Assistant Chief). Replace with sedan (\$30,000)  
 Thirty-five (35) 4500 PSI SCBA Bottles. Replace with comparable bottle (\$28,000)  
 Thirty-five (35) 4500 PSI SCBA Air Packs. Replace with comparable air pack (\$210,000)  
 One 2006/2007 Dodge 1500 Trucks (Fire Prevention). Replace with Sedan (\$25,000)  
 Two Thermal Imaging Cameras (\$20,000)

In FY 2016, the following equipment is scheduled to be purchased: Thermal Imaging Cameras (3) - \$30,000; Heavy Duty 4 x 4 Truck - \$40,000; CAD Push System (Technology) - \$45,000; and one Fire Truck (\$450,000)

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				
			FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
<b>EXPENDITURE ALLOCATION</b>							
Operations Equipment	30	45	20	130	383	258	836
Engines/Pumpers/Platforms	450	400	400	400	400	950	2,550
Vehicles	40	105	65	140	60	55	425
Technology	45						
<b>TOTAL ALLOCATION</b>	<b>565</b>	<b>550</b>	<b>485</b>	<b>670</b>	<b>843</b>	<b>1,263</b>	<b>3,811</b>
<b>SOURCE OF FUNDS</b>							
General Fund	265	150	85	270	443	313	1,261
General Obligation Bond Issue		400	400	400	400	950	2,550
Other	300						
<b>TOTAL FUNDS</b>	<b>565</b>	<b>550</b>	<b>485</b>	<b>670</b>	<b>843</b>	<b>1,263</b>	<b>3,811</b>

PROJECT FLEET MANAGEMENT EQUIPMENT

PROGRAM Equipment RESPONSIBLE DEPARTMENT Fleet Management

SUMMARY The following vehicles and equipment are proposed for replacement during the next five years.

Fleet:

FY 2017 - Replace 1993 1/2 ton 4wd pick-up truck with air compressor and easy start booster pack (\$36,000)

Replace 1996 3/4 ton 4wd pick-up truck with 1/2 ton 4wd pick-up truck (\$28,000)

FY 2018 - Replace two 2006 mid-size pool cars with two mid-size hybrid cars (\$62,000)

FY 2019 - Replace 2006 2wd compact pick-up truck with a 1/2 ton 2wd pick-up truck (\$23,000)

FY 2020 - Replace 2008 1 ton 2wd service truck with a 1 1/2 ton 2wd service truck (\$90,000)

FY 2021 - Replace 2008 Toyota Prius Hybrid with the same (\$32,000)

Projects:

FY 2017 - Replace Generator on Buffalo Mountain at the Communications Tower (\$125,000)

FY 2018 - Replace three (3) underground storage tanks and piping at city services complex (\$425,000)

FY 2019 - 160 Public Safety Mobiles (\$560,000)

254 Public Safety Portables (\$1,016,000)

220 City Service Mobiles (\$770,000)

198 City Service Portables (\$545,000)

3 Motorcycles (\$15,000) \*\*Motorola guarantees support and parts to current radio until 12/31/2019

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Fleet	35	64	62	23	90	32	271
Projects	925	125	425	2,906			3,456
<b>TOTAL ALLOCATION</b>	<b>960</b>	<b>189</b>	<b>487</b>	<b>2,929</b>	<b>90</b>	<b>32</b>	<b>3,727</b>
<b>SOURCE OF FUNDS</b>							
General Fund	960	189	487	23	90	32	821
General Obligation Bond Issue				2,906			2,906
<b>TOTAL FUNDS</b>	<b>960</b>	<b>189</b>	<b>487</b>	<b>2,929</b>	<b>90</b>	<b>32</b>	<b>3,727</b>

PROJECT GOLF COURSE EQUIPMENT REPLACEMENT - BUFFALO VALLEY

PROGRAM Equipment RESPONSIBLE DEPARTMENT Parks and Recreatic

SUMMARY

FY 2017 - Zero turn rotary mower (replaces 2011 model) \$9,000  
 Blower (replaces 1993 model) \$7,000  
 Triplex mower (replaces 2008 model) \$27,000  
 Sod cutter (1/2 cost shared with Pine Oaks Golf Course) \$3,000

FY 2018 - Heavy duty utility vehicle (replaces 1997 model) \$18,000  
 4 x 4 3/4 ton pick-up truck (replaces 1993 model) \$29,000

FY 2019 - Self-contained sprayer (replaces 1993 model) \$20,000  
 All-terrain mower (replaces 1996 model) \$25,000

FY 2020 - Topdresser (1/2 cost shared with Pine Oaks Golf Course) \$3,000  
 Utility vehicle (replaces 1996 model) \$8,000  
 Core harvester (1/2 cost shared with Pine Oaks Golf Course) \$3,000  
 Bunker Rake (replaces 2009 model) \$13,000

FY 2021 - Utility vehicle (replaces 1993 model) \$8,000  
 Self-contained fairway mower (replaces 2009 model) \$42,000

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				
			FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
EXPENDITURE ALLOCATION							
Equipment Replacement		46	47	45	27	50	215
TOTAL ALLOCATION		46	47	45	27	50	215
SOURCE OF FUNDS							
General Fund		46	47	45	27	50	215
TOTAL FUNDS		46	47	45	27	50	215

PROJECT GOLF COURSE EQUIPMENT REPLACEMENT - PINE OAKS

PROGRAM Equipment RESPONSIBLE DEPARTMENT Parks and Recreation

SUMMARY

FY 2017 - Self-contained sprayer (replaces 1997 model) \$20,000  
 Blower (replacement) \$7,000  
 Zero turn rotary mower \$9,000  
 Sod Cutter (1/2 of the cost shared with Buffalo Valley Golf Course) \$3,000

FY 2018 - Heavy Duty Utility Vehicle (replaces 1995 model) \$18,000  
 4 x 4 3/4 ton pick-up truck (replaces 1993 model) \$29,000

FY 2019 - All-terrain mower (replaces 1998 model) \$25,000  
 Two (2) utility vehicles (replaces 1996 models) \$16,000

FY 2020 - Topdresser (1/2 cost shared with Buffalo Valley Golf Course; replaces 1995 model) \$3,000  
 Core harvester (1/2 cost shared with Buffalo Valley Golf Course) \$3,000  
 Triplex Mower (replaces 2008 model) \$27,000

FY 2021 - Self-contained fairway mower (replaces 2000 model) \$42,000

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Equipment		39	47	41	33	42	202
<b>TOTAL ALLOCATION</b>		39	47	41	33	42	202
<b>SOURCE OF FUNDS</b>							
General Fund		39	47	41	33	42	202
<b>TOTAL FUNDS</b>		39	47	41	33	42	202

PROJECT INFORMATION TECHNOLOGY

PROGRAM Equipment

RESPONSIBLE DEPARTMENT

Information Technology

SUMMARY The following IT systems are proposed for upgrade or replacement:

Server Systems

FY 2016 - Replace VEEAM Server and Battery Back-up System (\$90,000)  
FY 2017 - Replace/Upgrade Cmanager, UNITY, Publisher, Network Switches, Servers 3 years old, UPS, and Back-up (\$110,000)  
FY 2018 - Replace/Upgrade Cmanager, UNITY, Publisher, Network Switches, Servers 3 years old, UPS, and Back-up (\$110,000)  
FY 2019 - Replace/Upgrade Cmanager, UNITY, Publisher, Network Switches, Servers 3 years old, UPS, and Back-up (\$110,000)  
FY 2020 - Replace/Upgrade Cmanager, UNITY, Publisher, Network Switches, Servers 3 years old, UPS, and Back-up (\$110,000)  
FY 2021 - Replace/Upgrade Cmanager, UNITY, Publisher, Network Switches, Servers 3 years old, UPS, and Back-up (\$110,000)

Network Systems

FY 2016 - Replace Exchange Server (email), Replace 10 Routers, Firewall appliances (\$75,000)  
FY 2017 - Upgrade or replace Servers/SAN/Blade Center, Routers, Firewall, Wireless Controller - per replacement schedule (\$75,000)  
FY 2018 - Upgrade or replace Servers/SAN/Blade Center, Routers, Firewall, Wireless Controller - per replacement schedule (\$75,000)  
FY 2019 - Upgrade or replace Servers/SAN/Blade Center, Routers, Firewall, Wireless Controller - per replacement schedule (\$75,000)  
FY 2020 - Upgrade or replace Servers/SAN/Blade Center, Routers, Firewall, Wireless Controller - per replacement schedule (\$75,000)  
FY 2021 - Upgrade or replace Servers/SAN/Blade Center, Routers, Firewall, Wireless Controller - per replacement schedule (\$75,000)

Software Systems

FY 2016 - Upgrade all applicable network software - per replacement schedule (\$100,000)  
FY 2017 - Upgrade all applicable network software - per replacement schedule (\$100,000)  
FY 2018 - Upgrade all applicable network software - per replacement schedule; email archival (\$100,000)  
FY 2019 - Upgrade all applicable network software - per replacement schedule (\$100,000)  
FY 2020 - Upgrade all applicable network software - per replacement schedule (\$100,000)  
FY 2021 - Upgrade all applicable network software - per replacement schedule (\$100,000)

Personal Computers/Printers

FY 2016 - VD's, desktops, & 2 Tally printers (\$60,000)  
FY 2017 - VD's, desktops/notebooks/printers (\$70,000)  
FY 2018 - VD's, desktops/notebooks/printers (\$70,000)  
FY 2019 - VD's, desktops/notebooks/printers (\$70,000)  
FY 2020 - VD's, desktops/notebooks/printers (\$70,000)  
FY 2021 - VD's, desktops/notebooks/printers (\$70,000)

Communication Systems

FY 2016 - Web Upgrade, TV Studio (\$30,000)

Support Systems

FY 2016 - Replace 1996 Green Van (\$25,000)  
FY 2017 - Replace Large Format Printers/Plotters (\$25,000)  
FY 2018 - Replace Large Format Printers/Plotters (\$25,000)  
FY 2019 - Replace Large Format Printers/Plotters (\$25,000)  
FY 2020 - Replace Large Format Printers/Plotters (\$25,000)  
FY 2021 - Replace Large Format Printers/Plotters (\$25,000)

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				
			FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
<b>EXPENDITURE ALLOCATION</b>							
Server Systems	90	110	110	110	110	110	550
Network Systems	75	75	75	75	75	75	375
Software Systems	100	100	100	100	100	100	500
Personal Computers	60	70	70	70	70	70	350
Communication Systems	30						
Support Systems	25	25	25	25	25	25	125
<b>TOTAL ALLOCATION</b>	<b>380</b>	<b>380</b>	<b>380</b>	<b>380</b>	<b>380</b>	<b>380</b>	<b>1,900</b>
<b>SOURCE OF FUNDS</b>							
General Fund	266	266	266	266	266	266	1,330
Enterprise Funds	114	114	114	114	114	114	570
<b>TOTAL FUNDS</b>	<b>380</b>	<b>380</b>	<b>380</b>	<b>380</b>	<b>380</b>	<b>380</b>	<b>1,900</b>

PROJECT JOHNSON CITY PUBLIC LIBRARY - RFID CONVERSION

PROGRAM Equipment RESPONSIBLE DEPARTMENT Johnson City Public Library

**SUMMARY** The library's book and materials security infrastructure is aging and is in need of replacement. Library security is currently based on the placement of an electromagnetic security strip in each item that must be de-magnetized upon check-out in order to allow the item to pass through the security gates and subsequently magnetized upon return. The security gates are aging to the extent that the circuit board was replaced four years ago with a refurbished circuit board. As the library continues to check-out more materials each year, the RFID conversion project is becoming a necessity for maximum security on library materials.

The library proposes to replace this aging equipment with the next generation technology. RFID (radio frequency identifier) is a significant upgrade from the current electromagnetic infrastructure. Each book will be tagged with a small RFID chip. Each chip is static, but will respond to a frequency when scanned that indicates whether or not the book has been checked out. The steps to magnetize and de-magnetize items are entirely removed from the check-out process, thus eliminating time intensive and repetitive stress risks for JCPL staff members.

Benefits of the RFID implementation goes beyond security. A return on investment will be realized due to labor savings associated with circulating materials. Self-check stations are most reliable when used with RFID. Checking books back in would be automated and result in significant labor savings. With steadily increasing library usage, this technology would give the library the ability to grow and handle larger volumes of business. In sum, an investment in RFID replaces an outdated and inferior security system and positions the library for future growth without requiring additional personnel funding.

The project is proposed to be implemented in a multi-year phased approach according to the following timeline:

FY 2017 - Purchase approximately 152,000 RFID tags and three work stations to convert the existing library collection to RFID ready. (\$33,000)

FY 2018 - Install new security gates, two additional staff work stations, and a self-check kiosk for the media center. (\$30,000)

FY 2019 - Install an automatic check-in station and 3-bin sorting device. (\$100,000)

FY 2020 - Install the final three self-check stations. (\$30,000)

FY 2021 - Purchase a handheld inventory device, enhanced system software, and add two more sorting bins for a five-bin sorting system. (\$30,000)

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
RFID System		33	30	100	30	30	223
<b>TOTAL ALLOCATION</b>		33	30	100	30	30	223
<b>SOURCE OF FUNDS</b>							
General Fund		33	30	100	30	30	223
<b>TOTAL FUNDS</b>		33	30	100	30	30	223

PROJECT PARKS AND RECREATION EQUIPMENT REPLACEMENT

PROGRAM Equipment RESPONSIBLE DEPARTMENT Parks and Recreation

SUMMARY Vehicles and equipment to be replaced or purchased in the next five years are outlined on the attachment.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Equipment	113	92	105	67	22	22	308
<b>TOTAL ALLOCATION</b>	113	92	105	67	22	22	308
<b>SOURCE OF FUNDS</b>							
General Fund	113	92	105	67	22	22	308
<b>TOTAL FUNDS</b>	113	92	105	67	22	22	308

Parks & Recreation  
Equipment Replacement

<b>FY 2016</b>	New	Spreader	25,000
	2005	72" 29 hp Zero Turn Mowers (2)	18,000
	1997	5 Gang "Wide Area" Mower	50,000
	1995	1/2 Ton Pick-up Truck	<u>20,000</u>
			<b>Total</b>
<b>FY 2017</b>	New	Sprayer	25,000
	1984	55 hp Tractor with Flail Mower	25,000
	1998	3/4 Ton Pick-up Truck	24,000
	2007	72" 29hp Zero Turn Mowers (2)	<u>18,000</u>
			<b>Total</b>
<b>FY 2018</b>	1998	3/4 Ton Pick-up Truck	24,000
	2007	72" 29hp Zero Turn Mowers (2)	18,000
	1996	Compact Pick-up Truck	13,000
	New	2 Ton Landscape Dump Truck	<u>50,000</u>
			<b>Total</b>
<b>FY 2019</b>	1997	Skid Loader	32,000
	1998	1/2 Ton Pick-up Truck	22,000
	1996	Compact Pick-up Truck	<u>13,000</u>
			<b>Total</b>
<b>FY 2020</b>	New	1/2 Ton Pick-up Truck	<b>22,000</b>
<b>FY 2021</b>	New	1/2 Ton Pick-up Truck	<b>22,000</b>

PROJECT POLICE DEPARTMENT - DETENTION FACILITY CAMERA SYSTEM

PROGRAM Equipment RESPONSIBLE DEPARTMENT Police

SUMMARY Cameras/DVR's in the detention facility are in need of replacement. The cost of this project is estimated at \$25,000 and will be funded through the Technology Fund. This upgrade is a result of a federal law (PREA) Prisoner's Rape Elimination Act, which goes into effect at the end of calendar year 2016.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Cameras/DVR's		25					25
TOTAL ALLOCATION		25					25
SOURCE OF FUNDS							
Technology Fund		25					25
TOTAL FUNDS		25					25

PROJECT POLICE DEPARTMENT VEHICLE REPLACEMENT

PROGRAM Equipment RESPONSIBLE DEPARTMENT Police

**SUMMARY** The following vehicles are proposed for replacement within the next five years. The Department requests the purchase of fifteen (15) police pursuit vehicles at a cost of \$35,000 per unit on an annual basis. This includes outfitting the vehicle with all equipment except a car camera. The unit cost for a camera is \$5,000, which is funded through the Police Technology Fund. In addition, the Department requests four (4) police motorcycles (\$13,250 each) at a total cost of \$53,000 (including trade-in value), which is funded with General Fund dollars. In addition, the Department requests: 1 unmarked sedan at a cost of \$26,000, one (1) SUV at a cost of \$32,000, and one (1) police canine at a cost of \$15,000, which is funded through the Drug Fund.

In FY 2016, the following equipment is approved to be purchased: Ten (10) Ford Taurus Police Pursuit Vehicles - General Fund (\$322,000); Equipment for the ten police pursuit vehicles - Police Technology Fund (\$50,000); two (2) Ford SUV AWD Vehicles (\$72,000), one (1) Bomb Suit (\$24,000); and one (1) Canine (\$14,000) - Drug Fund.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Police Vehicles	444	658	658	658	658	658	3,290
Police Motorcycles		53					53
Other Equipment/Canine	38	15	15	15	15	15	75
<b>TOTAL ALLOCATION</b>	<b>482</b>	<b>726</b>	<b>673</b>	<b>673</b>	<b>673</b>	<b>673</b>	<b>3,418</b>
<b>SOURCE OF FUNDS</b>							
General Fund	322	578	525	525	525	525	2,678
Drug Fund	110	73	73	73	73	73	365
Technology Fund	50	75	75	75	75	75	375
<b>TOTAL FUNDS</b>	<b>482</b>	<b>726</b>	<b>673</b>	<b>673</b>	<b>673</b>	<b>673</b>	<b>3,418</b>

PROJECT PUBLIC WORKS EQUIPMENT REPLACEMENT

PROGRAM Equipment

RESPONSIBLE DEPARTMENT

Public Works

**SUMMARY** The proposed equipment replacement is shown on the attachment. The total replacement value of the Public Works general fund equipment is estimated at \$13.5 million. Assuming average depreciation life of 15 years, an annual budget allocation of \$750,000 (average) present value would be needed to keep the fleet in good condition.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Equipment	647	790	677	751	775	728	3,721
<b>TOTAL ALLOCATION</b>	647	790	677	751	775	728	3,721
<b>SOURCE OF FUNDS</b>							
General Fund	647	790	677	751	775	728	3,721
<b>TOTAL FUNDS</b>	647	790	677	751	775	728	3,721

PUBLIC WORKS  
EQUIPMENT REPLACEMENT - GENERAL FUND

FY 2016	Street Sweeper - replaces 1995	275,000
	Pothole Patcher (new/asphalt)	175,000
	Mower	52,000
	Tandem axle dump truck - replaces 1993	<u>145,000</u>
	<b>Total</b>	<b>647,000</b>
FY 2017	Bucket Truck - replaces 1998 (landscaping)	150,000
	Utility truck - replaces 1993 (construction)	46,000
	Street Sweeper - replaces 1995	281,000
	Skid Steer - replaces 1993 (asphalt)	49,000
	Pick-up truck - replacement (administration)	32,000
	Dump truck - replaces 2000 (concrete)	125,000
	Pick-up truck - replaces 1998 (concrete)	32,000
	Pick-up truck - 4 x 4 3/4 ton - replaces 1997 (facilities)	25,000
	Pick-up truck - replaces 1998 (traffic)	25,000
	Jeep - replacement (engineering)	<u>25,000</u>
	<b>Total</b>	<b>790,000</b>
FY 2018	Pick-up truck - replaces 1996 (concrete)	33,000
	Excavator with trailer (concrete)	43,000
	Street Sweeper - replaces 1995	286,000
	1-ton Utility truck (asphalt)	46,000
	Pick-up truck - replacement (construction)	33,000
	Pick-up truck - replacement (construction)	33,000
	Utility truck - replacement (concrete)	48,000
	Wheel Loader - replacement (construction)	<u>155,000</u>
	<b>Total</b>	<b>677,000</b>
FY 2019	Mowing tractor - replacement	61,000
	Bobcat - replacement (asphalt)	49,000
	Track loader - replaces 1986 (construction)	259,000
	Gradall - replaces 1992 (concrete)	<u>382,000</u>
	<b>Total</b>	<b>751,000</b>
FY 2020	Motor grader - replacement (construction)	308,000
	Pick-up truck- replacement (asphalt)	29,000
	Dump truck - replacement (construction)	132,000
	Utility truck - replacement (landscaping)	48,000
	Full-size sedan - replacement (facilities)	19,000
	Pick-up truck - replacement (traffic)	26,000
	Economy Van - replacement (engineering)	23,000
	Pro-Patch - replacement (asphalt)	<u>190,000</u>
	<b>Total</b>	<b>775,000</b>

PUBLIC WORKS  
EQUIPMENT REPLACEMENT - GENERAL FUND

FY 2021

Tandem dump-truck - replacement (construction)	152,000
Trackhoe - replacement (construction)	156,000
Air compressor - replacement (asphalt)	23,000
Concrete paver - replacement (concrete)	262,000
Dump Truck - replacement (concrete)	<u>135,000</u>
<b>Total</b>	<b>728,000</b>

PROJECT SENIOR SERVICES EQUIPMENT REPLACEMENT

PROGRAM Equipment RESPONSIBLE DEPARTMENT Senior Services

SUMMARY Proposed purchase of an XLT Long wheelbase Passenger/Cargo Van to transport supplies for various events for the Senior Center, as well as to transport inmates for daily cleaning duties at MPCC.

The current van is a 1995 Ford Club Wagon, that was converted from a 15 passenger van, has extensive mileage (more than 150,000) and has had extensive repairs in order to remain in service.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Passenger/Cargo Van		25					25
TOTAL ALLOCATION		25					25
SOURCE OF FUNDS							
General Fund		25					25
TOTAL FUNDS		25					25

PROJECT SOLID WASTE EQUIPMENT REPLACEMENT - MUNICIPAL AND REGIONAL FUND

PROGRAM Equipment RESPONSIBLE DEPARTMENT Solid Waste

SUMMARY The proposed equipment is shown on the attachment. No debt service will be required for either fund to cover expenditures. All front line equipment remains within the life cycle cost structure.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Equipment	759	1,494	2,329	465	178	206	4,672
<b>TOTAL ALLOCATION</b>	<b>759</b>	<b>1,494</b>	<b>2,329</b>	<b>465</b>	<b>178</b>	<b>206</b>	<b>4,672</b>
<b>SOURCE OF FUNDS</b>							
Municipal Solid Waste Fund	234	1,494	2,329	177	178	206	4,384
Regional Solid Waste Fund	525			288			288
<b>TOTAL FUNDS</b>	<b>759</b>	<b>1,494</b>	<b>2,329</b>	<b>465</b>	<b>178</b>	<b>206</b>	<b>4,672</b>

SOLID WASTE EQUIPMENT REPLACEMENT  
MUNICIPAL SOLID WASTE FUND

<b>FY 2016</b>	Leaf Machine - 1995	28,000
	Roll-off Truck - 1999	155,000
	Flatbed Truck - 1993	<u>51,000</u>
	<b>Total</b>	<b>234,000</b>
<b>FY 2017</b>	Front loaders (3) - 2009	756,000
	Front loader (recycling) - 2008	252,000
	Roll-off Truck - 2003	158,000
	Transfer Trailer - 1988	88,000
	Recycling Truck (New)	<u>240,000</u>
	<b>Total</b>	<b>1,494,000</b>
<b>FY 2018</b>	Automated trucks (5) - 2009	1,400,000
	Roll-off truck - 2004	163,000
	Bobcat Skid-Steer Loader - 2008	36,000
	Leaf Machine - 1994	30,000
	Curbside recyclers (3) - 2009	<u>700,000</u>
	<b>Total</b>	<b>2,329,000</b>
<b>FY 2019</b>	Rubber Tire Loader	150,000
	Fork Truck (lift) - 2000	<u>27,000</u>
	<b>Total</b>	<b>177,000</b>
<b>FY 2020</b>	Rearloader - 2009	146,000
	Leaf Machine - 1995	<u>32,000</u>
	<b>Total</b>	<b>178,000</b>
<b>FY 2021</b>	Ford Escape - 2011	38,000
	Rearloader (20 yd) - 2011	<u>168,000</u>
	<b>Total</b>	<b>206,000</b>

SOLID WASTE EQUIPMENT REPLACEMENT  
REGIONAL SOLID WASTE FUND

<b>FY 2016</b>	Pick-up Dodge - 2006	27,000
	Front Loaders (2) - 2002/2004	<u>498,000</u>
	<b>Total</b>	<b>525,000</b>
<b>FY 2017</b>	NONE	
<b>FY 2018</b>	NONE	
<b>FY 2019</b>	Automated truck - 2009	288,000
<b>FY 2020</b>	None	
<b>FY 2021</b>	None	

PROJECT TRANSIT EQUIPMENT REPLACEMENT - MASS TRANSIT

PROGRAM Equipment RESPONSIBLE DEPARTMENT Transit

SUMMARY FY 2017 - Replace one (1) 2009 paratransit vehicle  
 FY 2018 - Replace two (2) 2010 Arboc low floor buses (30 ft.)  
 Replace one (1) 2009 paratransit vehicle  
 FY 2019 - Replace two (2) 2010 Arboc low floor buses (30 ft.)  
 Replace two (2) 2010 paratransit vehicles  
 FY 2020 - Replace two (2) 2010 Arboc low floor buses (30 ft.)  
 Replace two (2) 2010 paratransit vehicles  
 FY 2021 - Replace two (2) 2010 Arboc low floor buses (30 ft.)

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Paratransit vehicles (<30 ft.)	175	60	60	120	130	150	520
Fixed route buses (approx. 30 ft.)	2,010		680	680	680	680	2,720
<b>TOTAL ALLOCATION</b>	<b>2,185</b>	<b>60</b>	<b>740</b>	<b>800</b>	<b>810</b>	<b>830</b>	<b>3,240</b>
<b>SOURCE OF FUNDS</b>							
Federal - FTA (83%)	1,658	50	614	664	672	690	2,690
State - TDOT (8.5%)	188	5	63	68	69	70	275
Local - City (8.5%)	188	5	63	68	69	70	275
Vehicle Equipment Sales	151						
<b>TOTAL FUNDS</b>	<b>2,185</b>	<b>60</b>	<b>740</b>	<b>800</b>	<b>810</b>	<b>830</b>	<b>3,240</b>

PROJECT TRANSIT EQUIPMENT REPLACEMENT - STUDENT TRANSPORTATION

PROGRAM Equipment RESPONSIBLE DEPARTMENT Transit

SUMMARY The following vehicles are proposed for replacement/expansion during the next five years:

- FY 2017 - Replace five (5) 2005 large school buses (78 passenger)  
 Replace two (2) 2006 small school buses  
 Replace two (2) 2009 small school buses
- FY 2018 - Replace four (4) 2006 large school buses (78 passenger)  
 Replace two (2) 2007 large school buses (78 passenger)
- FY 2019 - Replace five (5) 2007 large school buses (78 passenger)  
 Replace two (2) 2009 small school buses
- FY 2020 - Replace two (2) 2007 large school buses (78 passenger)  
 Replace three (3) 2008 large school buses (78 passenger)  
 Replace two (2) 2011 small school buses
- FY 2021 - Replace two (2) 2008 large school buses (78 passenger)  
 Replace three (3) 2009 large school buses (78 passenger)  
 Replace two (2) 2012 small school buses

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				
			FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
<b>EXPENDITURE ALLOCATION</b>							
Small School Buses	120	120		120	120	120	480
Large School Buses		459	551	459	459	459	2,387
<b>TOTAL ALLOCATION</b>	120	579	551	579	579	579	2,867
<b>SOURCE OF FUNDS</b>							
General Fund	105	484	455	479	479	479	2,376
Vehicle Equipment Sales	15	95	96	100	100	100	491
<b>TOTAL FUNDS</b>	120	579	551	579	579	579	2,867

PROJECT WATER/SEWER EQUIPMENT REPLACEMENT

PROGRAM Equipment RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY Replacement and additions to the fleet as necessary to provide adequate service. The specific equipment list to be replaced or added is determined annually.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Equipment	637	750	750	750	750	750	3,750
<b>TOTAL ALLOCATION</b>	637	750	750	750	750	750	3,750
<b>SOURCE OF FUNDS</b>							
Water/Sewer Fund	637	750	750	750	750	750	3,750
<b>TOTAL FUNDS</b>	637	750	750	750	750	750	3,750

**WATER/SEWER FLEET / EQUIPMENT REPLACEMENT 2017-2021**

<b>2016</b>		Hewlett Packard postscript ePrinter	8,000
		Crossover Vehicle	26,000
		Compact Ext Cab 4WD pick-up	25,000
		Compact pick-up truck	22,000
		Full-size extended cap 4WD pick-up	28,000
	2	1/2 ton 2WD pick-up trucks	44,000
	2	Service Trucks	150,000
	2	Single axle dump trucks	160,000
		Equipment Float	10,000
		Line locating equipment	9,000
		Crew cab service truck	70,000
		Sewer push cameras	20,000
		Salt spreader and blade	7,000
		Shoring equipment	10,000
		Large hole hog	7,000
		Compact 4WD pick-up truck	22,000
		Samplers	12,000
	Labware stem scrubber	7,000	
		<b>Total</b>	<b>637,000</b>
<b>2017</b>	3	4-door Sedans	60,000
		Mid-Size Van	20,000
	2	Compact Pick-up Trucks	38,000
	3	Full-Size Ext Cab 2WD Pick-up Trucks	65,000
	4	Full-Size Ext Cab 4WD Pick-up Trucks	100,000
	3	1-Ton Service Trucks	96,000
	2	Backhoes	120,000
		Jet Buggy	100,000
		Single-Axle Dump Truck	75,000
		Genset	76,000
		<b>Total</b>	<b>750,000</b>
<b>2018</b>	2	2-ton Service Trucks	120,000
	2	Backhoes	100,000
	3	Compact, Extended Cab Pick-up Trucks	48,000
	2	Compact Pick-up Trucks	30,000
	2	Gensets	152,000
		Equipment Trailer	13,000
		Large Tapping Machine	40,000
		Full-size, 4WD Pick-up Truck	19,000
	2	Full-size, Extended Cab, 4WD Pick-up Trucks	40,000
		Off Road Easement Machine	63,000
		Sewer TV Truck	125,000
			<b>Total</b>

**WATER/SEWER FLEET / EQUIPMENT REPLACEMENT 2017-2021**

<b>2019</b>	Single Axle Dump Truck	80,000
	Steel Traffic Plates	50,000
	Ditch Boxes	50,000
	Small Excavator & Trailer	48,000
	2 Compact Pick-up Trucks	40,000
	3 Full-size, Extended Cab, 4WD Pick-up Trucks	75,000
	3 Full-size, Extended Cab, 2WD Pick-up Trucks	68,000
	2 Air Compressors	30,000
	Hoe Ram	90,000
	Remote Pump Station Site Fencing	80,000
	2 1-Ton Service Trucks	83,000
	2 Compact, 4WD Sport Utility Vehicles	56,000
	<b>Total</b>	<b>750,000</b>

<b>2020</b>	2 Dump Trailers	65,000
	Locating Equipment	40,000
	Surveying Equipment	40,000
	2 Compact 4WD SUV	77,000
	2-Ton Service Truck	85,000
	2 1-Ton Service Truck	150,000
	1 Genset	50,000
	2 Compact Pick-up Trucks	50,000
	3 Full-size, Extended Cab, 4WD, Pick-up Trucks	87,000
	3 Full-size, Extended Cab, 2WD, Pick-up Trucks	81,000
	AVL Equipment Replacement	25,000
	<b>Total</b>	<b>750,000</b>

<b>2021</b>	2-Ton Service Truck	60,000
	3 Backhoes	150,000
	Compact Ext Cab 4WD Pick-up Truck	17,000
	3 Compact Ext Cab Pick-up Trucks	48,000
	3 Compact Pick-up Trucks	45,000
	Equipment Trailer	14,000
	Flat Bed Truck	45,000
	Full-size 4WD Pick-up Truck	19,000
	5 Full-size Ext Cab 4WD Pick-up Trucks	100,000
	Full-size Pick-up Truck	15,000
	Road Tractor	75,000
	Single Axle Dump Truck	70,000
	Tandem Axle Dump Truck	80,000
	Trailer	12,000
	<b>Total</b>	<b>750,000</b>



**GENERAL FACILITIES**

**SUMMARY OF PROPOSED IMPROVEMENTS**  
(000's)

<b>GENERAL FACILITIES</b>								
	PROJECTS	PROJECTED FY 2016	PROPOSED FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL 5 YEARS 2017-2021
Facility Improvements		200	650	75	200	150	100	1,175
Fire Department Facility Improvements		60	95	55	55	115	335	655
Freedom Hall Improvements		4,025	4,375	-	30	50	-	4,455
Johnson City Public Library Roof Replacement		-	-	-	213	-	-	213
Public Safety Facility		-	-	50	1,200	11,900	11,900	25,050
Storm Water Improvements		2,500	550	450	450	450	450	2,350
	<b>TOTAL</b>	<b>6,785</b>	<b>5,670</b>	<b>630</b>	<b>2,148</b>	<b>12,665</b>	<b>12,785</b>	<b>33,898</b>

**FUNDING SUMMARY**  
(000's)

		PROJECTED FY 2016	PROPOSED FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL 5 YEARS 2017-2021
General Fund		260	545	130	298	315	435	1,723
General Obligation Bond Issue		-	-	50	1,200	11,900	11,900	25,050
General Obligation Bond Proceeds		4,025	4,375	-	-	-	-	4,375
Solid Waste Fund		-	200	-	200	-	-	400
Storm Water Bond Proceeds		1,200	-	-	-	-	-	-
Storm Water Fund		1,300	550	450	450	450	450	2,350
	<b>TOTAL</b>	<b>6,785</b>	<b>5,670</b>	<b>630</b>	<b>2,148</b>	<b>12,665</b>	<b>12,785</b>	<b>33,898</b>

PROJECT FACILITY IMPROVEMENTS

PROGRAM Facilities

RESPONSIBLE DEPARTMENT Public Works

SUMMARY The attached list of facility improvements are needed as described. Only those facilities not within the responsibility of other departments, such as Freedom Hall, fire stations, etc., are included in this list.

PROJECT BUDGET (000's)	Projected FY 2015	Proposed FY 2016	Projected for Future Years				
			FY 2017	FY 2018	FY 2019	FY 2020	TOTAL
<b>EXPENDITURE ALLOCATION</b>							
Facility Improvements	200	650	75	200	150	100	1,175
<b>TOTAL ALLOCATION</b>	<b>200</b>	<b>650</b>	<b>75</b>	<b>200</b>	<b>150</b>	<b>100</b>	<b>1,175</b>
<b>SOURCE OF FUNDS</b>							
General Fund	200	450	75		150	100	775
Municipal Solid Waste Fund		200		200			400
<b>TOTAL FUNDS</b>	<b>200</b>	<b>650</b>	<b>75</b>	<b>200</b>	<b>150</b>	<b>100</b>	<b>1,175</b>

FACILITY IMPROVEMENTS

<b>2016</b>	Re-roof Penny's building	<b>200,000</b>
<b>2017</b>	Post Office Building (roof) General Fund	450,000
	Bolton Block Service Center (storage buildings) Solid Waste Fund	200,000
	<b>Total</b>	<b>650,000</b>
<b>2018</b>	Post Office Building (boilers) General Fund	<b>75,000</b>
<b>2019</b>	Bolton Block Recycling Center Solid Waste Fund	<b>200,000</b>
<b>2020</b>	Public Works Wash Bay General Fund	<b>150,000</b>
<b>2021</b>	Engineering Renovations General Fund	<b>100,000</b>

PROJECT FIRE DEPARTMENT FACILITY IMPROVEMENTS

PROGRAM General Facilities RESPONSIBLE DEPARTMENT Fire Department

SUMMARY FY 2017 - Repair retaining wall and parking lot at Fire Station #7 (\$40,000)  
 Repair and resurface parking lot at Fire Station #4 (\$30,000)  
 Repair and resurface concrete bay entrance at Fire Station #4 (\$25,000)

FY 2018 - General upgrade and renovation at Fire Station #4 (\$55,000)

FY 2019 - General upgrade and renovation at Fire Station #4 (\$55,000)

FY 2020 - Expand and resurface parking lot at Fire Station #5 (\$35,000)  
 General upgrade and renovation of Fire Station #5 (\$80,000)

FY 2021 - General upgrade and renovation of Fire Station #3 (\$275,000)  
 General upgrade and renovation of Fire Station #7 (\$60,000)

In FY 2016 - Installation of decontamination sinks at Fire Stations #4, #5, and #6 (\$60,000)

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Fire Station #3 Renovation						275	275
Fire Station #4 Parking Lot/Entrance Bay/Renovation		55	55	55			165
Fire Station #5 Parking Lot/Renovation					115		115
Fire Station #7 Parking Lot/Renovation		40				60	100
Decontamination Sinks	60						
<b>TOTAL ALLOCATION</b>	<b>60</b>	<b>95</b>	<b>55</b>	<b>55</b>	<b>115</b>	<b>335</b>	<b>655</b>
<b>SOURCE OF FUNDS</b>							
General Fund	60	95	55	55	115	335	655
<b>TOTAL FUNDS</b>	<b>60</b>	<b>95</b>	<b>55</b>	<b>55</b>	<b>115</b>	<b>335</b>	<b>655</b>

PROJECT FREEDOM HALL

PROGRAM General Facilities

RESPONSIBLE DEPARTMENT

Freedom Hall Civic Center

SUMMARY Constructed in 1974, Freedom Hall is over 40 years old and is in need of a number of major renovations and improvements. The proposed improvements are listed on the following page.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Facility Improvements	4,025	4,375		30	50		4,455
<b>TOTAL ALLOCATION</b>	<b>4,025</b>	<b>4,375</b>		<b>30</b>	<b>50</b>		<b>4,455</b>
<b>SOURCE OF FUNDS</b>							
General Fund				30	50		80
General Obligation Bond Proceeds	4,025	4,375					4,375
<b>TOTAL FUNDS</b>	<b>4,025</b>	<b>4,375</b>		<b>30</b>	<b>50</b>		<b>4,455</b>

Freedom Hall Civic Center Facility Improvements  
 CIP Summary FY 2017-2021  
 Projects are listed in priority order

Project	Funding Source	Projected	Proposed					TOTAL
		FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	
HVAC	General Obligation Bond Proceeds	3,500	3,200					3,200
Restroom Renovations	General Obligation Bond Proceeds	525						
Additional Restrooms	General Obligation Bond Proceeds		775					775
Parking lot G repair and resurface (backstage lot between rear of FHCC and tennis courts; from pool corner to circular driveway)	General Obligation Bond Proceeds		200					200
Wheelchair accessible seating	General Obligation Bond Proceeds		200					200
Flame retardant black vomitorium curtains	General Fund				30			30
Emergency Generator Replacement	General Fund					50		50
		4,025	4,375		30	50		4,455
	Funding Source							
General Fund					30	50		80
General Obligation Bond Proceeds		4,025	4,375					4,375
		4,025	4,375		30	50		4,455

**Freedom Hall Facility Improvements Beyond Five Year CIP**

The following projects are proposed to be funded with general obligation bonds:

Erosion correction and brick wall replacement	100
Parking lot repairs/resurfacing - lots B & C	150
Concessions Renovations	200
Arena ceiling fall protection cabling system	150
Exterior plaza brick/planter removal and concrete replacement	50
Hallways/concrete floors - grind, polish, and seal	50
Portable stage and security barricade purchase	30
Interior and exterior security cameras, monitoring screens, hardware, software	<u>40</u>
TOTAL	770

PROJECT JOHNSON CITY PUBLIC LIBRARY ROOF REPLACEMENT

PROGRAM Facilities

RESPONSIBLE DEPARTMENT

Johnson City Public

SUMMARY

The Library facility will be 20 years old in 2019. When the library was built in 1998/1999, the lifespan of the rubber membrane and ballasted roof was reported to be about 20 years. The recommendation of the Library is to adhere to this replacement schedule. Ruptures at flashings have occurred and the caulking compound has greatly deteriorated, causing a number of leaks over the past five years.

The scope of work will consist of removal and disposal of all old roofing material. The installation of new EPDM single ply rolls roofing with a minimum thickness of .045. The estimated size of the roof is approximately 17,700 square feet and the cost to replace is estimated at \$12 per square foot, resulting in an estimated cost of \$213,000.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Roof Replacement				213			213
TOTAL ALLOCATION				213			213
SOURCE OF FUNDS							
General Fund				213			213
TOTAL FUNDS				213			213

PROJECT PUBLIC SAFETY FACILITY

PROGRAM Facilities RESPONSIBLE DEPARTMENT Police/Fire

**SUMMARY** This proposed project includes the design and construction of a new public safety facility to be located on the old "Big Burley" site at the State of Franklin and Legion Street intersection. The facility would house the police department, fire department, including the relocation of Fire Station #3, and possibly Emergency Management. A joint training room, along with a weight room, is also proposed to be included. Design is proposed in FY 2019, with construction to begin in 2020. Funding for debt service would be provided by debt roll-off beginning in FY 2017. Total cost of the project is anticipated to be approximately \$25 million.

FY 2018- Consultant fee - preliminary design (\$50,000)

FY 2019 - Design (\$1,200,000)

FY 2020 - Construction (\$11,900,000)

FY 2021 - Construction (\$11,900,000)

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Consultant Fee - preliminary design			50				50
Design				1,200			1,200
Construction					11,900	11,900	23,800
<b>TOTAL ALLOCATION</b>			50	1,200	11,900	11,900	25,050
<b>SOURCE OF FUNDS</b>							
General Obligation Bond Issue			50	1,200	11,900	11,900	25,050
<b>TOTAL FUNDS</b>			50	1,200	11,900	11,900	25,050

PROJECT STORM WATER MANAGEMENT IMPROVEMENTS

PROGRAM Facilities

RESPONSIBLE DEPARTMENT Public Works

SUMMARY These projects are entirely funded by the storm water utility fee. The projects include those listed on the attachment and cover non-floodplain projects, bridge replacements, and major drainage basin master plans and flood remediation projects. All estimates are in present value dollars.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				
			FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
<b>EXPENDITURE ALLOCATION</b>							
Storm Water Improvements	2,500	550	450	450	450	450	2,350
<b>TOTAL ALLOCATION</b>	<b>2,500</b>	<b>550</b>	<b>450</b>	<b>450</b>	<b>450</b>	<b>450</b>	<b>2,350</b>
<b>SOURCE OF FUNDS</b>							
Storm Water Fund	1,300	550	450	450	450	450	2,350
Storm Water Bond Proceeds	1,200						
<b>TOTAL FUNDS</b>	<b>2,500</b>	<b>550</b>	<b>450</b>	<b>450</b>	<b>450</b>	<b>450</b>	<b>2,350</b>

**STORM WATER MANAGEMENT IMPROVEMENTS**

	<b>PROJECT</b>	<b>BUDGET</b>
<b>FY 2016</b>	Commerce Street	200,000
	Keystone Drainage	600,000
	Antioch Road Drainage	100,000
	Kelly Foods Detention Basin	300,000
	U-Haul Detention Basin	900,000
	Cobb Creek Floodway Restoration	100,000
	King Creek Property Purchase	<u>300,000</u>
	<b>TOTAL</b>	<b>2,500,000</b>
<b>FY 2017</b>	Oakland Avenue Bridge Replacement	150,000
	Cobb Creek Floodway Restoration	200,000
	Brush Creek Regional Detention	<u>200,000</u>
	<b>TOTAL</b>	<b>550,000</b>
<b>FY 2018</b>	Brush Creek Regional Detention	300,000
	Bridge Replacement (Austin Springs)	<u>150,000</u>
	<b>TOTAL</b>	<b>450,000</b>
<b>FY 2019</b>	Brush Creek Regional Detention	300,000
	Bridge Replacement (Austin Springs)	<u>150,000</u>
	<b>TOTAL</b>	<b>450,000</b>
<b>FY 2020</b>	Floodplain Restoration - Sinking Creek	200,000
	Brush Creek Regional Detention	<u>250,000</u>
	<b>TOTAL</b>	<b>450,000</b>
<b>FY 2021</b>	Floodplain Restoration - Sinking Creek	200,000
	Brush Creek Regional Detention	<u>250,000</u>
	<b>TOTAL</b>	<b>450,000</b>



**PARKS & RECREATION**

**SUMMARY OF PROPOSED IMPROVEMENTS  
(000's)**

**PARKS & RECREATION**

PROJECTS	PROJECTED	PROPOSED	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
	FY 2016	FY 2017					5 YEARS
							2017-2021
Ball Fields	-	-	-	250	2,000	1,200	3,450
Golf Course Improvements - Buffalo Valley	-	-	75	75	-	-	150
Golf Course Improvements - Pine Oaks	40	300	145	65	-	-	510
Keefauver Farm Master Plan	-	-	200	-	-	-	200
Lighting Improvements	-	450	350	100	560	-	1,460
Memorial Park Community Center	-	-	-	200	2,250	-	2,450
Playground Equipment	100	155	125	300	275	425	1,280
Soccer Field Improvements	-	50	50	-	-	-	100
Winged Deer Park Pavilion	-	-	100	-	-	-	100
<b>TOTAL</b>	<b>140</b>	<b>955</b>	<b>1,045</b>	<b>990</b>	<b>5,085</b>	<b>1,625</b>	<b>9,700</b>

**FUNDING SUMMARY  
(000's)**

	PROJECTED	PROPOSED	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
	FY 2016	FY 2017					5 YEARS
							2017-2021
Capital Outlay Note	-	350	350	-	500	-	1,200
General Fund	140	605	445	540	335	425	2,350
General Obligation Bond Issue	-	-	200	450	4,250	1,200	6,100
Other	-	-	50	-	-	-	50
<b>TOTAL</b>	<b>140</b>	<b>955</b>	<b>1,045</b>	<b>990</b>	<b>5,085</b>	<b>1,625</b>	<b>9,700</b>

PROJECT BALL FIELDS

PROGRAM Parks and Recreation

RESPONSIBLE DEPARTMENT Parks and Recreation

SUMMARY This project proposes purchase of and improvements to land for City open space and related facilities. Additional land is needed as a result of the Optimist Park Conversion. Amenities include two ball fields. Multiple properties have been identified and presented as land purchase options.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Design and master plan				250			250
Phase I of ball field construction					2,000		2,000
Phase II of ball field construction						1,200	1,200
TOTAL ALLOCATION				250	2,000	1,200	3,450
SOURCE OF FUNDS							
General Obligation Bond Issue				250	2,000	1,200	3,450
TOTAL FUNDS				250	2,000	1,200	3,450

PROJECT GOLF COURSE IMPROVEMENTS - BUFFALO VALLEY

PROGRAM Parks and Recreation

RESPONSIBLE DEPARTMENT Parks and Recreation

SUMMARY FY 2018 - Parking lot improvements (grading and paving of clubhouse parking lot). (\$75,000)

FY 2019 - Irrigation pumping station, including dredging of pond. (\$75,000)

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Golf Course Improvements			75	75			150
<b>TOTAL ALLOCATION</b>			75	75			150
<b>SOURCE OF FUNDS</b>							
General Fund			75	75			150
<b>TOTAL FUNDS</b>			75	75			150

PROJECT GOLF COURSE IMPROVEMENTS - PINE OAKS

PROGRAM Parks and Recreation RESPONSIBLE DEPARTMENT Parks and Recreation

SUMMARY FY 2017 - Development of Driving Range/Learning Center area. (\$50,000)  
 Cart path improvements and repairs/resurfacing. (\$250,000)

FY 2018 - Bermuda grass/Zoysiagrass turf re-establishment program. (\$100,000)  
 Patio and exterior improvements to clubhouse. (\$45,000)

FY 2019 - Bermuda grass/Zoysiagrass turf re-establishment program. (\$65,000)

In FY 2016, the following project was proposed to be completed: Driving Range - \$40,000.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Driving Range/Learning Center	40	50					50
Cart path improvements		250					250
Turf Improvements			100	65			165
Facility Improvements			45				45
<b>TOTAL ALLOCATION</b>	<b>40</b>	<b>300</b>	<b>145</b>	<b>65</b>			<b>510</b>
SOURCE OF FUNDS							
General Fund	40	300	145	65			510
<b>TOTAL FUNDS</b>	<b>40</b>	<b>300</b>	<b>145</b>	<b>65</b>			<b>510</b>

PROJECT KEEFAUVER FARM IMPROVEMENTS

PROGRAM Parks and Recreation

RESPONSIBLE DEPARTMENT Parks and Recreation

SUMMARY The Keefauver property consists of 55 acres and was purchased in 2010 for \$1.4 million as a future park or school site.  
 In FY 2018, funding for conceptual drawings and a master plan is proposed.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Master Plan			200				200
<b>TOTAL ALLOCATION</b>			200				200
<b>SOURCE OF FUNDS</b>							
General Obligation Bond Issue			200				200
<b>TOTAL FUNDS</b>			200				200

PROJECT LIGHTING IMPROVEMENTS

PROGRAM Parks and Recreation RESPONSIBLE DEPARTMENT Parks and Recreation

SUMMARY This project addresses the below standard lighting at our existing parks and fields. New technology with lighting allows for greater efficiency.

FY 2017 - Arrowood-Mashburn Field - Kiwanis Park (\$100,000)  
 Broyles Field (\$350,000)

FY 2018 – Roller Field (\$350,000)

FY 2019 - Keystone Field (\$50,000)  
 Lions Field (\$50,000)

FY 2020 - Carnegie Field (\$60,000)  
 Cardinal Park (\$500,000)

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Lighting Improvements		450	350	100	560		1,460
<b>TOTAL ALLOCATION</b>		450	350	100	560		1,460
<b>SOURCE OF FUNDS</b>							
Capital Outlay Note		350	350		500		1,200
General Fund		100		100	60		260
<b>TOTAL FUNDS</b>		450	350	100	560		1,460

PROJECT MEMORIAL PARK COMMUNITY CENTER

PROGRAM Parks and Recreation RESPONSIBLE DEPARTMENT Parks and Recreation

SUMMARY Construction of the Memorial Park Community Center was completed in 2012. This project will further develop the concept of a parks and recreation campus located at Memorial Park and will provide a much-needed home for Arts, which is currently at Princeton Arts Center and a home for the Nature Program. Part of the project will be construction of new kid-friendly outdoor pool with zero-entry and splash features.

FY 2019 - Design (\$200,000)

FY 2020 - Construction (\$2,250,000)

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Design				200			200
Construction					2,250		2,250
TOTAL ALLOCATION				200	2,250		2,450
SOURCE OF FUNDS							
General Obligation Bond Issue				200	2,250		2,450
TOTAL FUNDS				200	2,250		2,450

PROJECT PLAYGROUND EQUIPMENT

PROGRAM Parks and Recreation RESPONSIBLE DEPARTMENT Parks and Recreation

**SUMMARY** Replacement or repair of deteriorating playground equipment, which will provide small and large scale enhancements in parks throughout the City. The equipment needs to be replaced or repaired that does not comply with the Consumer Product Safety Commission requirements. Two playground structures have been removed because of significant hazards. This project will replace or upgrade equipment on an annual basis.

FY 2017 - Carver (\$100,000); Carnegie (\$30,000); Kiwanis (\$25,000)

FY 2018 - Metro Kiwanis (\$125,000)

FY 2019 - Willow Springs (\$300,000)

FY 2020 - Civitan (\$100,000); Lions (\$100,000); Powell Square (\$50,000); Paul Christman (\$25,000)

FY 2021 - Winged Deer Park Lakefront (\$125,000); MPCC (\$300,000)

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Playground Equipment Repair/Replacement	100	155	125	300	275	425	1,280
<b>TOTAL ALLOCATION</b>	100	155	125	300	275	425	1,280
<b>SOURCE OF FUNDS</b>							
General Fund	100	155	125	300	275	425	1,280
<b>TOTAL FUNDS</b>	100	155	125	300	275	425	1,280

PROJECT SOCCER FIELD IMPROVEMENTS

PROGRAM Parks and Recreation

RESPONSIBLE DEPARTMENT Parks and Recreation

SUMMARY This project proposes to upgrade soccer fields located at Civitan and Winged Deer Parks.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Field improvements		50	50				100
TOTAL ALLOCATION		50	50				100
SOURCE OF FUNDS							
General Fund		50	50				100
TOTAL FUNDS		50	50				100

PROJECT WINGED DEER PARK PAVILION

PROGRAM Parks and Recreation

RESPONSIBLE DEPARTMENT Parks and Recreation

SUMMARY As part of the Winged Deer Park master plan process, the Parks and Recreation Advisory Board has recommended construction of the Kiwanis Pavilion.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Construction of pavilion			100				100
TOTAL ALLOCATION			100				100
SOURCE OF FUNDS							
General Fund			50				50
Other - Private Sources			50				50
TOTAL FUNDS			100				100



SCHOOLS

**SUMMARY OF PROPOSED IMPROVEMENTS**  
(000's)

**JOHNSON CITY SCHOOLS**

PROJECTS	PROJECTED FY 2016	PROPOSED FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL 5 YEARS 2017-2021
Lake Ridge Elementary School Renovation and Improvements	-	-	2,000	200	-	-	2,200
Langston Demolition and Replacement	-	4,000	-	-	-	-	4,000
Liberty Bell Middle School - Cafeteria and Gymnasium	-	-	-	480	7,520	-	8,000
North Side Elementary School Renovation	-	-	1,500	-	-	-	1,500
School Facilities - General Maintenance	-	200	250	100	200	225	975
School Facilities - Resurfacing	-	350	250	200	350	200	1,350
School Facilities - Roof Replacement	-	810	1,000	-	-	-	1,810
Science Hill High School - Fieldhouse Construction	750	-	-	-	-	-	-
Science Hill High School Renovation	-	4,000	-	-	-	-	4,000
Town Acres Elementary School Renovation	-	-	500	-	-	-	500
Woodland Elementary School Renovation	-	-	-	-	2,000	-	2,000
<b>TOTAL</b>	<b>750</b>	<b>9,360</b>	<b>5,500</b>	<b>980</b>	<b>10,070</b>	<b>425</b>	<b>26,335</b>

**FUNDING SUMMARY**  
(000's)

	PROJECTED FY 2016	PROPOSED FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL 5 YEARS 2017-2021
General Fund	-	200	250	100	200	225	975
General Obligation Bond Issue	-	8,150	1,500	200	350	200	10,400
General Obligation Bond Proceeds	750	-	-	-	-	-	-
Other	-	200	-	-	-	-	200
PEP Bond Issue	-	810	1,000	-	-	-	1,810
Washington County Bond Issue	-	-	2,750	680	9,520	-	12,950
<b>TOTAL</b>	<b>750</b>	<b>9,360</b>	<b>5,500</b>	<b>980</b>	<b>10,070</b>	<b>425</b>	<b>26,335</b>

PROJECT LAKE RIDGE ELEMENTARY SCHOOL RENOVATION AND IMPROVEMENTS

PROGRAM Schools

RESPONSIBLE DEPARTMENT

Johnson City Schools

SUMMARY FY 2018 - Construction of an eight classroom addition at Lake Ridge Elementary is proposed.

FY 2019 - Renovation/remodel of Lake Ridge Elementary School, including painting, carpet, and tile.

Painting 90,000 square feet - \$100,000

Carpet and Tile Replacement 40,000 square feet - \$100,000

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Improvements Renovation/remodel			2,000	200			2,000 200
TOTAL ALLOCATION			2,000	200			2,200
SOURCE OF FUNDS							
General Obligation Bond Issue			200				200
Washington County Bond Issue			1,800	200			2,000
TOTAL FUNDS			2,000	200			2,200

PROJECT LANGSTON DEMOLITION AND REPLACEMENT

PROGRAM Schools

RESPONSIBLE DEPARTMENT

Johnson City Schools

SUMMARY Demolition and replacement of the Langston maintenance building.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Demo/Construction		4,000					4,000
<b>TOTAL ALLOCATION</b>		4,000					4,000
<b>SOURCE OF FUNDS</b>							
General Obligation Bond Issue		4,000					4,000
<b>TOTAL FUNDS</b>		4,000					4,000

PROJECT LIBERTY BELL MIDDLE SCHOOL - CAFETERIA AND GYMNASIUM

PROGRAM Schools RESPONSIBLE DEPARTMENT Johnson City Schools

SUMMARY The cafeteria and gymnasium serving Liberty Bell Middle School are currently located in Freedom Hall Civic Center, which is over 40 years old. This project proposes to relocate these components to a new facility connected to the middle school.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				
			FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
EXPENDITURE ALLOCATION							
Design				480			480
Construction					7,520		7,520
TOTAL ALLOCATION				480	7,520		8,000
SOURCE OF FUNDS							
Washington County Bond Issue				480	7,520		8,000
TOTAL FUNDS				480	7,520		8,000

PROJECT NORTH SIDE ELEMENTARY RENOVATION

PROGRAM	Schools	RESPONSIBLE DEPARTMENT	Johnson City Schools
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SUMMARY Renovation/remodel of North Side elementary School, including cabinetry, carpeting and tile, and storage addition.  
 Painting 83,000 square feet - \$100,000  
 Cabinet Replacement - \$500,000  
 Carpet and Tile Replacement 35,000 square feet - \$200,000  
 Storage Addition 2,000 square feet - \$700,000

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				
			FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
EXPENDITURE ALLOCATION							
Renovation/remodel			1,500				1,500
TOTAL ALLOCATION			1,500				1,500
SOURCE OF FUNDS							
General Obligation Bond Issue			550				550
Washington County Bond Issue			950				950
TOTAL FUNDS			1,500				1,500

PROJECT SCHOOL FACILITIES - GENERAL MAINTENANCE

PROGRAM Schools RESPONSIBLE DEPARTMENT Johnson City Schools

SUMMARY The attached list of facility maintenance is needed as described.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Facility Maintenance		200	250	100	200	225	975
<b>TOTAL ALLOCATION</b>		200	250	100	200	225	975
<b>SOURCE OF FUNDS</b>							
General Fund		200	250	100	200	225	975
<b>TOTAL FUNDS</b>		200	250	100	200	225	975

FACILITY MAINTENANCE

YEAR	SCHOOL		ESTIMATE
FY 2017	Central Office	Painting	100,000
		Soffit/Gutter	<u>100,000</u>
		<b>TOTAL</b>	<b>200,000</b>
FY 2018	Indian Trail Middle School	Painting	150,000
	Lake Ridge Elementary School	Painting	<u>100,000</u>
		<b>TOTAL</b>	<b>250,000</b>
FY 2019	Mountain View Elementary	Painting	<u>100,000</u>
		<b>TOTAL</b>	<b>100,000</b>
FY 2020	Henry Johnson Alternative School	Painting	100,000
	Southside Elementary School	Painting	<u>100,000</u>
		<b>TOTAL</b>	<b>200,000</b>
FY 2021	Career Technology Center	Painting	100,000
	Southside Elementary School	Carpet	25,000
	Woodland Elementary School	Painting	<u>100,000</u>
		<b>TOTAL</b>	<b>225,000</b>

PROJECT SCHOOL FACILITIES - RESURFACING

PROGRAM	Schools	RESPONSIBLE DEPARTMENT	Johnson City Schools
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SUMMARY The following schools are proposed for paving:

FY 2017 - Mountainview Elementary - \$150,000	FY 2020 - Central Office - \$100,000
Henry Johnson Alternative - \$100,000	Cherokee Elementary (new lot) - \$250,000
Cherokee Elementary - \$100,000	
FY 2018 - Langston Maintenance Building - \$150,000	FY 2021 - Science Hill - \$200,000
Towne Acres Elementary - \$100,000	
FY 2019 - Indian Trail Intermediate - \$100,000	
Lake Ridge Elementary - \$100,000	

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Resurfacing		350	250	200	350	200	1,350
TOTAL ALLOCATION		350	250	200	350	200	1,350
SOURCE OF FUNDS							
General Obligation Bond Issue		350	250	200	350	200	1,350
TOTAL FUNDS		350	250	200	350	200	1,350

PROJECT SCHOOL FACILITIES - ROOF REPLACEMENT

PROGRAM Schools RESPONSIBLE DEPARTMENT Johnson City Schools

SUMMARY The following schools are proposed for roof replacement:

FY 2018 - Indian Trail Intermediate School - \$70,000  
 Towne Acres Elementary School - \$200,000  
 Liberty Bell Middle School - \$40,000  
 Science Hill High School - \$500,000

FY 2019 - Lake Ridge Elementary - \$650,000  
 Columbus Powell - \$50,000  
 Indian Trail Intermediate School - \$300,000

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Roof Replacement		810	1,000				1,810
TOTAL ALLOCATION		810	1,000				1,810
SOURCE OF FUNDS							
PEP Bond Issue		810	1,000				1,810
TOTAL FUNDS		810	1,000				1,810

PROJECT SCIENCE HILL HIGH SCHOOL - FIELDHOUSE CONSTRUCTION

PROGRAM Schools

RESPONSIBLE DEPARTMENT

Johnson City Schools

SUMMARY To better accommodate the needs of the Science Hill High School football program, construction of a new fieldhouse is budgeted in FY 2015.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				
			FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
<b>EXPENDITURE ALLOCATION</b>							
Construction of fieldhouse	750						
<b>TOTAL ALLOCATION</b>	750						
<b>SOURCE OF FUNDS</b>							
General Obligation Bond Proceeds	750						
<b>TOTAL FUNDS</b>	750						

PROJECT SCIENCE HILL HIGH SCHOOL RENOVATION

PROGRAM Schools RESPONSIBLE DEPARTMENT Johnson City Schools

SUMMARY Renovation/remodel of the Science Hill High School campus (older wings) with HVAC, lighting, controls, windows, water conservation, and kitchen equipment based on energy analysis referenced by Energy System Group. Energy savings will be utilized to pay the annual debt service payments. While the main focus of the energy improvements will be at SHHS, other school facilities will also be evaluated for improvements.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				
			FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
<b>EXPENDITURE ALLOCATION</b>							
Renovation/remodel		4,000					4,000
<b>TOTAL ALLOCATION</b>		4,000					4,000
<b>SOURCE OF FUNDS</b>							
General Obligation Bond Issue		3,800					3,800
Other - State Grants		200					200
<b>TOTAL FUNDS</b>		4,000					4,000

PROJECT TOWNE ACRES ELEMENTARY SCHOOL RENOVATION

PROGRAM Schools RESPONSIBLE DEPARTMENT Johnson City Schools

SUMMARY Renovation/remodel of Towne Acres Elementary School, including painting, cabinetry, carpet, and tile.  
 Painting 84,000 square feet - \$100,000  
 Upgraded Cabinetry, Carpet and Tile Replacement 84,000 square feet - \$400,000

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				
			FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
EXPENDITURE ALLOCATION							
Renovation/remodel			500				500
TOTAL ALLOCATION			500				500
SOURCE OF FUNDS							
General Obligation Bond Issue			500				500
TOTAL FUNDS			500				500

PROJECT WOODLAND ELEMENTARY SCHOOL ADDITION

PROGRAM	Schools	RESPONSIBLE DEPARTMENT	Johnson City Schools
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SUMMARY Construction of an eight classroom addition at Woodland Elementary School is proposed.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				
			FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
EXPENDITURE ALLOCATION							
Eight Classroom Addition					2,000		2,000
TOTAL ALLOCATION					2,000		2,000
SOURCE OF FUNDS							
Washington County Bond Issue					2,000		2,000
TOTAL FUNDS					2,000		2,000



TRANSPORTATION

**SUMMARY OF PROPOSED IMPROVEMENTS  
(000's)**

**TRANSPORTATION**

PROJECTS	PROJECTED FY 2016	PROPOSED FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL 5 YEARS 2017-2021
Community Beautification Project	-	100	100	100	100	100	500
Downtown Streetscape	500	800	400	-	300	300	1,800
Major Transportation Improvements	4,630	5,920	6,000	16,500	8,000	5,000	41,420
Roadway Enhancement Project	100	100	100	200	300	220	920
Sidewalk/Trail Construction	240	235	165	275	200	200	1,075
Street Resurfacing	3,000	3,000	3,100	3,250	3,400	3,600	16,350
Traffic Signal Installation	1,800	300	300	300	-	1,300	2,200
Tweetsie Trail Project	100	-	-	-	-	-	-
<b>TOTAL</b>	<b>10,370</b>	<b>10,455</b>	<b>10,165</b>	<b>20,625</b>	<b>12,300</b>	<b>10,720</b>	<b>64,265</b>

**FUNDING SUMMARY  
(000's)**

	PROJECTED FY 2016	PROPOSED FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL 5 YEARS 2017-2021
Economic Development Reserve	1,550	-	-	-	-	-	-
Federal - Grants, FWHA, and Safety-Lu	2,100	3,020	5,000	-	5,280	1,120	14,420
General Fund	3,740	3,435	3,865	3,825	3,700	4,120	18,945
General Obligation Bond Issue	-	1,250	500	4,000	1,960	4,180	11,890
General Obligation Bond Proceeds	980	-	-	-	-	-	-
Other	100	750	-	-	-	-	750
State of Tennessee	1,800	2,000	300	12,800	-	1,300	16,400
Stormwater Fund	100	-	-	-	-	-	-
Washington County	-	-	500	-	1,360	-	1,860
<b>TOTAL</b>	<b>10,370</b>	<b>10,455</b>	<b>10,165</b>	<b>20,625</b>	<b>12,300</b>	<b>10,720</b>	<b>64,265</b>

PROJECT COMMUNITY BEAUTIFICATION PROJECT

PROGRAM Transportation RESPONSIBLE DEPARTMENT Public Works

**SUMMARY** The project involves installation of new landscape locations and public art throughout the community, and includes installation of new landscape locations, tree planting, and refurbishing visible infrastructure in high-profile areas. The type and locations are to be recommended by the Tree and Landscaping Board and/or the Public Art Committee.

FY 2017 - State of Franklin/I-26 interchange  
 FY 2018 - State of Franklin/I-26 interchange  
 FY 2019 - Roan Street/I-26 interchange  
 FY 2020 - State of Franklin road  
 FY 2021 - Various locations

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Landscaping		100	100	100	100	100	500
<b>TOTAL ALLOCATION</b>		100	100	100	100	100	500
<b>SOURCE OF FUNDS</b>							
General Fund		100	100	100	100	100	500
<b>TOTAL FUNDS</b>		100	100	100	100	100	500

PROJECT DOWNTOWN STREETScape

PROGRAM Transportation RESPONSIBLE DEPARTMENT Public Works

SUMMARY This multi-year project involves expanding on the streetscape enhancements in the downtown area that began in FY 2013. The following details the street segments involved:

FY 2016 - Commerce (Wilson to Roan) - \$200K / Main and Market Street (Buffalo to Commerce) - \$100K / Roan (Market to Main)- \$200K

FY 2017 - Roan Street (Market to Buffalo) - \$200K / Wayfinding Signage - \$400K / Cherry Street Trail/ Pedestrian Way(Buffalo to Roan) - \$200K

FY 2018 - Main and Market Streets (Commerce to Boone) - \$200K / Canopy Restoration - \$200K

FY 2020 - Main Street (Buffalo to Roan) - \$300K

FY 2021 - Market Street (Buffalo to Roan) - \$300K

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Construction	500	400	200		300	300	1,200
Wayfinding Signage		400					400
Canopy Restoration			200				200
<b>TOTAL ALLOCATION</b>	<b>500</b>	<b>800</b>	<b>400</b>		<b>300</b>	<b>300</b>	<b>1,800</b>
<b>SOURCE OF FUNDS</b>							
General Fund	400		400				400
General Obligation Bond Issue		800			300	300	1,400
Stormwater Fund	100						
<b>TOTAL FUNDS</b>	<b>500</b>	<b>800</b>	<b>400</b>		<b>300</b>	<b>300</b>	<b>1,800</b>

PROJECT MAJOR TRANSPORTATION IMPROVEMENTS

PROGRAM Transportation RESPONSIBLE DEPARTMENT Public Works

SUMMARY This group of projects addresses major issues of traffic capacity and roadway enhancements to stimulate economic development. These projects require local commitment toward total funding or matching state and federal funding. These projects cannot be constructed by in-house crews and generally involve funding commitment for contract design, right of way acquisition, and construction by contract.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				
			FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
<b>EXPENDITURE ALLOCATION</b>							
Transportation	4,630	5,920	6,000	16,500	8,000	5,000	41,420
<b>TOTAL ALLOCATION</b>	<b>4,630</b>	<b>5,920</b>	<b>6,000</b>	<b>16,500</b>	<b>8,000</b>	<b>5,000</b>	<b>41,420</b>
<b>SOURCE OF FUNDS</b>							
Economic Development Reserve	1,550						
General Obligation Bond Issue		450	500	4,000	1,360	3,880	10,190
General Obligation Bond Proceeds	980						
Federal - HPP	600	600	2,400				3,000
Federal - STP	1,500	2,420	1,600		5,280	1,120	10,420
Federal - TCSP			1,000				1,000
Other		750					750
State - TDOT		1,700		12,500			14,200
Washington County			500		1,360		1,860
<b>TOTAL FUNDS</b>	<b>4,630</b>	<b>5,920</b>	<b>6,000</b>	<b>16,500</b>	<b>8,000</b>	<b>5,000</b>	<b>41,420</b>

**Major Transportation Improvements (000s)**

Project	Projected FY 2016	Proposed FY 2017	2018	2019	2020	2021	TOTAL
Franklin Commons Access Road	250						
Economic Development Reserve	250						
I-26/ Boones Creek Interchange				13,500			13,500
General Obligation Bond Issue				1,000			1,000
TDOT				12,500			12,500
Innovation Park				3,000			3,000
General Obligation Bond Issue				3,000			3,000
Indian Ridge/State of Franklin Interchange	2480	2420					2,420
Federal - Surface Transportation Program	1500	2420					2,420
General Obligation Bond Proceeds (Match)	980						
Knob Creek Road/Bridge - SOF to Stone Ridge SD			6000		8,000	5,000	19,000
Federal - TCSP			1000				1,000
Federal - HPP			2400				2,400
Federal - STP			1600		5,280	1,120	8,000
General Obligation Bond Issue			500		1,360	3,880	5,740
Washington County			500		1,360		1,860
Lark Street Extension	1,300	1,700					1,700
Economic Development Reserve	1,300						
State of Tennessee - TDOT		1,700					1,700
VA Access Road - Market Street to VA	600	1,800					1,800
Federal - HPP	600	600					600
General Obligation Bond Issue		450					450
Grant		750					750
	4,630	5,920	6,000	16,500	8,000	5,000	41,420

**Major Transportation Improvements (000s)**

Project	Projected FY 2016	Proposed FY 2017	2018	2019	2020	2021	TOTAL
Economic Development Reserve	1,550	0	0	0	0	0	0
General Obligation Bond Issue	0	450	500	4,000	1,360	3,880	10,190
General Obligation Bond Proceeds	980	0	0	0	0	0	0
Federal - HPP	600	600	2,400	0	0	0	3,000
Federal - Surface Transportation Program	1,500	2,420	1,600	0	5,280	1,120	10,420
Federal - TCSP	0	0	1,000	0	0	0	1,000
Other	0	750	0	0	0	0	750
State of Tennessee - TDOT	0	1,700	0	12,500	0	0	14,200
Washington County	0	0	500	0	1,360	0	1,860
	4,630	5,920	6,000	16,500	8,000	5,000	41,420

## Major Transportation Projects Beyond Five Years (000s)

The following projects are proposed to be funded with general obligation bonds:

Boones Creek Interchange	Local Match ( <i>development driven</i> )	600
Boone Station Development		4,000
Brown's Mill Road Extension	Carroll Creek to Boone's Creek ( <i>development driven</i> )	14,000
Carroll Creek Road Widening	Bristol Highway 11E to Lake Ridge School	10,000
Indian Ridge Road Connector	Indian Ridge to Claude Simmons	5,000
Green Pond Road Improvements	Walnut to Market Street	5,000
Walnut Street Improvement	Huffine to State of Franklin	5,000
Sunset/State of Franklin Intersection	Interchange Improvements ( <i>development driven</i> )	1,250
Watauga Road Super 2 lane	Watauga to Johnson City (SR 400)	5,000
	TOTAL	49,850

PROJECT ROADWAY ENHANCEMENT PROJECTS

PROGRAM Transportation

RESPONSIBLE DEPARTMENT Public Works

SUMMARY This project involves in-house construction of roadway enhancements on a small, manageable scale and involves such improvements as intersection upgrades, roadway widening, and elimination of vertical curb sight distance issues. Attached is the proposed list of improvements which correspond to the recommended annual operating budget.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Roadway Enhancements	100	100	100	200	300	220	920
<b>TOTAL ALLOCATION</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>200</b>	<b>300</b>	<b>220</b>	<b>920</b>
<b>SOURCE OF FUNDS</b>							
General Fund General Obligation Bond Issue	100	100	100	200	300	220	620 300
<b>TOTAL FUNDS</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>200</b>	<b>300</b>	<b>220</b>	<b>920</b>

ROADWAY ENHANCEMENT PROJECTS

<b>FY 2016</b>	Walnut Street/State of Franklin Intersection (adds a left turn lane off Walnut and eliminates the illegal left turn into Kroger development. Addresses capacity issues)	70,000
	Market Street/Knob Creek Intersection (realigning the right turn lane off Knob Creek to comply with TDOT standards)	30,000
	<b>Total</b>	<b>100,000</b>
<b>FY 2017</b>	Seminole Drive Widening (widening, curbing, and adding sidewalks from Ashley Street to the curve).	<b>100,000</b>
<b>FY 2018</b>	Forrest Avenue Widening (widening, curbing, and adding sidewalks - from Oakland Ave. to Baxter Avenue)	<b>100,000</b>
<b>FY 2019</b>	Milligan Highway/Swadley Road Intersection (adding turn lanes)	<b>200,000</b>
<b>FY 2020</b>	Browns Mill Road Widening (widening, curbing, and adding sidewalks from Oakland Avenue to Peoples Street)	<b>300,000</b>
<b>FY 2021</b>	Knob Creek/State of Franklin Intersection (adds an additional turn lane between Peoples Street and State of Franklin Road. Increases capacity in both directions)	20,000
	Indian Ridge @ Lark Street/State of Franklin Intersection (realigning Indian Ridge intersection to intersect with Lark St).	200,000
	<b>Total</b>	<b>220,000</b>

PROJECT SIDEWALK CONSTRUCTION

PROGRAM Transportation

RESPONSIBLE DEPARTMENT Public Works

**SUMMARY** The General Plan includes a section on proposed new sidewalk and trail locations. Implementation of that plan should focus on school access, park access, and connectivity to neighborhoods (but not necessarily within individual neighborhoods). To do so emphasizes locations along arterials and collectors, and in the process develops a series of loops, which would eventually overlap. Implementation elements include design, right of way purchase, and construction. Funding is based on \$15/ft. design, \$20/ft. right of way, and \$30/ft. in-house construction.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
In-house construction	240	235	125	75	150		585
Design/ROW			40	200	50	200	490
<b>TOTAL ALLOCATION</b>	<b>240</b>	<b>235</b>	<b>165</b>	<b>275</b>	<b>200</b>	<b>200</b>	<b>1,075</b>
<b>SOURCE OF FUNDS</b>							
General Fund	240	235	165	275	200	200	1,075
<b>TOTAL FUNDS</b>	<b>240</b>	<b>235</b>	<b>165</b>	<b>275</b>	<b>200</b>	<b>200</b>	<b>1,075</b>

## Sidewalk/Trail Construction

<b>FY 2016</b>			
	Antioch Road (const.) Phase 1	Willow Springs to Grace Church	100,000
	Sunset Drive (const.) 2,700 ft.	Sundale to Roan	30,000
	Lakeview Drive (const.)	Oakland Ave. to Mountcastle Dr.	10,000
	Tweetsie Trail Extension	Tweetsie Entrance to Division Street	100,000
		<b>Total</b>	<b>240,000</b>
<b>FY 2017</b>			
	Antioch Road (const.) Phase 2		75,000
	State of Franklin Trail (const.) 3000ft	VA Campus	60,000
	Tipton Haynes Trail (const.) 2,000 ft.	Tweetsie Trail to Milligan Hwy.	50,000
	Innovation Park/ Hospital Trail	MSHA through Innovation Park to Market	50,000
		<b>Total</b>	<b>235,000</b>
<b>FY 2018</b>			
	Swadley Road (const.) 2,500 ft.	Milligan Highway to Plymouth Road	125,000
	Southwest Ave (ROW) 2,800 ft.	ETSU to Cherokee Road	40,000
		<b>Total</b>	<b>165,000</b>
<b>FY 2019</b>			
	Oakland Avenue (design) 10,700 ft.	Princeton to Unaka	140,000
	Lone Oak Road – Phase II(ROW) 3,000 ft.	Eastwood to Greenwood	60,000
	Southwest Ave. (const.)	ETSU to Cherokee Road	75,000
		<b>Total</b>	<b>275,000</b>
<b>FY 2020</b>			
	Oakland Avenue (ROW)	Princeton to Unaka Avenue	50,000
	Lone Oak Road - Phase 2 (const.) 3,000 ft.	Eastwood to Greenwood	90,000
	Grace Church Trail (const.) 2,000 ft.	Antioch to Greenwood	60,000
		<b>Total</b>	<b>200,000</b>
<b>FY 2021</b>			
	Oakland Avenue (ROW)	Princeton to Unaka Avenue	200,000
		<b>Total</b>	<b>200,000</b>

PROJECT STREET RESURFACING

PROGRAM Transportation

RESPONSIBLE DEPARTMENT Public Works

SUMMARY There are approximately 800 lane miles of streets in the local network. Present value cost to resurface all the streets is estimated at \$90 million. The total resurfacing value divided by annual budget allocation provides the estimated life expectancy needed before the subsequent paving cycle. Acceptable life expectancy of pavement is 10 to 15 years for arterial/collectors and 20 to 25 years for neighborhood streets.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Paving	3,000	3,000	3,100	3,250	3,400	3,600	16,350
TOTAL ALLOCATION	3,000	3,000	3,100	3,250	3,400	3,600	16,350
SOURCE OF FUNDS							
General Fund	3,000	3,000	3,100	3,250	3,400	3,600	16,350
TOTAL FUNDS	3,000	3,000	3,100	3,250	3,400	3,600	16,350

PROJECT TRAFFIC SIGNAL INSTALLATIONS

PROGRAM Transportation

RESPONSIBLE DEPARTMENT Public Works

SUMMARY As the community grows, so does the traffic. A list of the proposed schedule for installation of traffic signals and roundabouts is attached.

Any matching funds derived from private, state, or federal funds to offset the use of general fund dollars will be sought. The sequence of one new signal per year is recommended.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Traffic Signal Installation	1,800	300	300	300		1,300	2,200
<b>TOTAL ALLOCATION</b>	<b>1,800</b>	<b>300</b>	<b>300</b>	<b>300</b>		<b>1,300</b>	<b>2,200</b>
<b>SOURCE OF FUNDS</b>							
TDOT (STP)	1,800					1,000	1,000
TDOT (Safety Funds)		300	300	300		300	1,200
<b>TOTAL FUNDS</b>	<b>1,800</b>	<b>300</b>	<b>300</b>	<b>300</b>		<b>1,300</b>	<b>2,200</b>

### Traffic Signal Installations

FY 2016	New	Southwest/University Parkway
	New	Carroll Creek/Bristol Highway
	New	Princeton/Oakland Avenue
	Upgrade	Broadway/Unaka
	Upgrade	Broadway/Watauga
	Upgrade	Broadway/Fairview
	Upgrade	Broadway/Main
	Upgrade	Oakland/Unaka
	Upgrade	Oakland/Watauga
	Upgrade	Highland Church/Boones Creek
	Upgrade	Veterans Way/Market
FY 2017	New	Mountain View/Roan
	New	Mountain View/Browns Mill (roundabout)
FY 2018	New	Harris/State of Franklin Road
FY 2019	New	Market/Innovation Park
FY 2021	New	People's Street/Greenline (roundabout)
		Lark/State of Franklin
Other		Swadley/Milligan Highway

PROJECT TWEETSIE TRAIL PROJECT

PROGRAM Transportation

RESPONSIBLE DEPARTMENT Public Works

SUMMARY The City has acquired 10 miles of right of way from East Tennessee Railroad for the purpose of constructing a walking/bike trail that will connect Johnson City and Elizabethton. Of the 10 miles, approximately one mile is located in Johnson City, approximately four miles in Carter County, and approximately five miles in Elizabethton. Construction of the first section (7 miles) was completed in August, 2014. The final 3 miles was completed in August of 2015.

**PROJECT COMPLETE**

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Trail Improvements	100						
<b>TOTAL ALLOCATION</b>	<b>100</b>						
<b>SOURCE OF FUNDS</b>							
Private Donations	100						
<b>TOTAL FUNDS</b>	<b>100</b>						



UTILITIES

**SUMMARY OF PROPOSED IMPROVEMENTS**  
(000's)

**UTILITIES**

PROJECTS	PROJECTED	PROPOSED	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL
	FY 2016	FY 2017					5 YEARS
							2017-2021
Annexation Services	100	100	100	100	100	100	500
Architectural Improvements	270	-	100	-	-	-	100
Brush Creek Interceptor Improvements - Lower	1,000	9,500	9,500	-	-	-	19,000
Brush Creek Wastewater Treatment Plant Improvements	750	3,500	3,500	-	-	-	7,000
Brush Creek Wastewater Treatment Plant - SCADA	-	-	-	2,000	2,000	2,000	6,000
City Water Main Rehabilitation	300	300	300	300	300	300	1,500
Emergency Preparedness and Security Improvements	75	75	75	75	75	75	375
Equipment Replacement at Water/Sewer Facilities	100	100	100	100	100	100	500
Galvanized Waterline Replacement	650	650	650	650	650	650	3,250
King Creek Interceptor - Upper	100	900	-	-	-	-	900
Knob Creek Boat Dock Road Pump Station and Force Main	-	-	500	1,000	-	-	1,500
Knob Creek Interceptor Improvements	-	-	-	500	4,000	4,000	8,500
Knob Creek to Brush Creek Force Main	-	-	-	250	2,000	2,000	4,250
Knob Creek to Brush Creek Sewer Lift Station	-	-	250	2,000	2,000	-	4,250
Knob Creek Wastewater Treatment Plant Improvements	400	2,100	2,100	-	-	-	4,200
Pump Station Equipment Replacement and Rehabilitation	-	75	75	75	-	-	225
Redundant Raw Water Line	-	-	-	500	1,500	-	2,000
Regional Capacity Improvements - Phase III (B Station Force Main)	-	250	1,950	1,800	-	-	4,000
Sewer Line Rehabilitation and Replacement	850	900	1,000	1,100	1,200	1,300	5,500
Sinking Creek Sewer Lift Station Repairs and Upgrades	-	-	750	750	-	-	1,500
Tank Maintenance	500	500	500	500	500	500	2,500
Tannery Knob Tank Replacement	500	1,800	1,700	-	-	-	3,500
Technology Plan Implementation/Advanced Meter Infrastructure	-	-	-	-	-	4,000	4,000
Technology Plan Implementation/ Work Order System	500	1,800	1,200	900	500	600	5,000
Unicoi Spring Collection System Rehabilitation	-	-	50	250	-	-	300
Unicoi Water Treatment Plant - PLC Replacement	-	100	-	-	-	-	100
Utility Relocations for Local Road Projects	250	250	250	250	250	250	1,250
Warehouse Renovations at Water Service	-	200	2,800	2,000	-	-	5,000
Wastewater Treatment Plants - Clarifier Rehabilitation	200	200	-	200	-	-	400
Watauga Disinfection Change	500	1,100	-	-	-	-	1,100
Watauga Water Treatment Plant - Flocculator Replacement	110	110	110	-	-	-	220
Water Booster Station Improvements	500	-	-	-	-	-	-
Water Storage Tank (NEW)	-	-	-	500	1,500	-	2,000
<b>TOTAL</b>	<b>7,655</b>	<b>24,510</b>	<b>27,560</b>	<b>15,800</b>	<b>16,675</b>	<b>15,875</b>	<b>100,420</b>

**SUMMARY OF PROPOSED IMPROVEMENTS  
(000's)**

**UTILITIES**

**FUNDING SUMMARY  
(000's)**

	PROJECTED FY 2016	PROPOSED FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	TOTAL 5 YEARS 2017-2021
Water/Sewer Bond Issue	-	9,700	13,800	11,300	13,000	8,000	55,800
Water/Sewer Bond Proceeds	3,750	9,650	9,250	-	-	-	18,900
Water/Sewer Fund	3,905	5,160	4,510	4,500	3,675	7,875	25,720
<b>TOTAL</b>	<b><u>7,655</u></b>	<b><u>24,510</u></b>	<b><u>27,560</u></b>	<b><u>15,800</u></b>	<b><u>16,675</u></b>	<b><u>15,875</u></b>	<b><u>100,420</u></b>

PROJECT ANNEXATION SERVICES

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY Extension and upgrading of utilities (water and sewer) to annexed areas, either currently awaiting service or desiring future service.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Construction/ROW	100	100	100	100	100	100	500
TOTAL ALLOCATION	100	100	100	100	100	100	500
SOURCE OF FUNDS							
Water/Sewer Fund	100	100	100	100	100	100	500
TOTAL FUNDS	100	100	100	100	100	100	500

PROJECT ARCHITECTURAL IMPROVEMENTS

PROGRAM Utilities

RESPONSIBLE DEPARTMENT

Water/Sewer

SUMMARY New roofing at the Watauga and Unicoi water treatment plants (FY 16)  
Upgrades to Brush Creek WWTP control building (FY 18)

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Construction/Equipment	270		100				100
TOTAL ALLOCATION	270		100				100
SOURCE OF FUNDS							
Water/Sewer Fund	270		100				100
TOTAL FUNDS	270		100				100

PROJECT BRUSH CREEK INTERCEPTOR REPLACEMENT - LOWER

PROGRAM Utilities

RESPONSIBLE DEPARTMENT

Water/Sewer

SUMMARY Replacement of the Lower Brush Creek Sanitary Sewer Interceptor

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Engineering/ROW/Construction	1,000	9,500	9,500				19,000
<b>TOTAL ALLOCATION</b>	<b>1,000</b>	<b>9,500</b>	<b>9,500</b>				<b>19,000</b>
<b>SOURCE OF FUNDS</b>							
Water/Sewer Bond Issue Water/Sewer Bond Proceeds	1,000	9,500	9,500				19,000
<b>TOTAL FUNDS</b>	<b>1,000</b>	<b>9,500</b>	<b>9,500</b>				<b>19,000</b>

PROJECT BRUSH CREEK WASTEWATER TREATMENT PLANT IMPROVEMENTS

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY Conversion of the Brush Creek WWTP from gaseous chlorine/gaseous sulfur dioxide to liquid sodium hypochlorite and liquid sodium bisulfate. Also included are other improvements needed to the thickening system and headworks, and installation of Phase I wet weather detention. Cost estimates reflect a combination of contract services and force accounts.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Engineering/Construction	750	3,500	3,500				7,000
TOTAL ALLOCATION	750	3,500	3,500				7,000
SOURCE OF FUNDS							
Water/Sewer Bond Proceeds	750	3,500	3,500				7,000
TOTAL FUNDS	750	3,500	3,500				7,000

PROJECT BRUSH CREEK WASTEWATER TREATMENT PLANT - AERATION AND SCADA IMPROVEMENTS

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY Aeration improvements and SCADA controls to be added to further enhance operational control and efficiency.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Equipment				2,000	2,000	2,000	6,000
TOTAL ALLOCATION				2,000	2,000	2,000	6,000
SOURCE OF FUNDS							
Water/Sewer Bond Issue				2,000	2,000	2,000	6,000
TOTAL FUNDS				2,000	2,000	2,000	6,000

PROJECT CITY WATER MAIN REHABILITATION

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY The budgeted allocation is dedicated to rehabbing and replacing older water mains in the system. Depending on priority, this may be combined with additional galvanized waterline replacement. May be combined with water replacement project depending on project nature and need.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Engineering/ROW/Construction	300	300	300	300	300	300	1,500
<b>TOTAL ALLOCATION</b>	300	300	300	300	300	300	1,500
<b>SOURCE OF FUNDS</b>							
Water/Sewer Fund	300	300	300	300	300	300	1,500
<b>TOTAL FUNDS</b>	300	300	300	300	300	300	1,500

PROJECT EMERGENCY PREPAREDNESS AND SECURITY IMPROVEMENTS FOR WATER AND SEWER FACILITIES

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

**SUMMARY** Additional emergency preparedness equipment for water booster stations, sewer lift stations, and other facilities in the system.

Auxiliary power, backup pumping equipment, mobile temporary equipment, etc. is intended to be purchased with this budgeted expense.

Improvement of security for water/sewer facilities including: water treatment plants, raw water intakes, water booster stations, sewer treatment plants, sewer pumping stations, water storage tanks, warehouse, and offices.

Includes equipment and facility improvements necessary to better protect both personnel and facilities, such as fencing, barriers, CCTV cameras and monitoring, and other inherently safer technologies.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Equipment	75	75	75	75	75	75	375
<b>TOTAL ALLOCATION</b>	75	75	75	75	75	75	375
<b>SOURCE OF FUNDS</b>							
Water/Sewer Fund	75	75	75	75	75	75	375
<b>TOTAL FUNDS</b>	75	75	75	75	75	75	375

PROJECT EQUIPMENT REPLACEMENT AT WATER/SEWER FACILITIES

PROGRAM Utilities

RESPONSIBLE DEPARTMENT

Water/Sewer

SUMMARY Replacement of aging equipment at the water and wastewater treatment plants and water and wastewater booster and pump stations.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Equipment	100	100	100	100	100	100	500
<b>TOTAL ALLOCATION</b>	100	100	100	100	100	100	500
<b>SOURCE OF FUNDS</b>							
Water/Sewer Fund	100	100	100	100	100	100	500
<b>TOTAL FUNDS</b>	100	100	100	100	100	100	500

PROJECT GALVANIZED WATERLINE REPLACEMENT

PROGRAM Utilities

RESPONSIBLE DEPARTMENT

Water/Sewer

SUMMARY Replacement and upgrade of galvanized water lines in the system. This is a multi-year project which will continue into the future.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Engineering/ROW/Construction	650	650	650	650	650	650	3,250
<b>TOTAL ALLOCATION</b>	650	650	650	650	650	650	3,250
<b>SOURCE OF FUNDS</b>							
Water/Sewer Fund	650	650	650	650	650	650	3,250
<b>TOTAL FUNDS</b>	650	650	650	650	650	650	3,250

PROJECT KING CREEK INTERCEPTOR - UPPER

PROGRAM

RESPONSIBLE DEPARTMENT

Water/Sewer

SUMMARY

Replacement of the Upper King Creek Interceptor

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Engineering/Construction	100	900					900
<b>TOTAL ALLOCATION</b>	100	900					900
<b>SOURCE OF FUNDS</b>							
Water/Sewer Bond Proceeds	100	900					900
<b>TOTAL FUNDS</b>	100	900					900

PROJECT KNOB CREEK BOAT DOCK ROAD PUMP STATION AND FORCE MAIN

PROGRAM Utilities

RESPONSIBLE DEPARTMENT

Water/Sewer

SUMMARY Knob Creek Boat Dock Road: Pump station and force main project is designed to increase capacity for future flows.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Engineering/Construction			500	1,000			1,500
TOTAL ALLOCATION			500	1,000			1,500
SOURCE OF FUNDS							
Water/Sewer Bond Issue			500	1,000			1,500
TOTAL FUNDS			500	1,000			1,500

PROJECT KNOB CREEK INTERCEPTOR IMPROVEMENTS

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY Replaces portions of existing sewer interceptors that convey sewage from North Johnson City (Oakland Avenue, North Roan Street) to the Knob Creek Wastewater Treatment Plant.

Replaces portions of sewer interceptors that are projected to have capacity concerns in the future. The pipe is upsized to carry future flows.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Engineering/ROW/Construction				500	4,000	4,000	8,500
TOTAL ALLOCATION				500	4,000	4,000	8,500
SOURCE OF FUNDS							
Water/Sewer Bond Issue				500	4,000	4,000	8,500
TOTAL FUNDS				500	4,000	4,000	8,500

PROJECT KNOB CREEK TO BRUSH CREEK FORCE MAIN

PROGRAM Utilities

RESPONSIBLE DEPARTMENT

Water/Sewer

SUMMARY Engineering design and construction of force main to take Knob Creek WWTP flows to Brush Creek WWTP for treatment.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Engineering/Construction				250	2,000	2,000	4,250
TOTAL ALLOCATION				250	2,000	2,000	4,250
SOURCE OF FUNDS							
Water/Sewer Bond Issue				250	2,000	2,000	4,250
TOTAL FUNDS				250	2,000	2,000	4,250

PROJECT KNOB CREEK TO BRUSH CREEK SEWER LIFT STATION

PROGRAM Utilities

RESPONSIBLE DEPARTMENT

Water/Sewer

SUMMARY Additional pumping structures to facilitate transport of flow from Knob Creek WWTP to Brush Creek WWTP for treatment.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Engineering/Equipment/Construction			250	2,000	2,000		4,250
TOTAL ALLOCATION			250	2,000	2,000		4,250
SOURCE OF FUNDS							
Water/Sewer Bond Issue			250	2,000	2,000		4,250
TOTAL FUNDS			250	2,000	2,000		4,250

PROJECT KNOB CREEK WASTEWATER TREATMENT PLANT IMPROVEMENTS

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY Improvements to Knob Creek WWTP for the aeration system, headworks, and installation of Phase I wet weather detention. Cost estimates reflect a combination of contract services and force accounts.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Engineering/Construction	400	2,100	2,100				4,200
TOTAL ALLOCATION	400	2,100	2,100				4,200
SOURCE OF FUNDS							
Water/Sewer Bond Proceeds	400	2,100	2,100				4,200
TOTAL FUNDS	400	2,100	2,100				4,200

PROJECT PUMP STATION EQUIPMENT REPLACEMENT AND REHABILITATION

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY Replacement or rehabilitation of equipment at wastewater booster pump stations.  
 FY 17/18/19 - Other boosters and pump station equipment replacement/rehabilitation (\$75,000 per year)

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Engineering/Construction		75	75	75			225
TOTAL ALLOCATION		75	75	75			225
SOURCE OF FUNDS							
Water/Sewer Fund		75	75	75			225
TOTAL FUNDS		75	75	75			225

PROJECT REDUNDANT RAW WATER LINE

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY Addition of new redundant raw water line from the intake on the Watauga River to the Watauga Water Treatment Plant, increasing capacity for future increases in demand.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Engineering/Construction				500	1,500		2,000
TOTAL ALLOCATION				500	1,500		2,000
SOURCE OF FUNDS							
Water/Sewer Bond Issue				500	1,500		2,000
TOTAL FUNDS				500	1,500		2,000

PROJECT REGIONAL CAPACITY IMPROVEMENTS - PHASE III (B STATION FORCE MAIN)

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY Continuation of the expansion of the regional collection system by adding a 30" force main sewer to B Station. This will provide additional capacity.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Engineering/ROW/Construction		250	1,950	1,800			4,000
TOTAL ALLOCATION		250	1,950	1,800			4,000
SOURCE OF FUNDS							
Water/Sewer Bond Issue				1,800			1,800
Water/Sewer Bond Proceeds		250	1,950				2,200
TOTAL FUNDS		250	1,950	1,800			4,000

PROJECT SEWER LINE REHABILITATION AND REPLACEMENT

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY Funding for rehabilitation and replacing older sewer lines in the system. This is a multi-year program for the City. This also includes cleaning and inspection of sewer lines.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Engineering/Construction	850	900	1,000	1,100	1,200	1,300	5,500
TOTAL ALLOCATION	850	900	1,000	1,100	1,200	1,300	5,500
SOURCE OF FUNDS							
Water/Sewer Fund	850	900	1,000	1,100	1,200	1,300	5,500
TOTAL FUNDS	850	900	1,000	1,100	1,200	1,300	5,500

PROJECT SINKING CREEK SEWER LIFT STATION REPAIRS AND UPGRADES

PROGRAM Utilities

RESPONSIBLE DEPARTMENT

Water/Sewer

SUMMARY Replacement and upgrade of pumps, piping, and controls allowing for more capacity.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Engineering/Construction			750	750			1,500
TOTAL ALLOCATION			750	750			1,500
SOURCE OF FUNDS							
Water/Sewer Bond Issue			750	750			1,500
TOTAL FUNDS			750	750			1,500

PROJECT TANK MAINTENANCE

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY Scheduled maintenance on the 17 reservoirs in the in the water distribution system. Recoating, rehabilitation, and enhancement of storage tanks provide safety improvements and operational improvements. Steel tanks require recoating on a regular cycle.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Maintenance/Rehabilitation	500	500	500	500	500	500	2,500
<b>TOTAL ALLOCATION</b>	500	500	500	500	500	500	2,500
<b>SOURCE OF FUNDS</b>							
Water/Sewer Fund	500	500	500	500	500	500	2,500
<b>TOTAL FUNDS</b>	500	500	500	500	500	500	2,500

PROJECT TANNERY KNOB REPLACEMENT

PROGRAM Utilities

RESPONSIBLE DEPARTMENT

Water/Sewer

SUMMARY Replacement of the Tannery Knob Storage Tank. The existing tank is concrete, was built in 1941, and is in need of replacement on the same site.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
<b>EXPENDITURE ALLOCATION</b>							
Engineering/Construction	500	1,800	1,700				3,500
<b>TOTAL ALLOCATION</b>	<b>500</b>	<b>1,800</b>	<b>1,700</b>				<b>3,500</b>
<b>SOURCE OF FUNDS</b>							
Water/Sewer Bond Proceeds	500	1,800	1,700				3,500
<b>TOTAL FUNDS</b>	<b>500</b>	<b>1,800</b>	<b>1,700</b>				<b>3,500</b>

PROJECT TECHNOLOGY PLAN IMPLEMENTATION/ADVANCED METER INFRASTRUCTURE

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY Implementation of AMI, or "smart meters", provides utilities and customers with real time data concerning consumption which will result in increased meter reading accuracy, improved asset management, improved customer service, and long term financial savings. This project will extend beyond FY 21.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Equipment						4,000	4,000
TOTAL ALLOCATION						4,000	4,000
SOURCE OF FUNDS							
Water/Sewer Fund						4,000	4,000
TOTAL FUNDS						4,000	4,000

PROJECT TECHNOLOGY PLAN IMPLEMENTATION/WORK ORDER SYSTEM

PROGRAM Utilities

RESPONSIBLE DEPARTMENT

Water/Sewer

SUMMARY Planning for and implementation of a new work order system, integrating the GIS system, existing historical information and other potential technology upgrades together.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Equipment/Software	500	1,800	1,200	900	500	600	5,000
TOTAL ALLOCATION	500	1,800	1,200	900	500	600	5,000
SOURCE OF FUNDS							
Water/Sewer Fund	500	1,800	1,200	900	500	600	5,000
TOTAL FUNDS	500	1,800	1,200	900	500	600	5,000

PROJECT UNICOI SPRING COLLECTION SYSTEM REHABILITATION

PROGRAM Utilities

RESPONSIBLE DEPARTMENT

Water/Sewer

SUMMARY Rehab of the Unicoi Springs collection system for Blue Springs #1, Blue Springs #2 and Davis Springs. This rehab will include the collection piping and associated structures used to collect and convey the water to the Unicoi Springs Springhouse and Water Treatment Plant.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Equipment			50	250			300
TOTAL ALLOCATION			50	250			300
SOURCE OF FUNDS							
Water/Sewer Fund			50	250			300
TOTAL FUNDS			50	250			300

PROJECT UNICOI WATER TREATMENT PLANT - PLC REPLACEMENT

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY Replacement of the PLC instrumentation at the Unicoi Water Treatment Plant, including associated reprogramming as required due to reaching useful life.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Equipment		100					100
TOTAL ALLOCATION		100					100
SOURCE OF FUNDS							
Water/Sewer Fund		100					100
TOTAL FUNDS		100					100

PROJECT UTILITY RELOCATIONS FOR LOCAL ROAD PROJECTS

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY Utility relocations and betterment for local road projects which are ineligible for reimbursement. TDOT projects on small bridges and culverts are common and are not reimbursable. This also includes betterment for other road projects that do not have a reimbursable share.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Construction/ROW	250	250	250	250	250	250	1,250
TOTAL ALLOCATION	250	250	250	250	250	250	1,250
SOURCE OF FUNDS							
Water/Sewer Fund	250	250	250	250	250	250	1,250
TOTAL FUNDS	250	250	250	250	250	250	1,250

PROJECT WAREHOUSE RENOVATIONS AT WATER SERVICE

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY To fund study of facility needs, design of replacement or additional facilities, and construction of new offices and warehouse. This project included the consolidation and enhancement of existing services facilities, including: warehousing, meter reading, facility maintenance, line maintenance, engineering, and construction. The existing structures are reaching their useful life, do not meet current codes, and do not provide adequate space.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Engineering/Construction		200	2,800	2,000			5,000
TOTAL ALLOCATION		200	2,800	2,000			5,000
SOURCE OF FUNDS							
Water/Sewer Bond Issue		200	2,800	2,000			5,000
TOTAL FUNDS		200	2,800	2,000			5,000

PROJECT WASTEWATER TREATMENT PLANTS - CLARIFIER REHABILITATION

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY Rehabilitate the areas below the water line on one clarifier at the Regional Wastewater Treatment Plant in FY 2016, one clarifier at the Brush Creek Wastewater Treatment Plant in FY 2017, and one in FY 2019.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Equipment/Construction	200	200		200			400
TOTAL ALLOCATION	200	200		200			400
SOURCE OF FUNDS							
Water/Sewer Fund	200	200		200			400
TOTAL FUNDS	200	200		200			400

PROJECT WATAUGA DISINFECTION CHANGE

PROGRAM Utilities

RESPONSIBLE DEPARTMENT

Water/Sewer

SUMMARY Conversion of the Watauga Water Treatment Plant disinfection from gaseous chlorine to bulk purchased sodium hypochlorite solution. Conversion to liquid sodium hypochlorite is an inherently safer technology and reduces safety concerns.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Engineering/Construction	500	1,100					1,100
TOTAL ALLOCATION	500	1,100					1,100
SOURCE OF FUNDS							
Water/Sewer Bond Proceeds	500	1,100					1,100
TOTAL FUNDS	500	1,100					1,100

PROJECT WATAUGA WATER TREATMENT FLOCCULATOR REPLACEMENT

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY Replacement of three flocculators at the Watauga Water Treatment Plant, which are reaching the end of their service life.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Equipment	110	110	110				220
TOTAL ALLOCATION	110	110	110				220
SOURCE OF FUNDS							
Water/Sewer Fund	110	110	110				220
TOTAL FUNDS	110	110	110				220

PROJECT WATER BOOSTER STATION IMPROVEMENTS

PROGRAM Utilities RESPONSIBLE DEPARTMENT Water/Sewer

SUMMARY Addition of standby power and other renovations to the State of Franklin water booster station.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Engineering/Construction	500						
TOTAL ALLOCATION	500						
SOURCE OF FUNDS							
Water/Sewer Bond Proceeds	500						
TOTAL FUNDS	500						

PROJECT WATER STORAGE TANK (NEW)

PROGRAM Utilities

RESPONSIBLE DEPARTMENT

Water/Sewer

SUMMARY Construction of an additional water storage tank to provide adequate storage for daily variation and emergencies.

PROJECT BUDGET (000's)	Projected FY 2016	Proposed FY 2017	Projected for Future Years				TOTAL
			FY 2018	FY 2019	FY 2020	FY 2021	
EXPENDITURE ALLOCATION							
Engineering/ROW/Construction				500	1,500		2,000
TOTAL ALLOCATION				500	1,500		2,000
SOURCE OF FUNDS							
Water/Sewer Bond Issue				500	1,500		2,000
TOTAL FUNDS				500	1,500		2,000