

2018 Capital Improvement Budget Information Technology Department

(in thousands)

| Projects | Bonds | State | Federal | Other | Total |
|---|--------------|--------------|----------------|--------------|--------------|
| CAMA Upgrade | - | - | - | 2,766 | 2,766 |
| Desktop Life Cycle Management | - | - | - | 200 | 200 |
| Enterprise SIEM Event Logging & Correlation | - | - | - | 400 | 400 |
| IT Project Management Tools | - | - | - | 115 | 115 |
| Network/Equipment Life Cycle Management | - | - | - | 1,270 | 1,270 |
| PBX Phone System Life Cycle Management | - | - | - | 500 | 500 |
| Records Management Storage | - | - | - | 75 | 75 |
| SAP Licenses | - | - | - | 150 | 150 |
| Server Hardware Life Cycle Management | - | - | - | 173 | 173 |
| Storage Hardware Life Cycle Management | - | - | - | 288 | 288 |
| Total | - | - | - | 5,937 | 5,937 |

2018 - 2023 Capital Improvement Program Information Technology Department

(in thousands)

| Projects | Year | Bonds | State | Federal | Other | Total |
|---|------|-------|-------|---------|-------|-------|
| Applications | | | | | | |
| CAMA Upgrade | 2018 | - | - | - | 2,766 | 2,766 |
| | 2019 | - | - | - | 2,343 | 2,343 |
| | 2020 | - | - | - | 2,064 | 2,064 |
| | | - | - | - | 7,173 | 7,173 |
| IT Project Management Tools | 2018 | - | - | - | 115 | 115 |
| Records Management Storage | 2018 | - | - | - | 75 | 75 |
| SAP Licenses | 2018 | - | - | - | 150 | 150 |
| Infrastructure | | | | | | |
| Data Base Infrastructure Replacement | 2019 | - | - | - | 92 | 92 |
| | 2022 | - | - | - | 92 | 92 |
| | | - | - | - | 184 | 184 |
| Desktop Life Cycle Management | 2018 | - | - | - | 200 | 200 |
| Enterprise SIEM Event Logging & Correlation | 2018 | - | - | - | 400 | 400 |
| Network/Equipment Life Cycle Management | 2018 | - | - | - | 1,270 | 1,270 |
| | 2019 | - | - | - | 200 | 200 |
| | 2020 | - | - | - | 200 | 200 |
| | 2021 | - | - | - | 200 | 200 |
| | 2022 | - | - | - | 200 | 200 |
| | 2023 | - | - | - | 200 | 200 |
| | | - | - | - | 2,270 | 2,270 |
| PBX Phone System Life Cycle Management | 2018 | - | - | - | 500 | 500 |
| Server Hardware Life Cycle Management | 2018 | - | - | - | 173 | 173 |
| | 2019 | - | - | - | 115 | 115 |
| | 2020 | - | - | - | 288 | 288 |
| | 2021 | - | - | - | 173 | 173 |
| | 2022 | - | - | - | 161 | 161 |
| | 2023 | - | - | - | 161 | 161 |
| | - | - | - | 1,071 | 1,071 | |
| Storage Hardware Life Cycle Management | 2018 | - | - | - | 288 | 288 |
| | 2019 | - | - | - | 288 | 288 |
| | 2020 | - | - | - | 288 | 288 |
| | 2021 | - | - | - | 288 | 288 |

2018 - 2023 Capital Improvement Program Information Technology Department

(in thousands)

| Projects | Year | Bonds | State | Federal | Other | Total |
|--|--------------|-------|-------|---------|---------------|---------------|
| Storage Hardware Life Cycle Management | 2022 | - | - | - | 288 | 288 |
| | 2023 | - | - | - | 288 | 288 |
| | | - | - | - | 1,728 | 1,728 |
| | Total | - | - | - | 13,866 | 13,866 |

CAMA Upgrade

| | | | |
|---------------------|-----------------------|-------------------|------------------------|
| Project ID | ITD2012001 | Department | Information Technology |
| Project Type | Replacement | Start Date | July 2018 |
| Location | HD-SD: Community-wide | End Date | December 2020 |

Description

Computerized Assisted Mass Appraisal (CAMA). Project will leverage modern technology for assessing value and tax collection for all real and personal property. The 30-year old legacy property appraisal system will be replaced with a relational database system, spatially referenced and fully integrated with GIS data with real 3D intelligent aerial imagery. Property tax is the largest revenue stream for the Municipality and this is a mission critical application. Upgrade is needed due to lack of support for current version of software. There is risk associated with compatibility issues as the mainframe operating system, database and hardware are replaced or upgraded. Also, as the number of people with mainframe skill set continues to dwindle we may need more outsourced support for the system. Useful life will be 10 years. Expected spending will begin in 2018 but appropriation approval is needed in 2017 in order to enter into a contract with the vendor, Tyler Technologies, to allow sufficient time for them to provide quotes and commit staffing resources to meet the 2018 project start date. Maintenance expense of \$236,140 should begin in 2019 (one year after project start date). A one-time training expenditure in the amount of \$160,255 is expected to impact operating budget year 2020. Project is expected to go-live 4th quarter 2020.

Version 2018 Approved

| | | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|-----------------------------|---------------------------------|--------------|--------------|--------------|----------|----------|----------|--------------|
| Revenue Sources | Fund | | | | | | | |
| Internal Charges to Others | 607800 - Information Technology | 2,766 | 2,343 | 2,064 | - | - | - | 7,173 |
| Total (in thousands) | | 2,766 | 2,343 | 2,064 | - | - | - | 7,173 |

O & M Costs

| | | | | | | | |
|-----------------------------|----------|------------|------------|------------|------------|------------|--------------|
| Computer SW Maint(MOA/AWWU) | - | 236 | 236 | 236 | 236 | 236 | 1,180 |
| Depreciation | - | - | - | 277 | 277 | 277 | 831 |
| LT Contracts Pay Int | - | 75 | 65 | 54 | 43 | 32 | 269 |
| Participant Training | - | 160 | - | - | - | - | 160 |
| Total (in thousands) | - | 471 | 301 | 567 | 556 | 545 | 2,440 |

Data Base Infrastructure Replacement

Project ID IT2017002 **Department** Information Technology
Project Type Replacement **Start Date** January 2019
Location HD-SD: Community-wide **End Date** September 2022

Description

Scheduled infrastructure refresh as equipment ages. These are servers specific to Oracle & SQL data base.

Version 2018 Approved

| | | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|-----------------------------|---------------------------------|----------|-----------|----------|----------|-----------|----------|------------|
| Revenue Sources | Fund | | | | | | | |
| Internal Charges to Others | 607800 - Information Technology | - | 92 | - | - | 92 | - | 184 |
| Total (in thousands) | | - | 92 | - | - | 92 | - | 184 |

Desktop Life Cycle Management

| | | | |
|---------------------|-----------------------|-------------------|------------------------|
| Project ID | IT2018003 | Department | Information Technology |
| Project Type | Replacement | Start Date | April 2018 |
| Location | HD-SD: Community-wide | End Date | December 2018 |

Description

Capital purchase of new equipment to replace existing MOA computers that have reached end of life, and technology for MOA user collaboration within MOA and with external resources. Targeted to replace for 2018 will be 60 laptops and 90 desktops. The useful life for laptops is 3 years and desktop units is 5 years.

Version 2018 Approved

| | | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|-----------------------------|---------------------------------|------------|----------|----------|----------|----------|----------|------------|
| Revenue Sources | Fund | | | | | | | |
| Internal Charges to Others | 607800 - Information Technology | 200 | - | - | - | - | - | 200 |
| Total (in thousands) | | 200 | - | - | - | - | - | 200 |

O & M Costs

| | | | | | | | |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| Depreciation | 10 | 40 | 40 | 40 | 40 | 30 | 200 |
| LT Contracts Pay Int | - | 5 | 4 | 3 | 2 | 1 | 15 |
| Total (in thousands) | 10 | 45 | 44 | 43 | 42 | 31 | 215 |

Enterprise SIEM Event Logging & Correlation

| | | | |
|---------------------|-----------------------|-------------------|------------------------|
| Project ID | IT2018002 | Department | Information Technology |
| Project Type | Improvement | Start Date | March 2018 |
| Location | HD-SD: Community-wide | End Date | December 2018 |

Description

The MOA is in need of an Enterprise Security Information and Event Management (SIEM) system to provide real-time analysis of alerts generated by a multitude of applications hardware across multiple departments and domains. The Solution will correlate things like Windows Event logs, Network Logs and logs that will come out of the new Microsoft Data Analytics engine that is currently on our roadmap and will also work most all applications that we procure in the foreseeable future. This solution will also allow us to almost instantly examine, track and alert on MOA anomalies that take place all across the MOA wide area network. Useful life is 3 years.

Version 2018 Approved

| | | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|-----------------------------|---------------------------------|------------|----------|----------|----------|----------|----------|------------|
| Revenue Sources | Fund | | | | | | | |
| Internal Charges to Others | 607800 - Information Technology | 400 | - | - | - | - | - | 400 |
| Total (in thousands) | | 400 | - | - | - | - | - | 400 |

O & M Costs

| | | | | | | | |
|-----------------------------|-----------|------------|------------|------------|----------|----------|------------|
| Computer SW Maint(MOA/AWWU) | - | 60 | 60 | 60 | - | - | 180 |
| Depreciation | 34 | 133 | 133 | 100 | - | - | 400 |
| LT Contracts Pay Int | 5 | 8 | 4 | 1 | - | - | 18 |
| Total (in thousands) | 39 | 201 | 197 | 161 | - | - | 598 |

IT Project Management Tools

| | | | |
|---------------------|-----------------------|-------------------|------------------------|
| Project ID | IT2018005 | Department | Information Technology |
| Project Type | New | Start Date | May 2018 |
| Location | HD-SD: Community-wide | End Date | June 2018 |

Description

Software to Manage the IT Project Lifecycle. Maintaining the portfolio of projects is dependent on an efficient tool that can provide a comprehensive listing, automatic updates, statuses and reporting. This will result in transparency to internal and external customers as well as efficiency to the IT PMO staff. Today, these processes are done in Excel in various spreadsheets and manually updated. 3-year useful life

Version 2018 Approved

| | | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|-----------------------------|---------------------------------|------------|-----------|-----------|-----------|----------|----------|------------|
| Revenue Sources | Fund | | | | | | | |
| Internal Charges to Others | 607800 - Information Technology | 115 | - | - | - | - | - | 115 |
| Total (in thousands) | | 115 | - | - | - | - | - | 115 |
| O & M Costs | | | | | | | | |
| Depreciation | | 19 | 38 | 38 | 20 | - | - | 115 |
| LT Contracts Pay Int | | 2 | 2 | 1 | - | - | - | 5 |
| Total (in thousands) | | 21 | 40 | 39 | 20 | - | - | 120 |

Network/Equipment Life Cycle Management

| | | | |
|---------------------|-----------------------|-------------------|------------------------|
| Project ID | IT2016007 | Department | Information Technology |
| Project Type | Replacement | Start Date | January 2017 |
| Location | HD-SD: Community-wide | End Date | December 2023 |

Description

Capital to purchase and install new network switching and routing gear at various location within the MOA network. The hardware will replace existing equipment that has been in use for over 8 years and is no longer supported by the manufacture. To be proactive in avoiding network failures due to end of life equipment. Useful life is 7 years. Network/Equipment Life Cycle Management - Project to replace outdated Enterprise infrastructure; Network/Equipment Hardware. Budgeted will be allocated towards the following locations: EOC (Emergency Operations Control Center) Network & Infrastructure Refresh (CAD) \$120k; DHHS (Dept of Health & Human Service) \$220k; City Hall Network \$440k; Co_Lo (Co-location, shared data center facility) Network & PDU (Power Distribution Units) \$490. PDU's are intelligent power strips that connect the racks that house the network and servers to the electrical panels.

Version 2018 Approved

| | | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|-----------------------------|---------------------------------|--------------|------------|------------|------------|------------|------------|--------------|
| Revenue Sources | Fund | | | | | | | |
| Internal Charges to Others | 607800 - Information Technology | 1,270 | 200 | 200 | 200 | 200 | 200 | 2,270 |
| Total (in thousands) | | 1,270 | 200 | 200 | 200 | 200 | 200 | 2,270 |

O & M Costs

| | | | | | | | | |
|-----------------------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| Computer HW Maint(MOA/AWWU) | 165 | 165 | 165 | 165 | 165 | 165 | 165 | 990 |
| Depreciation | 45 | 181 | 181 | 181 | 181 | 181 | 181 | 950 |
| LT Contracts Pay Int | - | 34 | 30 | 24 | 20 | 14 | 14 | 122 |
| Total (in thousands) | 210 | 380 | 376 | 370 | 366 | 360 | 360 | 2,062 |

PBX Phone System Life Cycle Management

| | | | |
|---------------------|-----------------------|-------------------|------------------------|
| Project ID | ITD2015002 | Department | Information Technology |
| Project Type | Replacement | Start Date | March 2018 |
| Location | HD-SD: Community-wide | End Date | December 2018 |

Description

2018 capital purchase is to transition from the aging 20+ year old on-premise PBX phone architecture to a current technology using a cloud and on-premise environment. 5 year useful life.

Version 2018 Approved

| | | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|-----------------------------|---------------------------------|------------|----------|----------|----------|----------|----------|------------|
| Revenue Sources | Fund | | | | | | | |
| Internal Charges to Others | 607800 - Information Technology | 500 | - | - | - | - | - | 500 |
| Total (in thousands) | | 500 | - | - | - | - | - | 500 |

O & M Costs

| | | | | | | | |
|-----------------------------|-----------|------------|------------|------------|------------|-----------|------------|
| Computer HW Maint(MOA/AWWU) | 10 | 10 | 10 | 10 | 10 | - | 50 |
| Depreciation | 25 | 100 | 100 | 100 | 100 | 75 | 500 |
| LT Contracts Pay Int | 7 | 12 | 9 | 6 | 3 | 1 | 38 |
| Total (in thousands) | 42 | 122 | 119 | 116 | 113 | 76 | 588 |

Records Management Storage

| | | | |
|---------------------|-----------------------|-------------------|------------------------|
| Project ID | IT2018001 | Department | Information Technology |
| Project Type | New | Start Date | March 2018 |
| Location | HD-SD: Community-wide | End Date | June 2018 |

Description

ITD will procure and implement an Electronic Records Management system to enable MOA to comply with Municipal code requirements and regulations for the management, retention and destruction of electronic records. This software has a useful life of 3 years.

Version 2018 Approved

| | | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|-----------------------------|---------------------------------|-----------|-----------|-----------|-----------|----------|----------|------------|
| Revenue Sources | Fund | | | | | | | |
| Internal Charges to Others | 607800 - Information Technology | 75 | - | - | - | - | - | 75 |
| Total (in thousands) | | 75 | - | - | - | - | - | 75 |
| O & M Costs | | | | | | | | |
| Computer SW Maint(MOA/AWWU) | | 15 | 15 | 15 | - | - | - | 45 |
| Depreciation | | 6 | 25 | 25 | 19 | - | - | 75 |
| LT Contracts Pay Int | | 1 | 1 | 1 | - | - | - | 3 |
| Total (in thousands) | | 22 | 41 | 41 | 19 | - | - | 123 |

SAP Licenses

| | | | |
|---------------------|-----------------------|-------------------|------------------------|
| Project ID | IT2018004 | Department | Information Technology |
| Project Type | New | Start Date | April 2018 |
| Location | HD-SD: Community-wide | End Date | June 2018 |

Description

Analysis is in process to determine additional SAP licenses for ECM & KABA needed after go-live. This software has a useful life of 3 years.

Version 2018 Approved

| | | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|-----------------------------|---------------------------------|------------|----------|----------|----------|----------|----------|------------|
| Revenue Sources | Fund | | | | | | | |
| Internal Charges to Others | 607800 - Information Technology | 150 | - | - | - | - | - | 150 |
| Total (in thousands) | | 150 | - | - | - | - | - | 150 |

O & M Costs

| | | | | | | | |
|-----------------------------|-----------|-----------|-----------|-----------|----------|----------|------------|
| Computer SW Maint(MOA/AWWU) | 30 | 30 | 30 | - | - | - | 90 |
| Depreciation | 25 | 50 | 50 | 25 | - | - | 150 |
| LT Contracts Pay Int | 3 | 2 | 1 | - | - | - | 6 |
| Total (in thousands) | 58 | 82 | 81 | 25 | - | - | 246 |

Server Hardware Life Cycle Management

| | | | |
|---------------------|-----------------------|-------------------|------------------------|
| Project ID | IT2016008 | Department | Information Technology |
| Project Type | Replacement | Start Date | January 2018 |
| Location | HD-SD: Community-wide | End Date | December 2021 |

Description

This capital is to replace server hardware that is at end of life and failing. Server hardware is refreshed every 5 years.

Version 2018 Approved

| | | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|-----------------------------|---------------------------------|------------|------------|------------|------------|------------|------------|--------------|
| Revenue Sources | Fund | | | | | | | |
| Internal Charges to Others | 607800 - Information Technology | 173 | 115 | 288 | 173 | 161 | 161 | 1,071 |
| Total (in thousands) | | 173 | 115 | 288 | 173 | 161 | 161 | 1,071 |

O & M Costs

| | | | | | | | |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| Computer HW Maint(MOA/AWWU) | 17 | 17 | 17 | 17 | 17 | - | 85 |
| Depreciation | 9 | 35 | 35 | 35 | 35 | 26 | 175 |
| LT Contracts Pay Int | - | 4 | 3 | 2 | 2 | 1 | 12 |
| Total (in thousands) | 26 | 56 | 55 | 54 | 54 | 27 | 272 |

Storage Hardware Life Cycle Management

| | | | |
|---------------------|-----------------------|-------------------|------------------------|
| Project ID | IT2016009 | Department | Information Technology |
| Project Type | Upgrade | Start Date | January 2017 |
| Location | HD-SD: Community-wide | End Date | December 2023 |

Description

This capital will replace aging storage hardware at end of life. Storage capacity demands are ever increasing requiring regular investment into replacement or additional hardware required for back up and recovery capacity to cover projected growth. Storage hardware is refreshed every 5 years.

Version 2018 Approved

| | | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Total |
|-----------------------------|---------------------------------|------------|------------|------------|------------|------------|------------|--------------|
| Revenue Sources | Fund | | | | | | | |
| Internal Charges to Others | 607800 - Information Technology | 288 | 288 | 288 | 288 | 288 | 288 | 1,728 |
| Total (in thousands) | | 288 | 288 | 288 | 288 | 288 | 288 | 1,728 |

O & M Costs

| | | | | | | | |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| Computer HW Maint(MOA/AWWU) | 29 | 29 | 29 | 29 | 29 | - | 145 |
| Depreciation | 28 | 58 | 58 | 58 | 58 | 28 | 288 |
| LT Contracts Pay Int | 5 | 6 | 5 | 3 | 2 | - | 21 |
| Total (in thousands) | 62 | 93 | 92 | 90 | 89 | 28 | 454 |